



JANVIKAS MAHAVIDYALAYA, BANSAROLA

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Affiliated to: Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.)

B.A. Tist
President

Dr. B.M. Gore
Secretary

Dr. Babasaheb Gore
Principal

Ref. No.

Date

Metric No. 1.3.2.

Number of courses that include experiential learning through project work/fieldwork/internship year-wise during the last five years

Certificate from the Principal

It is to certify that the college has affiliated with Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. The college teaches programs and courses approved by the affiliating University, and the college has an insignificant role in curriculum design and development. The college operationalizes the curriculum within the affiliating University's overall framework. The curriculum designed by the affiliating University may focus on experiential learning, employability, entrepreneurship, and skill development.

The minutes of the Boards of Studies and Academic Council meetings are the confidential documents of the affiliating University; hence university authorities do not share them with the colleges. They circulate the revised curricula to the colleges along with the implementation circular.

For the first year, B. A. / B. Com. / B. Sc. classes computer subject is mandatory for semester II, for 50 marks. Second-year B. A. / B. Com. / B. Sc. classes Environment science subject is compulsory for semester IV for 75 marks, and third-year B. A. class for the optional subject chosen by the students' have project work for 100 marks at semester VI is made mandatory. The college teaches English (Optional), Hindi (Optional), Marathi (Optional), Sociology (Optional), Geography (Optional), Economics (Optional), Public Administration (Optional), Political Science (Optional), History (Optional) subjects. The student can choose any three optional subjects for their study.

For the Bachelor of Commerce Program, First, Second, and third-year classes, one course is compulsory for the practical course. The students can perform suitable studies based on a field visit and project work, and the preparation of the Project Report or Practical Journal is mandatory. At the end of the semester, the students shall face the practical viva voce as per the university norms.

For the Bachelor of Science, the college teaches subjects like Botany (Optional), Chemistry (Optional), Computer Science (Optional), Zoology (Optional), Physics (Optional), Mathematics (Optional). Each subject has a practical component, and students should do it compulsory. They prepare suitable journals and mention their experimental work done. At the

end of the semester, the students shall face the practical viva voce and written examination on their practical experiments, as per the university norms.

As per the prescribed curricula of the affiliating University, the number of courses that include experiential learning through project work/fieldwork/internship year-wise during the last five years is given below.

Year	2020-21	2019-20	2018-19	2017-18	2016-17
The number of courses includes project work and field visit	48	48	48	48	48


Principal
Janvikas Mahavidyalaya,
Bansarola, Te. Kari, Dist. Boud

Enclosures: Curriculum Copies of the Programs and Courses are attached herewith.

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/NP/Social Sciences/Syllabus/159/2013

It is hereby notified for information of all concerned that, on the recommendations of the Boards of Studies, Ad-hoc Boards, and Faculty of Social Sciences, the **Academic Council at its meeting held on 25-03-2013** has accepted the following revised syllabi for **B.A. First & Second Year and with minor changes in the syllabus of B.A. Third Year Home Science under the Faculty of Social Sciences :-**

Sr. No.	Revised Syllabus
[1]	B.A. [Public Administration] Semester-I & II,
[2]	B.A. [Political Science] Semester-I & II,
[3]	B.A. [History] Semester-I & II,
[4]	B.A. [Economics] Semester-I & II,
[5]	B.A. [Sociology] Semester-I & II,
[6]	B.A. [Philosophy] Semester-I & II,
[7]	B.A. [Home Science] Semester-I to IV,
[8]	B.A. [Psychology] Semester-III & IV, Second Year.
[9]	B.A. [Home Science] Semester-V & VI, Third Year Minor Changes,

This is effective from the Academic Year 2013-2014 and onwards.

These syllabi are available on the University Website www.bamu.net

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF NO.ACAD/NP/SOCIAL SCI./
SYLLABUS /Semester/2013/
5979-6382
A.C.M.A.I.No.21.

Date:- 08-05-2013

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S. S. Singh
13/05/13
Director,
Board of College and
University Development.

- (2) -

Copy forwarded with compliments to :-

- 1] The Principals, affiliated concerned Colleges,
Dr. Babasaheb Ambedkar Marathwada University.
- 2] The Director, University Network & Information Centre, UNIC, with
a request to upload the above all syllabi on University Website
(www.bamu.net).

Copy to :-

- 1] The Controller of Examinations,
- 2] The Superintendent, (B.A. Unit),
- 3] The Superintendent, (Eligibility Unit),
- 4] The Programmer (Computer Unit-1) Examinations,
- 5] The Programmer (Computer Unit-2) Examinations,
- 6] The Director, (E-Service Kendra), in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 7] The Public Relation Officer,
- 8] The Record Keeper,
Dr. Babasaheb Ambedkar Marathwada University.

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Copy forwarded with compliments to :-

- 1] The Principals, affiliated concerned Colleges,
Dr. Babasaheb Ambedkar Maharashtra University
 - 2] The Director, University Network & Information Centre, UNIC, with
a request to upload the above syllabi on University Website
(www.bauuniv.net).
- Copy to :-
- 1] The Controller of Examinations,
 - 2] The Superintendent, (B.A. Unit),
 - 3] The Superintendent, (Eligibility Unit),
 - 4] The Programmer (Computer Unit-1) Examinations,
 - 5] The Programmer (Computer Unit-2) Examinations,
 - 6] The Director, (E-Shiksha Kendra), in-front of Registrar's Quarters,
Dr. Babasaheb Ambedkar Maharashtra University,
 - 7] The Public Relation Officer,
 - 8] The Record Keeper,
Dr. Babasaheb Ambedkar Maharashtra University.

**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Revised Syllabus of

B.A. 1ST YEAR

ECONOMICS

SEMESTER-I & II

Prof. S. Khandke v.B.
12.2.13

Prof. S. Khandke
Chairman of B.A. 5th

Prof. S. Khandke
in B.A. 1st year
BCJ

[Effective from 2013-14 & onwards]

F.Y.B.A. Economics
(Revised Syllabus)
Semester – I

Total Marks: 50

MICRO ECONOMICS (COMPULSORY) Paper – ECO-101

OBJECTIVES:

As a foundation of economics in this paper student is expected to understand the meaning and scope of micro economics, the behavior of an economic agent, namely, a consumer, a producer, a factor owner and the price fluctuation in a market. The approach of this paper is to study the behavior of a unit and analysis is generally static and in partial equilibrium framework. The units incorporated in this paper deals with nature and scope of economics, the theory of consumer behavior and analysis of market equilibrium.

Unit- I: Introduction

- 1.1 Meaning, nature, scope, significance and limitations of micro economics.
- 1.2 Difference between Micro Economics and Macro Economics.
- 1.3 Welfare Economics: Definition and nature of welfare Economics, The concept of new welfare Economics, Pigovian Welfare Economics, Social Welfare Function.

Unit - II: Theory of Demand and Supply:

- 2.1 Concept of Demand, Law of Demand.
- 2.2 Demand Function - Linear and non-Linear demand function.
- 2.3 Concept of Supply, Law of Supply and Supply Function.
- 2.4 Elasticity of Demand - Price, Income and Cross and its measurement.
- 2.5 Elasticity of Supply.

Unit III: Consumers Behaviour and Demand:

- 3.1 Meaning of Utility.
- 3.2 Marishallian Approach: Theory of Diminishing Marginal Utility, Equi-marginal utility, Consumer's Surplus.
- 3.3 Hick's Approach: Indifference curve - properties of Indifference Curve.
- 3.4 Consumer's Equilibrium with the help of Indifference Curve, Price effect, Income effect and substitution effect
- 3.5 Samuelson Approach: Revealed Preference Theory.

Unit IV: Analysis of Market Equilibrium:

- 4.1 Meaning and Importance of Equilibrium.
- 4.2 Kinds of Equilibrium – Stable, Unstable and Neutral Equilibrium.
- 4.3 Static and Dynamic Equilibrium, Partial and General Equilibrium.

BASIC READING LIST:

1. Bach, G.L. (1977) : Economics, Prentice Hall of India, New Delhi.
2. Gauld, J.P. and Edward P. L. : (1996), Microeconomic Theory, Richard. Irwin, Homewood.
3. Henderson J. and R.E. Quandt (1980): Microeconomic Theory : A Mathematical Approach, McGraw Hill, New Delhi.
4. Heathfield and Wibe (1987): An Introduction to Cost and Production Functions, Macmillan, London.
5. Koutsoyiannis, A. (1990): Modern Microeconomics, Macmillan.
6. Lipsey, R.G. and K.A. Chrystal (1999): Principles of Economics (9th Edition), Oxford University Press, Oxford.
7. Mansfield, E. (1997) : Microeconomics (9th Edition), W.W. Norton and Company, New York.
8. Ray, N.C. (1975): An Introduction to Microeconomics, Macmillan Company of India Ltd., Delhi.
9. Ryan, W.J.L. (1962),: Price Theory, Macmillan and CO. Limited, London.
10. Samuelson, P.A. and W.D. Nordhaus (1998), Economics, Tata McGraw Hill, New Delhi.
11. Stonier, A.W. and D.C. Hague (1972): A Textbook of Economic Theory, ELBS & Longman Group, London.

F.Y.B.A. Economics
(Revised Syllabus)
Semester - I

Total Marks - 50

INDIAN ECONOMY (COMPULSORY) - Paper-ECC-102

OBJECTIVES:

The objective of the paper at the F.Y.B.A. level would be to sharpen the analytical faculty of the students, by highlighting an integrated approach to be functioning aspects of the Indian economy, keeping in view the scope for alternative approaches. Such an analysis is essential because the Indian economy is a unique amalgam of alternative competing and often conflicting theories and a proper understanding of its working of its working is imperative if the student is to comprehend the ramifications that underlie most of the observed phenomena in the Indian economic set-up. The emphasis of the paper is on overall social, political and economic environment influencing policy decisions. To develop all these themes, the contents are divided into specific modules.

1. STRUCTURE OF THE INDIAN ECONOMY

- 1.1 Characteristics of the Indian Economy as a less developed economy
- 1.2 Features: Natural Resources- Land, Water and Forest Resources and Minerals, Need for sustainable development.
- 1.3 Population: - Broad features, size and growth rates sex composition, Birth rate - death rate, Density, Literacy, Sex composition, Age composition, Occupational distribution, Rural Urban Population- Life expectancy, Rural Urban Migration occupational distribution- Problems of over population, population policy.

2. HUMAN RESOURCE DEVELOPMENT

- 2.1 Human Development Index (HDI): Concept and Meaning, Indicators, Importance
- 2.2 Gender Related Development Index (GDI)
- 2.3 Human Poverty Index (HPI)
- 2.4 HDI - Inter country and inter- state comparison

3. POVERTY & UNEMPLOYMENT

- 3.1 Concept of Poverty- Measurement of Poverty - Causes of Poverty- Measures to removal of Poverty.
- 3.2 Nature & Types of Unemployment.

4. PLANNING IN INDIA

- 4.1 Background of Indian planning-National Planning Committee, Bombay Plan, Peoples Plan, Gandhian Plan, The Planning Commission.
- 4.2 Objectives & Strategy of Indian Planning.
- 4.3 Achievements & Failures of Five-Year Plan.
- 4.4 Current Five Year Plan - Objectives, Allocations & Targets.
- 4.5 New Economic Reforms.

BASIC READING LIST

1. Datt, R and Sundharam, K.P.M. (2001), Indian Economy, S. Chand & Co. Ltd. New Delhi.
2. Dhingia, I.C. (2001) The Indian Economy - Environment & Policy, Sultan Chand & Sons, New Delhi.
3. Misra, S. K. & Puri, V. K. (2001), Indian Economy – its development experience, Himalaya Publishing House, Mumbai.

ADDITIONAL READING LIST

1. Government of India, Economic Survey (Annual), Economic Division, Ministry of Finance New Delhi.
2. Planning Commission (1999) Ninth Five-Year Plan, Government of India, New Delhi.
3. Ahluwalia, I.J. and Little, M.D. (Eds.) (1999), India's Economic Reforms and Development (Essays in honor of Manmohan Singh), Oxford University Press, New Delhi.
4. Jalan, B. (1992), The Indian Economy : Problems and Prospects, Viking, New Delhi.
5. Parikh K.S. (1999), India Development Report- 1999-2000, Oxford University Press, New Delhi.
6. Datt, R. (Ed.) (2001), Second Generation Economic Reforms in India, Deep & Deep Publications, New Delhi.

F.V.B.A. Economics
(Revised Syllabus)
Semester - II

Total Marks: 50

Price Theory (COMPULSORY) Paper-ECO-103

OBJECTIVE:

The purpose of this paper on price theory at the B. A. level is to enable students to have an understanding of the various components regarding price determination under various types of markets. Units incorporated in this paper would enable the students to know about the theory of production, Cost and revenue analysis, forms of market and factor pricing theories.

Unit I: Theory of Production:

- 1.1 Meaning of production. Concept of Production Function.
- 1.2 The law of Variable Proportions.
- 1.3 Law of returns & returns to Scale. Internal and External Economies & Diseconomies.
- 1.4 Isoquant Curve, Properties of Isoquant curves.
- 1.5 Isocost Line, Production Possibility Curve.

Unit II: Analysis of Costs and Revenue:

- 2.1 Concepts of Costs- Fixed and variable Costs, Opportunity cost, Average and Marginal Cost.
- 2.2 Short run and Long run cost curves.
- 2.3 Modern Approach related to Short run and Long run cost curves.
- 2.4 Relation between Marginal Cost, Average Cost and Total Cost.
- 2.5 Revenue concepts: Total Revenue, Average & Marginal Revenue.
- 2.6 Equilibrium of the Firm – Short run and Long run.

Unit III: Market

- 3.1 Meaning & classification
- 3.2 Perfect Competition: concept - Characteristics, price determination in short and long run, Equilibrium of the firm and industry
- 3.3 Monopoly- Concept, Characteristics and short and long run Equilibrium, price determination, Price discrimination
- 3.4 Monopolistic Competition: concept, Characteristics and short & long run Equilibrium of Firm, Group Equilibrium, Selling cost.

F.Y.B.A. Economics
(Revised Syllabus)
Semester – II

Price Theory (COMPULSORY) Paper-ECO-103

Total Marks: 50

OBJECTIVE:

The purpose of this paper on price theory at the B. A. level is to enable students to have an understanding of the various components regarding price determination under various types of markets. Units incorporated in this paper would enable the students to know about the theory of production, Cost and revenue analysis, forms of market and factor pricing theories.

Unit I: Theory of Production:

- 1.1 Meaning of production. Concept of Production Function.
- 1.2 The law of Variable Proportions.
- 1.3 Law of returns & returns to Scale. Internal and External Economies & Diseconomies.
- 1.4 Isoquant Curve, Properties of Isoquant curves.
- 1.5 Isocost Line, Production Possibility Curve.

Unit II: Analysis of Costs and Revenue:

- 2.1 Concepts of Costs- Fixed and variable Costs, Opportunity cost, Average and Marginal Cost.
- 2.2 Short run and Long run cost curves.
- 2.3 Modern Approach related to Short run and Long run cost curves.
- 2.4 Relation between Marginal Cost, Average Cost and Total Cost.
- 2.5 Revenue concepts: Total Revenue, Average & Marginal Revenue.
- 2.6 Equilibrium of the Firm – Short run and Long run.

Unit III: Market

- 3.1 Meaning & classification
- 3.2 Perfect Competition: concept - Characteristics, price determination in short and long run, Equilibrium of the firm and industry.
- 3.3 Monopoly- Concept, Characteristics and short and long run Equilibrium, price determination, Price discrimination.
- 3.4 Monopolistic Competition: concept, Characteristics and short & long run Equilibrium of Firm, Group Equilibrium, Selling cost.

3.5 Oligopoly – Concept, Characteristics

3.6 Duopoly: - Concept & Characteristics.

Unit IV: Factor Pricing.

4.1 Marginal Productivity theory of Distribution.

4.2 Rent – Concept -Ricardian Theory of Rent, Modern Theory of Rent, Quasi Rent..

4.3 Wages – Concept, Types – Modern theory of wages, wage differentials and Collective Bargaining.

4.4 Interest –Concept, Loanable funds theory and Keynes’s Liquidity preference theory.

4.5 Profit – Concept, Risk and uncertainty theory and Innovation theory.

Unit V: Pricing Methods:

5.1 Pricing Methods: Marginal Cost Pricing - Full Cost Pricing - Multi product pricing – Limit Pricing.

5.2 Bain’s Model.

BASIC READING LIST:

1. Bach, G.L. (1977) Economics, Prentice Hall of India, New Delhi.
2. Gould, J.P. and Edward P. L. (1996), Microeconomic Theory, Richard. Irwin, Homewood
3. Henderson J. and R.E. Quandt (1980): Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
4. Heathfield and Wibe (1987): An Introduction to Cost and Production Functions, Macmillan, London.
5. Koutsoyiannis, A. (1990): Modern Microeconomics, Macmillan.
6. Lipsey, R.G. and K.A. Chrystal (1999): Principles of Economics (9th Edition), Oxford University Press, Oxford.
7. Mansfield, E. (1997): Microeconomics (9th Edition), W.W. Norton and Company, New York.
8. Ray, N.C. (1975): An Introduction to Microeconomics, Macmillan Company of India Ltd., Delhi.
9. Ryan, W.J.L. (1962): Price Theory, Macmillan and CO. Limited, London.
10. Samuelson, P.A. and W.D. Nordhaus (1998), Delhi. Economics, Tata McGraw Hill, New
11. Stonier, A.W. and D.C. Hague (1972): A Textbook of Economic Theory, ELBS & Longman Group, London.

**F.Y.B.A. Economics
(Revised Syllabus)
Semester – II**

Total Marks: 50

MONEY BANKING AND FINANCE (COMPULSORY) Paper- ECO-104

OBJECTIVE:

Money and banking constitutes important components of modern economy. A clear understanding of the operations of money and banking and their interaction with the rest of the economy is essential to realize how monetary forces operate. The paper on money and banking is essential for students to understand the monetary and banking system in India.

Unit – I: Meaning & Function of Money:

- 1.1 Meaning, Definition and Functions.
- 1.2 Types of Money.
- 1.3 Paper currency and kinds of Paper currency.
- 1.4 Methods of Note Issue – Principles of note issue and Paper Currency Standards.
- 1.5 Gresham's Law.

Unit – II: Banking in India:

- 2.1 Meaning and Definitions of Bank.
- 2.2 Banking Structure in India.
- 2.3 Commercial Banking – Functions, Credit Creation – process, purpose and limitations, Principles of Commercial Banks - Liquidity, Profitability and Safety.
- 2.4 Functions of Foreign Banks, Regional Rural Banks, District Central Cooperative Banks, Primary Agricultural Cooperative Credit Societies, State Cooperative Banks and NABARD.
- 2.5 New Concepts in Banking – Core banking, ATM, Credit Card, E-banking and Internet banking.

Unit – III: Reserve Bank of India:

- 3.1 Meaning and Functions of Reserve Bank of India.
- 3.2 Money measures – M1, M2, M3, & M4.

- 3.3 Organization and Management of R.B.I.
- 3.4 Monetary Policy – Meaning, Objectives
- 3.5 Methods of Credit Control – Qualitative and Quantitative.

Unit – IV: Money Market Capital Market in India:

- 4.1 Meaning, Structure and Functions.
- 4.2 Components of Money Market, Role of the Money Market,-Money Market Reforms in India.
- 4.3 Capital Market – Meaning, Nature and functions of Indian Capital Market.
- 4.4 Stock Market – Meaning and functions of stock Market.
- 4.5 Functions of Securities Exchanges Board of India (SEBI).

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READING LIST:

1. Harris C.L. (1961): Money and Banking, Allyn and Bacon, London.
2. Ackley, G. (1976): Macroeconomics: Theory and Policy, Macmillan Publishing Company, New York.
3. Gupta, S.B. (1994): Monetary Economics, S. Chand & Company, New Delhi.
4. Shapiro, E. (1996): Macroeconomics Analysis, Galgotia Publications, New Delhi.
5. Day, A.C.L. (1960): Outline of Monetary Economics, Oxford University Press, Oxford.
6. De Keck, M.H. (1960): Central Banking, Staples Press, London.
7. Halm, G.N. (1955): Monetary Theory, Asia Publishing House, New Delhi.
8. Harris, C.L. (1961): Money and Banking, Allyn and Bacon, London.
9. Mishra, S.S. (1981): Money, Inflation and Economic growth, Oxford & IBH Publishing Company, New Delhi.
10. Reserve Bank of India (1983): The Reserve Bank of India: Functions and Working, Bombay.
11. Reserve Bank of India: Report on Trend and Progress of Banking in India, (Various years), Mumbai.
12. Reserve Bank of India: Report on Currency and Finance (Annual), Mumbai.
13. Sayers R.S., (1978): Modern Banking, (7th Edition), Oxford University Press, Delhi.
14. Batra G.S. and Dangwal R.C., (1999) :Banking and Development Finance, Deep and Deep Publications, Delhi.
15. Bhagwat I.K., (1982): Urban Banks, Rajgaru Press, Pune.
16. Horn N.,(1937): Cooperative Banking, PISI King and Sons, Orchard House, West Minister.
17. Laud G.M., (1956): Cooperative Banking in India, Cooperative Book Depot., Bombay.
18. Desai and Muzlik V.R., (1979), Banking Development in India, Munaktal, Bombay.

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DR. D. B. N. K.
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**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
AURANGABAD**



**SYLLABUS
OF
COMPULSORY ENGLISH, OPTIONAL ENGLISH AND
ADDITIONAL ENGLISH (SL) COURSE
FOR
B.A./B.COM./B.SC./B.S.W./B.F.A. FIRST YEAR
SEMESTER ONE AND TWO**

[EFFECTIVE FROM JUNE 2013-2014 AND ONWARDS]

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
AURANGABAD**



**SYLLABUS
OF
COMPULSORY ENGLISH, OPTIONAL ENGLISH AND ADDITIONAL
ENGLISH (SL) COURSE
FOR
B.A./B.COM./B.SC./B.S.W./B.F.A.FIRST YEAR
SEMESTER ONE AND TWO
EFFECTIVE FROM JUNE 2013 AND ONWARDS**

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12-03-2013

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SYLLABUS
COMPULSORY ENGLISH COURSE
B.A. /B.COM. /B.SC. /B.S.W. /B.F.A. FIRST YEAR

THE COURSE OF COMPULSORY ENGLISH CONSISTS OF ONE PAPER TO BE STUDIED IN TWO SEMESTERS.

TITLE OF THE PAPER: **LEARNING LANGUAGE SKILLS-I: PAPER-I, II**
CODE OF THE PAPER: **CLE- 1**

AIM OF THE COURSE

*To strengthen students' ability in listening, speaking, reading and writing both at practical and theoretical level.

OBJECTIVES OF THE COURSE

*To introduce students to the grammatical properties in order to enable them to write and speak English consciously.

*To train them both in precision and in appropriate use of language through prose reading.

*To acquaint students with a keen and subtle way in which the English language is used.

CONTENT OF THE COURSE (SEMWISE)

SEMESTER ONE

PAPER-I: LEARNING LANGUAGE SKILLS-I

50 MARKS

UNIT ONE: PROSE

15 MARKS

1) *Happy Prince*- Oscar Wilde

2) *Good Manners*- J.C. Hill

3) *The Eyes Are Not Here*- Ruskin Bond

4) *Forgetting*- Robert Lynd

5) *Home Coming*- Rabindranath Tagore

UNIT TWO: POETRY

15 MARKS

1) *One Day I Wrote Her Name upon the Strand*- Edmund Spenser

2) *Ode on Solitude*- Alexander Pope

3) *If*- Rudyard Kipling

4) *My Love Is Like Red Red Rose*- Robert Burns

5) *Stopping by Woods on a Snowy Evening*- Robert Frost

PRESCRIBED TEXT: *LANGUAGE THROUGH LITERATURE: an anthology of prose and poetry* by The Board of Studies in English, Published by Orient Blackswan Pvt. Ltd. Hyderabad, 2012.

UNIT THREE: GRAMMAR

12 MARKS

- 1) Parts of Speech
- 2) Nouns: classes and gender; number and case.
- 3) Adjectives: kinds of adjectives; comparison of adjectives; the correct use of some adjectives and articles.
- 4) Pronouns: personal pronouns, reflexive pronouns, demonstrative pronouns, interrogative pronouns, distributive pronouns, relative pronouns.
- 5) Verbs: transitive and intransitive; verbs and mood: indicative mood, imperative mood, subjunctive mood; the auxiliaries: be, have, do, shall, can, must; modal auxiliaries.
- 6) Adverbs: kinds: simple, interrogative and relative; formation of adverbs; position of adverbs.
- 7) Prepositions: phrase prepositions; object of prepositions; relations shown by prepositions; correct use of prepositions.
- 8) Conjunctions: phrase conjunctions; coordinating and subordinating conjunctions; correct use of some conjunctions.
- 9) Interjections

PRESCRIBED TEXT: *BASIC ENGLISH GRAMMAR AND COMPOSITION*, Edit. By Board of Studies in English, Pub. By Macmillan Publishers India Ltd., Mumbai: 2013.

UNIT FOUR: PRECIS WRITING

8 MARKS

SEMESTER TWO

PAPER-II: LEARNING LANGUAGE SKILLS-I

50 MARKS

UNIT ONE: PROSE

15 MARKS

- 1) *The Bet*- Anton Chekov
- 2) *The Three Questions*- Leo Tolstoy
- 3) *With the Photographer*- Stephen Leacock
- 4) *National Prejudices*- Oliver Goldsmith
- 5) *Playing the English Gentleman*- Mahatma Gandhi

UNIT TWO: POETRY

15 MARKS

- 1) *Where the Mind is Without Fear*- Rabindranath Tagore
- 2) *The Solitary Reaper*- William Wordsworth
- 3) *Ozymandias of Egypt*- P.B.Shelly
- 4) *Laugh and be Merry*- John Masefield
- 5) *The Toys*- Coventry Patmore

PRESCRIBED TEXT: *LANGUAGE THROUGH LITERATURE: an anthology of prose and poetry* by The Board of Studies in English, Published by Orient Blackswan Pvt. Ltd. Hyderabad, 2012.

UNIT THREE: GRAMMAR

12 MARKS

- 1) Tenses; the Simple Present, the Present Continuous, and the Simple Past
- 2) The Present Perfect and the Simple Past
- 3) The Past Continuous and the Past Perfect
- 4) The Present Perfect Continuous and the Past Perfect Continuous
- 5) Future Tense
- 6) The Uses of the Tenses

PRESCRIBED TEXT: *BASIC ENGLISH GRAMMAR AND COMPOSITION*, Edit. By Board of Studies in English, Pub. By Macmillan Publishers India Ltd., Mumbai: 2013.

UNIT FOUR: PARAGRAPH WRITING

8 MARKS

Recommended Reading for Grammar Units:

- 1) *Contemporary English Grammar Structures and Composition* by David Green Pub. By Macmillan Publishers India Ltd., 2011 edition.
- 2) *Modern English: A Book of Grammar Usage and Composition*, By N.Krishnaswami, Pub. By Macmillan Publishers India Ltd. 2009.

Note: Model question paper will be incorporated.

SYLLABUS
OPTIONAL ENGLISH COURSE
B.A. FIRST YEAR

THE COURSE OF OPTIONAL ENGLISH CONSISTS OF TWO PAPERS TO BE STUDIED IN TWO SEMESTERS SIMULTANEOUSLY.

PAPER-I: THE STRUCTURE OF ENGLISH

CODE OF THE PAPER: **OPE -1**

PAPER-II: READING LITERATURE

CODE OF THE PAPER: **OPE -2**

PAPER-I: THE STRUCTURE OF ENGLISH

50 MARKS

AIM OF THE COURSE

*The course aims at giving students advanced knowledge of English in matter of speaking and writing.

OBJECTIVES OF THE COURSE

*To help students towards better pronunciation.

*To enable students to acquire the structure of English language.

CONTENT OF THE COURSE (SEMWISE)

SEMESTER ONE

UNIT ONE: PHONETICS

20 MARKS

1) Phonetic Symbols.

2) The Articulation of Speech Sounds.

3) Classification of Speech Sounds: Description of Consonants and Vowels.

4) The Syllable

5) Pure Vowels and Diphthongs; the Consonants of English

PRESCRIBED TEXT: A TEXTBOOK OF ENGLISH PHONETICS FOR INDIAN STUDENTS, 2nd Edition, By T. Balasubramanian, Macmillan Publishers India Ltd. Mumbai, 2013.

Recommended Reading: **English Phonetics for Indian Students: A Workbook**, By T. Balasubramanian, Macmillan, 2011.

UNIT TWO: GRAMMAR

30 MARKS

1) Simple Sentence Pattern: subject and predicate; form and function; the basic patterns; sentence types.

2) Phrases: noun phrase, verb phrase, adjective phrase, adverb phrase, prepositional phrase.

PRESCRIBED TEXT: **A COURSE IN ENGLISH GRAMMAR** by R.N. Bakshi, Orient Black Swan Pvt. Ltd. 2010.

SEMESTER TWO

PAPER-III: THE STRUCTURE OF ENGLISH

50 MARKS

UNIT THREE: PHONETICS

20 MARKS

- 1) Word Accent in English
- 2) Accent and Rhythm in Connected Speech
- 3) Intonation
- 4) Phonetic Transcription

PRESCRIBED TEXT: **A TEXTBOOK OF ENGLISH PHONETICS FOR INDIAN STUDENTS**, 2nd Edition, By T. Balsubramanian, Macmillan Publishers India Ltd. Mumbai, 2013.

UNIT FOUR : GRAMMAR

30 MARKS

- 1) Complex Sentences-I
- 2) Complex Sentences-II
- 3) Word Formation

PRESCRIBED TEXT: **A COURSE IN ENGLISH GRAMMAR** by R.N. Bakshi, Orient Blackswan Pvt. Ltd. 2010.

Note: Model question paper will be incorporated.

PAPER-II: READING LITERATURE

50 MARKS

AIM OF THE COURSE

*To enable students to read and appreciate various forms of literature and critically interact with them from different perspectives.

OBJECTIVES OF THE COURSE

*To introduce students to appropriate literary strategies to read literature.

*To pinpoint how far literary language deviates from ordinary language.

*To unravel many meanings in a literary text.

CONTENT OF THE COURSE (SEMWISE)

SEMESTER ONE

UNIT ONE: METHODOLOGY OF LITERATURE

16 MARKS

- 1) Poetical types: the lyric, the sonnet.

2) The novel: the novel and the other forms, its structure, purpose and meaning.

UNIT TWO: SHAKESPEARE'S SONNETS

14 MARKS

- 1) Sonnet no. 29: 'When in Disgrace...'
- 2) Sonnet no. 60: 'Like as the Waves...'
- 3) Sonnet no. 73: 'That Time of Year...'
- 4) Sonnet no. 116: 'Let me Not...'
- 5) Sonnet no. 130: 'My Mistress's Eyes...'

PRESCRIBED TEXTS: 1) **A BACKGROUND TO THE STUDY OF ENGLISH LITERATURE**, (Rev.edi) by B. Prasad, Pub. By Macmillan Publishers India Ltd. 2006.

2) **THE WINGED WORD: AN ANTHOLOGY OF POEMS FOR DEGREE COURSE**, edit. By David Green, Macmillan Publishers India Ltd 2007.

UNIT THREE: NOVEL

20 MARKS

THE GUIDE BY R. K. NARAYAN.

SEMESTER TWO

PAPER-IV: READING LITERATURE

50 MARKS

UNIT FOUR: METHODOLOGY OF LITERATURE

16 MARKS

1) Poetical types: Odes 2) Dramatic types: tragedy and comedy

UNIT FIVE: JOHN KEATS' ODES

14 MARKS

1) *Ode to Nightingale* 2) *Ode to Autumn*

3) *Ode on a Grecian Urn*

UNIT SIX: DRAMA

20 MARKS

ARMS AND THE MAN BY G.B. SHAW.

PRESCRIBED TEXTS: 1) **A BACKGROUND TO THE STUDY OF ENGLISH LITERATURE** by B. Prasad, Macmillan India Ltd. 2006.

2) **THE WINGED WORD: AN ANTHOLOGY OF POEMS FOR DEGREE COURSE**, Edit. By David Green, Macmillan Publishers India Ltd 2007.

Note: Model question paper will be incorporated.

SYLLABUS
ADDITIONAL ENGLISH (S.L.) COURSE
B.A./B.COM./B.SC./B.S.W./B.F.A. FIRST YEAR
THE ADDITIONAL ENGLISH COURSE CONSISTS OF ONE PAPER TO
BE STUDIED IN TWO SEMESTERS
TITLE OF THE PAPER: **ADDITIONAL ENGLISH- PAPER-I, II**
CODE OF THE PAPER: **SLE -1**
CONTENT OF THE COURSE (SEMWISE)

SEMESTER ONE

PAPER-I: ADDITIONAL ENGLISH (S.L.)	50 MARKS
UNIT ONE: FICTION	30 MARKS
<i>ANIMAL FARM</i> BY GEORGE ORWELL	
UNIT TWO: PRECIS AND COMPREHENSION	10 MARKS
UNIT THREE: PARAPHRASING AND EXPANSION	10 MARKS
PRESCRIBED TEXT: BASIC ENGLISH GRAMMAR AND COMPOSITION , Edit. By Board of Studies in English, Pub. By Macmillan Publishers India Ltd., Mumbai: 2013.	

SEMESTER TWO


PAPER-II: ADDITIONAL ENGLISH (S.L.)	50 MARKS
UNIT ONE: DRAMA	30 MARKS
<i>NAGA-MANDAL</i> BY GIRISH KARNAD	
UNIT TWO: LETTER WRITING	10 MARKS
UNIT THREE: ESSAY WRITING	10 MARKS
PRESCRIBED TEXT: BASIC ENGLISH GRAMMAR...	

Note: Model question paper will be incorporated.

ACKNOWLEDGEMENT

The Board of Studies in English gratefully acknowledges the valuable suggestions from teachers of colleges regarding the content of the course. The Board also acknowledges supports from the University in this matter.

28 January, 2013
University Campus


Chairman
Board of Studies in English
Dr. B. A. M. University Aurangabad

**DR. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD**



HINDI
✓ Syllabus Hindi-

Second Language for
B.A./B.Com./B.Sc./B.F.A. - Ist Year

Semester I & II

(Effective from June 2013 Onwards)

✓
MKS
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MKS
12-03-2013


**B.A./B.Com./B.Sc./B.F.A. -I S.L.
Second Language**

Semester - I

Second Language Hindi प्रश्नपत्र 1 सामान्य हिंदी-1

Semester - II

Second Language Hindi प्रश्नपत्र 2 सामान्य हिंदी-2


डॉ. सुपुष्पाक मंडारे
अध्यक्ष
हिंदी पाठ्यक्रम समिति

बी.ए./बी.कॉम./बी.एस.सी./बी.एफ.ए.

प्रथम वर्ष : प्रथम सत्र

द्वितीय भाषा

प्रश्नपत्र 1 : सामान्य हिंदी - 1

> **उद्देश्य :**

1. संवेदना का विकास
2. भाषा कौशल का विकास

> **अध्ययन-अध्यापन पद्धति :**

1. व्याख्यान
2. दृक-श्रव्य साधनों का प्रयोग
3. स्वाध्याय/परियोजना

> **पाठ्यक्रम :**

अ) कहानी साहित्य :

पाठ्यपुस्तक :

1. कथा संसार : सम्पादक/समन्वयक : डॉ. माधव सोनटक्के हिंदी पाठ्य समिति वाणी प्रकाशन, नई दिल्ली (पाठ्यक्रम में समाविष्ट कहानियाँ : स्त्री और पुरुष, हार की जीत, दो बोंके, गोरी, एटम बम, पंचलाईट, अपरिचित)

आ) हिंदी भाषा :

1. हिंदी भाषा : उद्भव और विकास : सामान्य परिचय
2. देवनागरी लिपि : स्वरूप एवं विकास
3. हिंदी वर्तनी का मानक रूप
4. पारिभाषिक शब्दावली : स्वरूप और समस्याएँ

> **संदर्भ ग्रंथ :**

1. हिंदी कहानी का विकास : मधुरेश : सुमित प्रकाशन
2. हिंदी कहानी के सौ वर्ष : डॉ.एन.एम. सण्णी, जवाहर पुस्तकालय, आगरा
3. साठोत्तरी हिंदी लेखिकाओं की कहानियों में नारी : डॉ. मंगल कम्पीकेरे : विकास प्रकाशन, कानपुर
4. व्यावहारिक हिंदी : डॉ. माधव सोनटक्के : जयभारती प्रकाशन, इलाहाबाद
5. अच्छी हिंदी : रामचंद्र वर्मा : लोकभारती प्रकाशन, इलाहाबाद
6. व्यावहारिक हिंदी व्याकरण : हस्देव चाहरी : लोकभारती प्रकाशन, इलाहाबाद
7. हिंदी व्याकरण : व्योमेशचंद्र शुक्ल : वाणी प्रकाशन, दिल्ली

बी.ए./बी.बी.ए./बी.एस.सी./बी.एफ.ए.

प्रथम वर्ष : द्वितीय सत्र

द्वितीय भाषा

प्राश्नपत्र 2 : सामान्य हिंदी - 2

> अवश्य :

1. संवेदन का विकास
2. भाषा कौशल का विकास

> अध्यापन-अध्यापन पद्धति :

1. व्याख्यान
2. दृक-श्रव्य साधनों का प्रयोग
3. स्वध्याय/परियोजना

> पाठ्यक्रम :

अ) कहानी साहित्य :

1. कथा संसार : सम्पादक/समन्वयक : डॉ. माधव सोनटक्के हिंदी पाठ्य समिती, वाणी प्रकाशन, नई दिल्ली
(पाठ्यक्रम में समाविष्ट कहानियाँ : घर की तलाश, कसबे का आदमी, पोस्टमैन, सुह्री का दिन, गुमशुदा की तलाश, दून का टीका, मैं, शहर और वे)

आ) व्यावहारिक हिंदी:

1. व्यावहारिक लेखन : संक्षेपण, पल्लवन
2. पत्राचार : निजी, सामाजिक, सरकारी, अर्द्धसरकारी
3. कम्प्यूटर में हिंदी का प्रयोग
4. अनुवाद : स्वल्प और भेद

> संदर्भ ग्रंथ :

1. व्यावहारिक हिंदी : डॉ. माधव सोनटक्के, जयभारती प्रकाशन, इलाहाबाद
2. हिंदी कहानी : परंपरा और प्रगति : हरदयाल, वाणी प्रकाशन, नई दिल्ली
3. कहानी : स्वल्प और संवेदन : रामेन्द्र यादव, वाणी प्रकाशन, नई दिल्ली
4. प्रयोजनात्मक तथा व्यावहारिक हिंदी : डॉ. सुकुमार भंडारे, विकास प्रकाशन, कानपुर
5. व्यावहारिक हिंदी व्याकरण : हरदेव बाहरी, लोकभारती प्रकाशन, इलाहाबाद
6. हिंदी व्याकरण : ज्योतिराचंद शुक्ल, वाणी प्रकाशन, नई दिल्ली
7. मानक हिंदी व्याकरण : पूष्पीनाथ पाण्डे, जयभारती प्रकाशन, इलाहाबाद

अंक विभाजन तथा प्रश्नपत्र का प्रारूप

प्रथम सत्र

प्रश्नपत्र 1 द्वितीय भाषा : सामान्य हिंदी

समय 2 घण्टे	कुल अंक : 50
1) 'कथा संसार' की रचनाओं से विकल्प सहित ससंदर्भ व्याख्या	अंक 10
2) 'कथा संसार' की रचनाओं पर विकल्पसहित दीर्घोत्तरी प्रश्न	15
3) हिंदी भाषा पर विकल्पसहित दीर्घोत्तरी प्रश्न	15
4) टिप्पणी	10

अ) हिंदी भाषा के पाठ्यक्रम पर विकल्पसहित

आ) 'कथा संसार' की रचनाओं पर विकल्पसहित

अंक विभाजन तथा प्रश्नपत्र का प्रारूप

द्वितीय सत्र

प्रश्नपत्र 2 : द्वितीय भाषा : सामान्य हिंदी -2

समय 2 घण्टे	कुल अंक : 50
1) 'कथा संसार' की कहानियों से विकल्प सहित ससंदर्भ व्याख्या	अंक 10
2) 'कथा संसार' की कहानियों विकल्पसहित पर दीर्घोत्तरी प्रश्न	15
3) व्यावहारिक हिंदी के पाठ्यक्रम पर विकल्पसहित दीर्घोत्तरी प्रश्न	15
4) टिप्पणी	10

अ) 'कथा संसार' की कहानियों पर विकल्पसहित

आ) व्यावहारिक हिंदी के पाठ्यक्रम पर विकल्पसहित

**DR. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD**



**Syllabus
Optional Hindi for
B.A. - Ist Year
Semester I & II**

(Effective from June 2013 Onwards)

Handwritten signature and date: 12.03.2013


B.A. - I Optional - Hindi

Semester - I

- प्रश्नपत्र 1 उपन्यास साहित्य
प्रश्नपत्र 2 नाटक साहित्य

Semester - II

- प्रश्नपत्र 3 हिंदी गद्य साहित्य
प्रश्नपत्र 4 एकांकी साहित्य


डॉ. सुबुभाक शंकर
अध्यापक
हिंदी पाठ्यक्रम समिति

बी.ए. प्रथम वर्ष
ऐच्छिक हिंदी : प्रथम सत्र
प्रश्नपत्र I: उपन्यास साहित्य

> उद्देश्य :

1. सामान्य आस्वादन और अभिरूचि का परिसंस्कार
2. जीवन मूल्यों के प्रति आस्था
3. उपन्यास साहित्य का अध्ययन
4. लेखन तथा भाषण कौशल का विकास

> अध्ययन-अध्यापन पद्धति :

1. व्याख्यान
2. दृक-श्रव्य साधनों का प्रयोग
3. कार्यशाला
4. परियोजना

> पाठ्यपुस्तकें :

1. अमिता : यशपाल : लोकभारती प्रकाशन, इलाहाबाद
2. आपका बंटी : मजू भंडारी : राधाकृष्ण प्रकाशन, दिल्ली

> पाठ्यग्रंथ :

1. हिंदी उपन्यास : स्वरूप एवं विकास
2. 'अमिता' उपन्यास का संवेदनागत अध्ययन
3. 'अमिता' उपन्यास का शिल्पगत अध्ययन
4. 'आपका बंटी' उपन्यास का संवेदनागत अध्ययन
5. 'आपका बंटी' उपन्यास का शिल्पगत अध्ययन

> संदर्भ ग्रंथ :

1. यशपाल के उपन्यास : समस्यामूलक अध्ययन : डॉ. सीलम व्यंकटेश राव : सीलम प्रकाशन, नामपल्ली हैदराबाद - 01
2. यशपाल का उपन्यास साहित्य : डॉ. सरोज बजाज, ब्रह्मचरण जैन

3. इतिहास और चरित्र का सुंदर समन्वय : अमिता : डॉ. बी.आर. धापसे, अभय प्रकाश, कानपुर 208021
4. मञ्च भंडारी की कथा यात्रा : संपादक - डॉ. किशोरसिंह तथा डॉ. मोरा सक्सेना : ज्ञान प्रकाशन, कानपुर
5. मञ्च भंडारी का रचना संसार : डॉ. मीना ईप्पन, जवाहर पुस्तकालय, सदर बाजार मथुरा, उत्तरप्रदेश
6. हिंदी के समकालीन उपन्यासों में राजनीतिक चेतना : डॉ. सुकुमार भंडारे, विकास प्रकाशन, कानपुर
7. हिंदी के चर्चित उपन्यासकार : डॉ. भगवतीचरण मिश्र, राजपाल अँड सन्स, कश्मीरी गेट, दिल्ली - 06

बी.ए. प्रथम वर्ष
ऐच्छिक हिंदी : प्रथम सत्र
प्रश्नपत्र 2 : नाटक साहित्य

- उद्देश्य :
1. हिंदी नाटक तथा रंगमंच का अध्ययन
 2. संवेदना का विकास
 3. नाट्यास्वादन तथा नाट्यालोचन क्षमता का विकास
- अध्ययन-अध्यापन पद्धति :
1. व्याख्यान
 2. दृक-श्रव्य साधनों का प्रयोग
 3. नाट्य पठन और प्रस्तुति
 4. नाट्यालोचन का अभ्यास
- पाठ्यपुस्तकें :
1. विजय पर्व : डॉ. रामकुमार वर्मा, लोकभारती प्रकाशन, इलाहाबाद
 2. होरी : प्रेमचंद : नाट्य रूपांतर : विष्णु प्रभाकर, राजपाल प्रकाशन, कश्मीरी गेट दिल्ली
 3. अलख आजादी की : सुशीलकुमार सिंह, वाणी प्रकाशन, नई दिल्ली

> पाठ्यग्रंथ :

1. 'विजय पर्व' नाटक का संवेदनागत अध्ययन
2. 'विजय पर्व' का शिल्पगत अध्ययन
3. 'होरी' नाटक का संवेदनागत अध्ययन
4. 'होरी' नाटक का शिल्प तथा रूपान्तरण पक्ष का अध्ययन
5. 'अलख आजादी' नाटक का संवेदनागत अध्ययन
6. 'अलख आजादी' नाटक का शिल्पगत अध्ययन

> संदर्भ ग्रंथ :

1. समकालीन संवेदना और हिंदी नाटक : शेखर वर्मा, विकास प्रकाशन, कानपुर
2. बीसवीं सदी का हिंदी नाटक और रंगमंच : डॉ. गिरीश रस्तोगी, ज्ञानपीठ प्रकाशन, नई दिल्ली
3. समकालीन रंगमंच नाटककार : लक्ष्मण लखौन, विकास प्रकाशन, कानपुर
4. हिंदी नाटक : आज तक : डॉ. चौणा गौतम, शब्द सेतु प्रकाशन, नई दिल्ली
5. प्रसादोत्तर हिंदी नाटक : डॉ. नयनीत चौहान, आस्थाना प्रकाशन, भोपाल
6. नाटककार रामकुमार वर्मा : डॉ. कमल सुर्यवंशी, वाणी प्रकाशन, नई दिल्ली

बी.ए. प्रथम वर्ष

ऐच्छिक हिंदी : द्वितीय सत्र

प्रश्नपत्र 3 : हिंदी गद्य साहित्य

> उद्देश्य :

1. कहानी तथा व्यंग्य का अध्ययन
2. संवेदना का विकास
3. साहित्य आस्वादन तथा मूल्यांकन क्षमता का विकास

> अध्ययन-अध्यापन पद्धति :

1. व्याख्यान
2. दृक-श्रव्य साधनों का प्रयोग
3. स्वाध्याय/परियोजना

> पाठ्यपुस्तकें :

1. कथा यात्रा : संपादक/समन्वयक : डॉ. माधव सोनटक्के, हिंदी पाठ्य समिति, वाणी प्रकाशन, नई दिल्ली
2. काग भगोडा : हरिशंकर परसाई, वाणी प्रकाशन, नई दिल्ली
(पाठ्यक्रम में समाविष्ट व्यंग्य : इंटरव्यू, मोफतलाल का होना डिप्टी कलक्टर, एक तुल आदमी, अनशकारी, एक दीक्षांत भाषण, रामसिंह की ट्रेनिंग, चमचे की दिल्ली यात्रा, विज्ञापन में विकती नारी, सदाचार का ताबिज)

> पाठ्यांश :

1. कहानी : स्वरूप एवं विकास
2. 'कथा यात्रा' की कहानियों का संवेदना तथा शिल्पगत अध्ययन
3. व्यंग्य : स्वरूप एवं विकास
4. 'काग भगोडा' के व्यंग्यों का कथ्य और शिल्पगत अध्ययन

> संदर्भ ग्रंथ :

1. हरिशंकर परसाई : व्यक्तित्व और कृतित्व : मनोहर देवलिया, साहित्य वाणी प्रकाशन, इलाहाबाद
2. हरिशंकर परसाई के व्यंग्यों में वर्ग चेतना : डॉ. आभा भट्ट, जयभारती प्रकाशन, इलाहाबाद
3. हिंदी कहानी के सौ वर्ष : डॉ. एन.एम. सण्णी/ डॉ. अन्ना सालन, जवाहर पुस्तकालय, मथुरा
4. महिला रचनाकारों की कहानियों में जीवनमूल्य : भारती शेलके, विकास प्रकाशन, कानपुर

बी.ए. प्रथम वर्ष
ऐच्छिक हिंदी : द्वितीय सत्र
प्रश्नपत्र 4 : एकांकी साहित्य

> उद्देश्य :

1. हिंदी नाटकों के नये भेदों का अध्ययन
2. संवेदना का विकास
3. नाट्यास्वादन तथा नाट्यालोचन क्षमता का विकास

> अध्ययन-अध्यापन पद्धति :

1. व्याख्यान
2. दृक-श्रव्य साधनों का प्रयोग
3. एकांकी पठन तथा मंचन
4. नाट्यालोचन का अभ्यास

> पाठ्यपुस्तकें :

1. एकांकी नये पुराने : संपादक - श्रीमती मार्यासिंह, जयभारती प्रकाशन, इलाहाबाद (मीना कहीं है तथा रास्ता बंद है छोड़कर शेष एकांकी)
2. प्रतिनिधि महिला एकांकी : संपादक - डॉ. माधव सोनटक्के, लोकभारती प्रकाशन, इलाहाबाद (मादा मिट्टी को छोड़कर शेष एकांकी)

> पाठ्यांश :

1. एकांकी : स्वरूप एवं भेद
2. हिंदी एकांकी : विकास
3. एकांकी नये पुराने के एकांकी का कथ्य एवं शिल्पगत अध्ययन
4. प्रतिनिधि महिला एकांकी के एकांकी का कथ्य एवं शिल्पगत अध्ययन

> संदर्भ ग्रंथ :

1. एकांकी और एकांकीकार : रामचरण महेंद्र, वाणी प्रकाशन, नई दिल्ली
2. रेडिओ नाटक की कला : सिद्धनाथ कुमार, राधाकृष्ण प्रकाशन, नई दिल्ली
3. साहित्य मनोविज्ञान और हिंदी एकांकी : गुरुदयाल बजाज राधाकृष्ण प्रकाशन, नई दिल्ली
4. हिंदी एकांकी का रंगमंचीय अनुशीलन : भुवनेश्वर महतो, अन्नपूर्णा प्रकाशन, कानपुर
5. हिंदी एकांकियों में सामाजिक जीवन की अभिव्यक्ति : म.के. गाडगील, पुस्तक संस्थान, कानपुर
6. हिंदी नाट्य साहित्य में महिला रचनाकारों का योगदान : डॉ. दीपा कुचेकर, विकास प्रकाशन, कानपुर

अंक विभाजन तथा प्रश्नपत्र का प्रारूप

प्रथम सत्र

प्रश्नपत्र 1 : उपन्यास साहित्य

समय 1 घण्टे	कुल अंक : 50
	अंक
1) उपन्यासों पर विकल्प सहित ससंदर्भ व्याख्या	10
2) 'अमिता' पर विकल्पसहित दीर्घोत्तरी प्रश्न	15
3) 'आपका बंटी' पर विकल्पसहित दीर्घोत्तरी प्रश्न	15
4) टिप्पणी	10
अ) 'अमिता' पर विकल्पसहित	
आ) 'आपका बंटी' पर विकल्पसहित	

अंक विभाजन तथा प्रश्नपत्र का प्रारूप

प्रथम सत्र

प्रश्नपत्र 2 : नाटक साहित्य

समय 1 घण्टे	कुल अंक : 50
	अंक
1) नाटकों पर विकल्प सहित ससंदर्भ व्याख्या	10
2) 'विजय पर्व' पर विकल्पसहित दीर्घोत्तरी प्रश्न	15
3) 'होरी/अलख आजादी की' पर विकल्पसहित दीर्घोत्तरी प्रश्न	15
4) टिप्पणी	10
अ) 'होरी' पर विकल्पसहित	
आ) 'अलख आजादी की' पर विकल्पसहित	

अंक विभाजन तथा प्रश्नपत्र का प्रारूप
द्वितीय सत्र

प्रश्नपत्र 3 : हिंदी गद्य साहित्य

समय 1 घण्टे	कुल अंक : 50
	अंक
1) कथा यात्रा/काग भगोडा से विकल्पसहित ससंदर्भ व्याख्या	10
2) कथा यात्रा पर विकल्पसहित दीर्घोत्तरी प्रश्न	15
3) 'काग भगोडा' पर विकल्पसहित दीर्घोत्तरी प्रश्न	15
4) टिप्पणी	10
अ) कथा यात्रा पर विकल्पसहित	
आ) काग भगोडा पर विकल्पसहित	

अंक विभाजन तथा प्रश्नपत्र का प्रारूप
द्वितीय सत्र

प्रश्नपत्र 4 : एकांकी साहित्य

समय 1 घण्टे	कुल अंक : 50
	अंक
1) एकांकी नये पुराने/प्रतिनिधि महिला एकांकी से विकल्पसहित ससंदर्भ व्याख्या	10
2) एकांकी नये पुराने पर विकल्पसहित दीर्घोत्तरी प्रश्न	15
3) प्रतिनिधि महिला एकांकी पर विकल्पसहित दीर्घोत्तरी प्रश्न	15
4) टिप्पणी	10
अ) एकांकी नये-पुराने पर विकल्पसहित	
आ) प्रतिनिधि महिला एकांकी पर विकल्पसहित	

S-25 March, 2013 AC after Circulars from Circular No.153 & onwards
- 19 -
DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/NP/Arts/B.A.-1st Yr./SEM.-I & II/158/2013

It is hereby notified for information of all concerned that, the syllabus prepared by the Boards of Studies, Ad-hoc Boards & Committee and recommended by the Faculty of Arts, the **Academic Council at its meeting held on 25-03-2013** has accepted the following revised syllabi for **B.A., B.Sc., B.Com., B.F.A. & B.S.W. for First Year as Optional, Second Language under the Faculty of Arts progressively :-**

Sr. No.	Revised Syllabus
[1]	B.A. [Marathi] Semester- I & II,
[2]	B.A. [Hindi] Semester- I & II,
[3]	B.A. [English] Semester- I & II, [Compulsory, Optional & Second Language]
[4]	B.A. [Urdu and Arabic] Semester- I & II,
[5]	B.A. [Islamic Studies] Semester- I & II,
[6]	B.A. [Sanskrit] Semester- I & II,
[7]	B.A. [Pali & Buddhism] Semester- I & II.

This is effective from the **Academic Year 2013-2014** and onwards.

These syllabi are available on the University Website **www.bamu.net**

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/NP/ARTS/1ST YEAR/
Sem-I & II/2013/5548-4968
A.C.M.A.I.No.16.

Date:- 08-05-2013.

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Director,
Board of College and
University Development.

8-25 March, 2013 AC after Circulars from Circular No.153 & onwards

- 20 -

:: [2] ::

Copy forwarded with compliments to :-

- 1] **The Principals, affiliated concerned Colleges,
Dr. Babasaheb Ambedkar Marathwada University.**
- 2] **The Director, University Network & Information Centre, UNIC, with
a request to upload the above all syllabi on University Website
[www.bamu.net].**

Copy to :-

- 1] The Controller of Examinations,
- 2] The Superintendent, [B.A. Unit],
- 3] The Superintendent, [B.Sc. Unit],
- 4] The Superintendent, [B.Com. Unit],
- 5] The Superintendent, [Eligibility Unit],
- 6] The Programmer [Computer Unit-1] Examinations,
- 7] The Programmer [Computer Unit-2] Examinations,
- 8] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 9] The Public Relation Officer,
- 10] The Record Keeper,
Dr. Babasaheb Ambedkar Marathwada University.

S*/080513/

**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Revised Syllabus of

B.A. 1ST YEAR

ECONOMICS

SEMESTER-I & II

Dr. K. Khantee v.B.
18.2.13

Dr. R. B. ...
Chairman of B.A.S.

Dr. A. B. ...
B.O.S.

[Effective from 2013-14 & onwards]

F.Y.B.A. Economics
(Revised Syllabus)
Semester – I

Total Marks: 50

MICRO ECONOMICS (COMPULSORY) Paper – ECO-101

OBJECTIVES:

As a foundation of economics in this paper student is expected to understand the meaning and scope of micro economics, the behavior of an economic agent, namely, a consumer, a producer, a factor owner and the price fluctuation in a market. The approach of this paper is to study the behavior of a unit and analysis is generally static and in partial equilibrium framework. The units incorporated in this paper deals with nature and scope of economics, the theory of consumer behavior and analysis of market equilibrium.

Unit- I: Introduction

- 1.1 Meaning, nature, scope, significance and limitations of micro economics.
- 1.2 Difference between Micro Economics and Macro Economics.
- 1.3 Welfare Economics: Definition and nature of welfare Economics, The concept of new welfare Economics, Pigovian Welfare Economics, Social Welfare Function.

Unit - II: Theory of Demand and Supply:

- 2.1 Concept of Demand, Law of Demand.
- 2.2 Demand Function – Linear and non-Linear demand function.
- 2.3 Concept of Supply, Law of Supply and Supply Function.
- 2.4 Elasticity of Demand – Price, Income and Cross and its measurement.
- 2.5 Elasticity of Supply.

Unit III: Consumers Behaviour and Demand:

- 3.1 Meaning of Utility.
- 3.2 Marishallian Approach: Theory of Diminishing Marginal Utility, Equi-marginal utility, Consumer's Surplus.
- 3.3 Hick's Approach: Indifference curve – properties of Indifference Curve.
- 3.4 Consumer's Equilibrium with the help of Indifference Curve, Price effect, Income effect and substitution effect
- 3.5 Samuelson Approach: Revealed Preference Theory.

Unit IV: Analysis of Market Equilibrium:

- 4.1 Meaning and Importance of Equilibrium.
- 4.2 Kinds of Equilibrium – Stable, Unstable and Neutral Equilibrium.
- 4.3 Static and Dynamic Equilibrium, Partial and General Equilibrium.

BASIC READING LIST:

1. Bach, G.L. (1977) : Economics, Prentice Hall of India, New Delhi.
2. Gauld, J.P. and Edward P. L. : (1996), Microeconomic Theory, Richard. Irwin, Homewood.
3. Henderson J. and R.E. Quandt (1980): Microeconomic Theory : A Mathematical Approach, McGraw Hill, New Delhi.
4. Heathfield and Wibe (1987): An Introduction to Cost and Production Functions, Macmillan, London.
5. Koutsoyiannis, A. (1990): Modern Microeconomics, Macmillan.
6. Lipsey, R.G. and K.A. Chrystal (1999): Principles of Economics (9th Edition), Oxford University Press, Oxford.
7. Mansfield, E. (1997) : Microeconomics (9th Edition), W.W. Norton and Company, New York.
8. Ray, N.C. (1975): An Introduction to Microeconomics, Macmillan Company of India Ltd., Delhi.
9. Ryan, W.J.L. (1962),: Price Theory, Macmillan and CO. Limited, London.
10. Samuelson, P.A. and W.D. Nordhaus (1998), Economics, Tata McGraw Hill, New Delhi.
11. Stonier, A.W. and D.C. Hague (1972): A Textbook of Economic Theory, ELBS & Longman Group, London.

F.Y.B.A. Economics
(Revised Syllabus)
Semester – I

Total Marks:-50

INDIAN ECONOMY (COMPULSORY) - Paper-ECO-102

OBJECTIVES:

The objective of the paper at the F.Y.B.A. level would be to sharpen the analytical faculty of the students, by highlighting an integrated approach to be functioning aspects of the Indian economy, keeping in view the scope for alternative approaches. Such an analysis is essential because the Indian economy is a unique amalgam of alternative competing and often conflicting theories and a proper understanding of its working of its working is imperative if the student is to comprehend the ramifications that underlie most of the observed phenomena in the Indian economic set-up. The emphasis of the paper is on overall social, political and economic environment influencing policy decisions. To develop all these themes, the courses are divided into specific modules.

1. STRUCTURE OF THE INDIAN ECONOMY

- 1.1 Characteristics of the Indian Economy as a less developed economy.
- 1.2 Features: Natural Resources- Land, Water and Forest Resources and Minerals, Need for sustainable development.
- 1.3 Population: - Broad features, size and growth rates sex composition, Birth rate – death rate, Density, Literacy, Sex composition, Age composition, Occupational distribution, Rural Urban Population- Life expectancy, Rural Urban Migration occupational distribution- Problems of over population, population policy.

2. HUMAN RESOURCE DEVELOPMENT

- 2.1 Human Development Index (HDI): Concept and Meaning, Indicators, Importance
- 2.2 Gender Related Development Index (GDI):
- 2.3 Human Poverty Index (HPI)
- 2.4 HDI - Inter country and inter- state comparison

BASIC READING LIST

1. Datt, R and Sundharan, K. P. M. (2001), *Indian Economy*, S. Chand & Co. Ltd, New Delhi.
2. Dhingra, I.C. (2001) *The Indian Economy - Environment & Policy*, Sultan Chand & Sons, New Delhi.
3. Misra, S. K. & Pari, V. K. (2001), *Indian Economy - its development experience*, Himalaya Publishing House, Mumbai.

ADDITIONAL READING LIST

1. Government of India, *Economic Survey (Annual)*, Economic Division, Ministry of Finance New Delhi.
2. Planning Commission (1999) *Ninth Five-Year Plan*, Government of India, New Delhi.
3. Ahluwalia, I.J. and Little, M.D. (Eds.) (1999), *India's Economic Reforms and Development (Essays in honor of Manmohan Singh)*, Oxford University Press, New Delhi.
4. Jalan, B. (1992), *The Indian Economy : Problems and Prospects*, Viking, New Delhi.
5. Parikh K.S. (1999), *India Development Report- 1999-2000*, Oxford University Press, New Delhi.
6. Datt, R. (Ed.) (2001), *Second Generation Economic Reforms in India*, Deep & Deep Publications, New Delhi.

3. POVERTY & UNEMPLOYMENT

- 3.1 Concept of Poverty- Measurement of Poverty – Causes of Poverty- Measures to removal of Poverty.
- 3.2 Nature & Types of Unemployment.

4. PLANNING IN INDIA

- 4.1 Background of Indian planning-National Planning Committee, Bombay Plan, Peoples Plan, Gandhian Plan, The Planning Commission.
- 4.2 Objectives & Strategy of Indian Planning.
- 4.3 Achievements & Failures of Five-Year Plan.
- 4.4 Current Five Year Plan - Objectives, Allocations & Targets.
- 4.5 New Economic Reforms.

F.Y.B.A. Economics
(Revised Syllabus)
Semester – II

Price Theory (COMPULSORY) Paper-ECO-103

Total Marks: 50

OBJECTIVE:

The purpose of this paper on price theory at the B. A. level is to enable students to have an understanding of the various components regarding price determination under various types of markets. Units incorporated in this paper would enable the students to know about the theory of production, Cost and revenue analysis, forms of market and factor pricing theories.

Unit I: Theory of Production:

- 1.1 Meaning of production. Concept of Production Function,
- 1.2 The law of Variable Proportions,
- 1.3 Law of returns & returns to Scale. Internal and External Economies & Diseconomies.
- 1.4 Isoquant Curve, Properties of Isoquant curves.
- 1.5 Isocost Line, Production Possibility Curve.

Unit II: Analysis of Costs and Revenue:

- 2.1 Concepts of Costs- Fixed and variable Costs, Opportunity cost, Average and Marginal Cost.
- 2.2 Short run and Long run cost curves.
- 2.3 Modern Approach related to Short run and Long run cost curves.
- 2.4 Relation between Marginal Cost, Average Cost and Total Cost.
- 2.5 Revenue concepts: Total Revenue, Average & Marginal Revenue.
- 2.6 Equilibrium of the Firm – Short run and Long run.

Unit III: Market

- 3.1 Meaning & classification
- 3.2 Perfect Competition: concept - Characteristics, price determination in short and long run, Equilibrium of the firm and industry.
- 3.3 Monopoly- Concept, Characteristics and short and long run Equilibrium, price determination, Price discrimination.
- 3.4 Monopolistic Competition: concept, Characteristics and short & long run Equilibrium of Firm, Group Equilibrium, Selling cost.

3.5 Oligopoly - Concept, Characteristics

3.6 Duopoly - Concept & Characteristics

Unit IV: Factor Pricing

4.1 Marginal Productivity theory of Distribution

4.2 Rent - Concept - Ricardian Theory of Rent, Modern Theory of Rent, Quasi Rent.

4.3 Wages - Concept, Types - Modern theory of wages, wage differentials and Collective Bargaining.

4.4 Interest - Concept, Loanable funds theory and Keynes's Liquidity preference theory.

4.5 Profit - Concept, Risk and uncertainty theory and Innovation theory.

Unit V: Pricing Methods:

5.1 Pricing Methods: Marginal Cost Pricing - Full Cost Pricing - Multi product pricing - Limit Pricing.

5.2 Bain's Model.

BASIC READING LIST:

1. Bach, G.L. (1977) : Economics, Prentice Hall of India, New Delhi.
2. Gauld, J.P. and Edward P. L. : (1996), Microeconomic Theory, Richard. Irwin, Homewood.
3. Henderson J. and R.E. Quandt (1980): Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
4. Heathfield and Wibe (1987): An Introduction to Cost and Production Functions, Macmillan, London.
5. Koutsoyiannis, A. (1990): Modern Microeconomics, Macmillan.
6. Lipsey, R.G. and K.A. Chrystal (1999): Principles of Economics (9th Edition), Oxford University Press, Oxford.
7. Mansfield, E. (1997): Microeconomics (9th Edition), W.W. Norton and Company, New York.
8. Ray, N.C. (1975): An Introduction to Microeconomics, Macmillan Company of India Ltd., Delhi.
9. Ryan, W.J.L. (1962): Price Theory, Macmillan and CO. Limited, London.
10. Samuelson, P.A. and W.D. Nordhaus (1998), Delhi. Economics, Tata McGraw Hill, New
11. Stonier, A.W. and D.C. Hague (1972): A Textbook of Economic Theory, ELBS & Longman Group, London.

**F.Y.B.A. Economics
(Revised Syllabus)
Semester – II**

Total Marks: 50

MONEY BANKING AND FINANCE (COMPULSORY) Paper- ECO-104

OBJECTIVE:

Money and banking constitutes important components of modern economy. A clear understanding of the operations of money and banking and their interaction with the rest of the economy is essential to realize how monetary forces operate. The paper on money and banking is essential for students to understand the monetary and banking system in India.

Unit – I: Meaning & Function of Money:

- 1.1 Meaning, Definition and Functions.
- 1.2 Types of Money.
- 1.3 Paper currency and kinds of Paper currency.
- 1.4 Methods of Note Issue – Principles of note issue and Paper Currency Standards.
- 1.5 Gresham's Law.

Unit – II: Banking in India:

- 2.1 Meaning and Definitions of Bank.
- 2.2 Banking Structure in India.
- 2.3 Commercial Banking – Functions, Credit Creation – process, purpose and limitations, Principles of Commercial Banks - Liquidity, Profitability and Safety.
- 2.4 Functions of Foreign Banks, Regional Rural Banks, District Central Cooperative Banks, Primary Agricultural Cooperative Credit Societies, State Cooperative Banks and NABARD.
- 2.5 New Concepts in Banking – Core banking, ATM, Credit Card, E-banking and Internet banking.

Unit – III: Reserve Bank of India:

- 3.1 Meaning and Functions of Reserve Bank of India.
- 3.2 Money measures – M1, M2, M3, & M4.

- 3.3 Organization and Management of R.B.I.
- 3.4 Monetary Policy – Meaning, Objectives
- 3.5 Methods of Credit Control – Qualitative and Quantitative.

Unit – IV: Money Market Capital Market in India:

- 4.1 Meaning, Structure and Functions.
- 4.2 Components of Money Market, Role of the Money Market,-Money Market Reforms in India.
- 4.3 Capital Market – Meaning, Nature and functions of Indian Capital Market.
- 4.4 Stock Market – Meaning and functions of stock Market.
- 4.5 Functions of Securities Exchanges Board of India (SEBI).

S-[F] HPW 02 June-2013-14 All Syllabus SOCIAL SCIENCES B.A. Economics F.Y. Sem.I & II - 12 -

READING LIST:

1. Harris C.L., (1961): Money and Banking, Allyn and Bacon, London.
2. Ackley, G. (1976): Macroeconomics: Theory and Policy, Macmillan Publishing Company, New York.
3. Gupta, S.B. (1994): Monetary Economics, S. Chand & Company, New Delhi.
4. Shapiro, E. (1996): Macroeconomics Analysis, Galgotia Publications, New Delhi.
5. Day, A.C.L. (1960): Outline of Monetary Economics, Oxford University Press, Oxford.
6. De Kock, M.H. (1960): Central Banking, Staples Press, London.
7. Halm, G.N. (1955): Monetary Theory, Asia Publishing House, New Delhi.
8. Harris, C.L. (1961): Money and Banking, Allyn and Bacon, London.
9. Mishra, S.S. (1981): Money, Inflation and Economic growth, Oxford & IBH Publishing Company, New Delhi.
10. Reserve Bank of India (1983): The Reserve Bank of India: Functions and Working, Bombay.
11. Reserve Bank of India: Report on Trend and Progress of Banking in India, (Various years), Mumbai.
12. Reserve Bank of India: Report on Currency and Finance (Annual), Mumbai.
13. Sayers R.S., (1978): Modern Banking, (7th Edition), Oxford University Press, Delhi.
14. Batra G.S. and Dangwal R.C., (1999) :Banking and Development Finance, Deep and Deep Publications, Delhi.
15. Bhagwat L.K., (1982): Urban Banks, Rajguru Press, Pune.
16. Born N.,(1937): Cooperative Banking, PISI King and Sons, Orchard House, West Minister.
17. Laud G.M., (1956): Cooperative Banking in India, Cooperative Book Depot., Bombay.
18. Desai and Mutalik V.R., (1979), Banking Development in India, Manaktalas, Bombay.

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Dr. Khemraj V.S.

Dr. D.B. More
805

Chairman P.B.S.

S-25 March, 2013 AC after Circulars from Circular No.153 & onwards - 21 -
DR. BARASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/NP/Social Sciences/Syllabus/159/2013

It is hereby notified for information of all concerned that, on the recommendations of the Boards of Studies, Ad-hoc Boards, and Faculty of Social Sciences, the **Academic Council at its meeting held on 25-03-2013** has accepted the following revised syllabi for **B.A. First & Second Year and with minor changes in the syllabus of B.A. Third Year Home Science under the Faculty of Social Sciences :-**

Sr. No.	Revised Syllabus
[1]	B.A. [Public Administration] Semester- I & II,
[2]	B.A. [Political Science] Semester- I & II,
[3]	B.A. [History] Semester- I & II,
[4]	B.A. [Economics] Semester- I & II,
[5]	B.A. [Sociology] Semester- I & II,
[6]	B.A. [Philosophy] Semester- I & II,
[7]	B.A. [Home Science] Semester- I to IV,
[8]	B.A. [Psychology] Semester-III & IV, Second Year.
[9]	B.A. [Home Science] Semester- V & VI, Third Year Minor Changes,

This is effective from the **Academic Year 2013-2014** and onwards.

These syllabi are available on the University Website **www.bamu.net**

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
 Aurangabad-431 004.
 REF.NO.ACAD/NP/SOCIAL SCI./
 SYLLABUS /Semester/2013/
 5979-6382
A.C.M.A.I.No.21.

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(Signature)
 Director,
 Board of College and
 University Development.

Date:- 08-05-2013.

S-25 March, 2013 AC after Circulars from Circular No.153 & onwards

- 22 -

:: [2] ::

Copy forwarded with compliments to :-

- 1] **The Principals, affillated concerned Colleges,
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- 2] **The Director, University Network & Information Centre, UNIC, with
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- 1] The Controller of Examinations,
- 2] The Superintendent, [B.A. Unit],
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- 6] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
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**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Revised Syllabus of

B.A. 1ST YEAR

HISTORY

SEMESTER-I & II

[Effective from 2013-14 & onwards]

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.

Revised Syllabus of
B. A. (History)

Semester I & II

(Effective from 2013 – 2014 & onwards)

Dool

Chairman
Board of Studies in History
Dr. Babasheh Ambedkar Marathwada
University, Aurangabad

Dr. babasaheb Ambedkar Marathwada University,
Aurangabad.

SYLLABUS OF B. A. 1st YEAR (HISTORY)
SEMESTER SYSTEM

- All paper are compulsory
- 50 marks for each paper.
- Semester end examination will be of 90 minutes for each paper.

Paper No.	Title of the paper	Credit Allotted	Periods
	SEMESTER -Ist		
1	Shivaji And His Times A.D.1630 - A.D.1707	04	60
2	History of Modern Mahashtra A.D.1818-A.D.1905	04	60
	SEMESTER IIInd		
3	History of the Marathas A.D.1707 A.D.1818	04	60
4	Twentieth Century Mahashtra A.D.1905-A.D.1960	04	60

Note:-

- One period of 50 minutes.
- 15 periods = 01 credit.
- 04 credit = 60 periods.
- Each paper is comprised of 04 credits.



Chairman
Board of Studies in History
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad

नवीन अभ्यासक्रमाच्या Suggested Reading मध्ये समाविष्ट करण्यासाठी संदर्भ देव यादी.

Paper No. 1. Shivaji And His Times

Paper No. 3. History of the Marathas

परील दोन्ही पेपरसाठी पुढील संदर्भ ग्रंथांची नावे यादीत समाविष्ट करावीत.

१. संपा. डॉ. अ. रा. कुलकर्णी, मराठ्यांचा इतिहास-सामन परिचय
डायमंड पब्लिकेशन्स, पुणे, जून २००८.
२. ले. सर जदुनाथ सरकार, औरंगजेब,
अनुवादक - डॉ. श. गो. कोलारकर
डायमंड पब्लिकेशन्स, पुणे, २००६.
३. संपा. डॉ. सी. अ. गो. कुलकर्णी, शिवचरित्र साहित्य - खंड १५.
डायमंड पब्लिकेशन्स, पुणे, २०१२.
४. डॉ. एस. एन. सेन, मराठ्यांची लष्करी व्यवस्था.
अनुवादक - डॉ. सदाशिव शिवदे, डायमंड पब्लिकेशन्स, पुणे, २०११.
५. अ. रा. कुलकर्णी, मराठे आणि महाराष्ट्र.
डायमंड पब्लिकेशन्स, पुणे, जानेवारी, २००७.
६. डॉ. अ. रा. कुलकर्णी, महाराष्ट्र समाज आणि संस्कृती (मध्ययुगीन आणि आधुनिक)
डायमंड पब्लिकेशन्स, पुणे, मे २००८.
७. डॉ. अ. रा. कुलकर्णी, मध्ययुगीन महाराष्ट्र.
डायमंड पब्लिकेशन्स, पुणे.
८. Dr. A. R. Kulkarni Maharashtra in the Age of Shivaji.
Diamond Publications, Pune, Jan. 2008-
९. Dr. A. R. Kulkarni, Medieval Maharashtra,

Diamond Publication, Pune, Nove. 2008

10. Dr. A. R. Kulkarni, Studies in Maratha history,

Diamond Publications, Pune,

11. Dr. A. R. Kulkarni Medieval Maratha Country,

Diamond Publications, Pune, 2008.

12. Dr. A. R. Kulkarni, The Marathas,

Diamond Publications, Pune, Nove. 2006.

Paper No. 2. History of Modern Maharashtra

Paper No. 3. Twentieth Century Maharashtra

वरील दोन्ही पेपरसाठी पुढील संदर्भ ग्रंथांची नावे Suggested Reading मध्ये समाविष्ट करावीत.

१. डॉ. राजा दीक्षित एकोणिसाव्या शतकातील महाराष्ट्र मध्यम वर्गाचा उदय
झायमंड पब्लिकेशन्स, पुणे, डिसें. २००९.

२. प्रा. गणेश राऊत, प्रा. ज्योती राऊत, महाराष्ट्रातील परिवर्तनाचा इतिहास.

इ. स. १८१८ ते १९६०, झायमंड पब्लिकेशन्स, पुणे, डिसें. २००९.

B. A. Ist Year - History

SYLLABUS

SEMESTER Ist

PAPER NO. 01 :- SHIVAJI AND HIS TIMES

(A.D. 1630-A.D.1707)

	Periods
1. Rise of Maratha Power - Causes, Geography, Political, Socio-religious and economic background, Shahaji Bhosle.	10
2. Early expeditions of Shivaji : Concept of Hindavi Swaraj, Capture of Torana, Afjalkhan Episod, Siddi Johar's invasion Of Panhala Fort.	12
3. Shivaji - Mughal relations: Attack on Shahistakhan, Invasion of Mirja Raja Jaisinh and the Treaty of Purunder, Shiviji's visit to Agra and back to Raigadh.	12
4. Coronation of Shivaji and his Karnataka Expeditions	08
5. Chatrapati Sambhaji.	05
6. Maratha War of Independence.	05
7. Civil, Judicial and Military Administration during this period	08

Total Periods	60

Note:-

60 periods =04 Cridits.

Suggested Reading:

1	Setu Madhavrao Pagadi	18 th Century Deccan
2	Grant Duff	A History of the Marathas
3	V.G.Dighe	Peshwa Bajirao & Maratha Expansion
4	R.C. Mujumdar (Ed.)	The History and Culture of the Indian People- The Maratha Supremony.
5	A.C. Banerjee	Peshwa Madhavrao New History of the Marathas vl. II,III Main Currents of the Maratha History.
6	S.N. Sen	Anglo- Maratha Relations
7	C.A. Kincaid & D.B. Parasnis	History of Maratha People
8	James Grand Duff by J.P. Gupta	History of the Marathas (1978) Foregin Biographers of Shivaji The Military System of the Marathas
9	Jadunath Sarkar	Fall of the Mughal Empire. House of Shivaji, (studies and Documents of Maratha History: royal period) orient Longmant, Bombay, 197. Shivaji and His Times, sixth Edition M.C. Sarkar and sons Ltd. 1973.
10	C.K. Srinivasan	Bajirao Ist The Great Peshwa
11	Dr. Balkrishna	Shivaji the Great (vol. 4)
12		Maharashtra in the Age of Shivaji Rekha Prakashan, 2 nd Revised Ed. Pune, 2002.
13	S.R. Sharma	The Founding of Maratha Freedom, Rev.Ed. Orient Longmants, Bombay, 1978.
14	Briji Kishore	Tarabai and his Times.
15	R.G. Deshmukh	History of Maratha, Nimesh

		Agencies, Bombay 1954
16	K.N. Chitnis	Glimpse of Medeval Indian Ideas and Institutions, IInd Ed. 1981, Pune
17	B.D. Gaikwad B.N. Sardesai, D.B. Thorat, V.N. Hanmane	Marathekalin Sanstha va Vichar, Phadke Book dellers, Kolhapur, 1978.
18	R.V. Nadkarni	The Rise and Fall of Maratha Empire, Popular prakashan, 1966.
19	Pagadi Setu Madhavrao	Chatrapati Shivaji, Poona, 1974.
20	Patwardhan R.P. and Rawlinson	H.G. Source Book of Maratha History, Reprint with anew introduction by P.M. Joshi and A.R. Kulkarni, K.P. Bagchi and co. Calcutta, 1978.
21	M.G. Ranade	Rise of Maratha Power and other Essays, Uni. Of Bombay. 1961
22	G.S. Sardesai	The Main Currents of Maratha Hictory, Phoneix Publication, Bombay
23	G.S. Sardesai	Shivaji and his Time. 1600-1700 Third Impression, 1971. vol. I
24	G.S. Sardesai	The Expansion of the Maratha Power (1707- 1772) Vol. II
25	G.S. Sardesai	Sunset Over Maharashtra, 1772-1848, IInd Impression, 1968, Vol. III
26	H.N. Sinha	Rise of the Peshwas IInd Ed. The Indian Press Ltd. Allahabad.
27	V.T. Gune	The Judicial System of the Maratha, Deccan College, Dissertation, seris Pune, 1953.
28	S.N. Sen	The Military System of the Marathas, K.P. Bagchi, Culcatta, IInd Rev. Ed. 1979
29	S.N. Sen	The Administrative History of the Maratha's K.P. Bagchi, Culcatta, 1976.
30	S.V. Desai	Social life in Maharshtra Under the

	Peshwas, Popular Prakashan, Bombay, 1962.
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Select Reading List (Marathi)

1	गो. स. सरदेसाई	मराठी रियासत. शहाजी राजे भोसले शककर्ता शिवाजी मराठी रियासत. रिथरवन्दी राजाराम मराठी रियासतकृतप्रकृती संग्रहाजी
2	डॉ. वि. गो. खोबरेकर	शिवकाळ. इ.स. 1630 ते इ.स. 1707
3	दि. वि. काळे	छत्रपती शिवाजी महाराज
4	स. वि. टेरे संपा.	श्रीशिवदिग्विजय
5	म. ह. खरे, अ. स. कुलकर्णी	मराठ्यांचा इतिहास: भाग 1,2,3
6	विजय देशमुख	शककर्ते शिवराय..पूर्वार्ध व उत्तरार्ध
7	वेद्रे वा. सी.	1.छत्रपती राजाराम महाराज 2.छत्रपती राजाराम महाराज आणि नेतृत्वहीन 'हिंदवी स्वराज्या'चा मोगलाशी झगडा, मुंबई, 1 ऑग. 1975 3.शिवाजी महाराजांचे चिकित्सक चरित्र भाग 1,2, 1972
8	जयसिंगराव पवार	1.मराठी साम्राज्याचा उदय व अस्त 2.सेनापती संताजी घोरपडे 3.महाराणी तारानाई 4.छत्रपती संग्रहाजी रमारक ग्रंथ 5.छत्रपती शिवाजी महाराज व शिवमुदा 6.शिवाजी व शिवकाळ
9	सदाशिव आठवले, प्र.ल. सासावडकर	मराठी सत्तेचा विकास आणि -हास

10	डॉ. एम. ए. नाहेकर	राष्ट्रमाता जिजाऊ चिकित्सक चरित्र
11	शं. श्री. पुराणिक	मराठ्यांचे स्वातंत्र्यसंग्रहपूर्वार्ध व उत्तरार्ध
12	डॉ. कमल मोखले	शिवपुत्र संग्रहाजी 1971
13	सदाशिव आठवले	शिवाजी आणि शिवयुग
14	रविंद्र वागन रामदास	शहाजीराजे भोसले
15	सेतू माधवराव पगडी	शिवचरित्र-एक अभ्यास मराठ्यांचे स्वातंत्र्ययुद्ध संपा. मोगल आणि मराठे तारिखे दिलकुशा संपा

		हिंदी स्वराज्य आणि मोमल. मराठे व औरंगजेब यांचे आत्मगिरी. मोमल व मराठा संघर्ष फारसी साधने संपा.
16	प्र. न. देशपांडे	मराठ्यांचा उदय व उत्कर्ष
17	प्रभाकर देव	मराठ्यांचा इतिहास
18	सर्वत / जाधव	मराठ्यांचा प्रशासकीय, सामाजिक व आर्थिक इतिहास
19	चि. वि. वैदा	मराठा स्वराज्य संस्थापक श्री. शिवाजी महाराज इ. स. 1932 न्या. महादेव गोविंद रानडे अनु.
20	न. र. फाटक	मराठ्यांच्या सत्तेचा उत्कर्ष
21	डॉ. एम. ए. नाहरेकर	हुतात्मा छत्रपती संभाजी राजे काल आणि कर्तृत्व
22	त्रय. शं. शेजवलकर	पनिपत 1761
23	व. क. भावे	युगप्रवर्तक शिवाजी महाराज, 1995
24	बाळशास्त्री हरिदास	1. मुण्यश्लोक शिवाजी खंड 1 ते 4 2. शिवछत्रपती संकलित शिवचरित्राची प्रस्तावना, आराखडा व साधने, निजाम-पेशवे संबंध
25	वि. का. राजवाडे संपा	मराठ्यांच्या इतिहासाची साधने खंड 1 ते 26
26	भारत इतिहास संशोधक मंडळ पुणे	शिवचरित्र साहित्य भाग 1 ते 16
27	दगळे-बारगळ	मराठ्यांचा इतिहास
28	ना. के. वेहरे	पहिले बाजीराव पेशवे
29	ळरिनाम गुप्ता	मराठे आणि पानिपत
30	फाटक, पगडी	पनिपतचा संश्राम
31	अ. रा. कुलकर्णी, ग. ह. खरे संपा.	मराठ्यांचा इतिहास भाग 1, 2, 3
32	डॉ. अम्मासाहेब पवार	ताराबाईकालीन कागदपत्रे, खंड 1, कोल्हापूर, स. 1969
33	गवळी पी. ए.	पेशवेकालीन अस्पृश्यता.
34	प्रा. टी. के. बिरादार	मराठ्यांचा इतिहास शिवाजी आणि शिवकाळ
35	केळुसकर कृष्णराव अर्जुन संपा	शिवाजी महाराज यांचे चरित्र, मुंबई, स. 1920
36	जोशी रा. व्यं.	परकीयांच्या दृष्टीतून शिवाजी, पुणे, 1987
37	कुलकर्णी अ. रा.	शिवकालीन महाराष्ट्र, पुणे, 15 ऑग. 1994
38	वेद्रे वा. सी.	श्री. छत्रपती संभाजी महाराज यांचे विचिकित्सक चरित्र, मुंबई, 16 ऑग. 1971
39	गोखले कमल	शिवपुत्र संभाजी, पुणे, 1981
40	साने का. ना.	थोरले शाहू महाराज यांचे चरित्र, 1893

PAPER NO. 02:-	History of Modern Maharashtra (A.D.1818 – A.D.1905)	Periods
1.	Early Socio-religious and economic conditions Of Maharashtra.	12
2.	Early phase of British Rule: Administration, Education, Press, Activities of Christian Missionaries.	12
3.	Early Socio-religious Reformers: Balshastri Jambhekar Gopal Hari Deshmukh (Lokhidwadi), Mahatma Jyotiba Phule, M.G. Ranade, Gopal Gensh Agarkar, Pandita Ramabai.	12
4.	Early resistance to colonial rule: i) Romoshi, Bhill and Koli Uprising. ii) Outbreak of 1857 and Maharashtra. iii) Revolt of Vasudev Balwant Phadke.	12
5.	National Movement in Maharashtra: i) The Bombay Association. ii) Poona Sarvajanik Sabha. iii) Indian National Congress- Maharashtrian Leaders.	12
		----- Total Periods: 60

Note:- 60 Periods = 04 Credits.

Suggested Readings

1	Phadke Y.D.	Social Reformers of Maharashtra
2	Phadke Y.D.	Politics and Language
3	Ballhatchet K.A.	Social policy and social changes in Western India (1817- 1830)
4	Chokest R.D.	Economic Life in the Bombay Deccan (1818-1896)
5	Ravinder Kumar	Western India in the Nineteenth Century
6	Gupta Sunit	The Agrarian economy of the Bombay Deccan.
7	Zeliot Eleanor	From Untouchables to Dalit (Essays on Ambedkar Movement)
8	Wolport S.A.	Tilak and Gokhale, Revolution and Reform in making of modern India.
9	Jatav D.R.	Social philosophy of Dr. B.R. Ambedkar

Select Reading List (Marathi)

1	वेडेकर आणि भणगे	भारतीय प्रबोधन
2	मालेकर कण्हराव	समग्र वाङ्मय
3	मालेराव अनंत	हैदराबादचा स्वातंत्र्य संग्राम आणि मराठवाडा
4	गोरे एस. एस.	विठ्ठल रामजी शिंदे
5	गवळी पी. ए. व इतर	डॉ. नानासाहेब आंबेडकर गौरव ग्रंथ
6	जवळकर दिनकरराव	समग्र वाङ्मय
7	कर्णे डी. जी.	स्वतंत्र भारताचे द्रष्टे- न्यायमूर्ती रानडे
8	कीर घनंजय	महात्मा जोतिबा फुले
9	डॉ. हेर्लेकर	डॉ. आंबेडकरांचे विरोधक
10	डॉ. हेर्लेकर	भारतीय समाजप्रबोधनाची शोकांतिका
11	कीर घनंजय	आगव्या समाजक्रांतीचे जनक डॉ. नानासाहेब आंबेडकर
12	कीर घनंजय	राजर्षी शाहू छत्रपती
13	खैरगाडे	डॉ. भीमराव रामजी आंबेडकर
14	टोपे टी. के.	न्या. रानडे
15	कुवेर डब्ल्यू. एम.	डॉ. आंबेडकर विचारमंथन
16	गोळे भास्कर	आधुनिक भारतीय विचारवंत
17	फडके यशवंत दिनकर	केशवराव जेधे
18	फडके यशवंत दिनकर	शाहू छत्रपती आणि लोकमान्य
19	फडके यशवंत दिनकर	विसाव्या शतकातील महाराष्ट्र

20	फडके यशवंत दिनकर	आधुनिक महाराष्ट्राचा इतिहास भाग 1 ते 3
21	फडकुले निर्मलकुमार	प्रबोधनातील पाउलखुणा
22	प्रधान म. प्र. संपा	आगरकर लेख संग्रह
23	पाटील भाउसाव	आठवणी
24	गरुळेकर गोदावरी	जेव्हा माणूस जागा झाला
25	साळवे पी.जी.	राजर्षि शाहू गौरव ग्रंथ
26	शिंदे व्ही.आर.	भारतीय अस्पृशतेचा प्रश्न
27	पेंडसे लालजी	महाराष्ट्राचे महामंथन
28	सरदार मं. बा. संपा	आधुनिक महाराष्ट्र
29	टिळक नारायण देवदत्त	महाराष्ट्राची तैजस्विनी पंडिता रमाबाई
30	वाळिवे रा.रा.	शतकातील महाराष्ट्रातील सामाजिक पुनर्घटना भाग 1
31	फडकुले निर्मलकुमार	लोकहितवादी: आणि कर्तृत्व
32	केळकर न. वि.	लोकमान्य टिळक यांचे चरित्र
33	प्रबोधनकार ठाकरे	पंडिता रमाबाई
34	सरदार मं. बा.	अ. आगरकरांचा सामाजिक विचार ब. महात्मा फुले व्यक्तित्व आणि विचार क. महाराष्ट्राची सामाजिक प्रबोधनाची वाटचाल
35	जाधव पंजाबराव	कर्मवीर भाउसाव पाटील जीवनदर्शन
36	घोरपडे ए. के.	कर्मवीर भाउसाव पाटील
37	वीर उत्तमराव मोहिनी	जगतिक कुपक क्रांतीचा विधाता लोकनेता: डॉ. पंजाबराव देशमुख
38	गोसले एस. एस.संपा.	राजर्षि शाहू : काळ, विचार आणि कार्य
39	पवार गो. मा.	महर्षि विठ्ठल रामजी शिंदे-जीवन, कार्य, लोकवाद, मय ग्रह, मुंबई, 2004.
40	पवार जयसिंगराव	राजर्षि शाहू गौरव ग्रंथ
41	अळतेकर मा. दा.संपा.	आगरकर निबंध संग्रह भाग 1,2
42	भगत रा. तु.	महात्मा फुले ते कर्मवीर भाउसाव पाटील
43	वेडेकर दि. के.	संयुक्त महाराष्ट्र
44	फडके य. दि.	दिनकरराव जवळकर, सगय वाड, मय
45	फडके य. दि.	केशवराव जेधे, श्री विद्या प्रकाशन, पुणे
46	लेले रा. का.	मराठी वृत्तपत्रांचा इतिहास
47	स्वाणी रामानंद तीर्थ	हैद्राबाद मुक्तीसंग्रामातील माझ्या आठवणी
48	जांभेकर म. मं.	वाळ गंगाधरशास्त्री यांचे चरित्र व लेखसंग्रह खंड 1,2, पुणे 1950
49	सुमन वैदा, शांता कोठेकर	महाराष्ट्रातील काँग्रेसचा लढा

50 लालजी पेंडसे

महाराष्ट्राचे महामंडळ

SEMESTER IInd

PAPER NO. 03:- HISTORY OF THE MARATHA'S
(A.D.1707-A.D.1818)

	Periods
1. Transfer of power from Chatrapati to Peshwa- Causes, Chatrapati Shahu, Balaji Vishwanath.	10
2. Peshwa Bajirao First and expansion of Maratha Power.	10
3. Third Battle of Panipat- cause and consequences.	08
4. Revival of Maratha power- Peshwa Madhavrao First.	06
5. Anglo – Maratha relations.	05
6. Decline of the Maratha power – causes and Consequences.	06
7. Changes in the administrative system of Peshwa Period – Social structure, position of women, religious Life during Peshwa period, Judicial system.	15

Total periods	60

NOTE:-

60 periods = 04 Credits.

Suggested Readings:

1	Setu Madhavrao Pagadi	18 th Century Deccan
2	Grant Duff	A History of the Marathas
3	V.G.Dighe	Peshwa Bajirao & Maratha Expansion
4	R.C. Mujumdar (Ed.)	The History and Culture of the Indian People- The Maratha Supremony.
5	A.C. Banerjee	Peshwa Madhavrao New History of the Marathas vl. II,III Main Currents of the Maratha History.
6	S.N. Sen	Anglo- Maratha Relations
7	C.A. Kincaid & D.B. Parasnis	History of Maratha People
8	James Grand Duff by J.P. Gupta	History of the Marathas (1978) Foregin Biographers of Shivaji The Military System of the Marathas
9	Jadunath Sarkar	Fall of the Mughal Empire. House of Shivaji, (studies and Documents of Maratha History: royal period) orient Longmant, Bombay,197. Shivaji and His Times, sixth Edition M.C. Sarkar and sons Ltd. 1973.
10	C.K. Srinivasan	Bajirao Ist The Great Peshwa
11	Dr. Balkrishna	Shivaji the Great (vol. 4)
12		Maharashtra in the Age of Shivaji Rekha Prakashan, 2 nd Revised Ed. Pune, 2002.
13	S.R. Sharma	The Founding of Maratha Freedom, Rev.Ed. Orient Longmants,Bombay,

14	Briji Kishore	1978.
15	R.G. Deshmukh	Tarabai and his Times. History of Maratha, Nimesh Agencies, Bombay 1954
16	K.N. Chitnis	Glimpse of Medeval Indian Ideas and Institutions, IInd Ed. 1981, Pune
17	B.D. Gaikwad B.N. Sardesai, D.B. Thorat, V.N. Hanmane	Marathekalin Sanstha va Vichar, Phadke Book dellers, Kolhapur, 1978.
18	R.V. Nadkarni	The Rise and Fall of Maratha Empire, Popular prakashan, 1966.
19	Pagadi Setu Madhavrao	Chatrapati Shivaji, Poona, 1974.
20	Patwardhan R.P. and Rawlinson	H.G. Source Book of Maratha History, Reprint with anew introduction by P.M. Joshi and A.R. Kulkarni, K.P. Bagchi and co. Calcutta, 1978.
21	M.G. Ranade	Rise of Maratha Power and other Essays, Uni. Of Bombay. 1961
22	G.S. Sardesai	The Main Currents of Maratha Hictory, Phoenix Publication, Bombay
23	G.S. Sardesai	Shivaji and his Time. 1600-1700 Third Impression, 1971. vol. I
24	G.S. Sardesai	The Expansion of the Maratha Power (1707- 1772) Vol. II
25	G.S. Sardesai	Sunset Over Maharashtra, 1772- 1848, IInd Impression, 1968, Vol. III
26	H.N. Sinha	Rise of the Peshwas IInd Ed. The Indian Press Ltd. Allahabad.
27	V.T. Gune	The Judicial System of the Maratha, Deccan College, Dissertation, seris Pune, 1953.
28	S.N. Sen	The Military System of the Marathas, K.P. Bagchi, Culcatta, IInd Rev. Ed. 1979
29	S.N. Sen	The Administrative History of the

		Maratha's K.P.Bagchi, Culcatta, 1976.
30	S.V.Desai	Social life in Maharashtra Under the Peshwas, Popular Prakashan, Bombay, 1962.

Select Reading List (Marathi)

1	गो. सा. सरदेसाई	मराठी रियासत. शहाजी राजे भोसले शककर्ता शिवाजी मराठी रियासत..स्थिरवदी राजाराम मराठी रियासतकृतप्रकृती संभाजी
2	डॉ. वि. गो. खोबरेकर	शिवकाळ.. इ.स. 1630 ते इ.स. 1707
3	दि. वि. काळे	छत्रपती शिवाजी महाराज
4	रा. वि. टेरे संपा.	श्रीशिवदिग्विजय
5	ग. ह. खरे, अ. रा. कुलकर्णी	मराठ्यांचा इतिहास: भाग 1,2,3
6	विजय देशमुख	शककर्ते शिवराय..पूर्वार्ध व उत्तरार्ध
7	वेदेंद्र वा. सी.	1.छत्रपती राजाराम महाराज 2.छत्रपती राजाराम महाराज आणि नेतृत्वहीन 'हिंदवी स्वराज्या'चा मोगलाशी झगडा, मुंबई, 1 ऑग. 1975 3.शिवाजी महाराजांचे चिकित्साक चरित्र भाग 1,2, 1972
8	जयसिंगराव पवार	1.मराठी साम्राज्याचा उदय व अस्त 2.सेनापती संताजी घोरपडे 3.महाराणी ताराबाई 4.छत्रपती संभाजी स्मारक ग्रंथ 5.छत्रपती शिवाजी महाराज व शिवमुद्रा 6.शिवाजी व शिवकाळ
9	सदाशिव आठवले, प्र.ल. सासवडकर	मराठी सत्तेचा विकास आणि -हारा

10	डॉ. एम. ए. बाहेकर	राष्ट्रमाता जिजाऊ चिकित्साक चरित्र
11	शं. श्री. पुराणिक	मराठ्यांचे स्वातंत्र्यसंग्रहपूर्वार्ध व उत्तरार्ध
12	डॉ. कमल गोखले	शिवपुत्र संभाजी 1971
13	सदाशिव आठवले	शिवाजी आणि शिवयुग
14	रविंद्र वामन रामदास	शहाजीराजे भोसले

15	सेतू माधवराव पगडी	शिवचरित्र-एक अभ्यास मराठ्यांचे स्वातंत्र्ययुद्ध संपा. मोगल आणि मराठे तारिखे दिलकुशा संपा हिंदवी स्वराज्य आणि मोगल. मराठे व औरंगजेब मासिरे आलमगिरी. मोगल व मराठा संघर्ष फारसी साधने संपा.
16	प्र. न. देशपांडे	मराठ्यांचा उदय व उत्कर्ष
17	प्रभाकर देव	मराठ्यांचा इतिहास
18	सवंत / जाधव	मराठ्यांचा प्रशासकीय, सामाजिक व आर्थिक इतिहास
19	भि. वि. वैदा	मराठा स्वराज्य संस्थापक श्री. शिवाजी महाराज इ. स. 1932 न्या. महादेव गोविंद रानडे अनु.
20	न. र. फाटक	मराठ्यांच्या सत्तेचा उत्कर्ष
21	डॉ. एम. ए. नाहेकर	दुतातया छत्रपती संभाजी राजे काल आणि कर्तृत्व
22	त्रय. शं. शेजवलकर	पनिपत 1761
23	व. क. भावे	युगप्रवर्तक शिवाजी महाराज, 1995
24	वाळशास्त्री हरिदास	1. पुण्यश्लोक शिवाजी खंड 1 ते 4 2. शिवछत्रपती संकलित शिवचरित्राची प्रस्तावना, आराखडा व साधने, निजाम-पेशवे संबंध
25	वि. का. राजनाडे संपा	मराठ्यांच्या इतिहासाची साधने खंड 1 ते 26
26	भारत इतिहास संशोधक मंडळ पुणे	शिवचरित्र साहित्य भाग 1 ते 16
27	ढवळे-नारगळ	मराठ्यांचा इतिहास
28	ना. के. चेहरे	पहिले बाजीराव पेशवे
29	ळरिनाम गुप्ता	मराठे आणि पानिपत
30	फाटक, पगडी	पानिपतचा संग्राम
31	अ. रा. कुलकर्णी, म. ह. खरे संपा.	मराठ्यांचा इतिहास भाग 1, 2, 3
32	डॉ. अप्पासाहेब पवार	ताराबाईकालीन कागदपत्रे, खंड 1, कोल्हापूर, स. 1969
33	गवळी पी. ए.	पेशवेकालीन अस्पृश्यता,
34	प्रा. टी. के. विरादार	मराठ्यांचा इतिहास शिवाजी आणि शिवकाळ
35	केळुसाकर कृष्णराव अर्जुन संपा	शिवाजी महाराज यांचे चरित्र, मुंबई, स. 1920
36	जोशी रा. व्यं.	परकीयांच्या दृष्टीतून शिवाजी, पुणे, 1987
37	कुलकर्णी अ. रा.	शिवकालीन महाराष्ट्र, पुणे, 15 ऑग. 1994
38	बेंद्रे वा. सी.	श्री. छत्रपती संभाजी महाराज यांचे विचिकित्सक चरित्र, मुंबई, 16 ऑग. 1971

39	गोखले कमल	शिवपुत्र संभाजी, पुणे, 1981
40	साने का.ना.	थोरले शाहू, महाराज गांधे चरित्र, 1893


PAPER NO. IV:- TWENTIETH CENTURY MAHARASHTRA
(A.D.1905 – A.D.1960)

periods

1. National Movement (1905 – 1920).
 - i) Surat split and its implication.
 - ii) Revolutionary Movement.
 - iii) Role of Lokmanya Tilak in Indian National movement. 15
2. National Movement (1920 – 1947)
 - i) Non co-operation movement,
 - ii) Civil Dis-obedience movement,
 - iii) Quit India movement. 15
3. Social Movements:
 - i) Non-Brahmin movement- Rajarshi Shahu, Keshavrao Jedhe, Dinkarrao Javalkar.
 - ii) Dalit Movement: V. R. Shinde, Dr. Babasaheb Ambedkar.
 - iii) Education: Karmveer Bhaurao Patil, Panjabrao Deshmukh. 15
4. Hyderabad Freedom struggle (Marathwada Region) 07
5. Making of Maharashtra:

10	डॉ. हेलेंकर	भारतीय समाजप्रबोधनाची शोकांतिका
11	वीर धनंजय	आगव्या समाजक्रांतीचे जनक डॉ. बाबासाहेब आंबेडकर
12	कीर धनंजय	राजर्षी शाहू छत्रपती
13	खैरगाडे	डॉ. भीमराव रामजी आंबेडकर
14	टोपे टी. के.	न्या. रानडे
15	कुबेर डब्ल्यू. एम.	डॉ. आंबेडकर विचारमंथन
16	भोळे भास्कर	आधुनिक भारतीय विचारवंत
17	फडके यशवंत दिनकर	केशवराव जोधे
18	फडके यशवंत दिनकर	शाहू छत्रपती आणि लोकमान्य
19	फडके यशवंत दिनकर	विराट्या शतकातील महाराष्ट्र
20	फडके यशवंत दिनकर	आधुनिक महाराष्ट्राचा इतिहास भाग 1ते3
21	फडकुले निर्मलकुमार	प्रबोधनातील पाठलखुणा
22	प्रधान ग. प्र. संपा	आगरकर लेख संग्रह
23	पाटील भाऊराव	आठवणी
24	परुळेकर गोदावरी	जेव्हा माणूस जागा झाला
25	साळवे पी.जी.	द्वार्यर्षि शाहू गौरव ग्रंथ
26	शिंदे व्ही.आर.	भारतीय अस्पृशतेचा प्रश्न
27	पेंडसे लालजी	महाराष्ट्राचे महामंथन
28	सरदार गं. वा. संपा	आधुनिक महाराष्ट्र
29	टिळक नारायण देवदत्त	महाराष्ट्राची तेजस्विनी पंडिता रमाबाई
30	वाळिंबे रा.रा.	शतकातील महाराष्ट्रातील सामाजिक पुनर्घटना भाग 1
31	फडकुले निर्मलकुमार	लोकहितवादी: आणि कर्तृत्व
32	केळकर न. चि.	लोकमान्य टिळक यांचे चरित्र
33	प्रबोधनकार ठाकरे	पंडिता रमाबाई
34	सरदार गं. वा.	अ. आगरकरांचा सामाजिक विचार ब. महात्मा फुले व्यक्तित्व आणि विचार क. महाराष्ट्राची सामाजिक प्रबोधनाची वाटचाल
35	जाधव पंजाबराव	कर्मवीर भाऊराव पाटील जीवनदर्शन
36	घोरपडे ए. के.	कर्मवीर भाऊराव पाटील
37	वीर उत्तमराव गोहिनी	जगतिक कृषक क्रांतीचा विघाता लोकनेता: डॉ. पंजाबराव देशमुख
38	गोसले एस. एस.संपा.	राजर्षि शाहू : काळ, विचार आणि कार्य
39	पवार गो. मा.	महर्षि विठ्ठल रामजी शिंदे-जीवन, कार्य, लोकवाड.मय ग्रह,मुंबई,2004.
40	पवार जयसिंगराव	राजर्षि शाहू गौरव ग्रंथ
41	अळतेकर मा. दा.संपा.	आगरकर निबंध संग्रह भाग 1,2

42	गगत रा. तु.	महात्मा फुले ते कर्मवीर भाऊराव पाटील
43	वेडेकर दि. के.	संयुक्त महाराष्ट्र
44	फडके य. दि.	दिनकरराव जयळकर, रागय वाड, मय
45	फडके य. दि.	वेशवराव जेधे, श्री विद्या प्रकाशन, पुणे
46	लेले रा. का.	मराठी वृत्तपत्रांचा इतिहास
47	स्वामी रामानंद तीर्थ	हैद्राबाद मुक्तीसंग्रामातील माझ्या आठवणी
48	जार्जेकर ग. गं.	बाळ गंगाधरशास्त्री यांचे चरित्र व लेखसंग्रह खंड 1,2, पुणे 1950
49	सुमन वैदा, शांता कोठेकर	महाराष्ट्रातील काँग्रेसचा लढा
50	लालजी पेंडसे	महाराष्ट्राचे महामंथन


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8-25 March, 2013 AC after Circulars from Circular No.153 & onwards
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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/NP/Social Sciences/Syllabus/159/2013

It is hereby notified for information of all concerned that, on the recommendations of the Boards of Studies, Ad-hoc Boards, and Faculty of Social Sciences, the **Academic Council at its meeting held on 25-03-2013** has accepted the following revised syllabi for **B.A. First & Second Year** and with minor changes in the syllabus of **B.A. Third Year Home Science** under the Faculty of Social Sciences :-

Sr. No.	Revised Syllabus
[1]	B.A. [Public Administration] Semester- I & II,
[2]	B.A. [Political Science] Semester- I & II,
[3]	B.A. [History] Semester- I & II,
[4]	B.A. [Economics] Semester- I & II,
[5]	B.A. [Sociology] Semester- I & II,
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[7]	B.A. [Home Science] Semester- I to IV,
[8]	B.A. [Psychology] Semester-III & IV, Second Year.
[9]	B.A. [Home Science] Semester- V & VI, Third Year Minor Changes,

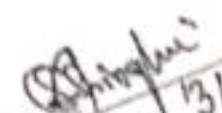
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5979-6382
A.C.M.A.I.No.21.

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Director,
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University Development.

Date:- 08-05-2013.

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B-25 March, 2013 AC after Circulars from Circular No.153 & onwards

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[4]	B.A. [Economics] Semester- I & II,
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5979-6382
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Revised Syllabus of

B.A. 1ST YEAR

POLITICAL SCIENCE

SEMESTER-I & II

[Effective from 2013-14 & onwards]

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD



STRUCTURE OF COURSE IN POLITICAL SCIENCE

B. A. FIRST YEAR

SEMESTER - I

Paper Code No.	Title of the Paper	Credits	Marks	
			Term Exam	Total
Pol. 101	Basic Concept of Political Science	04	50	50
Poli-102	Government and Politics of Maharashtra	04	50	50
	Total Credits and marks of Semester I	08	50	50

SEMESTER - II

Paper Code No.	Title of the Paper	Credits	Marks	
			Term Exam	Total
Pol. 103	Basic Concept of Political Science	04	50	50
Poli-104	Government and Politics of Maharashtra	04	50	50
	Total Credits and marks of B. A. Semester II	08	50	50
	Total Credits and marks of B. A. Semester F. Y.	16	100	100

B.A. First Year

SEMESTER - I

Paper Code - 101

(Effective from academic year 2013-14)

BASIC CONCEPTS OF POLITICAL SCIENCE

Total: 90 marks
Examination: 90 marks

- 1) State Periods Allotted: 15
- 1.1 Meaning and Nature
1.2 Elements of state
1.3 Theories of origin of state: Divine theory, Social Contract theory, Evolutionary theory
- 2) Government Periods Allotted: 15
- 2.1 Meaning and Definition
2.2 Organs of Government: Legislature, Executive and Judiciary
2.3 Types of Government: Unitary, Federal, Parliamentary & Presidential
- 3) Sovereignty Periods Allotted: 15
- 3.1 Meaning, Definition & Types
3.2 Austin's Theory of Sovereignty
3.3 Pluralistic Theory of Sovereignty
- 4) Citizenship & Rights Periods Allotted: 15
- 4.1 Citizenship: Meaning, Types and methods of acquisition
4.2 Meaning, Definition and Types of Rights and Duties

B.A. First Year

SEMESTER - II

Paper Code - 103

(Effective from academic year 2013-14)

BASIC CONCEPTS OF POLITICAL SCIENCE

Total: 50 marks
Examination: 50 marks

- | | |
|--------------------------------------|-----------------------------|
| 1) Liberty, Equality, Justice | Periods Allotted: 15 |
| 1.1 Meaning and Definition | |
| 1.2 Types of Liberty and Equality | |
| 1.3 Idea of Social Justice | |
| 2) Rights | Periods Allotted: 15 |
| 2.1 Meaning and Nature | |
| 2.2 Types of Rights | |
| 3) Democracy | Periods Allotted: 15 |
| 3.1 Meaning and Features | |
| 3.2 Direct and Indirect Democracy | |
| 3.3 Merits and Demerits of Democracy | |
| 4) Welfare State | Periods Allotted: 15 |
| 4.1 Meaning and Features | |
| 4.2 Functions of Welfare State | |

SUGGESTED READINGS :

1. E. Barker : Principal of Social and Political Theory, Calcutta, Oxford Uni. Press. 1976
2. S. I. Benna : Social Principles and Democratic
R. S. Peters : State, London, Georqu & Allen, 1959
3. M. Carroy : The State and Political Theory, Princeton NJ Princeton Uni. Press. 1987
4. D. Held : Models of Democracy, Cambridge, Polity Press, 1987
5. D. Held : Political Theory and Modern State, Cambridge, Polity Press, 1989
6. Laski H. J. : A Grammar of Politics, Allen & Unwin, 1948
7. S. Ramaswami : Political Theory : Ideas and concepts, Delhi, Macmillan, 2002
8. S. P. Varma : Modern Political Theory, New Delhi, Vikas, 1983
9. Adi H. Doctor : Issues in Political Theory.
10. एकनाथ साकळकर आणि अशोक जैन : संकल्पना आणि विचारसरणी
11. कृ. दि. बोराळकर : राजकीय सिध्दांत
12. डी. के. गर्जे : राज्यशास्त्र सिध्दांत
13. आर. एम. गोखले : राज्यशास्त्राची मुलतत्वे भाग 1, 2

B.A. First Year

SEMESTER - I

Paper Code - 102

(Effective from academic year 2013-14)

GOVERNMENT AND POLITICS OF MAHARASHTRA

Total: 50 marks
Examination: 50 marks

- | | |
|--|-----------------------------|
| 1) Historical and Political
Background of Maharashtra State | Periods Allotted: 20 |
| 1.1 Sanyukt Maharashtra Movement | |
| 1.2 State Reorganization Commission | |
| 2) Organization of Government | Periods Allotted: 20 |
| 2.1 Executive: Governor and Chief Minister | |
| 2.2 Legislature: Composition, Power and Functions | |
| 2.3 Judiciary: High Court - Structure and Power | |
| 3) Movements | |
| 3.1 Cooperative Movement, | |
| 3.2 Peasant Movement, | |
| 3.3 Dalit Movement, | |
| 3.4 Feminist Movement. | Periods Allotted: 20 |

B.A. First Year

SEMESTER - II

Paper Code - 104

(Effective from academic year 2013-14)

GOVERNMENT AND POLITICS OF MAHARASHTRA

Total: 50 marks
Examination: 50 marks

1) Panchyati Raj

Periods Allotted: 30

- 1.1 Historical Background of Panchyati Raj system with reference to Maharashtra
- 1.2 Composition and Functions: Gram Panchyat, Panchyat Samiti and Zilla Parishad

2) Ideology and Programme of Political Parties

Periods Allotted: 30

- 2.1 All India National Congress and Nationalist Congress Party
- 2.2 Shiv Sena and Bhartiya Janta Party, Republican Party of India
- 2.3 Republican Party of India and / Bharip Bahujan Mahasangha
- 2.4 Communist Parties (CPICM, CPI)

SUGGESTED READINGS

- | | | |
|-----|---|---|
| 1. | Usha TThakkar and
Mangesh Kulkarni (Ed.) | Politics in Maharashtra. |
| 2. | यू. एम. क्षरसागर | : आधुनिक महाराष्ट्राचे राजकारण - 1960 ते 2000 |
| 3. | प्रा. पी. चौ. पाटील | : पंचायत राज व्यवस्था रचिती अडवेल |
| 4. | भास्कर भोळे व
किशोर वेडकोडाळ (संपादक) | : बदलता महाराष्ट्र |
| 5. | डॉ. शाम कदम | : महात्मा फुले आणि महाराष्ट्राचे राजकारण |
| 6. | प्रा. अशोक जैन | : महाराष्ट्राचे शासन आणि राजकारण |
| 7. | किशोर वेडकोडाळ व
पद्मलाल सुराणा (संपादक) | : आजचा महाराष्ट्र |
| 8. | प्रा. गोविंद सामलवाड | : स्थानिक स्वराज्य संस्था |
| 9. | प्रा. रमेश एचोळीकर | : भारतीय स्थानिक स्वराज्य संस्था |
| 10. | डॉ. शांताराम भोगले | : भारतीय स्थानिक स्वराज्य संस्था |
| 11. | डॉ. विठ्ठल मोरे, डॉ. कुसूम पवार
डॉ. संभाष मोरे, डॉ. राजशेखर सोनाशे | : महाराष्ट्र शासन आणि राजकारण |

8-25 March, 2013 AC after Circulars from Circular No.153 & onwards

- 21 -

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY**CIRCULAR NO.ACAD/NP/Social Sciences/Syllabus/159/2013**

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Revised Syllabus of

B.A. 1ST YEAR

PUBLIC ADMINISTRATION

SEMESTER-I & II

[Effective from 2013-14 & onwards]

**Dr. Babasaheb Ambedkar Marathwada University
Aurangabad**

Public Administration

**Revised Syllabus of B.A. First Year
(Effective from June 2013)**

Semester-I

- Paper-I : Principles and concepts of public
administration**
- Paper-II : Public Administration In India.**

Semester-II

- Paper-III : Maharashtra Administration.**
- Paper-IV : District Administration.**


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B.O.S. in Pub. Adm.
Prof. Dr. Satish Thombre

**B.A. First Year
Public Administration
Semester-I**

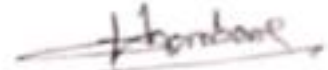
Paper-I : Principles and concepts of public administration

- Unit – I - Public Administration :-**
1. Meaning, Nature and Scope
 2. Importance of Public Administration
 3. Public and private administration
(Similarities and Differences)
- Unit – II - Organization :-**
1. Meaning of organization
 2. Bases of organization
 3. Forms of organization (Formal & Informal)
 4. Line and Staff Agency
 5. Chief Executive
- Unit – III - Principles of organization :-**
1. Hierarchy
 2. Span of Control
 3. Unity of command
 4. Coordination
 5. Decision Making
- Unit –IV - Concepts of Public Administration :-**
1. Administrative Planning
 2. Administrative Leadership
 3. Administrative supervision
 4. Communication
 5. Public Relation^s

Recommended Books

- **C.P. Bhambri** - Public Administration
- **Mohit Bhattacharya** - Public Administration – World Press, Kolkatta
- **S.R.Maheswari** - Theories and concepts in public

- **Administration** - Allide publishers, New Delhi.
- **Awasthi and Maheshwari** - Public Administration - Laxminarain Agarwal, Agra.
- **Sharma and Sadana B.L.** - Public Administration : Theory and practice, kitabi mal, Allahabad.
- **अनिल कुमार शर्मा** - लोकप्रशासन सिद्धान्त एवं व्यवहार
- **श्री.शांतिराम भोगले** - लोकप्रशासनाचे सिद्धान्त व कार्यकायदा - कैलास पब्लीकेशन औरंगाबाद.
- **प्रा.के.आर.वंग** - लोकप्रशासनाची तत्वे- विद्या भुवस, औरंगाबाद
- **डॉ.अशोक जैन** - लोकप्रशासन, सेठ पब्लिशर्स, मुंबई
- **प्रा.बी.बी.पाटील** - लोकप्रशासन-फडके प्रकाशन, कोल्हापूर
- **डॉ.मुताळे व प्रा.चडवळे** - लोकप्रशासन, सहपाठी प्रकाशन नांदेड



Chairman

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Prof.Dr.Satish Thombre

**B.A. First Year
Public Administration
Semester-I**

- Paper-II : Public Administration In India.**
- Unit – I - Evolution of Indian Administration :-**
1. Ancient, Medieval and Modern India.
 2. Salient Features of Indian Administration.
- Unit – II - constitutional Frame work :-**
1. Preamble
 2. Fundamental Rights
 3. Directive Principles of State Policy
 6. Fundamental Duties
- Unit – III - Union Government :-**
1. President – Power and Functions.
 2. Prime Minister-Power and Functions
 3. Council of Ministers-Composition & functions.
- Unit –IV - Union Legislature :-**
1. Loksabha- Composition & functions
 2. Rajyasabha- Composition & functions
- Unit –V - Union Judiciary:-**
1. Supreme Court –Structure & Jurisdiction
 2. Judicial Activism
 3. Attorney General of India
- Unit –VI - Statutory and Non statutory bodies**
1. Union Public Service commission
 2. Election commission of India
 3. Comptroller and Auditor General of India.

4. National minorities , S.C. & S.T. commission
5. National Commission on women.
6. National Human Rights commission.
7. Planning commission of India
8. National Development council.

Unit -VII -

Act of 2005.

1. Meaning , objects, process and limitations of right to Information Act-2005.

Recommended Books

- **D.D.Basu** – Introduction to the constitution of India Prentice Hall, New Delhi.
- **Subhash Kashyap** – Our constitution – National Book trust, New Delhi.
- **Austin G** – The Indian constitution
- **Agarwal** – Our Judiciary-National Book trust, New Delhi.
- **B.P.Puri** – History of Indian Administration (vol.I,II,III)
- **C.P.Berthwal** – Public Administration in India
- **Ramesh Arora and Rajani Goyal** – Indian Public Administration – Vishwas Prakashan New Delhi.
- **Awasti and Maheshwari** – Indian Administration – Laxminaryan Agrawal, Agra.
- **भारताचे संविधान** - भारत सरकार - विधि, न्याय व कंपनी कार्य मंत्रालय.
- **श्रीराम माहेश्वरी** - भारतीय प्रशासन
- **डॉ.पारस मोरा** - भारतीय प्रशासकीय व्यवस्था- विद्या भुवन पब्लिशर्स, औरंगाबाद.

- प्रा.के.आर .वंग - भारतीय प्रशासन - विद्या बुक पब्लिशर्स , औरंगाबाद
- प्रा.बी.बी.पाटील - भारतीय शासन व राजकारण - फडके प्रकाशन, कोल्हापूर.
- प्रल्हाद कचरे व शेखर गायकवाड - कायदा माहितीचा अन्न अभिव्यक्ती स्वातंत्र्याचा- यशदा,पुणे.



Chairman

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Prof.Dr.Satish Thombre

**B.A. First Year
Public Administration
Semester-II**

Paper-III : Maharashtra Administration.

Unit – I - Maharashtra State :-

1. Formation of Maharashtra State
2. Salient features of Maharashtra Administration.

Unit – II - State Executive :-

1. Governor
2. Chief Minister
3. Council of Ministers
4. Chief secretary
5. State Secretariat
6. State Directorate

Unit – III - State Legislature :-

1. Legislative Assembly – Composition , Power & Functions
2. Legislative Council- Composition , Power & Functions.
3. Legislative Committee-Public Account Committee and Estimate committee.

Unit –IV - State Judiciary :-

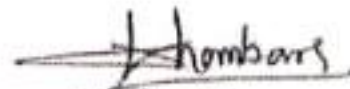
1. High Court
2. Public Litigation Writ , (Jan hit Yachika)
3. District and Session Court.
4. Advocate General.

Unit -V - Constitutional & statutory bodies :-

1. Maharashtra Public service Commission
2. Maharashtra Election Commission
3. Maharashtra Finance Commission
4. Lok Ayukta
5. State Planning Commission.
6. Vaidhanik Vikas Mandal

Recommended Books

- **Gadkari** - Organization of Maharashtra
- **Shukla J.D.** - State Administration
- डॉ.हरिश्चंद्र शर्मा - भारत में लोकप्रशासन-कॉलेज बुक डेपो, जयपूर.
- डॉ.वी.एल.फडि या - उच्चतर लोकप्रशासन-साहित्यभवन पब्लिकेशन , आगरा.
- प्रा.चि.ग.घांगरेसर - महाराष्ट्राचे प्रशासन-विद्या प्रकाशन-नागपुर.
- प्रा.के.आर.वंग - महाराष्ट्र प्रशासन-विद्या बुक पब्लिशर्स, औरंगाबाद
- प्रा.लक्ष्मण कोतापल्ले - महाराष्ट्र प्रशासन
- डॉ.व्यंकट विळेगावे - महाराष्ट्र प्रशासन व जिल्हा प्रशासन-अरुणा प्रकाशन , लातूर.
- डॉ.एखंवेकर, डॉ.वाघमारे - महाराष्ट्र प्रशासनाची रुपरेखा -कैलास प्रकाशन , औरंगाबाद.



Chairman

B.O.S.In Pub.Adm.

Prof.Dr.Satish Thombre

**B.A. First Year
Public Administration
Semester-II**

Paper-IV : District Administration.

Unit – I - District Administration :-

1. Evolution of District Administration
2. Meaning & Importance of District Administration.

Unit – II - District Collector :-

1. Power and Function of District Collector.
2. Changing Role of District Collector.

Unit – III - Law and Order :-

1. Meaning, Principles and Machinery of Law & Order.

Unit –IV - Key posts in District Administration:-


1. Sub-Divisional Officer.
2. Tahsildar
3. Talathi
4. Police Patil
5. District Information & Publicity Officer.

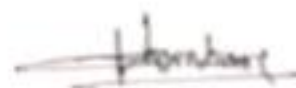
Unit –V - District Police Administration :-

1. Importance of Police Administration.
2. District Superintendent Police- Power function and Role.
3. Criminal Investigation Department (C.I.D)

4. Local Crime Branch (L.C.B.)
7. Issues and challenges in Police Administration.

Recommended Books

- Dr.S.S.Khera - District Administration
- डॉ.अर्जुनराव दशरवकर - जिल्हा प्रशासन
- डॉ.रमेश ऐरवलीकर - जिल्हा प्रशासन
- डॉ.टी.एन.गायकवाड-जिल्हा प्रशासन
- डॉ.मंडूक विठ्ठलने - महाराष्ट्र प्रशासन व जिल्हा प्रशासन-असंग
प्रकाशन . सातपुर.
- प्रा.सलंगरे  जिल्हा प्रशासन



Chairman

B.O.S.In Pub.Adm.

Prof.Dr.Satish Thombre

3-29 Nov., 2013 AC after Circulars from Circular No.55 & onwards

- 43 -

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद**परिपत्रक क्रमांक/एस.यु./कला/अभ्यासक्रमा/७५/२०१४**

या परिपत्रकाद्वारे सर्व संबंधितांना सुचित करण्यात येते की, कला विद्याशाखेने शिक्षारस केल्यानुसार बी.ए., बी. एस्सी., बी.कॉम., बी.एस.डब्ल्यू., बी.एफ.ए., या मधील अनिवार्य, द्वितीय भाषा व ऐच्छिक तसेच एम. ए. हिंदी, इंग्रजी व संस्कृत द्वितीय वर्ष, तृतीय व चतुर्थ सत्र फव्हरीचे सुधारित अभ्यासक्रमास विद्यापरिषदेच्या वतीने मा. कुलगुरु यांनी, त्यांना प्राप्त असलेला विशेष अधिकार महाराष्ट्र विद्यापीठ अधिनियम-१९९४ कलम १४(७) अन्वये मान्यता दिलेली आहे. त्या अनुषंगाने सुधारीत तयार केलेल्या अभ्यासक्रमाच्या आकृतीबंधाची प्रत या परिपत्रकासोबत आपल्या पुढील कार्यवाहीसाठी पाठविण्यात येत आहे.

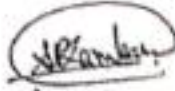
अ.क्र.	सुधारीत अभ्यासक्रम	विषय	सत्र
१.	बी.ए. बी. एस्सी. बी.कॉम. बी.एस.डब्ल्यू., अनिवार्य, द्वितीय भाषा व ऐच्छिक	मराठी	तृतीय व चतुर्थ
२.	बी.ए. बी. एस्सी. बी.कॉम. बी.एस.डब्ल्यू., अनिवार्य, द्वितीय भाषा व ऐच्छिक	हिंदी	तृतीय व चतुर्थ
३.	एम.ए.	हिंदी	तृतीय व चतुर्थ
४.	बी.ए. बी. एस्सी. बी.कॉम. बी.एस.डब्ल्यू., अनिवार्य, द्वितीय भाषा व ऐच्छिक	इंग्रजी	तृतीय व चतुर्थ
५.	एम.ए.	इंग्रजी	तृतीय व चतुर्थ
६.	बी.ए. बी. एस्सी. बी.कॉम. बी.एस.डब्ल्यू., अनिवार्य, द्वितीय भाषा व ऐच्छिक	उर्दू, अरेबिक आणि पार्शियन	तृतीय व चतुर्थ
७.	बी.ए. बी. एस्सी. बी.कॉम. बी.एस.डब्ल्यू., अनिवार्य द्वितीय भाषा आणि ऐच्छिक	पाली आणि बुद्धीग्रम	तृतीय व चतुर्थ
८.	बी.ए. बी. एस्सी. बी.कॉम. बी.एस.डब्ल्यू., अनिवार्य, द्वितीय भाषा व ऐच्छिक	संस्कृत	तृतीय व चतुर्थ
९.	एम.ए.	संस्कृत	तृतीय व चतुर्थ

उपरोक्त सुधारीत केलेल्या अभ्यासक्रमाचा आराखडा शैक्षणिक वर्ष २०१४-१५ करिता मर्यादित असेल व विद्यापरिषदेच्या अंतिम मान्यतेनंतर हे परिपत्रक नियमित ठेवण्याबाबत या कार्यालयाद्वारे नवीन परिपत्रक पारीत करण्यात येईल. तसेच सुधारीत व नवीन तयार केलेल्या अभ्यासक्रमाच्या आराखड्याची प्रत विद्यापीठाच्या [1] www.bamu.net, [2] www.affiliation.casabamu.org या संकेतरथळ्यावर उपलब्ध आहे.

करिता, या परिपत्रकाची सर्व संबंधितांनी नोंद घ्यावी.

विद्यापीठ प्रांगण,
औरंगाबाद-४३१ ००४.
संदर्भ क्र.एस.यु./कला/जे.एल.के. /२०१३-१४/
७२९१-७६९०
दिनांक :- ०२-०६-२०१४.

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संचालक,
महाविद्यालये व विद्यापीठ
विकास मंडळ.

B-29 Nov., 2013 AC after Circulars from Circular No.55 & onwards

- 64 -

का परिपत्रकाधी एक प्रत :-

- १) सा. परीक्षा नियंत्रक, परीक्षा विभाग,
 - २) सा. प्रचारक, सर्व संततीत शाळा/विद्यालये,
 - ३) संचालक, मुक्तिक योग विनोदी कन्यालय वीर की, सद्यतित जनसंघालन विद्यापीठाला संकेतस्थळावर उपलब्ध करण देण्यात यावेत.
 - ४) संचालक, ई-मुक्तिक केंद्र, विद्यापीठ परिसर,
 - ५) जनसंघालक अधिकारी, मुख्य प्रशासकीय इमारत,
 - ६) कक्षा अधिकारी, धावता विभाग, मुख्य प्रशासकीय इमारत,
 - ७) कक्षा अधिकारी, बी.ए., एम.ए. विभाग, परीक्षा भवन,
 - ८) अभिलेख विभाग, मुख्य प्रशासकीय इमारती भागे,
- डॉ. सध्यासाडेन आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद.

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
AURANGABAD**



**REVISED SYLLABUS
OF
COMPULSORY ENGLISH, OPTIONAL ENGLISH AND
ADDITIONAL ENGLISH (SL) COURSE
FOR
B.A./ B.SC./B.S.W./B.F.A.SECOND YEAR
SEMESTER THREE AND FOUR
EFFECTIVE FROM JUNE 2014**

SYLLABUS
COMPULSORY ENGLISH COURSE
B.A./B.SC. /B.S.W. /B.F.A. SECOND YEAR

THE COURSE OF S.Y.COMPULSORY ENGLISH CONSISTS OF ONE PAPER TO BE STUDIED IN TWO SEMESTERS.

TITLE OF THE PAPER: **LEARNING LANGUAGE SKILLS-II**

CODE OF THE PAPER: **CLE- 2**

AIM OF THE COURSE:

*To strengthen students' ability in listening, speaking, reading and writing both at practical and theoretical level.

OBJECTIVES OF THE COURSE:

*To introduce students to the grammatical properties in order to enable them to write and speak English consciously.

*To train them both in precision and in appropriate use of language through prose reading.

*To acquaint students with a keen and subtle way in which the English language is used.

COURSE CONTENT (SEMWISE)

SEMESTER THREE

PAPER TITLE &NO.: **LEARNING LANGUAGE SKILLS-II: PAPER-III**

UNIT ONE: PROSE

- 1) *The Importance of English*-Mulk Raj Anand
- 2) *How to Make a Speech*-Edgar I. Baker
- 3) *The Night Train at Deoli*-Ruskin Bond
- 4) *The Conjuror's Revenge*-Stephen Leacock
- 5) *The Luncheon*-W.Somerset Maugham

UNIT TWO: POETRY

- 1) *First Love*-John Clare
- 2) *All the World's a Stage*-William Shakespeare
- 3) *Next, Please*-Philip Larkin
- 4) *Father Returning Home*-Dilip Chitre
- 5) *Dover Beach*-Matthew Arnold

UNIT THREE: GRAMMAR

- 1) The Sentence and its Classes.
- 2) The Sentence Kinds: Simple Sentence, Compound Sentence, Complex Sentence and Compound- Complex Sentence.
- 3) Simple Sentences: Subject and Predicate.
- 4) Clauses and its Kinds.
- 5) Complex Sentences: Principal Clause and Subordinate Clause.
- 6) Compound Sentences and Compound-Complex Sentences.

UNIT FOUR: WRITING SKILLS

- 1) Use of Punctuations and Capital Letters

SEMESTER FOUR

PAPER TITLE&NO.: **LEARNING LANGUAGE SKILLS-II: PAPER-IV**

UNIT ONE: PROSE

- 1) *How to Avoid an Argument*-Sam Horn
- 2) *The Avenger*-Anton Chekhov
- 3) *On Not Answering the Telephone*-W.Plomer
- 4) *The Sporting Spirit*- George Orwell
- 5) *The Old Man at the Bridge*-Ernest Hemingway

UNIT TWO: POETRY

- 1) *Gather Ye Rosebuds*-Robert Herrick
- 2) *Mirror*-Sylvia Plath
- 3) *Sonnet 43*-Elizabeth Barrett Browning
- 4) *Nobody Loves Me*-Albert J. Nimeth
- 5) *Night of the Scorpion*-Nissim Ezekiel

UNIT THREE: GRAMMAR

- 1) Sentence Synthesis: Combining two or more Simple Sentences into one Simple Sentence, Combining two or more Simple Sentences into one Compound Sentence, Combining two or more Simple Sentences into one Complex Sentence.
- 2) Sentence Transformation/Conversion-I: Changing Exclamatory Sentence

into Assertive Sentence and vice versa, Changing an Interrogative Sentence into an Assertive Sentence and vice versa, Changing an Imperative Sentence into an Interrogative Sentence and vice versa, Interchange of the Degrees of Comparison, Changing Active into Passive voice and vice versa, Changing Negative Sentences into Affirmative Sentences and vice versa.

- 3) Sentence Transformation/Conversion-II: Conversion of Simple Sentences to Compound Sentences, Conversion of Compound Sentences to Simple Sentences, Conversion of Simple Sentences to Complex Sentences, Conversion of Complex Sentences to Simple Sentence.
- 4) Sentence Patterns/Structures:
 - a) Subject + Intransitive Verb
 - b) Subject+ Transitive Verb + Direct Object
 - c) Subject +Verb + Object + Adverb Particle
 - d) Subject + Verb + Indirect Object + Direct Object
 - e) Subject + Verb +Direct Object +Preposition + Indirect Object
 - f) Subject + Verb + Object + Complements
 - g) Subject + to be + Complement

UNIT FOUR: BUILDING VOCABULORY

- 1) Word-Formation: Use of Prefixes and Suffixes
- 2) Prepositional Verbs
- 3) Synonyms and Antonyms

PRESCRIBED TEXTS:

- 1) **LANGUAGE THROUGH WRITINGS: AN ANTHOLOGY OF PROSE AND POETRY**, Board of Studies in English, Cambridge University Press, 2014.
2. **ENGLISH GRAMMAR:- A BOOK OF SENTENCE STRUCTURE AND VOCABULORY**, Board of Studies in English, Cambridge University Press, 2014.
3. Recommended Reading: *Contemporary English Grammar Structures and Composition*, Rev.Edition, by David Green, MacmillanPublishers India Ltd., 2010.

SYLLABUS OPTIONAL ENGLISH COURSE

B.A. SECOND YEAR

THE COURSE OF OPTIONAL ENGLISH CONSISTS OF TWO PAPERS TO BE STUDIED IN TWO SEMESTERS SIMULTANEOUSLY.

LITERATURE IN ENGLISH 1550-1750

LITERATURE IN ENGLISH 1750-1900

AIM OF THE COURSE

*To enable students to read and appreciate various forms of literature and critically interact with them from different perspectives.

OBJECTIVES OF THE COURSE

*To introduce students to appropriate literary strategies to read literature.

*To pinpoint how far literary language deviates from ordinary language.

*To unravel many meanings in a literary text

COURSE CONTENT (SEMWISE)

SEMESTER THREE

PAPER-V: LITERATURE IN ENGLISH 1550-1750

PAPER CODE: OPE-3

UNIT ONE: BACKGROUND STUDY

- 1) The Essay-Its Definition, Origin and Kinds
- 2) The Epic- Its Definition, Conventions, and Kinds-Epic of Growth, Epic of Art and Mock Epic

UNIT TWO: FRANCIS BACON'S ESSAYS

- 1) *Of Friendship*
- 2) *Of Love*
- 3) *Of Studies*
- 4) *Of Revenge*
- 5) *Of Parents and Children*

UNIT THREE: ALEXANDER POPE'S POEM

The Rape of the Lock

PAPER-VI: LITERATURE IN ENGLISH 1750-1900

PAPER CODE: OPE-4

UNIT ONE: BACKGROUND STUDY

- 1) The Ballad- Its Origin, Features, and Kinds
- 2) Features of Romantic Literature (all genres)

UNIT TWO: SAMUEL TAYLOR COLERIDGE'S POEM

Rime of the Ancient Mariner

UNIT THREE: THOMAS HARDY'S NOVEL

Far from the Madding Crowd

SEMESTER FOUR

PAPER-VII: LITERATURE IN ENGLISH 1550-1750

PAPER CODE: OPE-3

UNIT ONE: BACKGROUND STUDY

- 1) Shakespearean Tragedy- Its Characterization and Plot
- 2) Features of Restoration Literature (all genres)

UNIT TWO: WILLIAM SHAKESPEARE'S PLAY

Julius Caesar

UNIT THREE: DANIEL DEFOE'S NOVEL

Robinson Crusoe

PAPER-VIII: LITERATURE IN ENGLISH 1750-1900

UNIT ONE: BACKGROUND STUDY

- 1) The Dramatic Monologue-Its Characteristics, and Nature
- 2) Features of Victorian Literature (all genre)

UNIT TWO: ROBERT BROWNING'S POEM

Last Ride Together

UNIT THREE: OSCAR WILDE'S PLAY

Importance of Being Ernest

PRESCRIBED TEXT/S (For Background Study)

- 1) ***A Background to the Study of English Literature***, Rev. Edi., B.Prasad, Macmillan Publisher India Ltd.,2013.
- 2) ***A Short History of English Literature***, Pramod K. Nayar, Foundation Books, Cambridge University Press, 2009.

SYLLABUS

ADDITIONAL ENGLISH (S.L.) COURSE

B.A./B.SC. /B.S.W./ B.F.A. SECOND YEAR

THE ADDITIONAL ENGLISH COURSE CONSISTS OF ONE PAPER TO BE STUDIED IN TWO SEMESTERS

TITLE OF THE PAPER: **ADDITIONAL ENGLISH- PAPER-III, IV**

CODE OF THE PAPER: **SLE -2**

CONTENT OF THE COURSE (SEMWISE)

SEMESTER THREE

PAPER-III: ADDITIONAL ENGLISH (S.L.ENGLISH)

UNIT ONE: SHORT STORIES BY JAMES JOYCE

- 1) *The Sisters*
- 2) *Araby*
- 3) *Eveline*
- 4) *Clay*

UNIT TWO: WRITING STORY FROM OUTLINES

UNIT THREE: WRITING JOB APPLICATION

SEMESTER FOUR

PAPER-IV: ADDITIONAL ENGLISH (S.L.ENGLISH)

UNIT ONE: ONE ACT PLAY BY J.M.SYNGE

Riders to the Sea

UNIT TWO: DIALOGUES WRITING (ON IMAGINARY SITUATION)

UNIT THREE: ANSWERING QUESTIONS FROM AN UNSEEN
PASSAGE

PRESCRIBED TEXT/S:

- 1) *Dubliners* by James Joyce.
- 2) *English Grammar:- A Book of Sentence Structure and Vocabulary*, Board of Studies in English, Cambridge University Press, 2014.

SCHEME OF MARKING

B.A./B.SC. /B.S.W. /B.F.A. SECOND YEAR

COMPULSORY ENGLISH

PAPER TITLE &NO.: **LEARNING LANGUAGE SKILLS-II: PAPER-III**
SEMESTER THREE

Time: Two Hours

Marks: 50

- 1) Question one will be on five prescribed prose pieces 15 Marks.
- 2) Question two will be on five prescribed poems 15 Marks.
- 3) Question three will be on grammar and writing skills 20 Marks.

Note: Model question paper will be incorporated.

B.A./B.COM. /B.SC. /B.S.W. /B.F.A. SECOND YEAR

COMPULSORY ENGLISH

PAPER TITLE &NO.: **LEARNING LANGUAGE SKILLS-II: PAPER-IV**
SEMESTER FOUR

Time: Two Hours

Marks: 50

- 1) Question one will be on five prescribed prose pieces 15 Marks.
- 2) Question two will be on five prescribed poems 15 Marks.
- 3) Question three will be on grammar and vocabulary 20 Marks.

Note: Model question paper will be incorporated.

B.A. SECOND YEAR

OPTIONAL ENGLISH

PAPER TITLE: **LITERATURE IN ENGLISH 1550-1750**

PAPER NO.: **PAPER-V**

SEMESTER THREE

Time: Two Hours

Marks: 50

- 1) Question one will be on background study with internal choice
10 Marks.
- 2) Question two will be on Bacon's essays with internal choice
20 Marks.
- 3) Question three will be on Pope's poem with internal choice
20 Marks.

Note: Model question paper will be incorporated.

PAPER TITLE: **LITERATURE IN ENGLISH 1750-1900**

PAPER NO.: **PAPER-VI**

SEMESTER THREE

Time: Two Hours

Marks: 50

- 1) Question one will be on background study with internal choice

- 2) Question two will be on Coleridge's poem with internal choice
10 Marks.
- 4) Question three will be on Hardy's novel with internal choice
20 Marks.
- 20 Marks.

Note: Model question paper will be incorporated.

PAPER TITLE: **LITERATURE IN ENGLISH 1550-1750**

PAPER NO.: **PAPER-VII**

SEMESTER FOUR

Time: Two Hours

Marks: 50

- 1) Question one will be on background study with internal choice
10Marks.
- 2) Question two will be on Shakespeare's play with internal choice
20 Marks.
- 3) Question three will be on Crusoe's novel with internal choice
20 Marks.

Note: Model question paper will be incorporated.

PAPER TITLE: **LITERATURE IN ENGLISH 1750-1900**

PAPER NO.: **PAPER-VIII**

SEMESTER FOUR

Time: Two Hours

Marks: 50

- 1) Question one will be on background study with internal choice
10 Marks.
- 2) Question two will be on Browning's poem with internal choice
20 Marks.
- 3) Question three will be on Wilde's play with internal choice
20 Marks.

Note: Model question paper will be incorporated.

ADDITIONAL ENGLISH (S.L.) COURSE

B.A./B.SC. /B.S.W./B.F.A. SECOND YEAR

TITLE OF THE PAPER: ADDITIONAL ENGLISH

PAPER NO.: PAPER-III

SEMESTER THREE

Time: Two Hours

Marks: 50

1) Question one will be on stories with internal choice-30 Marks

2) Question two will be on Unit Two-10 Marks

3) Question three will be on Unit Three-10 Marks

Note: Model question paper will be incorporated.

SEMESTER FOUR

TITLE OF THE PAPER: ADDITIONAL ENGLISH

PAPER NO.: PAPER-IV

Time: Two Hours

Marks: 50

1) Question one will be on one act play with internal choice-30 Marks

2) Question two will be on Unit Two-10 Marks

3) Question three will be on Unit Three-10 Marks

Note: Model question paper will be incorporated.

ACKNOWLEDGEMENT

The Board of Studies in English gratefully acknowledges the valuable suggestions from teachers of colleges regarding the content of the course. The Board also acknowledges supports from the University in this matter.

Sd/-

Chairman

Board of Studies in English

Dr. B. A. M. University Aurangabad.

14, March 2014
University Campus

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
AURANGABAD**



**Revised SYLLABUS
OF
COMPULSORY ENGLISH
FOR
B.COM.SECOND YEAR
SEMESTER THREE AND FOUR**

EFFECTIVE FROM JUNE 2014 AND ONWARDS

SYLLABUS
COMPULSORY ENGLISH COURSE
FOR
B.COM. SECOND YEAR

THE COURSE OF B.COM. S.Y.COMPULSORY ENGLISH CONSISTS OF ONE PAPER TO BE STUDIED IN TWO SEMESTERS.

TITLE OF THE PAPER: **ENGLISH FOR ENTREPRENEURS**

CODE OF THE PAPER: **BCOMCLE- 2**

AIM OF THE COURSE:

*To help students achieve excellent business communication skills for better employment.

OBJECTIVES OF THE COURSE:

*To introduce students to multi business communication skills.

*To inspire students for enterprise through prose reading.

*To strengthen students' writing skill through grammar.

COURSE CONTENT (SEMWISE)

SEMESTER THREE

PAPER TITLE &NO.: **ENGLISH FOR ENTREPRENEURS, PAPER-III**

UNIT ONE: BUSINESS COMMUNICATION

(A) TRASACTIONAL WRITING:

1. *Standard Business Letters*
2. *Handling Letters of Complaint*

(B)DISCUSSIONS/MEETINGS/TEAM SKILLS

1. *Preparing Agenda for Meetings*
2. *Writing Minutes for Meetings*

(C)JOBS AND CAREERS

1. *Applying for Jobs*
2. *Writing Cover Letters for Resumes*

UNIT TWO: PROSE FOR BUSINESS INSPIRATION

- 1) *On the Education of a Man of Business*-Arthur Helps
- 2) *In the Office*-A.S.Hornby
- 3) *When Ideas Make Money*-Shamila Ganeshan
- 4) *Appro JRD*-Sudha Murthy
- 5) *The Man Who E-Mailed the World*-Po Bronson

UNIT THREE: GRAMMAR: WRITING SKILL

1) THE SENTENCES:

- i) *Simple Sentences.*
- ii) *Clauses and its Kinds.*
- iii) *Complex Sentences.*
- iv) *Compound Sentences.*

2) USE OF PUNCTUATIONS AND CAPITAL LETTERS

SEMESTER FOUR

PAPER TITLE&NO.: ENGLISH FOR ENTREPRENEURS, PAPER-IV

UNIT ONE: BUSINESS COMMUNICATION

(A) TRANSACTIONAL WRITING:

1. *Drafting E-Mail for Business Correspondence*
2. *Writing Short Reports*

(B) DISCUSSIONS / MEETINGS / TEAM SKILLS

1. *Making Notes of Business Conversations*
2. *Business Promotions and Language for Advertising*

(C) JOBS AND CAREERS

1. *Preparing for Interviews*
2. *Taking Interviews*

UNIT TWO: PROSE FOR BUSINESS INSPIRATION

- 1) *India's Tech King*-From www.wipro.com
- 2) *A Speech by N.R. Narayana Murthy*-----
- 3) *Saving Money*-M.Lefe
- 4) *The Beauty Industry*-Aldous Huxley
- 5) *Face Book is making us Miserable*-Daniel Gulati

UNIT THREE: GRAMMAR: WRITING SKILL

1. SENTENCE PATTERNS/STRUCTURES

- a) *Subject + Intransitive Verb*
- b) *Subject + Transitive Verb + Direct Object*
- c) *Subject + Verb + Object + Adverb Particle*
- d) *Subject + Verb + Indirect Object + Direct Object*
- e) *Subject + Verb + Direct Object + Preposition + Indirect Object*
- f) *Subject + Verb + Object + Complements*
- g) *Subject + to be + Complement*

2) WORD FORMATION

- a) Use of Prefixes
- b) Use of Suffixes

PRESCRIBED TEXTS:

1. **ENGLISH FOR ENTREPRENEURS**,
Board of Studies in English, Cambridge University Press, 2014.
2. **ENGLISH GRAMMAR: A BOOK OF SENTENCE STRUCTURE AND VOCABULORY**,
Board of Studies in English, Cambridge University Press, 2014.
3. Recommended Reading:
Contemporary English Grammar Structures and Composition,
Rev. Edition, by David Green, Macmillan Publishers India Ltd., 2010.

SCHEME OF MARKING

SEMESTER THREE

PAPER TITLE &NO.: ENGLISH FOR ENTREPRENEURS, PAPER-III

Time: Two Hours

Marks: 50

- 1) Question one will be on Unit One Business Communication consisting A, B, C with internal choice. 18 Marks.
- 2) Question two will be on Unit Two Prose for Business Inspiration consisting five questions out of which three have to be answered. 18 Marks.
- 3) Question three will be on Unit Three Grammar: Writing Skill. 14 Marks.

Note: Model question paper will be incorporated.

SEMESTER FOUR

PAPER TITLE &NO.: ENGLISH FOR ENTREPRENEURS, PAPER-IV

Time: Two Hours

Marks: 50

- 1) Question one will be on Unit One Business Communication consisting A, B, C with internal choice. 18 Marks.
- 2) Question two will be on Unit Two Prose for Business Inspiration consisting five questions out of which three have to be answered. 18 Marks.
- 3) Question three will be on Unit Three Grammar: Writing Skill.s 14 Marks.

Note: Model question paper will be incorporated.

ACKNOWLEDGEMENT

The Board of Studies in English gratefully acknowledges the valuable suggestions from the Dean and all the Chairmen, Faculty of Commerce, in selecting and finalizing the content of the course. The Board also acknowledges support from the University.

Sd/-

Chairman

4, April 2014
University Campus

Board of Studies in English
Dr. B. A. M. University Aurangabad.

S-29 Nov., 2013 AC after Circulars from Circular No.55 & onwards - 29 -

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

CIRCULAR NO.ACAD/SU/Social Sci./Syllabus/70/2014

It is hereby notified for information of all concerned that, on the recommendations of the Faculty of Social Sciences, the **Hon'ble Vice-Chancellor** has accepted the following **revised syllabi** on behalf of the Academic Council Under Section-14(7) of the Maharashtra Universities Act, 1994 **under the Faculty of Social Sciences :-**

Sr. No.	Revised Syllabus
[1]	B.A. [Sociology] Semester-III & IV,
[2]	B.A. [Philosophy] Semester-III & IV,
[3]	B.A. [Public Administration] Semester-III & IV,
[4]	B.A. [Economics] Semester-III & IV,
[5]	B.A. [Political Science] Semester-III & IV,
[6]	B.A. [History] Semester-III & IV,
[7]	B.A. [Thoughts of Mahatama Phule & Dr. Ambedkar], Semester-I to IV
[8]	B.A. [Psychology] Semester-V & VI,
[9]	Post Graduate Diploma in Psychological Counselling run at University Psychology Department,
[10]	B.A. [Travel & Tourism Management]. Semester-I & II

This is effective from the **Academic Year 2014-2015** and onwards as appended herewith.

These syllabi are available on the University Website.

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/SOCIAL SCI./
SYLLABUS /2014/3646-4045

Date:- 03-05-2014.

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Alankar
Director,
Board of College and
University Development.

8-29 Nov., 2013 AC after Circulars from Circular No.55 & onwards - 20 -

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Copy forwarded with compliments to :-

- 1] **The Principals, affiliated concerned Colleges,
Dr. Babasaheb Ambedkar Marathwada University.**
- 2] **The Director, University Network & Information Centre, UNIC, with
a request to upload the above all syllabi on University Website.**

Copy to :-

- 1] The Controller of Examinations,
- 2] The Superintendent, [B.A. Unit],
- 3] The Superintendent, [Eligibility Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The Director, [E-Savidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 7] The Public Relation Officer,
- 8] The Record Keeper,
Dr. Babasaheb Ambedkar Marathwada University.

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**D R. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD**



Syllabus of

B. A. Second Year

Political Science

[Semester -III-IV]

[Effective from June -2014-15 & onwards]

**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad**

Syllabus of B.A. II year (Political Science)

Semester system

- a) All paper are compulsory
b) 50 marks for each paper
c) Semester and examination will be of 120 minutes for each paper

Paper No.	Title of the name	Credit Allotted	Periods	Marks
	Semester III th			
105	Indian Government and politics	04	60	50
106	International relations	04	60	50
	Semester IV th			
107	Indian Government and politics	04	60	50
108	International relations	04	60	50

Note:

- 1) One period of 50 minutes.
- 2) 15 period = 01 credit
- 3) 04 credit = 60 periods
- 4) Each paper is comprised of 04 credits.


Chairman

Board of studies in Political Science
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad

Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad

Political Science

Revised Syllabus of B.A. Degree

(Semester pattern)

B. A. Second Year

Effective from Academic Year 2014-15

Semester III

Pol-105: Indian Government and Politics

Pol-106: International Relations

Semester IV

Pol-107: Indian Government and Politics

Pol-106: International Relations

4/1/2015
-B.O.S. Chairman-17
Pol-105

B. A. Second Year

Semester - III

Effective from academic year 2014-15

Paper code: Pol-105

INDIAN GOVERNMENT AND POLITICS

Total: 50 Marks

Term End Examination 50 marks

Periods

- | | |
|--|----|
| 1) Indian constitution : | 12 |
| 1.1 Sources | |
| 1.2 Preamble | |
| 1.3 Features | |
| 2) Constitutional Provision : | 12 |
| 2.1 Fundamental rights | |
| 2.2 Directive principles of state policy | |
| 3) Union Government : | 12 |
| 3.1 President | |
| 3.2 Parliament | |
| 3.3 Prim Minister | |
| 4) Budgetary process and parliamentary committees : | 12 |
| 4.1 Budgetary process | |
| 4.2 Public Accounts committee | |
| 4.3 Estimate Committee | |
| 5) Constitutional Institutions : | 12 |
| 5.1 Attorney General | |
| 5.2 Comptroller and Auditor General | |

SUGGESTED READINGS:

1. Austin, Granville : The Indian Constitution, Corner Stone of a Nation Oxford Clarendon, 1996.
"- Working a democratic Constitution : The Indian Experience, New Delhi, 1999."
2. Basu D.D. : Introduction to the Constitution of India, 2002.
3. Brass, Paul R. : The Politics in India since Independence, Cambridge University Press, 1990
4. Johari, J.C. : Indian Political System, Anmol Publications Pvt.Ltd. Delhi, 1996
5. Pylce M.V. : Constitutional Government in India, S. Chand & Co.Ltd. 1984.
4. भास्कर भोळे : भारतीय गणराज्याचे शासन आणि राजकारण
5. किशोर बेलकीहड : भारतीय राजकीय व्यवस्था
6. सी.जी. घांगरेकर : भारतीय राज्यघटना-स्वरूप आणि राजकरण
7. बी.टी. देशमुख : भारताचे संविधान
8. व्ही.जी. कुलकर्णी : भारतीय गणराज्याचे शासन आणि राजकारण
9. बी.वाय. कुलकर्णी : भारतीय गणराज्याचे शासन आणि राजकारण

B.A. Second Year

Semester - III

Effective from academic year 2014-15

Paper code: Pol-106

International relations

Total: 50 Marks

Term End Examination 50 marks

	Periods
1) International relations	12
1.1 Meaning	
1.2 Nature	
1.3 Scope and significance	
2) Approaches to the study of International relations	12
2.1 Idealist approach	
2.2 Realist approach	
2.3 Behavioral approach	
3) India's foreign Policy:	12
3.1 Principles	
3.2 Objectives	
4) National interest and National power	12
4.1 Meaning	
4.2 Determinants	
5) Balance of power	12
5.1 Meaning	
5.2 Techniques	
5.3 Types and relevance	

SUGGESTED READINGS:

1.	Hans J. Morgenthau	Politics Among Nations,
2.	Palmer and Perkins	International relations world Community in transition
3.	Vinaykumar Malhotra	International relations
4.	Premlata Sharma	International Relations
5.	Wright Quincy	Study of International Relations
6.	C.B.P. Shrivastav	India and the world , Changing Scenario Kitab Mahal Allahabad,2003
7.	J.W. Borton	International relations
8.	Prakash Chandra	International Politics
९.	डॉ. सुनिल दाते	आंतरराष्ट्रीय संबंध आणि राजकारण
१०.	डॉ. वरुण राधकृष्ण	आंतरराष्ट्रीय संबंध
११.	डॉ. व्ही. बी. पाटेल	आंतरराष्ट्रीय संबंध
१२.	डॉ. बी. इंदु पट्टनयन आणि हरिम सोब	प्रचलित विदेश नीती

B. A. Second Year

Semester - IV

Effective from academic year 2014-15

Paper code: Pol-107

INDIAN GOVERNMENT AND POLITICS

Total: 50 Marks

Term End Examination 50 marks

	Periods
1) Supreme court:	12
1.1 Structure, Powers and Functions	
1.2 Powers of Judicial Review	
2) Center- State Relations:	12
2.1 Legislative	
2.2 Administrative	
2.3 Financial	
3) Ideology and Program of Political parties in India:	12
3.1 Features of Party System in India	
3.2 All India National Congress Party	
3.3 Bhartiya Janta Party	
3.4 Communist Party	
4) Election commission and electoral reforms :	12
4.1 Composition, power, functions, role and Importance	
4.2 Electoral reforms in India	
5) Challenges before Indian Democracy:	12
5.1 Corruption	
5.2 Casteism	
5.3 Communalism	
4.4 Regionalism	

SUGGESTED READINGS:

1. Austin, Granville : The Indian Constitution, Corner Stone of a Nation Oxford Clarendon, 1996.
"- Working a democratic Constitution: The Indian Experience, New Delhi, 1999."
2. Basu D.D. : Introduction to the Constitution of India, 2002.
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B. A. Second Year

Semester - IV

Effective from academic year 2014-15

Paper code: Pol-108

International relations

Total: 50 Marks

Term End Examination 50 marks

	Periods
1) Collective Security and U.N.	12
1.1 Meaning and Nature of collective Security	
1.2 UN and Collective Security	
2) Deterrence	12
2.1 Meaning and Nature	
2.2 Features and Types	
3) Major Issues in Internationalism:	12
3.1 Terrorism	
3.2 Environmentalism	
4) International and Regional Organizations	12
4.1 IMF, World Bank and WTO	
4.2 SAARC	
4.3 ASEAN	
5) Non- alignment movement	12
5.1 Meaning, nature and Importance	
5.2 Role of Non- alignment	
5.3 Relevance of Non- alignment	

SUGGESTED READINGS:

1.	Hans J. Morgenthau	Politics Among Nations,
2.	Palmer and Perkins	International relations world Community in transition
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S-29 Nov., 2013 AC after Circulars from Circular No.55 & onwards - 29 -

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

CIRCULAR NO.ACAD/SU/Social Sci./Syllabus/70/2014

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REF.NO.ACAD/SU/SOCIAL SCI./
SYLLABUS /2014/3646-4045

Date:- 03-05-2014.

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Director,
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- 8] The Record Keeper,
Dr. Babasaheb Ambedkar Marathwada University.

S*/-030514/-

**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad.**



Syllabus

**Sociology
B.A. (II year study)
Semester III and IV
(50:50 Marks Pattern)**

Effective from 2014-2015

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15/04/2016
(Mote S.U.)

BA III & IV Semester

Year	Semester	Paper No	Paper Code	Title of the Paper	Marks
BASY	Semester III	Paper V	BAS 05	Problems of Rural India	50 marks
		Paper VI	BAS 06	Contemporary Urban Issues	50 marks
	Semester IV	Paper VII	BAS 07	Population in India	50 marks
		Paper VIII	BAS 08	Sociology of Development	50 marks

Problems of Rural India

Objectives: It is very important to focus on studies about Rural Development in country like India where a large section of population still living in rural areas. Rural life is affected by the changes taking places at world around. A student of Sociology must be aware about the changing scenario of Rural India and the contemporary problems of rural development, this course is designed with these objectives.

Unit I: Institutional Issues

- Disintegration of Rural Family
- Problems of rural women (Education and Health)
- Domestic Violence, Dowry

Unit II: Education and Health

- Dropout in Education
- Problem of illiteracy
- Community Health and Malnutrition

Unit III: Rural Economy

- Problem of Landless Labours
- Problem of Rural Industries
- Developmental Projects and displacement

Unit IV: Major issues in Development

- Rural unemployment- causes and remedies
- Corruption in governmental schemes
- Indebtedness (Non Institutional Finance)

References:

- Desai, Vasant - 'Fundamentals of Rural Development', Rawat Publication, New Delhi
- Meier, Gerald (ed.) - 'Leading Issues in Economic Development' Oxford University Press, New Delhi 1987
- Prasad, B.K.- 'Rural Development: Concept, Approach and Strategy', Sarup & Sons, New Delhi 2003
- Rau, S.K. - 'Global Search for Rural Development', NIRD Hyderabad 2001
- Satya Sundaram I- 'Rural Development', Himalaya Mumbai 2002
- Datt and Vasant - 'Fundamental of Rural Development', Rawat Publication 1991
- Datt and Rudra- 'Growth Poverty and Equality' Deep and Deep Publication . New Delhi 2008
- Datt, Rudra & Sundharam- 'Indian Economy', S Chand ,New Delhi 2008
- Deogirikar- 'W.T.O and Indian Economy', Shrinivns Publication Jaipur 2004
- Khairnar D R 'Bhartatil Gramin Samaj', Vidya Publication Aurangabad

Contemporary Urban Issues

Objective: Urbanization is irreversible process in all over world so as in India. The number of cities and the demographic population is increasing day by day. As the result of it several issues of planning and distribution of means are raised, so this course is design to create understanding and analytical capacity among students about urbanization, urban Communities, urban planning and urban problems.

Unit I: Urbanization

- Meaning, Definition of Urbanization
- Emergence of cities
- Migration

Unit II: Problems of Urbanization

- Unemployment and Poverty
- Crime, Prostitution
- Juvenile delinquency

Unit III: Urban Planning

- Housing and Slums
- Urban infrastructure
- Scarcity of space

Unit IV: Globalization and urban change

- Implications of globalization for cities and planning
- Mega Projects
- Jawaharlal Nehru Urban Renewal Mission

Reference:

- Alfred De'souza 'The Indian City: Poverty, economy and urban development', Manohar Publications, New Delhi
- Desai A. R & Pillai S D 'Slums and Urbanization', Popular Prakashan, Mumbai
- Ramchandran R 'Urbanization and urban systems in India' OUP, New Delhi
- Edwar W Soja 'Post Metropolis, critical studies of cities and regions' Oxford Blackwell 2000
- Fawa F Sylvia 'New Urbanism in word perspectives' T Y Cowell, New York.
- Dikshit Jutta (Ed) 'The Urban Fringe of India Cities' Rawat Publication Jaipur 2011
- Advani Mohan 'Urbanization, Displacement and Rehabilitation : A study of People affected by Land Acquisition' Rawat Publication Jaipur New Delhi 2009

Population in India

Objective: This course designed to understand causes and consequences of population change. Population is decisive factor which reflects in overall society. Changes in fertility, mortality, migration, technology affected the Society. India which is second largest population in the world has its own features and characteristics. This course is designed to understand the dynamics of Population.

Unit I: Basic Concepts

- Fertility
- Mortality
- Density of Population

Unit II: Human Population Dynamics

- Population growth and environment
- Sex ratios and female feticide
- Age Structure and Problem of Aging

Unit III: Demographic Transition

- Preindustrial Stage
- Industrial Stage
- Postindustrial Stage

Unit IV: Population Policy

- New Population policy of India
- Family welfare Programme
- World Scenario and China Experience of Population

References:

- Mujumdar P. K. 'India's Demography: Changing Demographic Scenario in India', Rawat Publications Jaipur 2013
- Lakshmana C M 'Population change and Health Care', Rawat Publications Jaipur 2011
- Bose Asish 'Demographic of India' - B.R. Publishing Corporation, 1991
- Premi M.K. (Ed.) 'An Introduction to Social Demography' Vikas Publishing House New Delhi
- Rajendra Sharma 'Demography & Population Problems' Atlantic Publication New Delhi
- Srivastava O.S. "Demography & Population Studies" Vikas Publishing House, New Delhi 1994
- Kaistha & Sharma (ed.) 'Population spatial mobility & environment'.
- Bheda & Tara Kanitkar - Principles of Population Himalya Publication, New Delhi
- Dr. Dilip Khairnar, Loksankhya Ani Samaj, Chinmay Pub. Aurangabad

Sociology of Development

Objective: Development is broad and critical process which makes impact on society. The development of human society has come across many stages. The outreach of any development has created many issues too. Sociology has taken 'Development' as a diverse discourse to study. This course provides a broad introduction to many development issues in India.

Unit I: Conceptual Perspectives on Development

- Development and Underdevelopment
- Sustainable Development
- Social Audit

Unit II: Development Issues

- Development and socio-economic disparities
- Gender and development
- Problems of Weaker Sections

Unit III: Development Approaches

- Capitalist view
- Socialist view
- Mixed approach

Unit IV: Indian experience of development

- Government schemes (problems and impact)
- Consequences of L.P.G. (Competition and Conflict)
- Developmental issues of Marathwada (Unemployment, Infrastructure and Education)

References:

- Andrew Websster 'Introductino to the Sociology of Development', Macmilan 1990
 - Gurmukh Ram Madan 'Sociology of Development' Allied Publishers 2003
 - Pieterse, Jan Nederveen 'Development Theory: Deconstructions, Reconstructions', Vistaar Publications, New Delhi., 2001
 - Schuurman, Frans J. 'Globalization and Development Studies', Vistaar Publications, New Delhi, 2001
 - Appaduria, Arjun 'Modernity at Large Cultural Dimensions of Globalization', OUP, New Delhi; 1997
 - Desai A.R. 'India's Path of Development: A Marxist Approach' Popular Prakashan Bombay, 1985
 - Aurora G S 'Poverty and Economic Reforms- The Social Concerns' Academic Foundation in Association with ISES 2004
 - Sheobahal Singh ' Sociology of Development' Rawat Publication Jaipur 2010
-

S-29 Nov., 2013 AC after Circulars from Circular No.55 & onwards

- 29 -

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY**CIRCULAR NO.ACAD/SU/Social Sci./Syllabus/70/2014**

It is hereby notified for information of all concerned that, on the recommendations of the Faculty of Social Sciences, the **Hon'ble Vice-Chancellor** has accepted the following **revised syllabi** on behalf of the Academic Council Under Section-14(7) of the Maharashtra Universities Act, 1994 **under the Faculty of Social Sciences :-**

Sr. No.	Revised Syllabus	
[1]	B.A. [Sociology]	Semester-III & IV,
[2]	B.A. [Philosophy]	Semester-III & IV,
[3]	B.A. [Public Administration]	Semester-III & IV,
[4]	B.A. [Economics]	Semester-III & IV,
[5]	B.A. [Political Science]	Semester-III & IV,
[6]	B.A. [History]	Semester-III & IV,
[7]	B.A. [Thoughts of Mahatama Phule & Dr. Ambedkar],	Semester-I to IV
[8]	B.A. [Psychology]	Semester-V & VI,
[9]	Post Graduate Diploma in Psychological Counselling run at University Psychology Department,	
[10]	B.A. [Travel & Tourism Management].	Semester-I & II

This is effective from the **Academic Year 2014-2015** and onwards as appended herewith.

These syllabi are available on the University Website.

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/SOCIAL SCI./
SYLLABUS /2014/3646-4045

Date:- 03-05-2014.

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(Signature)
Director,
Board of College and
University Development.

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S-29 Nov., 2013 AC after Circulars from Circular No.55 & onwards - 30 -

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- 2) The Superintendent, [B.A. Unit],
- 3) The Superintendent, [Eligibility Unit],
- 4) The Programmer [Computer Unit-1] Examinations,
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- 6) The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 7) The Public Relation Officer,
- 8) The Record Keeper,
Dr. Babasaheb Ambedkar Marathwada University.

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**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD**



**SYLLABUS OF
B. A. SECOND YEAR
PUBLIC ADMINISTRATION
[SEMESTER-III & IV]**

[Effective From June - 2014-15 & Onwards]

Ambar
Chairman B. A. S.
Pub. Administration.
Ambar

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERISTY,
AURANGABAD.**

PUBLIC ADMINISTRATION

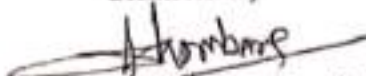
B.A. II YEAR

Semester IIIrd & IVth

REVISED SYLLABUS - EFFECTIVE FROM 2014-2015

Paper No.	Title of the Paper	Periods Allotted	Marks
Semester IIIrd			
PA-105 (V)	Personnel Administration	60	50
PA-106 (VI)	Panchayati Raj and Rural Development	60	50
Semester IVth			
PA-107 (VII)	Financial Administration	60	50
PA-108 (VIII)	Urban Local Self Government and Urban Development	60	50

Chairman,


(Dr. Satish Thombre)

B.O.S., Public Administration,
Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad.

PUBLIC ADMINISTRATION

B.A. Second Year

IIIrd Semester

Paper: PA-105 (V)

Personnel Administration

(Revised Syllabus, Effective From June 2014-15)

Max. Marks: 50

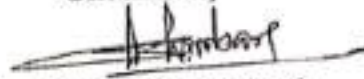
1. Personnel Administration: Meaning and Functions.
2. Public Services in India :
 - i. All India Services: Constitutional Status, Role & Functions.
 - ii. Central and State Services: Nature and Functions.
3. Training, Training Institutions and Promotion.
 - a) Meaning and Importance of Training.
 - b) Training Institutions .
 - i. Lal Bahadur Shastri National Academy of Administration (Mussoorie, Uttarakhand)
 - ii. Sardar Vallabhbhai Patel National Police Academy (Hyderabad)
 - iii. Yashwantrao Chavan Academy of Development Administration (YASHADA, Pune)
 - iv. Maharashtra Police Training Academy (Nashik)
 - c) Promotion
 - i. Meaning and Principles of Promotion.
4. Grievance Redressal Mechanisms in India :
 - i. Central Vigilance Commission.
 - ii. Lokpal.
5. Problems of Personnel Administration.
 - i. Morale.
 - ii. Discipline.
 - iii. Corruption.
 - iv. Neutrality in Public Services.
6. Administrative Tribunals.
 - i. Central Administrative Tribunals (CAT)
 - ii. Maharashtra Administrative Tribunals (MAT).
7. Retirement - Meaning and Benefits of Retirement.

P.T.O

References:

1. Ramesh K. Arora & Rajni Goyal, Indian Public Administration-Institutions and Issues, 2nd Revised Edition, Wishwa Prakashan, New Delhi.
2. Radhey Sham, Public Personnel Administration, King Books, Delhi.
3. C.P. Bhardwaj, Civil Service Administration.
4. S. L. Goel, Personnel Administration.
5. सुरेंद्र कटारिया, कर्मिक प्रशासन, आर. वी. एस. ए. पब्लिशर्स, जयपूर.
6. सी. एम.जैन व हरिश्चंद्र शर्मा, सेवा वर्गीय प्रशासन, रिसर्च पब्लिशर्स, जयपूर.
7. एस.एस. भागीडवार व चव्हाण, कर्मचारी व वित्तीय प्रशासन, कैलास प्रकाशन, औरंगाबाद.
8. के. आर. गंग, कर्मचारी प्रशासन, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
9. सुभाष भिंगे, कर्मचारी प्रशासन, कल्पना प्रकाशन, नांदेड,

Chairman,



(Dr. Satish Thombre)

B.O.S., Public Administration,
Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad.

PUBLIC ADMINISTRATION
B.A. Second Year
IIIrd Semester
Paper: PA-106 (VI)
Panchayati Raj and Rural Development
(Revised Syllabus, Effective From June 2014-15)

Max. Marks: 50

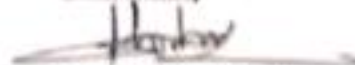
1. Evolution of Panchayati Raj in India.
 - i. Lord Mayo's Resolution
 - ii. Lord Ripon's Resolution
 - iii. Community Development Program
 - iv. Balwantrai Mehta Committee
 - v. 73rd Constitutional Amendment
2. Panchayati Raj System in Maharashtra
 - i. Vasanttrao Naik Committee
 - ii. Zilla Parishad, Panchayat Samiti, Gram Panchayat & Gram Sabha -
Composition and Functions
3. Rural Development - Concept and Programs
 - i. Meaning and Concept of Rural Development
 - ii. Role of Panchayati Raj in Rural Development
 - iii. Sant Gadge Baba Gram Swachhata Abhiyan
 - iv. Indira Awas Yojna.
4. Ministry of State Rural Development – Composition and Functions
5. Rural Development Agencies
 - i. District Rural Development Agency.
 - ii. District Planning Committee.
6. Financial Resources of Panchayati Raj Institution.
 - i. Local Taxes
 - ii. Government Grants
 - iii. Self Income Sources

P.T.O.

References:

1. D. Sundar Ram, Role of Panchayati Raj Institution in 60 Years of Independent India, Kanishka Publisher and Distributor, New Delhi.
2. M. P. Sharma, Local Self Government in India.
3. Ram Reddy, Patterns of Local Government in India.
4. G. Satyanarayan & Madhu Sudhan, Rural Development and Poverty Alleviation in India- Policies & Programs, New Century Publications, New Delhi, 2012.
5. Ram Sakalasingh, Rural Development Administration, Anmol Publication Ltd., New Delhi.
6. Mukta Mittal, Rural Development in India, Anmol Publication Ltd. New Delhi.
7. B.L. Mathur, Rural Management R.B.S.A. Publishers Jaipur, 2008.
8. Bhattnagar, Rural Local Government in India.
9. अरविंद शर्मा, भारत में स्थानिक प्रशासन, आर.बी.एस.ए. पब्लिशर्स, जयपुर.
10. अनेश्वर सिंह, भारत में स्थानिक स्वशासन, तथा पब्लिकेशन, नई दिल्ली.
11. अरविंद शर्मा, भारत में स्थानिक प्रशासन, कॉलेज बुक डेपो, जयपुर.
12. के. आर. वंग, भारतीय स्थानिक स्वशासन, बी. गंगेश प्रकाशन, जयपुर, २००७.
13. एस.टी. सिरसाठ, वैनाडे, भारतीय स्थानिक स्वशासन संस्था, विद्या बुक पब्लिशर्स, औरंगाबाद.
14. गोविंद वमलवाड, भारतीय स्थानिक स्वशासन संस्था, कल्पना प्रकाशन, मुंबई.
15. मुंबई सामुदायिक अभिनियम, १९५८.
16. महाराष्ट्र जिला परिषद व संघीय सभित अभिनियम १९८१.

Chairman,



(Dr. Satish Thombre)

B.O.S., Public Administration,

Dr. Babasaheb Ambedkar Marathwada University,

Aurangabad.

PUBLIC ADMINISTRATION

B.A. Second Year

IVth Semester

Paper: PA-107 (VII)

Financial Administration

(Revised Syllabus, Effective From June 2014-15)

Max. Marks: 50

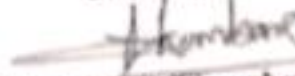
1. Financial Administration - Meaning and Importance
2. Finance Ministry - Composition and Functions
3. Budget :
 - i. Meaning and Principles of Good Budgeting.
 - ii. Preparation, Enactment and Execution of Budget
4. Accounts and Audit :
 - i. Meaning and Importance
 - ii. Comptroller and Auditor General of India (CAG) - Powers and Functions
5. Parliamentary Control :
 - i. Public Accounts Committee.
 - ii. Estimates Committee
6. New Economic Policy
 - i. Liberalization
 - ii. Privatization
 - iii. Globalization

P.T.O.

References:

1. B.L. Mathur, Economic Policy & Administration, Deepak Parnami RDBA, Publishers, Jaipur.
2. Dutta & Sudaram, Indian Economy, S. Chand Publishing Company Ltd. New Delhi.
3. R.N. Agrawal, Financial Administration.
4. Radhesam, Financial Administration & Management
5. A.G. Ghosh, Indian Financial System
6. S.L. Goel, Financial Administration in India.
7. Rajiv Sharma & Ramesh K. Arora, Globalization and Development- Premises and Perspectives, Aalekh Publishers, Jaipur.
8. ए.ए.ए. मणिसागर व प्रकाश, भारतीय व विदेशी प्रशासन, विगत प्रशासन, औरंगाबाद.
9. के. ए. वेंक, विदेशी प्रशासन, विगत प्रशासन, औरंगाबाद, २००९.
10. सुधीर शिंदे, विदेशी प्रशासन, विगत प्रशासन, मंडळ, २००९.

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B.O.S., Public Administration,
Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad.

PUBLIC ADMINISTRATION

B. A. Second Year

IVth Semester

Paper: PA-108 (VIII)

Urban Local Self Government and Urban Development

(Revised Syllabus, Effective From June 2014-15)

Max. Marks: 50

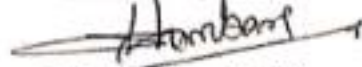
1. Urbanization – Meaning, Causes and Consequences
2. Urban Local Self Government in Maharashtra
 - i. Municipal Corporation
 - ii. Municipal Council
 - iii. Nagar Panchayat
 - iv. Cantonment Boards
 - v. Provisions in 74th Constitutional Amendment.
3. Ministry of Urban Development - Composition and Functions
4. Urban Development Agencies
 - i. City and Industrial Development Corporation (CIDCO)
 - ii. Housing and Urban Development Corporation (HUDCO)
 - iii. Maharashtra Housing and Area Development Authority (MHADA)
5. Problems of Urbanization
 - i. Slums
 - ii. Pollution
 - iii. Transport and Traffic
 - iv. Water Supply
6. Major Urban Development Programs
 - i. Town Planning
 - ii. Slum Improvement Programs

P.T.O.

References:

1. M. P. Sharma, Local Self Government in India.
2. Ram Reddy, Patterns of Local Government in India.
3. S.R. Maheshwari, Local Government in India, Laxmi Narayan Agarwal Educational Publisher, Agra, 2008.
4. Nigam S. R., Local Government
5. Bharadwaj R.K., Municipal Administration in India.
6. Datta Abhijit, Municipal Executives in India.
7. Khan H. Z., Leadership in Municipal Government.
8. बाभेश्वर सिंह, भारत में स्थानिय स्वशासन, राधा पब्लिकेशन, नई दिल्ली.
9. हरिश्चंद्र शर्मा, भारत में स्थानिय प्रशासन, कॉलेज बुक डेपो, जयपुर.
10. के. आर. बंग, भारतातील स्थानिक स्वशासन, श्री. मंगेश प्रकाशन, नागपूर, २००५.
11. एस.टी. शिरसाठ, बैनाडे, भारतातील स्थानिक स्वराज्य संस्था, विद्या बुक पब्लिशर्स, औरंगाबाद,
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13. कुलकर्णी अ. ना., भारतातील स्थानिक स्वशासन.
14. मुंबई प्रांतिक महानगरपालिका अधिनियम, १९४९.
15. महाराष्ट्र नगरपालिका अधिनियम, १९६५.

Chairman,



(Dr. Satish Thombre)

B.O.S., Public Administration,
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S-29 Nov., 2013 AC after Circulars from Circular No.55 & onwards - 29 -

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

CIRCULAR NO.ACAD/SU/Social Sci./Syllabus/70/2014

It is hereby notified for information of all concerned that, on the recommendations of the Faculty of Social Sciences, the **Hon'ble Vice-Chancellor** has accepted the following **revised syllabi** on behalf of the Academic Council Under Section-14(7) of the Maharashtra Universities Act, 1994 **under the Faculty of Social Sciences :-**

Sr. No.	Revised Syllabus
[1]	B.A. [Sociology] Semester-III & IV,
[2]	B.A. [Philosophy] Semester-III & IV,
[3]	B.A. [Public Administration] Semester-III & IV,
[4]	B.A. [Economics] Semester-III & IV,
[5]	B.A. [Political Science] Semester-III & IV,
[6]	B.A. [History] Semester-III & IV,
[7]	B.A. [Thoughts of Mahatma Phule & Dr. Ambedkar], Semester-I to IV
[8]	B.A. [Psychology] Semester-V & VI,
[9]	Post Graduate Diploma in Psychological Counseling run at University Psychology Department,
[10]	B.A. [Travel & Tourism Management]. Semester-I & II

This is effective from the **Academic Year 2014-2015** and onwards as appended herewith.

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All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/SOCIAL SCI./
SYLLABUS /2014/3646-4045

Date:- 03-05-2014.

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Director,
Board of College and
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Dr. Babasaheb Ambedkar Marathwada University,
- 7] The Public Relation Officer,
- 8] The Record Keeper,
Dr. Babasaheb Ambedkar Marathwada University.

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**Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad**



Syllabus of Economics

B. A. Second Year

Semester - III & IV

[Effective from the Academic Year 2014-15 & Onwards]

Dr. Dilawar Arjune
Dr. Dilawar Arjune
(Chairman Economics)

**DR. BABASAHEB AMBEDKAR MARATHAWADA UNIVERISTY,
AURANGABAD.**

Economics

B.A. II YEAR

Semester III & IV

REVISED SYLLABUS - EFFECTIVE FROM 2014-2015

Paper No.	Title of the Paper	Periods Allotted	Marks
Semester III			
ECO-105	Macro Economics (Compulsory)	60	50
ECO-106	Development Economics (Compulsory)	60	50
Semester IV			
ECO -107	Public Finance (Compulsory)	60	50
ECO -108	Statistical Methods (Compulsory)	60	50

Chairman,



(Dr. D. S. Arjune)

B.O.S., Economics,

Dr. Babasaheb Ambedkar Marathwada
University,
Aurangabad.

Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad

Board of Studies in Economics

Basic Framework for the proposed under graduate syllabus,

B.A. II YEAR

(ECONOMICS)

SEMESTER -III

ECO-105:-Macro Economics (Compulsory)

ECO-106:-Development Economics (Compulsory)

SEMESTER -IV

ECO -107:- Public Finance (Compulsory)

ECO -108:- Statistical Methods (Optional)

S.Y.B.A. Economics

(Revised Syllabus)

Semester -III

ECO - 105:-Macro Economics (Compulsory)

Marks: 50

Objectives:-

This paper of Macro Economics is designed to make undergraduate students aware of the basic theoretical framework underlying the field of Macro Economics.

Unit: I – Introduction:

- 1.1 Macro Economics –Definition, nature and scope.
- 1.2 Importance and limitations of Macro Economics.
- 1.3 Difference between Macro and Micro Economics.

Unit: II – National Income:

- 2.1 National Income –Definition and various concepts.
- 2.2 Significance and circular flow of national income.
- 2.3 Measurement and difficulties in measuring national income.

Unit: III – Theory of Money:

- 3.1 Value of money and its measurement.
- 3.2 Index Number.
- 3.3 Quantitative Theory of Money, Fisher's approach.

Unit: IV - Output and Employment:

- 4.1 Classical theories of employment.
- 4.2 Keynesian theory of employment-aggregate demand function, aggregate supply function, Principle of effective demand.
- 4.3 Consumption function - concept, Keynesian Psychological law of consumption average and Marginal propensity to consume.

Unit: V - Theory of Trade Cycles:

- 5.1 Nature and characteristics of trade cycles.
- 5.2 Hawtrey's monetary theory, Hayek's over investment theory, Keynesian view on trade cycles.
- 5.3 Control of trade cycles -monetary and Fiscal measures.

Basic Reading List:

1. Ackely, G.(1976), Macro Economics : Theory and Policy , Macmilan Publishing Company, New York.
2. Day, A.C.L. (1960), Outline of Monetary Economics, Oxford University Press, Oxford.
3. Gupta S. B. (1994), Monetary Economics, S. Chand and Co. Delhi.
4. Heijdra, B. J. and F.V. Ploeg (2001), Foundations of Modern Macro Economics, Oxford University Press, Oxford.
5. Lewis M.K. and P. D. Mizan (2000), Monetary Economics Oxford University Press, New Delhi.
6. Shapiro E. (1996), Macro Economics Analysis, Gaigotla Publications, New Delhi.

S.Y. B.A. Economics

(Revised Syllabus)

Semester - III

ECO-106:- Economics of Development (Compulsory)

Marks: 50

Objectives:

This paper would enable the students to know about theories of Development underlying the field of Economics of Development.

Unit - I: Introduction:

- 1.1 Meaning of economic development and growth.
- 1.2 Difference between development and growth.
- 1.3 Concept of underdevelopment and characteristics of underdeveloped countries, Sustainable development, obstacles to economic development.

Unit - II: Theories of Development:

- 2.1 Theories of Adam Smith and Malthus.
- 2.2 Karl Max's Theory of Economic Development.
- 2.3 Schumpeter's Theory of Economic Development.

Unit -III: Factors in Development Process.

- 3.1 Natural resources, renewable and non renewable.
- 3.2 Population - Theory of optimum population.
- 3.3 Saving and investment - Capital accumulation, capital output ratio, Choice of technique.

Unit – IV: Growth Models:

- 4.1 Ragnar Nurkse's model of Economic growth.
- 4.2 W.W. Rostow's stages of economic growth.
- 4.3 Rosenstein Rodan's Theory of Big Push, Balanced v/s unbalanced growth.

Unit – V: Sectoral View of Economic Development:

- 5.1 Role of agriculture in economic development.
- 5.2 Role of industrialisation in economic development.
- 5.3 Role of service sector in economic development, Role of Nano Technology in agricultural development.

Basic Reading List:

1. Adelman I. (1961), Theories of Economic Growth and development, Stanford University Press, Stanford.
2. Behrman S. and T.N. Srinivasan (1995), Handbook of Development Economic Vol. 1 to 3, Elsevire, Amsterdam.
3. Higgins B. Economic Development: Past and present.
4. M.L. Jhingan : Economics of Development and Planning.
5. Ray Debray : Development Economic.
6. Kindleberger C. P. (1977) Economic Development. Oxford University Press, New Delhi.
7. Thirwal A. P. (1990): Growth and Development, Macmillan, London.
8. Sen A. K. (1990), Growth Economics, Pengnin, Harmondsworth.

B.V. B.A. Economics
(Revised Syllabus)
Semester - IV

ECO - 107: Public Finance (Compulsory)

Marks: 50

Objective:

This paper would provide understanding about the significance and scope of Public Finance. The main objective of this paper is to provide detailed information to students about the fiscal policy, public revenue, public debt and public expenditure.

Unit - I: Introduction:

- 1.1 Meaning, nature and scope of public finance.
- 1.2 Importance of public finance.
- 1.3 Difference between private, public finance, private, public and merit goods.

Unit - II: Public Revenue:

- 2.1 Sources of public revenue.
- 2.2 Taxation -Direct and Indirect tax, objectives of taxation, canons of taxation, classification of taxes.
- 2.3 Division of tax burden - The benefit theory and ability to pay theory, impact and incidence and effects of taxation.

Unit - III: Public Expenditure:

- 3.1 Meaning and classification of public expenditure.
- 3.2 Principles of public expenditure.
- 3.3 Role of public expenditure in developing economy, effects of public expenditure.

Unit – IV: Public Debt:

- 4.1 Concept and importance of public debt, comparison between public debt and private debt.
- 4.2 Sources, causes and effects of public debt.
- 4.3 Debt burden and its management, redemption of bank debt.

Unit – V: Union Budget:

- 5.1 Meaning, objectives and components of union budget.
- 5.2 Types of budget – balanced, surplus, deficit and zero base budget, Concept of Gender Budget.
- 5.3 Current Central Government budget of India.

Basic Reading List:

1. Atkinson A .B. and J. E. Stiglitz (1980), Lectures on public Economics, Tata McGraw Hill, New York.
2. Buchanan J.M. (1970), The Public Finances, Richard D Irwin Homewood.
3. Jha R. (1998), Modern Public Economics : Routledge London.
4. Musgrave, R.A. (1959), The Theory of Public Finance, McGraw Hill, Kogakusha Tokyo.
5. Musgrave, R.A. and P.B. Susgrave (1976), Public Finance in Theory and practice, McGraw Hill Kogakusha Tokyo.
6. Auerbach, A.J. and M. Feldstren (Eds) (1985), Handbook of Public Economics Vol.-I North Halland, Amsterdam.
7. Goode R. (1986), Government Finance in Developing countries, Tata McGraw Hill, New York.
8. Cutt, J. (1996), Taxation and Economic Development in India, Prager Publishers, New York.
9. Friedman, A. (1986), Welfare Economics and Social Choice Theory, Martins Nijhoff, Bostan.
10. Premchand A. (1966), Control of Public Expenditure in India, Allied publishers, New Delhi.

**S.Y.B.A. Economics
(Revised Syllabus)**

Semester - IV

ECO - 108 Statistical Methods (Compulsory)

Marks: 50

Objective:

The main objective of this paper named Statistical Methods is to train the students to use the techniques of statistical analysis which are commonly applied to economic problems. Statistical Methods paper also deals with simple tools and techniques, which will help the students in data collection, presentation, analysis and drawing inferences about various statistical hypotheses.

Unit - I: Introduction:

- 1.1 Meaning and nature of statistics.
- 1.2 Scope and importance of statistics.
- 1.3 Collection of data - Primary and Secondary data.

Unit - II: Measures of Central Tendency:

- 2.1 Types of series - Simple, Discrete and Continuous series.
- 2.2 Arithmetic mean- its merits and demerits.
- 2.3 Median and Mode - its merits and demerits.

Unit - III: Measures of Dispersion:

- 3.1 Range, Mean deviation.
- 3.2 Standard deviation.
- 3.3 Variance, Co-efficient of Variation.

Unit – IV: Correlation Analysis:

- 4.1 Meaning and types of correlation.
- 4.2 Karl Pearson's coefficient of correlation.
- 4.3 Properties of correlation of coefficient.

Unit – V: Index Number:

- 5.1 Meaning of Index Number.
- 5.2 Uses and limitations of Index Number.
- 5.3 Laspeyre's, Pasche's and Fisher's Ideal Index Numbers.

Basic Reading List:

1. Allen, R. G. D. (1974), Mathematical Analysis for Economists, Macmillan Press, London.
2. Croxton, F.E., D.J. Cowden and S. Klein (1973), applied General Statistics, Prentice Hall, New Delhi.
3. Gupta S.C. and Kapoor V. K. (1993), Fundamentals of Applied Statistics, S. Chand and Sons, New Delhi.
4. Monga G.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.
5. Speigal, M.R. (1972), Theory and problems of Statistics, McGraw Hill Book, London.
6. Good, A.M., Gupta M. K. and Dasgupta B. (1987), Fundamentals of Statistics, Vol. 1 (Sixth Revised ed.), The World Press Pvt. Ltd.

Dr. Dilip Arjuna
Chairman Economics

orig - 24 page.

S-29 Nov., 2013 AC after Circulars from Circular No.55 & onwards - 29 -

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/SU/Social Sci./Syllabus/70/2014

It is hereby notified for information of all concerned that, on the recommendations of the Faculty of Social Sciences, the **Hon'ble Vice-Chancellor** has accepted the following **revised syllabi** on behalf of the Academic Council Under Section-14(7) of the Maharashtra Universities Act, 1994 **under the Faculty of Social Sciences :-**

Sr. No.	Revised Syllabus
[1]	B.A. [Sociology] Semester-III & IV,
[2]	B.A. [Philosophy] Semester-III & IV,
[3]	B.A. [Public Administration] Semester-III & IV,
[4]	B.A. [Economics] Semester-III & IV,
[5]	B.A. [Political Science] Semester-III & IV,
[6]	B.A. [History] Semester-III & IV,
[7]	B.A. [Thoughts of Mahatama Phule & Dr. Ambedkar], Semester-I to IV
[8]	B.A. [Psychology] Semester-V & VI,
[9]	Post Graduate Diploma in Psychological Counseling run at University Psychology Department,
[10]	B.A. [Travel & Tourism Management]. Semester-I & II

This is **effective from the Academic Year 2014-2015** and onwards as appended herewith.

These **syllabi** are available on the **University Website**.

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/SOCIAL SCI./
SYLLABUS /2014/3646-4045

Date:- 03-05-2014.

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Alankar
Director,
Board of College and
University Development.

S-29 Nov., 2013 AC after Circulars from Circular No.55 & onwards - 30

:: [2] ::

Copy forwarded with compliments to :-

- 1] **The Principals, affiliated concerned Colleges,
Dr. Babasaheb Ambedkar Marathwada University.**
- 2] **The Director, University Network & Information Centre, UNIC, with
a request to upload the above all syllabi on University Website.**

Copy to :-

- 1] The Controller of Examinations,
- 2] The Superintendent, [B.A. Unit],
- 3] The Superintendent, [Eligibility Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 7] The Public Relation Officer,
- 8] The Record Keeper,
Dr. Babasaheb Ambedkar Marathwada University.

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HISTORY SYLLABUS IIND

D.R.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD

Syllabus of

Second Year

B.A.(HISTORY)

Semester - III rd and IV th

{effective from 2014 - 15 & onwards}

१


Chairman
Board of Studies in History
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad

2014-2015 All Syllabus Social Sciences Faculty B.A. II Yr. History [Sem. III & IV] - 4 -
HISTORY SYLLABUS IIND

SYLLABUS OF B.A. II nd

DR. BABASAHEB AMNEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

SYLLABUS OF B.A. II nd YEAR (HISTORY)

SEMESTER SYSTEM

(effective from 2014-2015)

1. Each semester consist of two papers
2. Each paper will be of 50 Marks
3. Semester end examination will be of 90 minutes for each papers.

Paper No	Title of the paper	Periods Allotted
SEMESTER III RD		
V	History of early India (Up to B.C.300)	60
VI	History of Delhi Sultanat (A.D.1200- A.D.1526) OR British Rule in India A.D.1757-A.D.1857	60
SEMESTER IV		
VII	History of India (B.C.300-A.D.650)	60
VIII	History of Mugal India A.D.1526- A.D.1757 OR History of India (A.D.650 - A.D.1200) OR History of Soviet Unoin (A.D.1917 - A.D.1985)	60

Note :- One Period of 50 Minutes.

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HISTORY SYLLABUS IIND

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

SYLLABUS OF B. A. IInd YEAR (HISTORY)

(SEMESTERWISE)

SEMESTER-IIIrd

PAPER NO. V – HISTORY OF EARLY INDIA (UPTO B. C. 300)

Sr.No	Name of the Chapter	Periods Alloted
1	A) Religious and secular Literature, Foreign Accounts B) Archaeological, Numismatic Sources	10
2	A) Stone age culture B) Harappan civilization – Major sites, Town planning, Socio- Religious and Economic Life.	12
3	Vedic culture : Original home of Aryas Early Vedic age – Society, economy, Religion Later Vedic age – polity, society, economy and religion	12
4	A) Religious Movements – Jainism and Buddhism B)Philosophy - Upnishadas, Shaddarshan and Charwak	12
5	A) Janapadas and Mahajanapadas – Rise of Magadha B)Mauryan Empire – Chandragupta Mauryan, Ashoka, Mauryan Economy, Administration. Art and Architecture.	14
	Total Period	60


Chairman
Board of Studies in History
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad

HISTORY SYLLABUS IIND

PAPER NO. V – HISTORY OF EARLY INDIA (UPTO B. C. 300)
SUGGESTED READINGS :

1	Kosambi D. D	-	Culture and Civilization of Ancient India in Historical Outline.
2	Sastri K. A. N. (Ed.)	-	Age of Nandas and Mauryas.
3	Thaper Romila	-	History of India. Vol.-I
4	Ghosh N. N	-	Early History of India
5	Pannikar K. M	-	Survey of Indian History.
6	Mukerji R. K	-	Ancient India
7	Sastri K. A. N	-	Advance History of India
8	Majumdar R. C. & Others	-	Advanced History of India, Part – I. Ancient India.
9	Piggot Stuart	-	Prehistoric India
10	Wheeler Sir Mortimer	-	Indus Civilization, Supplementary Volume of the Cambridge History of India Vol. I-III.
11	Rao S. R.	-	Lothal and The Indus Civilization
12	Ramkrishan Mission	-	Cultural Heritage of India, Vol. I
13	Rapson Ed	-	Cambridge History of India, Vol.I
14	Basham A. L. Ed	-	Cultural History of India, Vol I
15	Mujumdar R. C. and Pusalkar	-	History and Cultural of the Indian People, Vol.I, Vedic Age, Vol.II, Age of Imperial Unity.
16	Prabhu P. M	-	Hindu Social Organisation.
17	Bandopaadhyaya N. C.	-	Economic Life and Organisation in Ancient India.
18	U. N. Ghoshal	-	History of Indian Public Life
19	P. L. Bhagrava	-	Banking in Ancient and Medieval India
20	R. C. Mujumdar	-	Corporate Life in Ancient India.
21	P.C. Jaina	-	Labour in Ancient India
22	A. N. Bose	-	Social and Rural Economy of Northern India
23	S. K. Das	-	Economic History of Ancient India

HISTORY SYLLABUS IIND

24	S. Radhakrishnan	-	Hindu view of Life.
25	P. V. Kane	-	History of Dharmashastra.
26	Datta N. K.	-	Origin and Growth of Caste System in India.
27	A. S. Altekar	-	Education in Ancient India.
28	Meena Talim	-	Women in Early Buddhist Literature.
29	A. S. Altekar	-	Position Of Women Hindu Civilization.
30	Aiyar E. S	-	Evolution O Hindu Moral Ideas.
31	R. S. Sharma	-	Social and Economic formation in Ancient India.
32	Brown Percy	-	Indian Architecture (Buddhist and Hindu period).
33	K. M. Pannikar	-	Ideas of Sovereignty and
34	A. S. Altekar	-	State and Government in Ancient India.
35	Robert E. Fisher	-	Fisher Buddhist Arts and Architecture.
36	Michel Lorblanchet Ed.	-	Rock Art in the Old World.
37	C. Sivaramurti	-	The Art of India
38	Shah C. P.	-	Jainism in Northern India .
39	Bapat P. V.	-	2500 Years of Buddhism
40	Sen S. K.	-	Hinduism.
41	Dasgupta S.N.	-	History of Indian Philosophy Vol. I-V
42	P. Bannerjee	-	Early Indian Religions
43	M. Hiriyanna	-	Essentials of Indian Philosophy.
44	S. Radhakrishnan	-	Indian Philosophy Vol. I & II.
45	K. P. Jayaswal	-	Hindu Polity.
46	N. C. Bandopadhyaya	-	Development of Hindu Polity and Political Theories.

HISTORY SYLLABUS HIND

मराठी / हिंदी संदर्भ ग्रंथ सूची :

1	अ. स. कुलकर्णी	-	प्राचीन भारत
2	रोमिला थापर	-	प्राचिन भारत
3	कंगले र. पा.	-	प्राचीन भारतीय राजनीती
4	बर्णेकर श्री. भा.	-	भारतीय धर्म व राज्यज्ञान
5	भाटे म. श्री.	-	प्राचीन भारतीय कला
6	भाळी के. एस. आणि एन.	-	प्राचिन भारत का इतिहास
7	काणे पा. बा.	-	धर्मशास्त्राचा इतिहास
8	देगलूरकर, डबळीकर, गायकवाड	-	प्राचीन भारताचा इतिहास व संस्कृती

HISTORY SYLLABUS IIND

PAPER No. VI - HISTORY OF DELHI SALTANAT (A. D. 1200 – A. D. 1526)

Sr.No	Name of the Chapter	Periods Alloted
1	Sources : A) Literary sources, Foreign Travelers Accounts. B) Archaeological, numismatic sources.	06
2	Political History – A Brief Survey A) Turkish invasion of India and foundation of Delhi Sultanat B) Khalji, Tughuqs, Sayyid and Lodi dynasty C) Yadavas of Deogiri, Bhamani empire, Vijaynagar empire	12
3	Delhi Saltanat : Religious policy, Central and provincial Administration, Ruling Classes	10
4	Economy and Social Life A) Trade and Commerce, Industries, Monetary System, Urbanisation B) Social structure – Rural and Urban Life, Caste System, Slavery, Education, Position of Women.	12
5	Religious Cults – Nath, Mahanubhav and Warkari Cults, Bhakti Movement in North India, Sikhism, Sufisim.	10
6	A) Arts and Architecture of Delhi Sultanate, Art and Architecture of Yadav, Bhamani and Vijaynagar Empire . B) Languages and Literature – Persian, Sanskrit and Regional Languages.	10
Total Period		60

HISTORY SYLLABUS IIND

Paper No. VI – History of Delhi Sultanat (A. D. 1200 – A. D. 1526)

SUGGESTED READINGS :

1	Habib Mohammed & K. N	-	Comprehensive History of India. Vol. V-Delhi Sulnat
2	Nizami Rizvi Sayed	-	History of Sufism Vol. I
3	ChampakLakshmi R	-	Trade, Ideology, Urbanization in South Indian (300 B. C. to A. D. 1300)
4	ChampakLakshmi R	-	Trade, Ideology, Urbanization in South Indian (300 B. C. to A. D. 1300) Tarachand Influence of Islam on Indian Culture.
5	Mujumdar R. C. & Pusalkar	-	History and Culture of Indian People. The Delhi Sultanat Vol. VI
6	Chitnis K. N.	-	Medieval Indian history
7	Gopal B. R.	-	The Chalukyas of Kalyani and Kalachuri
8	Yazadani G. (Ed.)	-	Early history of Deccan – Part I&II
9	Mehta J. L.	-	An Advance history of Medieval India Vol.I & II
10	Rawland B.	-	Art and Architecture of India
11	Vardachari V.	-	History of Sanskrit Literature
12	Karashima N.	-	Towards New Formation of South Indian Society Under Vijaynagar
13	Kutke, Hermana	-	The State in India (A. D. 1000 – 1700)
14	Stein, Burton	-	New Cambridge History of India – Vijaynagar
15	Chaudhari K. N	-	Trade and civilization in the Indian Ocen . An Economic History from the rise of Islam to 1750
16	Shrivastv M. P.	-	Society and Culture of Medieval India
17	Habib Mohammad &K.N. Nizami	-	Politics and Society in Early Medieval Period.Vol.I&II
18	Tripathi R. P	-	Rise and Fall of Mughal Empire

HISTORY SYLLABUS IIND

मराठी / हिंदी संदर्भ ग्रंथ सूची			
1	ओंक पी. एन.	-	इस्लामी परचक्राची सुरुवात
2	सरदेसाई जी. एस.	-	मुसलमानी रियासत भाग १ व २
3	लेले माधवराव व्ही.	-	विजयनगर साम्राज्याचा इतिहास
4	सरदेसाई जी. एस.	-	हिंदुस्थानचा अर्वाचीन इतिहास, मुसलमानी रियासत
5	वेद्य सी. व्ही.	-	मध्ययुगीन भारत
6	दिक्षीत नि. सी.	-	मध्ययुगीन भारत
7	पानसे मु. गो.	-	यादवकालीन महाराष्ट्र
8	ब्रम्हानंद देशपांडे	-	देवगिरीचे यादव

HISTORY SYLLABUS IIND

OR

PAPER NO. VI - BRITISH RULE IN INDIA (A.D. 1757 A.D. 1857)

Sr.No	Name of the Chapter	Periods Alloted
1	Advant and foundation of British rule in India : A) Political condition of India during 18 th Century B) Battle of Plassey	12
2	Review of administrative policies of colonial rule : From Clive to Canning	10
3	Economic policy of the colonial rule A) Policy towards Indian Industries. B) Policy towards Indian agriculture. C) Monopoly in trade and commerce	12
4	Expansion and consolidation of British rule : British dream of empire building in India. Annexation of Awadh, Panjab, Rajasthan, Mysore, Kerala and defeatn of Marathas – (a brief	14
5	Uprising of 1857 : Causes, course and consequences	12
	Total Period	60

HISTORY SYLLABUS IIND

OR

PAPER NO. VI – BRITISH RULE IN INDIA (A. D. 1757 – A. D. 1857)

SUGGESTED READINGS :

1	Bipinchandra, Dr. Sen S. N	-	Modern India
2	Desai A. R.	-	Social Background of Indian Nationalism.
3	Robert P. E.	-	British India
4	Tarachand	-	History of the Freedom movement in India Vol.I&II
5	Dutt R. C.	-	Economic History of India – Early British Rule.
6	Thomson and Garrot	-	Rise and Fulfilment of British Rule in India.
7	Majumdar R. C. (Ed.)	-	The History and Culture of the Indian People. Vol.IX
मराठी संदर्भ ग्रंथ			
1	आचार्य जावडेकर	-	आधुनिक भारत
2	वैद्य सुमन	-	आधुनिक भारताचा इतिहास
3	सावरकर वि. दा.	-	१८५७ चे स्वातंत्र्य समर
4	फाटक न. र.	-	१८५७ चे शिपाई गर्दी

HISTORY SYLLABUS IIND

SYLLABUS OF B. A. IInd YEAR (HISTORY)

(SEMESTERWISE)

SEMESTER - IVth

PAPER NO. VII – HISTORY OF INDIA (B. C. 300 – A. D.650)

Sr.No	Name of the Chapter	Periods Alloted
1	Sources : Literary And Archaeological Sources	06
2	Brief Survey of Political Changes : Sungas and Kanvas, Allexandar's invasion. Shakas, satavahanas, western Kshtrapas. Kushan, Gupta, Wakataka dynasty, Harsha wqrdhan Sangam age	12
3	Socio – Economic Life : Structure of Society, Social Traditions, Education, Status of women Economic Condition and urbanization.	12
4	Religious life : Propogation of Jainism, Buddhism, Shaivism and Vaishnavism	12
5	Development of Arts and Architecture : Temple Architecture – Evolution of Major regional styles	10
6	Language and Literature – Sanskrit, Prakrit, Kannad and Sangam.	08
	Total Period	60

Total – 60

HISTORY SYLLABUS IIND

PAPER NO. VII – HISTORY OF INDIA (B. C. 300 – A. D. 650)

SUGGESTED READINGS :

1	Majumdar R. C. (Ed.)	-	The history and Culture of Indian People Vol. III & IV
2	Kosambi D. D.	-	The Culture and civilization of Ancient India.
3	Basham A. I.	-	The Wonder that was India
4	Dr. Shaha B. P. & Dr. Behera K. S	-	Ancient History of India.
5	Renou L	-	Religions of Ancient India .
6	Dr. Altekar A. S.	-	The Position of Women in Hindu Civilization.
7	Dr. Altekar A. S	-	Education in Ancient India.
8	Chakravarti K. C	-	Ancient Inaian Culture and civilization.
मराठी संदर्भ ग्रंथ			
1	माझी के. एस. आणि एन. झा	-	प्राचिन भारत का इतिहास
2	धापर रोमिला	-	प्राचिन भारत
3	माटे म. श्री.	-	प्राचीन भारतीय कला
4	कंगले र. पा.	-	प्राचिन भारतीय सभ्यता
5	वर्णेकर श्री. भा.	-	भारतीय धर्म व तत्त्वज्ञान
6	कार्णे पा. बा.	-	धर्मशास्त्राचा इतिहास
7	कुलकर्णी अ. रा.	-	प्राचीन भारत
8	देगलूरकर, डवळीकर, गायकवाड	-	प्राचीन भारताचा इतिहास व संस्कृती
		-	

HISTORY SYLLABUS IIND

PAPER NO.- VIII - HISTORY OF MUGHAL INDIA (A. D. 1526 – A. D. 1757)

Sr.No	Name of the Chapter	Periods Allotted
1	Sources : Literary and Archaeological	06
2	A Brief survey of political History of Mughal period : Babar, Humayun and shersah Sur, Akbar, Jahangir, Shahjahan and Aurangzeb, Later Mughals	10
3	Mughal Administration : A) Civil, Military and Judicial B) Ruling Classes – 1) Nobility, Zamindar, Mansabdar and Jagirdar	12
4	Economic Development : Agriculture Economy – Land Revenue. Trade and Commerce, Currency system, Urbanization.	10
5	Religious and Social Life. A) Religious policies of Mughal Emperor, Impact of Islam. Sufism, Sikhism, Hindu Religion Vaishnav cult. B) Society – Rural and urban ,slavery, Education and statues of Women.	12
6	A) Art and Architecture, School of paintings B) Language and Literature : Sanskrit, Persian and Regional Languages	10
	Total Period	60

HISTORY SYLLABUS IIND

PAPER NO. VIII – HISTORY OF MUGHAL INDIA (A. D. 1526 – A. D. 1757)

SUGGESTED READINGS :

1	Lal K. S	-	Studies in Medieval Indian History, Delhi, 1966.
2	Chitnis K. N.	-	Glimpsis of Medieval Indian Ideas and Institution, Poona, 1981.
3	Chopra P. N. Puri	-	A Social, Cultural and Economic History of India, Vol. II. Delhi,
4	B. N. Das M. N.	-	Macmillon India, 1974
5	. Banerjee A. C.	-	New History of Medieval India. New Delhi, S. Chand and Company, New Delhi 1990.
6	Goldon Stewart	-	The New Cambridge History of India, The Marathas 1600 -1818
7	Lane	-	Poole, Stanley Medieval India London, 1910
8	Lunia B. N	-	Life and Cultural in Medieval India, Indore, Kamal Prakashan, 1978.
9	Mehta J. L.	-	Advanced Study in the History of Medieval India. Vol. III, New Delhi
10	Pande A. B	-	Later Medieval India, Allahabad Central Book Depot. 1970.
11	Chitnis K. N	-	Socio Economic History of Medieval India, New Delhi, Atlantic
12	Prasad Ishwari	-	History of India, Allahabad, 1952
13	Richards J. F.	-	The Mughal Empire, Cambridge, 1994
14	Sarkar Jadunath	-	Mughal Administration, Calcutta, 1963.
15	Sarkar Jadunath	-	Shivaji and his Times. New Delhi, 1973

HISTORY SYLLABUS IIND

16	Sharma S. R.	-	Mughal Empire in India Agra, 1971.
17	Srivastav A. L.	-	The Mughal Empire (1526 A. D. – 1803 A. D.), Agra 1974.
18	Srivastav M.P.	-	Society and Culture in Medieval India (1206 – 1707), Allaahabad
19	Stein Burton	-	Vijaynagar, Cambridge University Press, 1993
20	Asher Catherine	-	New Cambridge History of India : Architecture of Mughal India.
21	C hicherov A. V.	-	India : Economic Developmet in the 16 th to 18 th centures, Moscow,
22	Chopra P. N.	-	Some Ascepts of Society and Culture in the Mughal Age (1526-1707) II nd Edition, Shivaji Agarwal & Co. Ltd,Agra,1963
23	Chopra P. N.	-	Social Life during the Mughal Age, Agra,Shivaji Agarwal :& Co. Ltd. Agra 1963.
24	Habib Irfa	-	The Agrarian System of Mughal India (1556 – 1707) Bombay Asian Publishing House, 1957.
25	Karim	-	A Society and Culture in the Medieval India. Calcutta, 1960.
26	Mujumdar R. C	-	The Mughal Empire, Oxford University Press, 1987.
27	Moosvi Shireen	-	Economy of Mughal Empire, O. U. P. 1987.
28	Moreland H	-	From Akbar to Aurangzeb: A Study in the Economic History, London 1923.
29	. Ojha P. N.	-	Some Aspects of North Indian Social Life 1555-1707,Patna,1961.

HISTORY SYLLABUS IIND

30	Pande A. B.	-	Society and Government
31	Raychoudhari T. & Habib Irfan (Ed.)	-	The Cambridge Economic History of India, London, 1982
32	Sahay R. K.	-	. Education and Learning Among the Great Mughals, 1526-1707, Bombay, 1968.
33	Sharma S. R	-	Mughal Government and Administration, Bombay, 1951.
34	Tarachand	-	society and State in Medieval India, Faridabad, 1961

मराठी संदर्भ ग्रंथ

1	चौबळ जे. एस. (भाषांतरित)	-	असे होते मोघल, म. रा. सा. सं. मंडळ, मुंबई १९८२.
2	राफसेना पी. बी.	-	दिल्ली व शहाजहानचा इतिहास, (फुटे बी. जी. भाषांतरित) १९८७
3	सरदेसाई जी. एस.	-	मुसलमानों रियासतए भाग १ व २, पोप्युलर प्रकाशन, १९९३
4	सरदेसाई जी. एस	-	मराठी रियासत, पोप्युलर प्रकाशन
5	सरदेसाई जी. एस	-	हिंदुस्थानचा अर्बाचीन इतिहास, मुसलमानों रियासत
6	सरकार जदुनाथ	-	मुघल साम्राज्याचा इतिहास भाग ३
7	वेद्य सी. व्ही.	-	मध्ययुगीन भारत

HISTORY SYLLABUS IIND

OR

PAPER NO. VIII - HISTORY OF EARLY MEDIEVAL INDIA (650 – 1200 A. D.)

Sr.No	Name of the Chapter	Periods Alloted
1	Sources and approaches to study early medieval India	10
2	A) Processes and structure of early medieval state with reference to North India: Pratiharas and rise of Rajput dynasties, Western India: Rashtrakuta, Chalukya and South India: Cholas, and Pallava B) Arab Invasion , Invasion of Mahmud Ghazani and Mahammad Ghorl.	14
3	A) Social condition: feudal formation of society, caste proliferation, untouchability, patriarchy, B) Religious movements: Buddhism, Jainism, Shaivism, Vaishnavism, Nath cult, Virshaivism	12
4	Economy in early medieval India: Changing structure of agrarian society, village society, land ownership, Trade and commerce, cities and urbanization	12
5	Cultural Life: literature in Sanskrit and regional languages, Temple architecture, Music and Art.	12
	Total Period	60

HISTORY SYLLABUS IIND

PAPER NO. VIII – HISTORY OF EARLY MEDIEVAL INDIA (650 – 1200 A. D.)

SUGGESTED READINGS :

1	Herman Kulke	-	State in India, 1000 – 1700, OUP, 1995.
2	Synthya Elbot	-	Precolonial India in Practice, OUP, 2001.
3	Chatopadhyaya B. D.	-	Aspects of Rural Settlement and Rural Society in Early Medieval India.
4	Thapar Romila	-	Cultural Past, OUP, 2003.
5	Sharma R. S.	-	Indian Feudalism.
6	Altekar A. S.	-	Rashtrakutas and their Times.
7	Kane P.V.	-	History of Dharmshastra.
8	Gopal L	-	Economic History of Northern India (750 –
9	Harle J. C	-	Art & Architecture of Indian Subcontinent.
10	Srinivasan K.R.	-	Temples of South India
11	Krishna Deva	-	Temples of North India
12	Rao S. R	-	New Trends in Indian Art and Archaeology.
13	Khare G. H.	-	Persian Sources of Indian History.
14	Tripathi R. P	-	Some Aspects of Muslim Administration.
15	Shastri K. A. N.	-	The Cholas.
16	Aiyangar S. k	-	Some Contributions of South India to Indian
17	Ellot & Dowson	-	History of India as told by its own Historian
18	Hiriyanna M	-	Essentials of Indian Philosophy.
19	Subramaniam K. R	-	Origin of Shavism & its History in Tamilnadu.
20	B.P.Majumdar	-	Socio-Economic History of in Tamilnadu.

HISTORY SYLLABUS IIND

21	M.Habib	-	Sultan Mahmud of Ghazni
22	J.Tod	-	Annals and Atiquities of Rajasthan
23	T.V.Mahalingam	-	South Indian polity
24	E.C.Sachau	-	Alberunis India.
25	C.Majumdar	-	The Arab Invasion of India
26	Brown	-	Indian Architecture (Hindu & Buddhism
27	G.Gopalan	-	History of pallava of Kanchi
28	G.Minakshi	-	Administration and social life under pallavas
29	Ramesh K.V.	-	Chalikayas of Vatapi
30	Madan.A.P.	-	The History of Rashtrakutas
31	Nagrajrao M.S.(Ed.)	-	The Chalukayas
32	Dhavalikar M.K.	-	Ajintha – A Cultural study
33	Gopal B.R	-	The Chalukayas of Kalyani and the Kalchuries
34	R.G.Bhandarkar	-	Early History of the Deccan
35	R.D.Banajri	-	The Palas of Bengal
36	J.D.M.Derrett	-	The Hoysalas
37	A.K.Majumdar	-	The Chalukyias of Gujrat
38	N.Venkataramayya	-	The Eastern chalukyias of vengi
39	D.C. Ganguli	-	History of the Parmar Dnnasty
मराठी/हिन्दी संदर्भ ग्रंथ सुची			
1	शिवकुमार गुप्ता (संपादित)	-	उत्तरी भारत का इतिहास - ६५० ते १२००
2	पाठक अ.श.व जामखेडकर अ.प्र.(संपा)	-	महाराष्ट्र : इतिहास-प्राचीन कालखंड-भाग-२

HISTORY SYLLABUS IIND

OR

PAPER NO.VIII-HISTORY OF SOVIET UNION (A.D.1917 A.D 1985)

Sr. No	Name of the chapter	Periods Allotted
1	Russian Revolution of 1917:Background,caurse and consequences	12
2	Leadership of Lenin and Soviet Union(1917-1924)	10
3	Soviet Union under the leadership of stalin: Economic progress Second world War Foreign policy	14
4	Soviet union during the presidency of Khrushchev,Kosygin,Podgorny and Brezney	12
5	Presidency of Gorbachev and distingration of soviet union: A)Changing circumstances B) causes and impacts of disintegration	12
	Total periods:	60

HISTORY SYLLABUS IND

PAPER NO.VII-III STORY OF SOVIET UNION (A.D.1917 A.D.1985)

SUGGESTED READINGS:

1	Carr H.H	-	The Bolshevik Revolution 1917-23(3 Vol.)
2	Hill Christopher	-	Lenin and the Russian Revolution
3	L.I Brazhnev	-	On foreign policy of CPSU and Soviet State
4	L.I Brazhnev	-	On problems of peace and Security
5	Dobb, Maurice	-	Soviet Economic Development
6	Mihail bar	-	Aims and Methods of Soviet Planning
7	Robert North	-	Moscow and the Chinese Communists.
8	J.V. Stalin	-	On the apposition
9	Watson, Seton	-	The Russian Empire
10	Riasanovsky N.V	-	A History of Russia
11	Nove, Alee	-	An economic History of U.S.S.R


Chairman
Board of Studies in History
Dr. Bahadur Anandhar Murumunda
University, Aurangabad

orig. 2015-2016.

B.A. III year
English.

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO. ACAD/SU/Arts/B.A. III Yr. Syll./1/2015

It is hereby notified for information to all the concerned that, on the recommendation of the Faculty of Arts the Academic Council at its meeting held on 30-05-2015 has accepted the **Revised Syllabi** under the Faculty of Arts as under :-

Sr. No.	Name of the Subject	Semester
[1]	Marathi	V & VI
[2]	Hindi	V & VI
[3]	English	V & VI
[4]	Urdu & Arabic	V & VI
[5]	Pali and Buddhism	V & VI
[6]	Sanskrit	V & VI
[7]	Islamic Studies	V & VI

This is effective from the Academic Year 2015-16 & onwards as appended herewith.

All concerned are requested to note the contents of the circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
Ref.No.ACAD/SU/COMM./
2015/2605-3004
Date:- 15-06-2015.

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Director,
Board of College and
University Development.

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned colleges,
Dr. Babasaheb Ambedkar Marathwada University
- Copy to :-**
- 1] The Controller of Examinations,
- 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 3] The Superintendent, [B.A. Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The Record Keeper.

**DR. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY AURANGABAD**



**SYLLABUS
OF
OPTIONAL ENGLISH COURSE (SUBSIDIARY AND MAIN)
FOR
B.A. THIRD YEAR
SEMESTER FIVE AND SIX**

(EFFECTIVE FROM JUNE 2015 AND ONWARDS)

OUTLINE OF B.A. THIRD YEAR OPTIONAL ENGLISH COURSE**SEMESTER FIVE**

Paper No.	Paper Title	Paper Code	Paper Type
IX	Twentieth Century English Literature	OPE-5	Subsidiary
X	Introduction to Literary Criticism and Terms	OPE-6	Subsidiary
XI(A)	American Literature OR	OPE-7	Main
XI(B)	Indian Writing in English		
XII	Project Work on History of English Literature (from Renaissance Age to the Age of T.S. Eliot)	OPE-8	Main

SEMESTER SIX

Paper No.	Paper Title	Paper Code	Paper Type
XIII	Twentieth Century English Literature	OPE-5	Subsidiary
XIV	Introduction to Literary Criticism and Terms	OPE-6	Subsidiary
XV(A)	American Literature OR	OPE-7	Main
XV(B)	Indian Writing in English		
XVI	Project Work on History of English Literature (from Renaissance Age to the Age of T.S. Eliot)	OPE-8	Main

SYLLABUS
B.A. THIRD YEAR OPTIONAL ENGLISH COURSE
(MAIN AND SUBSIDIARY)

Semester Five and Six

The course of B.A. Third Year Optional English is grouped into two sections, one is the Subsidiary and the other is the Main. The Subsidiary English Course consists of two papers to be studied in two semesters and the Main English Course too consists of two papers to be studied in two semesters. Thus B.A. Third Year Optional English Course together with the Subsidiary and the Main comprises of four papers to be studied in Semester Five and Six. The Subsidiary group of papers is compulsory for the students and the Main group of papers is optional. Paper Nos. XII and XVI (History of English Literature) from the group Main are for the Project Work to be done and submitted by the students to the concern Department at the end of Semester Six.

AIMS OF THE COURSE:

- 1) To introduce the students to Modern English Literature as production of the age.
- 2) To familiarize the students with the literary terms and introduce to them the various streams in literary criticism and develop in them skills for literary evaluation.
- 3) To help the students to approach and appreciate Indian literature in English and make them see its place among world literature in English.
- 4) To introduce the students to American literature and its diverse cultures reflected in its writing.
- 5) To make the students able to understand the background of English literature and help them to write on its development.

OBJECTIVES OF THE COURSE:

- 1) To make the students understand how the literature of modern period relates to the important trends of the period.
- 2) To make the students aware of the fact that all readers are critics and introduce them to basic texts in criticism while developing critical thinking in them.
- 3) To introduce the students to the thematic concerns, genres and trends of both Indian Writing in English and American Literature.
- 4) To lead the students to see how texts are affected by the context.

COURSE CONTENT

SEMESTER FIVE

PAPER NO. IX: TWENTIETH CENTURY ENGLISH LITERATURE (SUBSIDIARY)

UNIT ONE: POETRY

- TEXT: ELIOT'S POEMS: i) **THE LOVE SONG OF J. ALFRED PRUFROCK** (1917)
ii) **PRELUDES** (1917)

UNIT TWO: DRAMA

- TEXT: G.B. SHAW'S PLAY: **PYGMALION: A ROMANCE IN FIVE ACTS** (first staged in 1914 & pub. in 1916)

UNIT THREE: FICTION

- TEXT: D. H. LAWRENCE'S FICTION: **SONS AND LOVERS** (1913)

PRESCRIBED TEXT BOOKS:

- Jain, Manju. *Selected Poems and Critical Reading of the Selected Poems of T.S. Eliot*. OUP, New Delhi: 1992.
Shaw, G.B. *Pygmalion: A Romance in Five Acts*, Introduction by A.C.Ward. Orient Longman. Hyderabad: 1992.
Lawrence, D.H. *Sons and Lovers*. Kalyani Publishers. New Delhi: 1993.

SUGGESTED CRITICAL READING:

- Stephen, Martin. *An Introductory Guide to English Literature*. Longman York Press. England: 1990.
- Lawrence, Kaven et al. *The McGraw-Hill Guide to English Literature. Vol. Two: William Blake to Lawrence*. McGraw-Hill Publishing Company. New: York: 1992.
- Basu, Pawan Kumar, Edt. *T. S. Elliot: An Anthology of Recent Criticism*. Pencraft International. Delhi: 1993.
- Sarker, Sunil Kumar. *T. S. Eliot: Poetry, Plays and Prose*. Atlantic Publishers and Distributors. New Delhi: 2000.
- Harry, Geoffrey. *Sons and Lovers*. Humanities Press International. Hong Kong: 1987.
- Murfin, Ross C. *Sons and Lovers: A Novel of Division and Desire*. Twayne Publishers. Boston: 1987.
- Kermode, Frank. *Lawrence*. Fontana Modern Masters. Fontana Press. London: 1985.
- Chesterton, G.K. *George Bernard Shaw*. Atlantic Publishers and Distributors. New Delhi: 1990.

PAPER NO. X: INTRODUCTION TO LITERARY CRITICISM AND TERMS (SUBSIDIARY)

UNIT ONE: ARISTOTLE

TEXT: His **OBSERVATIONS ON TRAGEDY**

UNIT TWO: SIR PHILIP SIDNEY

TEXTS: His **CLASSICISM** and the **VALUE HIS CRITICISM**

UNIT THREE: LITERARY TERMS

- i) **ALLEGORY** ii) **BATHOS** iii) **BURLESQUE** iv) **CARICATURE**
v) **FLAT AND ROUND CHARACTER** vi) **GENRE** vii) **IMAGERY**
viii) **IRONY** ix) **METAPHOR** x) **MYTH**

PRESCRIBED TEXT BOOKS:

- Prasad, Birjadish. *An Introduction to English Criticism*. Macmillan Publishers India Ltd. Delhi: 2012.
- Gray, Martin. *A Dictionary of Literary Terms*. Pearson Education

Ltd.New Delhi:2011.

SUGGESTED COMPLIMENTARY READING:

Longman and Andrew. *An Introduction to Literary Criticism*.

Doaba Book House. Delhi: ---.

Chakrabarti, Piyas. *Anthem Dictionary of Literary Terms and Theory*. Anthem Press. Delhi: 2006.

Peck, John and Coyle Martin. *Literary Terms and Criticism*. Third Edition. Palgrave. China: 2002.

PAPER NO. XI(A): AMERICAN LITERATURE (MAIN)

UNIT ONE: POETRY

TEXT: EMILY DICKINSON'S POEMS:

- i) **THERE CAME A WIND LIKE A BUGLE**
- ii) **APPARENTLY WITH NO SURPRISE**
- iii) **THEY SAY THAT "TIME ASSUAGES"**
- iv) **"HOPE" IS THE THING WITH FEATHERS**
- v) **THE HEART ASKS PLEASURE FIRST**

UNIT TWO: DRAMA

TEXT: EUGENE O'NEILL'S PLAY: **THE HAIRY APE** (1921)

UNIT THREE: FICTION

TEXT: MARK TWAIN'S FICTION: **THE ADVENTURES OF HUCKLEBERRY FINN** (1884)

PRESCRIBED TEXT BOOKS:

Oliver, Egbert S.Edt.*American Literature: 1890-1965: An Anthology*. Eurasia Publication House (Pvt.) Ltd. New Delhi: 1994.

O'Neill, Eugene. *The Hairy Ape: A Comedy of Ancient and Modern Life*. B.I. Publications Ltd. Bombay: 1990.

Twain, Mark. *The Adventures of Huckleberry Finn*. USB Publisher' Distributors Ltd. New Delhi: 1992.

SUGGESTED CRITICAL READING:

Cunliffe, Marcus. *The Literature of the United States*.4 Edition.

Penguin Books. Englan:1991.

- Gray, Richard. *A History of American Literature*. Blackwell Publishing. USA: 2004.
- Gupta, Monika. *The Plays of Eugene O'Neill: A Critical Study*. Atlantic Publishers and Distributors. New Delhi:2001.
- Agrawal, R.K. *The Poetry of Emily Dickinson: Major Themes and Paradoxical Vision*. Radha Publication. New Delhi: 1993.
- Kar, P.C, Edt. *Mark Twain: An Anthology*. Pencraft International. Delhi: 1992.
- Mohan, T.M.J. Indra. "O'Neill's *The Hairy Ape* as a Reflection of Contemporary Society". *Studies in Literature in English*. Vol.X. Mohit K. Ray, Edt. Atlantic Publishers and Distributors. New Delhi: 2005.
- Patil, Mallikarjun. "*The Hairy Ape*: A Critique of American Capitalism". *Studies in Literature in English*. Vol.XV. Mohit K. Ray, Edt. Atlantic Publishers and Distributors. New Delhi: 2009.
- Rao, S. Prakash. "Mark Twain: *The Adventure of Huckleberry Finn*". *Current Perspective on American Literature*. Atlantic Publishers and Distributors. New Delhi: 1995.
- Patil, Mallikarjun. *Studies in American Literature*. Atlantic Publishers and Distributors. New Delhi: 2009. (for *Huck Finn*, *The Hairy Ape*)

OR

PAPER NO.XI (B): INDIAN WRITING IN ENGLISH (MAIN)

UNIT ONE: POETRY

TEXT: NISSIM EZEKIEL'S POEMS:

- i) **VERY INDIAN POEM IN INDIAN ENGLISH**
- ii) **NIGHT OF THE SCORPION**

UNIT TWO: DRAMA:

TEXT: VIJA TENDULKAR'S PLAY: **SILENCE! THE COURT IS IN SESSION** (1978)

UNIT THREE: FICTION

TEXT: RAJA RAO'S FICTION: **KANTHPURA** (1938)

PRESCRIBED TEXT BOOKS:

Peeradina, Saleem, Edt. *Contemporary Indian Poetry in English: An Assessment and Selection*. Macmillan India Ltd. New Delhi: 2008.

Tendulkar, Vijay. *Silence! The Court is in Session*. Trns. by Priya Adharkar. OUP. Calcutta: 1978.

Rao, Raja. *Kanthapura*. Orient Paperbacks. Delhi: 1971.

SUGGESTED CRITICAL READING:

Sing, K.K. *Indian English Poetry After Independence*. Book Enclave. Jaipur: 2012.

Gopal, N.R. and Sachar, Suman. *Indian English Poetry and Fiction: A Critical Evaluation*. Atlantic Publishers and Distributors. Delhi: 2000.

Dwivedi, Suresh C, Edt. *Perspective on Nissim Ezekiel*. Kitab Mahal. New Delhi: 1989.

Raghu, A. *The Poetry of Nissim Ezekiel*. Atlantic Publishers and Distributors. Delhi: 2002.

Narayan, Shyamala A. *Raja Rao: Man and His Work*. Sterling Publishers Pvt. Ltd. New Delhi: 1988.

Dayal, P. *Raja Rao: A Study of His Novels*. Atlantic Publishers and Distributors. New Delhi: 1991.

Dey, Esha. *The Novels of Raja Rao: The Theme of Quest*. Prestige. New Delhi: 1972.

PAPER NO.XII: PROJECT WORK ON HISTORY OF ENGLISH LITERATURE (MAIN) (from Renaissance Age to the Age of T.S. Eliot)

The Project Work is to be done by the students themselves seeking guidance from the head or, the concerned teacher to complete it. It shall be **written** by the students on the papers provided by the

University/ College or recommended by the teacher. The completed Project shall be submitted by them to the concerned Department during the period of the sixth semester. It carries hundred marks which will be given after the evaluation of it. The length of the project shall be moderate or, matching to its topic. The students have to do the certain tasks during the fifth semester as mentioned bellow.

TASK I: To know about the Project.

TASK II: To select the topic for the Project.

TASK III: To register the topic.

PRESCRIBED TEXT BOOK:

Sampson, George. *The Concise Cambridge History of English Literature*. Third Edition. Cambridge University Press. New Delhi: 2014.

Wayse Manisha - Understanding theme of desire in Son of Lovers.

SEMESTER SIX

**PAPER NO. XIII: TWENTIETH CENTURY ENGLISH LITERATURE
(SUBSIDIARY)**

UNIT ONE: POETRY

TEXT: W.B. YEATS'S POEMS: i) **EASTER 1916**

ii) **THE SECOND COMING**

iii) **AMONG SCHOOL CHILDREN**

UNIT TWO: DRAMA

TEXT: JOHN OSBORNE'S PLAY: **LOOK BACK IN ANGER** (first staged in 1956 & pub. in 1957)

UNIT THREE: FICTION

TEXT: KINGSLEY AMIS'S FICTION: **LUCKY JIM** (1954)

PRESCRIBED TEXTBOOKS:

Osborn, John. *Look Back in Anger. A Play in Three Acts*. Intro. by P.Sinha and Notes by Nissim Ezekiel. OUP. Bombay:1992.

Jeffares, Norman. *W.B. Yeats: Selected Poetry*. Radha Publishing House. Calcutta: ---.

Amis, Kingsley. *Lucky Jim*. With an Introduction by David Lodge. Penguin Books. Great Britain; 1953.

SUGGESTED CRITICAL READING:

Taneja, G.R. Edit. *W.B. Yeats: An Anthology of Recent Criticism*. Pencraft International. Delhi:1995. Caplan, Ralph.

"Kingsley Amis." *Contemporary British Novelists*. Charles Shapiro, Edt. Southern Illinois Univ. Press. USA: 1976.

Mrs. Ponni, Balchandran. "John Osborne's *Look Back in Anger*. A Clarion Protest". *Twentieth Century Literature in English*. Vol. 2. M.K. Bhatnagar, Edt. Atlantic Publishers and Distributors. New Delhi: 1996.

PAPER NO. XIV: INTRODUCTION TO LITERARY CRITICISM AND TERMS (SUBSIDIARY)

UNIT ONE: WILLIAM WORDSWORTH

TEXTS: i) His **CONCEPT OF POETIC DICTION**

ii) His **CONCEPT OF POETRY**

UNIT TWO: F. R. LEAVIS

TEXTS: i) His **CONCEPTION OF LITERATURE**

ii) His **CONCEPTION OF BUSINESS CRITICISM**

UNIT THREE: LITERARY TERMS

i) **PARADOX** ii) **PERSONIFICATION** iii) **REALISM** iv) **SATIRE**

v) **SENTIMENTALITY** vi) **STYLE** vii) **SYMBOL** viii) **THEME**

ix) **TECHNIQUE** x) **WIT**

PRESCRIBED TEXT BOOKS:

Prasad, Birjadish. *An Introduction to English*

Criticism. Macmillan Publishers India Ltd. Delhi: 2012.

Gray, Martin. *A Dictionary of Literary Terms*. Pearson Education Ltd. New Delhi: 2011.

SUGGESTED COMPLIMENTARY READING:

Longman and Andrew. *An Introduction to Literary Criticism*.

Doaba Book House. Delhi: ---.

Chakrabarti, Piyas. *Anthem Dictionary of Literary Terms and Theory*. Anthem Press. Delhi: 2006.

Peck, John and Coyle Martin. *Literary Terms and Criticism*.
Third Edition. Palgrave. China: 2002.

PAPER NO. XV (A): AMERICAN LITERATURE (MAIN)

UNIT ONE: POETRY

TEXT: ROBERT FROST'S POEMS i) **MENDING WALL**

ii) **ROAD NOT TAKEN**

UNIT TWO: DRAMA

TEXT: TENNESSEE WILLIAMS'S PLAY:

A STREETCAR NAMED DESIRE (1947)

UNIT THREE: FICTION

TEXT: ERNEST MILLER HEMINGWAY'S FICTION: **THE OLD MAN
AND THE SEA** (1952)

PRESCRIBED TEXT BOOKS:

Oliver, Egbert S. Edt. *American Literature: 1890-1965: An
Anthology*. Eurasia Publication House (Pvt.) Ltd. New
Delhi: 1994.

Williams, Tennessee. *A Streetcar Named Desire*. Penguin Books.
England: 2009.

Hemingway, Ernest. *The Old Man and the Sea*. Harper Collins
Publishers India. New Delhi: 1994.

SUGGESTED CRITICAL READING:

Donaldson, Scott. *The Cambridge Companion to Ernest
Hemingway*. Cambridge University Press. New York: 1998.

Dahia, Bhim S. *The Hero in Hemingway: A Study in
Development*. Bahri Publications Pvt. Ltd. New Delhi: 1978.

Sing, Jaspal. *Semiotic Analysis of Hemingway's Old Man and the*

- Sea. Bahri Publications. New Delhi: 1990.
- Balchandran, K. "Tennessee Williams' *A Streetcar Named Desire* as a Domestic Tragedy". *Twentieth Century Literature in English*, Vol. 2. M.K. Bhatnagar Edt. Atlantic Publishers and Distributors. New Delhi:1996.
- Panda, R.N. "Intertextuality of Dramatic Discourse: A Study through... *A Streetcar named Desire*". *Studies in Literature*. Vol. VII. Mohit K. Ray, Edt. Atlantic Publishers and Distributors. New Delhi: 2004.
- Patil, Mallikarjun. *Studies in American Literature*. Atlantic Publishers and Distributors. New Delhi: 2009. (for *The Old Man and the Sea*)

OR

PAPER NO.XV (B): INDIAN WRITING IN ENGLISH (MAIN)

UNIT ONE: POETRY

TEXT: ARUN KOLATKAR'S POEMS i) **THE BOAT RIDE**

UNIT TWO: DRAMA:

TEXT: GIRISH KARNAD'S PLAY: **TUGHLAQ**

UNIT THREE: FICTION

TEXT: U.R. ANANTHAMURTHY'S: **SAMSKARA** Or **A RITE FOR A DEAD MAN**

PRESCRIBED TEXT BOOKS:

Peeradina, Saleem, Edt. *Contemporary Indian Poetry in English: An Assessment and Selection*. Macmillan India Ltd. New Delhi: 2008.

... *Three Modern Plays: Tughlaq, Evam Indrajit, Silence! The Court is in Session*. OUP. India: 2013.

Murthy, U.R. Anantha. *Samskara, A Rite for a Dead Man*. Trans. by AK. Ramanujan. OUP. Delhi: 1992.

SUGGESTED CRITICAL READING:

- Sing, K.K. *Indian English Poetry After Independence*. Book Enclave. Jaipur: 2012.
- Gopal, N.R. and Sachar, Suman. *Indian English Poetry and Fiction: A Critical Evaluation*. Atlantic Publishers and Distributors. Delhi: 2000.
- Vaja, Iros. *Myths in Girish Karnad's Plays: A Critical Study*. Paradise Publishers. Jaipur: 2010.
- Naik, M.K. "The Limit of Human Power: A Comparative Study of *Tughlaq...*". *Studies in Indian English Literature*. Sterling Publisher Pvt. Ltd. New Delhi:1987.

PAPER NO.XVI: PROJECT WORK ON HISTORY OF ENGLISH LITERATURE (MAIN) (from Renaissance Age to the Age of T.S. Eliot)

The students have to submit their projects to the concerned teacher for assessment.

PRESCRIBED TEXT BOOK:

- Sampson, George. *The Concise Cambridge History of English Literature*. Third Edition. Cambridge University Press. New Delhi: 2014.



2nd January 2015
University Campus

Chairman
Board of Studies in English

**APPENDIX-I
QUESTION PAPER PATTERN
SEMESTER FIVE**

**PAPER NO. IX: TWENTIETH CENTURY ENGLISH LITERATURE
(SUBSIDIARY)**

Time: Two Hours.

Marks: 50.

1. Question one will be on Eliot's poems with internal choice
16 Marks.
2. Question two will be on Shaw's play with internal choice
17 Marks.
3. Question three will be on Lawrence's fiction with internal choice
17 Marks.

**PAPER NO. X: INTRODUCTION TO LITERARY CRITICISM AND
TERMS (SUBSIDIARY)**

Time: Two Hours.

Marks: 50.

1. Question one will be on Aristotle with internal choice
17 Marks.
2. Question two will be on Sidney with internal choice
17 Marks.
3. Question three will be on literary terms with internal choice
(Four out of eight) 16 Marks.

PAPER NO. XI (A): AMERICAN LITERATURE (MAIN)

Time: Two Hours.

Marks: 50.

1. Question one will be on Dickinson's poems with internal choice
16 Marks.
2. Question two will be on O'Neill's play with internal choice
17 Marks.
3. Question three will be on Twain's fiction with internal choice
17 Marks.

OR

PAPER NO.XI (B): INDIAN WRITING IN ENGLISH (MAIN)

Time: Two Hours.

Marks: 50.

1. Question one will be on Ezekiel's poems with internal choice
16 Marks.
2. Question two will be on Tendulkar's play with internal choice
17 Marks.
3. Question three will be on Raja Rao's fiction with internal choice
17 Marks.

SEMESTER SIX

**PAPER NO. XIII: TWENTIETH CENTURY ENGLISH LITERATURE
(SUBSIDIARY)**

Time: Two Hours.

Marks: 50.

1. Question one will be on Yeasts' poems with internal choice
16 Marks.
2. Question two will be on Osborne's play with internal choice
17Marks.
3. Question three will be on Amis's fiction with internal choice
17 Marks.

**PAPER NO. XIV: INTRODUCTION TO LITERARY CRITICISM AND
TERMS (SUBSIDIARY)**

Time: Two Hours.

Marks: 50.

- 1.Question one will be on Wordsworth with internal choice
17 Marks.
- 2.Question two will be on Leavis with internal choice
17 Marks.
- 3.Question three will be on literary terms with internal choice
(Four out of eight) 16 Marks.

PAPER NO. XV (A): AMERICAN LITERATURE (MAIN)

Time: Two Hours.

Marks: 50.

- 1.Question one will be on Frost's poems with internal choice
16 Marks.
- 2.Question two will be on Williams' play with internal choice
17Marks.
- 3.Question three will be on Hemingway's fiction with internal
choice 17 Marks.

OR

PAPER NO.XV (B): INDIAN WRITING IN ENGLISH (MAIN)

Time: Two Hours.

Marks: 50.

- 1.Question one will be on Kolatkarr's poems with internal choice
16 Marks.
- 2.Question two will be on Karnad's play with internal choice
17 Marks.
- 3.Question three will be on Murhty's fiction with internal choice
17 Marks.

APPENDIX-II

**MODEL QUESTION PAPERS
SEMESTER FIVE**

**PAPER NO. IX: TWENTIETH CENTURY ENGLISH LITERATURE
(SUBSIDIARY)**

Time: Two Hours.

Marks: 50.

Q.1. Comment upon the various roles Prufrock assumes in the poem. 16 Marks.

Or

'*The Prelude*' is an imagistic representation of urban life'. Justify.

Q.2. Explain how the classical legend is worked out in Shaw's *Pygmalion*. 17 Marks.

Or

Write a note on the transformation of Eliza Doolittle in *Pygmalion*.

Q.3. '*Sons and Lovers* describes Paul Morel's efforts to choose life over darkness'. Elaborate. 17 Marks

Or

Write a note on the working-class background in *Sons and Lovers*.

**PAPER NO. X: INTRODUCTION TO LITERARY CRITICISM AND
TERMS (SUBSIDIARY)**

Time: Two Hours.

Marks: 50.

Q.1. What are the characteristics and constituents parts of a tragedy according to Aristotle?. 17 Marks.

Or

Write a note on Aristotle's idea of the structure and kinds of the plot of a tragedy.

Q.2. What are Sidney's ideas of classicism? 17 Marks.

Or

State the value of Sidney's criticism

Q.3. Explain any four literary terms choosing from the group given below. 16 Marks.

i) allegory ii) flat and round character iii) caricature
iv) genre v) imagery vi) irony vii) myth viii) metaphor

PAPER NO. XI (A): AMERICAN LITERATURE (MAIN)

Time: Two Hours.

Marks: 50.

Q.1. Comment on Emily Dickinson's mystic perception of the world around her. 16 Marks.

Or

Write a note on recurrent themes in Dickinson's poems that you have studied.

Q.2. 'The Hairy Ape' is about Yank's futile attempts at taking revenge on Mildred Douglas'. Justify. 17 Marks.

Or

Write a note on the Yank's character.

Q.3. Write an essay on the friendship between Huck Finn and Jim. 17 Marks.

Or

Sketch the character of Jim.

OR

PAPER NO.XI (B): INDIAN WRITING IN ENGLISH (MAIN)

Time: Two Hours.

Marks: 50.

Q.1. Comment on the speaker's tone in *Very Indian Poem in Indian English*.
16 Marks.

Or

Describe the event of a scorpion's stinging the mother in *Night of the Scorpion*.

Q.2. 'Silence! The Court is in Session begins as a mock trial and ends as the real one with Benare as the victim.' Justify.
17Marks

Or

Write a note on males' attitude towards a woman in the play.
Q.3. Discuss *Kanthpura* as a novel of a remarkable rendering of India's struggle for Independence.
17Marks.

Or

Raja Rao's fascination with Gandhism.

SEMESTER SIX

PAPER NO. XIII: TWENTIETH CENTURY ENGLISH LITERATURE (SUBSIDIARY)

Time: Two Hours.

Marks 50.

Q.1. 'Easter 1916 and *The Second Coming* are Yeats' complex reactions to the contemporary events in his time.' Elucidate.
16 Marks.

Or

Write a note on *Among School Children*.

Q.2. Comment on the marital conflict between Jimmy and Alison in *Look Back in Anger*.
17 Marks.

Or

Write a note on the corporate image of the Angry Young Man in *Look Back in Anger*.

Q.3. Explain Jim Dixon's subversive attitudes in the novel *Lucky Jim*.
17 Marks.

Or

Sketch the character of Jim Dixon as an Angry Young Man.

PAPER NO. XIV: INTRODUCTION TO LITERARY CRITICISM AND TERMS (SUBSIDIARY)

Time: Two Hours.

Marks: 50.

Q.1. Review Wordsworth's concept of poetic diction. 17 Marks.

Or

Explain Wordsworth's concept of poetry.

Q.2. Write a note on F.R. Leavis' conception of literature.
17 Marks.

Or

What is F.R. Leavis' concept of the Business of Criticism?

Q.3. Explain any four literary terms choosing from the group given below. 16 Marks.

i) paradox ii) satire iii) style iv) symbol v) theme vi) technique
vii) wit viii) personification

PAPER NO. XV (A): AMERICAN LITERATURE (MAIN)

Time: Two Hours.

Marks: 50.

Q.1. What message does Frost give in *Mending Wall*?
16 Marks.

Or

Explain how Frost's *Road Not Taken* is related to decision making in life?

Q.2. Do you agree with the view that Blanche's tragedy occurs due to her superior outlook of life?
17 Marks.

Or

Sketch the character of Blanche DuBois as a Southern aristocratic lady

Q.3. How is *The Old Man and the Sea* about man's struggle against nature? 17 Marks.

Or

Write a note on old man's tragic fishing trip in the novel.

OR

PAPER NO.XV (B): INDIAN WRITING IN ENGLISH (MAIN)

Time: Two Hours.

Marks: 50.

Q.1. In '*The Boatride* Kolatkar tries to explore the significance of external facts'. Comment. 16 Marks.

Or

Write a note on a series of scenes in the poem.

Q.2. '*Tughlaq* is a tragedy of idealism'. Support the statement. 17 Marks.

Write a note on Azam and Aziz as comic characters in the play.

Q.3. '*Samskara* or *Rite for a Dead* is about decaying Brahmin colony in a south Indian village.' Elucidate. 17 Marks.

Or

Write a note on Priests' community in the village.

S*/-170415/-

orig. 2015-2016

B.A. III year.

Political Science

T.B.A. Political Science IIIrd Yr. Sem - 1 -

D-30th May, 2015 AC after Circulation from Circular No 1 & onwards

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/SU/Social Sci./B.A.III Yr. Syll./3/2015

It is hereby notified for information to all the concerned that, on the recommendation of the Faculty of Social Sciences the Academic Council at its meeting held on 30-05-2015 has accepted the revised syllabi as mentioned against their names under the Faculty of Social Sciences as under :-

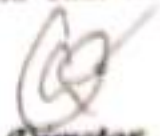
Sr. No.	Name of the Subject	Semester
[1]	History	V & VI
[2]	Economics	V & VI
[3]	Psychology	V & VI
[4]	Geography	V & VI
[5]	Sociology	V & VI
[6]	Home Science	V & VI
[7]	Political Science	V & VI
[8]	Public Administration	V & VI
[9]	Social Work	V & VI
[10]	Philosophy	V & VI
[11]	Military Science	V & VI
[12]	Library & information Science	I to VI Progressively
[13]	B.A. Travel and Tourism Management [Optional]	I to VI Progressively
[14]	Thoughts of Mahatma Phule & Dr. Ambedkar	V & VI effective from 2016-2017 & onwards

This is effective from the Academic Year 2015-16 & onwards as appended herewith.

All concerned are requested to note the contents of the circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
Rtz.No.ACAD/SU/SOCIAL SCI./
2015/3310-709

Date:- 16-06-2015.


Director,
Board of College and
University Development.

S-30th May, 2015 AC after Circulars from Circular No.1 & onwards

- 4 -

:: 2 ::

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned colleges,
Dr. Babasaheb Ambedkar Marathwada University

Copy to :-

- 1] The Controller of Examinations,
- 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 3] The Superintendent, [B.A. Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The Record Keeper.

S*/-160615/-

**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Syllabus of

B.A. III YEAR

Political Science

Semester-V & VI

[Effective from 2015-2016 onwards]

[Signature]
DR. POKALE K.G.

B.A. III Yr. sem V & VI Syllabus of Political Science.doc

- 1 -

**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad**

Political Science

Revised Syllabus of B.A. Degree (Semester Pattern)

B.A. Third Year

Effective from Academic Year 2015-16

Semester V

- Pol - 109 : Indian Political Thinkers
- Pol - 110 : Western Political Thinkers
- Pol - 111 : Political Ideologies

Semester VI

- Pol - 112 : Indian Political Thinkers
- Pol - 113 : Western Political Thinkers
- Pol - 114 : Political Ideologies

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1

B.A. THIRD YEAR

Semester V

Effective from Academic year 2015-16

Paper Code: Pol -109

INDIAN POLITICAL THINKERS

Total : 50 Marks

Periods: 60

1.Raja Ram Mohan Roy

- 1.1 Architect of Indian Renaissance
- 1.2 Views on Religion
- 1.3 Social and Political ideas

2.DayanandSaraswati

2.1 Religious and Social Thought

2.2 Political Thought

3. Gopal Krishna Gokhale

- 3.1 Social and liberal ideas
- 3.2 Nationalist thought

4. LokmanyaTilak

- 4.1 Views on Nationalism
- 4.2 Political Ideas – Four point Program
- 4.3 Views on Social Reform

B.A. III Yr. sem V & VI Syllabus of Political Science - 6

- 1 -

5. Mahatma Gandhi

5.1 Views on Religion

5.2 Concept of Satya, Ahimsa and Satyagraha

5.3 Concept of Ram Rajya

SUGGESTED READINGS:

1. Alutkar A. S., : State and Government in Ancient India, Delhi Motilal Banarsidas, 1958.
2. A. Appadurai, : Indian Political Thinking, Oxford Press.
3. R. P. Kangle, : Arthashastra of Kautilya, Delhi, Motilal Banarsidas, 1965.
4. K. P. Karunakaran, : Indian Politics from Dadabhai Naoroji to Gandhi : A Study of Political Ideas of Modern India New Delhi,
5. B.R. Nanda, : Gokhale, Gandhi and Nehru : Studies in Indian Nationalism, London, Allan and Unwin, 1974.
6. V. P. Varma, : Modern Indian Political Thought.
7. K. K. Kavlekar & : Political Ideas and Leadership of Babasaheb Ambedkar.
A. S. Chousalkar (Ed.)
8. Bose N. K., : Studies in Gandhism
9. Bhattacharya G. P., : Evolution of Political Philosophy of M. N. Roy.
10. Jatava D. R., : The Political Philosophy of Dr. B. R. Ambedkar, Phoenix Publishing Agency, Agra, 1986.
11. Das N. N., : The Political Philosophy of Jawaharlal Nehru, 1961
12. Prasadchandra Dev, : Political Ideas of Dr. Ram Manohar Lohia, New Delhi, Commonwealth, 1989.

B.A. III Yr. sem V & VI Syllabus of Political Science for

- 2 -

13. D. R. Bhandarkar, : Some Aspects of Ancient Hindu Polity.

14. Ram Manohar Lohia, : The Wheel of History, Hyderabad, Lokhansiddhi, 1963.
-- " -- Marx, Gandhi and Socialism,
Hyderabad, Navhind, 1956

15. పురాతన భారత రాజకీయ చరిత్ర - పురాతన భారత రాజకీయ చరిత్ర, ఆంధ్రప్రదేశ్.

16. పురాతన భారత రాజకీయ చరిత్ర, పురాతన భారత రాజకీయ చరిత్ర, పురాతన భారత రాజకీయ చరిత్ర, పురాతన భారత రాజకీయ చరిత్ర, పురాతన భారత రాజకీయ చరిత్ర.

17. పురాతన భారత రాజకీయ చరిత్ర - పురాతన భారత రాజకీయ చరిత్ర, పురాతన భారత రాజకీయ చరిత్ర.

15) = 40 = ఆంధ్ర రాజకీయ చరిత్ర - భారతీయ రాజకీయ చరిత్ర

16) = 40 = డా. నరసింహ ఆచార్య, డా. వివేకానంద - భారతీయ రాజకీయ చరిత్ర

17) = 40 = డా. ఎ. వి. కృష్ణ - భారతీయ రాజకీయ చరిత్ర

Paper Code: Pol -110

WESTERN POLITICAL THINKERS

-Periods: 60 -

Total : 50 Marks
periods: 60

1) **Plato**

Views on: Justice, Communism, Education, Ideal State

2) **Aristotle**

Views on: State, Citizenship, Revolution

3) **Niccolo Machiavelli**

Human Nature, Advice to Prince, Views on Religion and
Morality,

4) **Thomas Hobbes**

Human Nature, Social Contract Theory and
Concept of Sovereignty

5) **John Locke**

Human Nature, Social Contract Theory, Idea of Rights

B.A. III Yr, semV & VI Syllabus of Political Science.doc

- 1 -

SUGGESTED READINGS:

- 1) Francis W. Coker : Recent Political Thought, The World press Pvt. Ltd.,
- 2) V. D. Mahajan and : Recent Political Thought,
R.R. Sethi Premier Publishing Company, Delhi.
- 3) William Ebenstein : Great Political Thinkers - Plato to the present,
Modern Political Thought, The Grate Issues,
11nd Edition, Oxford and IBH Publishing Company.
- 4) R. S. Chourasia : History of Western Political Thought Vol. I & II.
- 5) George H. Sabine : A History of Political Theory,
George G. Harrap and Company Ltd., London.
- 6) Suda J.P. : History of Political Thought

B.A. III Yr. sem V & VI Syllabus of Political Science - III

Paper Code: Pol -111

POLITICAL IDEOLOGIES

(While studying ideologies, stress must be laid on meaning, development, features of the ideology. Taking a critical review of each ideology is also expected)

—Periods: 60

Total : 50 Marks

periods: 60

1. Nationalism
2. Liberalism
3. Democracy
4. Imperialism
5. Feminism

SUGGESTED READINGS:

- 1) B. Funderburk and R.G. Thoburn : Political Ideologies: Left Center and Right New York Harper Collins College publishers 1994
- 2) F. Gellner : Nations and Nationalism Oxford Blackwell 1983
- 3) J. Gray : Liberalism Minneapolis University of Minnesota Press 1996
- 4) M. Harrington : Socialism: Past and Future New York Arcade 1989
- 5) G. Ingersoll and R. K. Mathews : The Philosophic Roots of Modern Ideologies: Liberalism Communism and Fascism Englewood Cliffs NJ prentice Hall 1991.
- 6) N. Kitchen : Fascism London Dent, 1979
- 7) D. McLellan : Marxism after Marx London Macmillan 1975
- 8) E. Miller : Anarchism London J. M. and Sons 1984
- 9) B.K. Gokhale : Political Science

Semester VI

Effective from Academic year 2015-16

Paper Code: Pol -112

INDIAN POLITICAL THINKERS

Periods: 60

Total : 50 Marks

periods : 60

1. Maulana Azad

- 1.1 Views on Religion and Politics
- 1.2 Views on Hindu-Muslim Unity
- 1.3 Idea of Nationalism and "Synthesis Nationalism"

2. Jawaharlal Nehru

- 2.1 Views on Nationalism, Democracy and Socialism
- 2.2 Idea of Secularism
- 2.3 Views on Internationalism

3. M.N. Roy

- 3.1 Critique of Marxism
- 3.2 Radical Humanism or New Humanism
- 3.3 Radical Democracy

4. Dr. Babasaheb Ambedkar

- 4.1 Views on Religion and Society
- 4.2 Idea of Democracy
- 4.3 Economic Thought

5. Jayaprakash Narayan

5.1 Views on Socialism and Democracy

5.2 Idea of Total Revolution

SUGGETED READINGS:

1. Alatzkar A. S., : State and Government in Ancient India, Delhi Motilal Banarsidas, 1958.
2. A. Appadurai, : Indian Political Thinking, Oxford Press,
3. R. P. Kangle, : Arthashastra of Kautilya, Delhi, Motilal Banarsidas, 1965.
4. K. P. Karunakaran, : Indian Politics from Dadabhai Naoroji to Gandhi : A Study of Political Ideas of Modern India New Delhi,
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8. Bose N. K., : Studies in Gandhism
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10. Jatava D. R., : The Political Philosophy of Dr. B. R. Ambedkar, Phoenix Publishing Agency, Agra, 1986.
11. Das N. N., : The Political Philosophy of Jawaharlal Nehru, 1961
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B.A. III Yr. semV & VI Syllabus of Political Science.doc
New Delhi, Commonwealth, 1989.

- 13. D. R. Bhandarkar, : Some Aspects of Ancient Hindu Polity.
- 14. Ram Manohar Lohia, : The Wheel of History, Hyderabad, LohiaSamiti, 1963.
-- " -- Marx, Gandhi and Socialism,
Hyderabad, Navhind, 1956

- 15. རྩོམ་པ་ ལུ་ རྩོམ་ཆེན་ རྩོམ་ཕྱོགས་ རྩོམ་ཕྱོགས་ མཚོ་ལོ་ རྩོམ་ཕྱོགས་
- 16. རྩོམ་པ་ རྩོམ་ཕྱོགས་ རྩོམ་ཕྱོགས་ རྩོམ་ཕྱོགས་ རྩོམ་ཕྱོགས་ རྩོམ་ཕྱོགས་ རྩོམ་ཕྱོགས་
- 17. རྩོམ་པ་ རྩོམ་ཕྱོགས་ རྩོམ་ཕྱོགས་ རྩོམ་ཕྱོགས་ རྩོམ་ཕྱོགས་ རྩོམ་ཕྱོགས་

- 15) आन्ध्र प्रदेश - भारतीय राजकीय विचारवंत,
- 16) डॉ. नवनाथ आश्रय, डॉ. दिनकर तांडे - भारतीय राजकीय विचारवंत
- 17) डॉ. ज. रा. शिंदे - भारतीय राजकीय विचारवंत

B.A. III Yr. sem V & VI Syllabus of Political Science - 2014

Paper Code: Pol -113

WESTERN POLITICAL THINKERS

Total : 50 Marks

Periods: 60

Total : 50

Periods : 60

1. Jean Jacques Rousseau

- 1.1 Human Nature
- 1.2 Social Contract Theory
- 1.3 Idea of General Will

2. John Stuart Mill

- 2.1 Utilitarianism
- 2.2 Idea of Liberty
- 2.3 Representative Government

3. Jeremy Bentham

- 3.1 Views on State, Government and Rights
- 3.2 Ideas on Law and Reform and Punishment
- 3.3 Theory of Utilitarianism

4. Karl Marx

- 4.1 Dialectical Materialism & Materialistic Interpretation of History
- 4.2 Theory of Class Struggle & Surplus Value
- 4.5 Views on State and Revolution

5. Harold Laski

- 5.1 Pluralistic Theory of Sovereignty.
- 5.2 Views on Liberty

SUGGESTED READINGS:

- 1) Francis W. Coker : Recent Political Thought, The World press Pvt. Ltd.,
- 2) V. D. Mahajan and : Recent Political Thought,
R.R. Sethi Premier Publishing Company, Delhi.
- 3) William Eberstein : Great Political Thinkers - Plato to the present,
Modern Political Thought, The Grate Issues,
IInd Edition, Oxford and IBH Publishing Company.
- 4) R. S. Chourasia : History of Western Political Thought Vol. I & II.
- 5) George H. Sabine : A History of Political Theory,
George G. Harrap and Company Ltd., London.
- 6) Suda J.P. : History of Political Thought

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Paper Code: Pol -114

POLITICAL IDEOLOGIES

(While studying ideologies, stress must be laid on meaning, development, features of the ideology. Taking a critical review of each ideology is also expected)

Total : 50 Marks

Periods: 60

1. Socialism
2. Communism
3. Fascism
4. Anarchism
5. Environmentalism

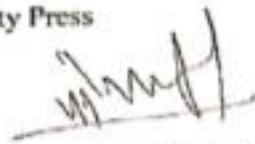
SUGGESTED READINGS:

- 1) B. Funderbunk and : Political Ideologies : Left Center and Right New York
R.G. Thobaben Harper Collins Colleges publishers 1994
- 2) F. Gellner : Nations and Nationalism oxford Blackwell 1983
- 3) J. Gray : Liberalism Minneapolis University of Minnesota Press
1996
- 4) M. Harrington : Socialism : Past and Future, New York Arcade 1989
- 5) G. Ingersoff and : The Philosophic Roots of Modern Ideologies :
R. K. Mathews Liberalism Communism and Fascism Englewood
Cliffs NJ prentice Hall 1991.
- 6) N. Kitchen : Fascism London Dent, 1979
- 7) D. Maclellan : Marxism after Marx London Macmillan 1975

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- 1 -

- 8) E. Miller : Anarchism London J. M. and Sons 1984
- 9) B.K. Gokhale : Political Science
- 10) Benny Joseph : Environmental Studies, Tata McGraw Hill Publication
- 11) Neil Carter : Politics of Environment, Cambridge University Press


DR. POKALE K.G.

org. 2015-2016
B.A. III year.
History.

S-30th May, 2015 AC after Circulars from Circular No.1 & onwards - 3 -
DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/SU/Social Sci./B.A.III Yr. Syll./3/2015

It is hereby notified for information to all the concerned that,
on the recommendation of the Faculty of Social Sciences the
Academic Council at its meeting held on 30-05-2015 has accepted
the revised syllabi as mentioned against their names under the
Faculty of Social Sciences as under :-

Sr. No.	Name of the Subject	Semester
[1]	History	V & VI
[2]	Economics	V & VI
[3]	Psychology	V & VI
[4]	Geography	V & VI
[5]	Sociology	V & VI
[6]	Home Science	V & VI
[7]	Political Science	V & VI
[8]	Public Administration	V & VI
[9]	Social Work	V & VI
[10]	Philosophy	V & VI
[11]	Military Science	V & VI
[12]	Library & Information Science	I to VI Progressively
[13]	B.A. Travel and Tourism Management [Optional]	I to VI Progressively
[14]	Thoughts of Mahatma Phule & Dr. Ambedkar	V & VI effective from 2016-2017 & onwards

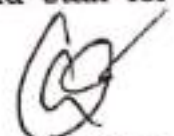
This is effective from the Academic Year 2015-16 & onwards as
appended herewith.

All concerned are requested to note the contents of the circular
and bring the notice to the students, teachers and staff for their
information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/SOCIAL SCI./
2015/3310-709

Date:- 16-06-2015.

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Director,
Board of College and
University Development.

:: 2 ::

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned colleges,
Dr. Babasaheb Ambedkar Marathwada University

Copy to :-

- 1] The Controller of Examinations,
- 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 3] The Superintendent, [B.A. Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The Record Keeper.

..***..

S*/-160615/-

**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD**



SYLLABUS OF

Third Year

B.A. (History)

Semester Vth & VIth

(Effective From: - 2015-2016 & onwards)

HISTORY SYLLABUS

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

SYLLABUS OF B.A.IIIrd

YEAR (HISTORY) SEMESTER SYSTEM

(Effective From: - 2015-2016)

- 1) Each Semester consist of Four papers
- 2) Each paper will be of 50 marks:
- 3) Semester-end examination will be of 90 minutes for each paper.

Paper No.	Title of the paper	Credits Allotted	Periods Allotted
SEMESTER - Vth			
9	Historiography	04	60
10	History of Indian National Movement (A.D. 1885 – A.D. 1947)	04	60
11	Women's Struggle in Modern India OR History of Modern China (A.D. 1900 – A.D.1950) OR History of India (A.D. 1757- 1885)	04	60
12	Project work	04	60
SEMESTER- VIth			
13	Fields of History (Archaeology, Museology and Tourism)	04	60
14	Landmarks in the History of modern world	04	60
15	Glimpses of the History of Marathwada OR Nationalist movements in south - East - Asia	04	60
16	Project work	04	60

NOTE:

1. One period of 50 minutes
2. 60 periods are meant for classroom teaching and Project work.

HISTORY SYLLABUS FINAL

DR. BABASAHEB AMBEDKAR MARATHIWADA UNIVERSITY, AURANGABAD

SYLLABUS OF B.A.III rd YEAR (HISTORY)

(SEMESTER WISE)

SEMESTER Vth

PAPER NO. 09 - HISTORIOGRAPHY

Sr.No.	Name of the Chapter	Periods Allotted
1.	History : Definition, Nature, Scope, Kinds of History, History as a Science and History as an Art	10
2.	History and Other branches of Knowledge : History and Archaeology, History and Anthropology, History and Geography, History and Sociology, History and Economics, History and Political Science.	12
3.	Sources of History: Classification of Sources, Evaluation of sources – Authenticity and credibility	10
4.	Modern Thinkers of History : Ranke, Hegel, Karl Marx, Toyanbee.	10
5.	Major trends in Indian History writing : Orientalist, Imperialist, Nationalist, Marxist, Subaltern.	10
6.	Use & Abuse of History	04
7.	History Research Method	04
Total periods		60

NOTS: 1. 60 periods = 04 credit

HISTORY SYLLABUS FINAL

PAPER NO. 09 – HISTORIOGRAPHY

SUGGESTED READINGS:

1	Aaron Ramond	Introduction to the Philosophy of History
2	Barnes H.E.	A History of Historical Writing : New York 1962
3	Berlin Isaiah	Historical Inevitability, London, 1954
4	Bury J. B.	A History of Freedom of Thought.
5	Burtt/field Herbert	History of Human relations: London 1951
6	Cohen M.R.	The meaning of Human History: Chicago, 1961.
7	Collingwood R.G.	The Idea of History: London 1961
8	Croce Benedetto	History its theory and practice: New York 1961
9	Geast	History as System: New York 1961
10	Geyl Pieter	Use and Abuse of History: New Haven 1955
11	Geyl Pieter	Encounters in History : London, 1963
12	Gooch G.P.	History and Historians in the Nineteenth Century; London, 1952
13	Gottschalk Louis (Ed)	Generalization in the Writing of History; Chicago, 1963
14	Joshi V.V.	The Problem of History and Historiography; Allahabad, 1946
15	Lewis H.D.	Freedom and History London, 1962
16	Mises L.V.	Theory and History; London, 1958
17	Muller H.J.	The Use of the Past; New York 1957
18	Popper K.R.	The Poverty of Historicism; London, 1957
19	Randall J.H.	Nature and Historical Experience: New York, 1962
20	Russel Bertrend	Understanding History: New York 1957
21	Thomson J.W.	History of Historical Writing; New York, 1948
22	Toynbee A.J.	Civilization of Trial; New York 1948
23	R.C.Majumdar & A.N. Shrivastav	Historiography; Surjeet Book Depot, Delhi, 1974
24	E.H. Carr	What is History; Continental Publisher, 1954.
25	Sen S.P. (E.d)	Historians and Historiography in Modern India.
26	B. Shaikh Ali	History its theory and method; Macmillan India Ltd. Madras, 1978
27	K.N. Chitnis	Research Methodology in History; Pune 1979
28	Gardiner	Theories of History
29	Gardiner	Guide to Historical Method

मराठी हिंदी संदर्भ ग्रंथांची सूची :

१	ई. एच. कार ग्रहकारक प्रा. वि. गो. लेले	इतिहास म्हणजे काय लॉरेंटजेन्टल प्रकाशन, पुणे
२	मार्टन चार्ल्ड	इतिहासाचा इतिहास हबिचाना साहित्य अकादमी बंकिमड, १९६६
३	डी. गोविंदचंद्र पांडे	इतिहास स्वरूप एवं सिध्दांत माजराज हिंदी ग्रंथ अकादमी, जयपुर १९६६
४	टी. टी. कोशांबी	पुराणकथा व काश्तकथा
५	इ. वि. कोतकर	इतिहासतील ग्रंथसंग्रह
६	म. न. जामे	शासन चिंतित्वा लोकायतव ग्रंथ, मुंबई १९७५
७	वि. क. घाटे	इतिहास शास्त्र आणि कालक्षेत्रज्ञान

			प्रकाशन, पुणे.
८	प्रभाकर देव		इतिहास । एक शास्त्र-कल्पना प्रकाशन, गोवर्गसाहू
९	सदाशिव आठवले		इतिहासचे तत्त्वज्ञान-प्रज्ञा पाठशाळा मंडळ, पार्श्व १९९०.

UNIVERSITY OF CALICUT

PAPER NO. 10 : HISTORY OF INDIAN FREEDOM MOVEMENT (A.D. 1885-A.D. 1947)

Sr. No.	Name of the Chapter	Periods Allotted
1	Background - Nature, policies and administration of British rule in India.	10
2	Rise of Nationalism in India - Causes and Development.	08
3	Indian National Congress and National movements A) Origin of Indian National Congress, B) Leadership of moderates and extremists.	10
4	Revolutionary movements Rise, nature and importance of the revolutionary movement. Role of women in Indian freedom movement.	6 4
5	Nationalist movement under the leadership of Mahatma Gandhi.	10
6	Rise of communalism leading partition, and independence of India.	12
	Total Periods :	60

NOTE:

- 1] 60 periods = 04 credits

HISTORY SYLLABUS (2014)

PAPER NO. 10 : HISTORY OF INDIAN FREEDOM MOVEMENT (A.D. 1885-A.D. 1947)

SUGGESTED READINGS:

1	Chandra Bipin	Communalism in Modern India
2	Chandra Bipin	The rise and Growth of Economic Nationalism in India.
3	Das M.N.	Economic and Social Development of Indian under the British Rule.
4	Desai A.R.	Social Background of Indian Nationalism
5	Datta K.K.	A Social History of Modern India
6	Dutt R.C.	Economics History of India
7	Jones Kenneth	Social and Religious Reform Movement in Modern India.
8	Joshi P.C.(ed.)	Rem-mohan Roy and the Process of Modernization of India.
9	Joshi P.C.	Rebellion
10	Joshi P.C.	Land Reforms in India-Trends in Perspective
11	Gadgil D.R.	Planning and Economics policy of India.
12	Raychaudhari Tapan (ed.)	Indian Economy in the 19 th Century : A Symposium.
13	Ravinder Kumar (ed.)	Social History of Modern India.
14	Ravinder Kumar	Essays on Gandhian Politics
15	Kumar Ravinder	Essays in the Social History of Modern India.
16	Kumar Ravinder	Western Indian in the 19 th Century
17	Roy Tirthankar	The Economic History of India 1857-1947
18	Sarkar Sumit	Modern India
19	Stokes Eric.	Peasants and the Raj ; Studies in Agrarian Society and Peasant Rebellion in colonial India.
20	Griffiths S.P.	The British impact on India.
21	Bueh M.A.	Rise and Growth of Indian Militant Nationalism.
22	S. Gopal	British Policy in India
23	C. Heimsant	Indian Nationalism and Hindu social Reform
24	K.P. Kurunakaran	India In World Affairs.
25	B.R. Nanda (Ed.)	Indian Foreign Policy – the Nehru Years.
26	V.P. Menon	Integration of the Indian States.
27	V.P. Menon	Transfer of power in India.
28	Paresh C.N.	Sardar Vallbhhai
29	Vakil C.N.	Industrial Development of India, Policy and Problems.
30	Kishore Brij and Sing B.P.	Indian Economy through the Plans
31	Singh V.B. (Ed)	Economics History of India 1857-1956
32	Forbes A.	The Afgan Wars
33	Baden Powell B.H.	Land Systems of British India.
34	Dharem Kumar (Ed)	The Cambridge Economics History of India Vol.II 1757-1957
35	Desai A.R.	Peasant Struggles in India.
36	Datta R. Palme	India Today
37	Dhanagare D.N.	Peasant Movements in India.
38	Datta K.K.	Renaissance, Nationalism & Social Changes in Modern India.
39	Natrajan J.	History of Indian Journalism
40	Sanial S.L.	History of Press in India.

41	Majumdar R.C.	History and Culture of Indian People Vol. 9,10,11
42	Chintamani C.Y.	Indian Railways
43	Bipin Behari	Economic Growth and Technology Change in India.
44	Datta V.P.	India's Foreign Policy, New Delhi 1987
45	Rao M.S.A.	Social Movements in India Vol. I & II
46	Tara Chand	History of the Freedom Movement in India Vol. I,II,III & IV ; (New Delhi 1983)
47	S.B. Pattabhai	The History of Indian National Congress Vol.I,II
48	Hira Singh	Colonial Hegemony and popular Resistance
49	Rajkumar	Aspects of Economy, Society & Politics in Modern India.
50	Keith A.B.	Constitutional History of India.
51	Agrawal A.C.	India and National Movement.
52	Gadgil D.R.	The Industrial Evolution of India in Recent Times, Fourth edition onform University Press, Calcutta- 1959
53	Gupta D>C.	Indian National Movement and Constitutional Development.
54	Kapur A.C.	Constitutional History of India (1765-1984)

मराठी संदर्भ ग्रंथ :-

१	अध्याय जाधवकर	आधुनिक भारत
२	अनंत शालेराव	डेवळाडू मुक्तालका व मराठघाटा
३	गोविंद शंकरकर	लौनीजी ते नेहरू
४	गोविंद शंकरकर	सर्वांतर भाग १, २
५	धरमल रामकर	धार्मिकताचे जननपर्यंत
६	सा. जो. कोलकर	सर्वतंत्र भारताचा इतिहास
७	विद्याल संकरीकर	भारताची विकेंद्राजिती
८	खैरसाहेब सा. श.	हिंदुकोट शील
९	गर्ग न. सा., सुलकर्णी अ. सा.	भारतीय राज्यघटनेचा इतिहास
१०	कुमार केतकर	कसा सत्तांज्याची
११	प्रधान ग. प्र.	सर्वतंत्र भारताचे महानभारत संघटना प्रकाशन, पुणे १९८९
१२	पैठ, कोठेकर	आधुनिक भारताचा इतिहास
१३	पैठ, कोठेकर	सर्वतंत्र भारताचा इतिहास

HISTORY SYLLABUS FINAL

PAPER NO. 11 – WOMEN'S STRUGGLE IN MODERN INDIA (A.D. 1850- A.D. 1947)

Sr. No.	Name of the Chapter	Periods Allotted
1	Major issues and conception of women's problems in 19 th Century; Child marriage. Sati Tradition. Life of widows. Bans on Woman Education. Secondary position of women in family and Society.	12
2	Women and Social Struggle. a) Approaches- Conservative. Progressive (Pandita Rantabai and D.K. karve). Anticaste (Mahatma Phule, Tarabai Shinde, Dr.B.R. Ambedkar) b) Struggle for Women's education.	14
3	Social reform movement and women's emancipation.	10
4	Women's participation: a) Women in tribal and peasant struggle. b) Women in national struggle for independence c) Women in Caste movements.	14
5	Women and Law: Consent bill. Sharada Act. Patel bill.	10
Total periods :		60

NOTE:

- 1] 60 periods = 04 credits

PAPER NO. 11 – WOMEN'S STRUGGLE IN MODERN INDIA (A.D. 1859- A.D. 1947)

SUGGESTED READINGS:

1	Agnew Vijay	Elite Women in Indian Politics, Delhi Vikas 1979
2	Ahokar A.S	The Position of women in Hindu Civilisation, Motilal Banarsidas, Delhi, 1978
3	Basu A. and Ray B	Women's Struggle - A History of the all India Women Conference, 1927-1990, Delhi, Manohar 1990
4	Borhwick M.	The Changing Role of women in Bengal 1849-1905, Princeton University Press, Princeton, 1984
5	Chakravarti Uma and Kumkum Roy	Breaking out of invisibility - Rewriting the History - Changing perception of the Role of women in Politics and Society, UNESCO, Berg, 1988
6	Dehejia, Vidya	Representing the Body - Gender Issues in Indian Art, Kali for women, Delhi 1997
7	Desai Neera	Women in Modern India, Vora, Mumbai-1957
8	Everett, Jana M	Women and Social Change in India, Heritage Publisher, Delhi, 1981
9	Forbrd, Geraldine	Women in Modern India; Cambridge University Press, Cambridge, 1996.
10	Jayawardene Kumari	Feminism and Nationalism in Third World; Zed Books, London, 1986
11	Joshi V.C. (Ed.)	Rammohan Roy and the Process of Modernisation in India, Delhi- 1975
12	Krishnamurty J. Ed.	Women in Colonial Indian : Essay on Survival work and the State; OUP, Delhi, 1989
13	Lealie I, Julia Ed	Eoles and Rituals for Hindu Women; Frieleigh dickinson University Press, Rutherford, N.J. 1991
14	Liddle and Rama Joshi	Daughters of Independence : Gender, Caste and Class in India; Zed Books London, 1986
15	Mani, Lata	Contentious Tradition : The Debate on Sati in Colonial Indian, University of California Press, Berkeley, 1998
16	Mazumdar, Vina	Symbols of Power : Studies on the Political Status of Women in India; Allied Delhi, 1979.
17	Minault Gail	Scheduled Scholars : Women's education and Muslim Social Reform in Colonial India, OUP, Delhi, 1998
18	Hate Chandrakala	Changing Status of Women
19	Randive Vimal	Women Workers of India
20	Kaul Krishana Prasad	The Position of Women Indian Society
21	Minault Gail	The Extended family : Women and Political Participation in India and Pakistan; South Asia Book, Columbia Mo, 1981
22	Misra Rekha	Women in Mughal India (1526-1748 AD) Munshiram Manoharlal, Delhi, 1967
23	Murshid Ghulam	Reactant Debutante : Response of Bengali Women to Modernization 1849-1905 Rajshahi University,

		Rajshahi, 1983
24	Nair Janaki	Women and Law in Colonial India: Social History, Kali for Women; Delhi 1996
25	Nanda B.R. (Ed)	Indian Women : From Purdah to Modernity; Vikas, Delhi, 1976
26	Ray, Bharati and Basu, Aparna (Ed)	From freedom to Independence women and fifty years of India's Independence: OUP Delhi, 1999
27	Sangari, Kumkum and Sudesh Vaidya	Recasting Women; Essays on Colonial History, Kali for Women: Delhi, 1990
28	Siha, Mrianlini	Colonial Masculinity: Manchester University Press, Manchester 1995
29	Taru, Susie and K. Lalita (eds)	Women Writings in Indian Vol. I 600 BC to the early Twentieth Century, Vol. II The Twentieth Century 1960-1991
30	Towards Equality:	Report of the Committee on the Status of women in India; Delhi, 1975.

मराठी लिहिण्याची संकल्पना याच नुषी

१	यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ	आधुनिक भारतातील स्त्री जीवन
२	के. ना. टिळक	महाराष्ट्राची तेजस्विनी घंटिता समाचार
३	डॉ. कमलाबाई देशपांडे	विजयांचला कावळ्याची चाटघाल
४	मंगलशेठे जावटे	विद्यया विद्यात चळवळ
५	लक्ष्मीबाई टिळक	स्त्रुति दिवले
६	समाचार्य मालडे	आमच्या आधुन्यातील काही आठवणी
७	डॉ. शशोजिनी भावरा	स्त्री शिक्षणाची चाटघाल
८	गोकुळपती पद्मलेकर	झेव्हा माणुस जागा होतो
९	विद्यया मा. श्री.	स्त्री समाचार्य मालडे, व्यक्तित्वा आणि चर्चा
१०	जवाहरकर रोहिणी	चौधतर लक्ष्मी च बाणी खांशी रेजिमेंट
११	आमचत कमल च इतर	स्त्री चळवळीची चाटघाल
१२	लिमये जीला, देशपांडे मिलिना	राष्ट्रीय स्तरांतज्याची चळवळ, कलित च स्त्री मुक्ति

OR

HISTORY SYLLABUS

PAPER-11 HISTORY OF MODERN CHINA (A.D. 1900- A.D.1950)

Sr.No.	Name of the Chapter	Period Allotted
1	Political and Economic conditions of China during first two decades of 20 th Century. a) Economic supremacy of the western countries. b) Republican government initiated by Dr. Sun-Yet Sen.	10
2	May 4 th movement (1919) : Causes, nature and importance	08
3	Foundation of Chinese communist party: It's relations with cominter and Kuomintang.	10
4	Kuomintang- Communist Struggle (1928-1935)	10
5	China during the period between (1936 to 1945) a) Second Sino – Japanese War. b) Second World War and China c) Civil war and the defeat of Kuomintang.	12
6	Mao Zedong and his role in the communist revolution in china	10
Total periods:		60

NOTE:

- 1) 60 periods = 04 credits

OR

HISTORY SYLLABUS FINAL

HISTORY OF MODERN CHINA (A.D. 1900- A.D.1950)

SUGGESTED READING:

1	Paul H. Clyde	The Far East
2	Immanuel C.Y. Hus	The Rise of Modern China
3	R.S. Gupte	History of Modern China
4	Edger Snow	The Red Star over China
5	Edger Snow	Red China Today
6	B.E. Shinde	Mao Ze dong and the Communist Policies.
7	Allen George	A short History of Modern China
8	Bianco Lucien	Origins of the Chinese Revolution.
9	Chen Jerome	Mao Tse-Tung and China Revolution
10	Chesneaux Jean et al	China from opium Wars to Revolution
11	Chesneaux Jean et al	China from the 1911 Revaluation to liberatory
12	Fairbank Johnk and Others	East Asia Tradition and Transformation.
13	Petter Nathaniel	The Far East: A Modern History
14	Franz Schruman and Others	Republican China
15	Franz Schruman and Others	Communist China

मराठी हिन्दी संकर्म वंघ सूची

1	यामशास्त्री	महो लालीचे टिज व धरिज
२	वि.भा. कजिटकन	महो लालीचे टिज व धरिज
३	अरुण भाट्ट	आणि इमन जगल झाला
४	र.भा. सुपे	पुर्व आशियाचा आधुनिक इतिहास

HISTORY VILLAGE KUMAR

OR

PAPER-11 HISTORY OF INDIA (A.D. 1757- 1885)

Sr.No.	Name of the Chapter	Period Allotted
1	Advant of European Powers in India Indian Polity & Economy in the Mid-Eighteenth Century	09
2	Expansion and consolidation of British Power Bengal, Punjab, Audh, Mysore, Maharashtra.	09
3	Early Phase of British Rule I. Administrative & Judicial Structure II. Education III. Press IV. Activities of Missionaries	08
4	Economy I. Agrarian Settlement - Permanent Settlement Ryotwari Settlement & Mahalwari system Commercialization of agriculture II. Traditional handierft industry & Question of de - industrialization. III. Railway, Post & Telegraphs. IV. Large Scale Industry- Cotton, Jute Iron & Steel. V. Famine & British Policy. VI. Internal & External Trade .	12
5	Socio- Religions reform Movement Brahmo Samaj Satyshodhak Samaj Arya Samaj Prarthana Samaj	08
6	Resistance to colonial Rule I. Nature to form of Resistance II. Pre-1857 Peasant & Tribble resistance. III. Revolt of 1857 - nature, causes leadership & impact.	09
7	Rise and growth of Indian nationalism Early political organizations & Foundation of Indian National Congress	05
Total periods:		60

NOTE:

1] 60 periods = 04 credits

OR

PAPER-11 HISTORY OF INDIA (A.D. 1757- 1885)

SUGGESTED READING:

1	Desai A.R.	Peasant struggles in India
2	Chandra Bipin	Rise and Growth of Economic Nationalism in India.
3	Chandra Bipin	Modern India
4	Chandra Bipin	Nationalism and Colonialism in Modern India.
5	Datta K.K. (Ed)	A Comprehensive History of India Vol.XI.
6	Gadgil D.R.	Industrial Evolution of India.
7	Dharma Kumar (Ed)	Cambridge Economic History of India Vol.II
8	Dharma Kumar and Desai M. (Ed)	Land & Caste in South India.
9	Eric Stokes	English Utilitarians and India.
10	Gupta P.S.	Imperialism and British Labour
11	Kenneth W. Jones	Socio Religious Movements in India
12	Kenneth W. Jones	The New Cambridge History of India Vol. II
13	Naik J.P. and Nurullah S.	History of Education in India during the British Period.
14	R.C. Dutt	India To-day
15	Ramakrishna Mukherjee	Rise and Fall of East-India Company.
16	Vamandas Basu	Survey of India Social and Economic Condition in the Eighteenth Century (1707-1813)
17	Vamandas Basu	Ruin of Indian Trade and Industry.
18	Bal Krishna	Commercial Relations between India and English.
19	K.N.Pannikar	Culture, Ideology Hegemony Intelligentsia and Social Consciousness in Colonial India.
20	Rosalind O Hanlon	Cast Conflict and Ideology.
21	Metcalfe	Ideologies of Raj.
22	Kope David	British Orientalism and Bengal Renaissance the Dynamics of Indian Modernisation 1713-1835
23	Bhatt V.V.	Aspects of Economic Changes and Policy in India 1800-1900
24	Sen Sunil	Peasant Movements in India.
25	Tapan Raychoudhari & Irfan Hobib	Cambridge Economic History of India. Vol.IX. 1200-c 1750
26	Bagchi A.	Private Investments in India.
27	Pagadi Setu Madhavrao	Eighteenth Century Deccan
28	Romesh Dutt	The Economic History of India. (1757-1837)
29	Charless Heimsath	Indian Nationalism and Hindu Social Reform
30	A.R. Desai	Social Background of Indian- Nationalism.
31	Bhatt V.V.	Aspects of Economic Changes and Policy in India 1800-1900

32	Bhattacharya D.	Concise History of the Indian Economy 1750-1950.
33	Chaudhari K.N. (Ed)	The Economic Development of India under the East India Company 1814-1858
34	Guha Sumit	The Agrarian Economy of the Bombay Deccan
35	Ghosal H.R.	Economic Transition in Bengal Presidency
36	Chattopadhyayn Hariprasad	The Sepoy Mutiny
37	Sen Surendrenath	Eighteen Fifty Seven(1957)
38	Lyall A	The Rise and Expansion of British Dominion in India.
39	Thompson Edward & Garrat G.T.	Rise and Fulfillment of British Rule in India.
40	Phillips C.H.	The East India Company - 1784-1834
41	Mujumdar R.C.	The Sepoy Mutiny & The Revolt of 1857.
42	Wheeler J.T.	Early Records of British India
43	Tripathi A	Trade and Finances in Bengal Presidency (1793-1833)
44	Panikar K.M.	Evolution of British Policy towards Indian States (1774-1858)
45	Dutta R.C.	Famines and Settlements in India.
46	Dutta R.C.	India in the Victorian Age.
47	Dutta R.C.	India under Early British Rule.
48	Tarnchand	History of Indian Freedom Struggle.

PAPER NO. 12 PROJECT WORK

The projects should be based on the following topics

- 1) Forts
- 2) Caves
- 3) Historical Monuments
- 4) Saints
- 5) Museums
- 6) Religious Traditions
- 7) Local History
- 8) Late Prominent Leaders
- 9) Social Workers
- 10) Social Movements at Taluka or District Level
- 11) Inscriptions
- 12) Women Movements at Taluka or District Level
- 13) Peasant Movement
- 14) Labour Movement
- 15) Hyderabad Freedom Struggle
- 16) Temples (Art & Architecture)
- 17) Archives
- 18) Archaeology Sites
- 19) Epigraphy (Coin Study)
- 20) Prominent Historians
- 21) Reporting of the Lectures Series arranged in college.

1. 60 periods are meant for classroom teaching and Project work.

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

SYLLABUS OF B.A.IIIrd YEAR (HISTORY)

SEMESTER SYSTEM

SEMESTER- VIth

PAPER NO. 13 FIELDS OF HISTORY (ARCHAEOLOGY, MUSEOLOGY, TOURISM)

Sr. No.	Name of the chapter	Periods Allotted
	Objective: History is allied and deeply rooted in the various fields of professions. And this course will orient the students in leading and using them as a part of their historical acknowledge.	
1	Archaeology : a) Meaning and object b) Archaeology and Anthropology, Archaeology and Material Sciences. c) A brief history of Indian Archaeology.	15
	Process in Archaeology: a) Search of Archaeological Sites. b) Collection and classification of Archaeological material (remains)	10
2	Museology : a) Definition of museum and Museology. b) Aims and function of History museums. c) Documentation, identification, classification and indexing of the material. d) Use of History Museum.	15
3	Tourism : a) Definition and object of Tourism, role of History in Tourism. b) Distinction between travelers and visitors, excursionist and business tour. c) Motivation of Tourism – Pleasure education, culture, Social, ethic, religion, health, history.	12
4	Types and forms of Tourism: Domestic, regional, national and international.	08
Total periods:		60

NOTE:

- 1] 60 periods = 04 credits

HISTORY SYLLABUS 1988

PAPER NO. 13 FIELDS OF HISTORY (ARCHAEOLOGY, MUSEOLOGY, TOURISM)

SUGGESTED READINGS:

1	D.K. Chakrabarti	History of Indian Archaeology; Mushiram Manoharlal, Delhi- 1988
2	Daniel Glyn	The Origins and growth of Archaeology; Penguin Book, Harmondsworth, 1967
3	Mishra F.	Reserches In Archaeology and Conservation; Sandeep Prakashan, Delhi- 1999
4	Degharkar G.B.	Temple Architecture and Sculpture of Maharashtra; Nagpur- 1974.
5	Fergusson J. & Burgess	Cave Temples of India; London, 1880.
6	Prabhakar Deo	Temples of Marathwada
7	Sankliya and Deo	Indian Archaeology a Review 1957-1958
8	Sankliya, Deo and Ansari	From History to prehistory at Nevasa, Poona, 1960
9	Smita J. Baxi and V.P. Dwivedi	Modern Museum; New Delhi, 1973
10	M.D. Sankaliya	Indian Archaeology Today.
11	A.V. Naik	Archaeology of the Deccan.
12	S.K. Dikshit	Introduction to Archaeology.
13	A.N. Khanna	Archaeology of India.
14	Bhatia A.K.	Tourism in India – History and Development, Sterling, New Delhi, 1978
15	Butler R.W.	The Social implication of Tourism Development, Tourism Research 2, 1974.
16	Cooper C.	Tourism Principles and practices; Pitman, London, 1993.
17	Davis H.D.	Potentials for Tourism of Developing Countries, Finance and Development; London, 1968.
18	Crampon L.T.	Development of Tourism; University of Colorado Press, Colorado, 1963.
19	Seth Prem Nath	Tourism Development, Sterling Publication, New Delhi.
20	Kaul	Dynamics of Tourism; Sterling, New Delhi.
21	Mill and Morrison	The Tourism System and Introductory Text; 1991.
22	P.S. Gill	Dynamics of Tourism – 4 Vols, Anmol Publication.
23	A.P. Singh	Conservation and Museum Techniques; New Delhi, 1987.

सामुदायिक कार्य

1	संस्कृत भाषा	संस्कृत भाषा
2	सं. भा. शैली	संस्कृत भाषा का प्रयोग
3	संस्कृत भाषा का विकास	संस्कृत भाषा का विकास
4	सं. भा. शैली	संस्कृत भाषा का विकास
5	सं. भा. शैली	संस्कृत भाषा का विकास
6	सं. भा. शैली	संस्कृत भाषा का विकास
7	सं. भा. शैली	संस्कृत भाषा का विकास
8	सं. भा. शैली	संस्कृत भाषा का विकास
9	सं. भा. शैली	संस्कृत भाषा का विकास
10	सं. भा. शैली	संस्कृत भाषा का विकास
11	सं. भा. शैली	संस्कृत भाषा का विकास

UNIVERSITY OF DELHI

PAPER NO. 14 - LANDMARKS IN THE HISTORY OF MODERN WORLD

Sr. No.	Name of the Chapter	Period Allocated
1	Renaissance and Reformation in Chapter	10
2	American war of Independence Causes, Course and Consequences	08
3	French Revolution Causes, Course and Consequences	08
4	Industrial Revolution Background, Development, Significance	10
5	European imperialism in Asia & Africa First World War - Causes and Effects	08
6	Russian Revolution of 1917 Causes, Course and Consequences	08
7	Second World War Causes, Course and Consequences	08
Total periods		60

NOTE:

- 1) 60 periods = 04 credits

HISTORY SYLLABUS FINAL

PAPER NO. 14 - LANDMARKS IN THE HISTORY OF MODERN WORLD

SUGGESTED READINGS:

1	Hazen	Modern Europe
2	Grant & Temperley	Europe in 19 th & 20 th Century
3	E.H. Carr	International relation between Two world Wars.
4	Lipson	Europe in the 19 th and 20 th Centuries.
5	H.P.T.Moon	Imperialism and world politics.

मराठी हिन्दी संदर्भ ग्रंथ सूची

१	डॉ. वेंकट सुगल	आधुनिक जग
२	आठपले नकाशिय	आधुनिक युरोप
३	कुलकर्णी अ.रा.उ फडके श्री.रा.	आधुनिक युरोप
४	शिंदेगांधकार ब्राम्हायती	आधुनिक युरोपचा इतिहास
५	गावकपाठ, कडकन, घोसात	आधुनिक जगाचा इतिहास भाग १ व २
६	जयशिंगराय पवार	आधुनिक युरोपचा इतिहास
७	कोलाकर	आधुनिक युरोप
८	हरिहर ठोस	आधुनिक युरोपीय विद्यार्थ्यांकरे

HISTORY (HISTORY)

PAPER NO 15 - GLIMPSES OF THE HISTORY OF MARATHWADA
(U.P. TO A.D. 1948)

Sr. No.	Name of the Chapter	Periods Allotted
1	Political History of Marathwada - A brief Survey.	12
2	Religious movements: Brahminism, Buddhism, Jainism, Mahanubhav, Vaishnavism, Yashwantrao Chavan movement, Sufism	12
3	Art and Architecture, Temple Architecture, Forts.	12
4	Socio-Economical and cultural History of under the Nizam state	12
5	Hyderabad freedom Struggle. Role of all India Scheduled Cast Federation in Hyderabad Freedom Struggle.	12
Total periods :		60

NOTE:

- 1) 60 periods = 04 credits

PAPER NO 15 – GLIMPSES OF THE HISTORY OF MARATHWADA
(U.P. TO A.D. 1948)

SUGGESTED READINGS:

1	Dr. Pathy T.V.	Ellora – a Cultural Study
2	Dr. Deo Prabhakar	Temples in Marathwada
3	Dr. Kate P.V.	Marathwada under the Nizams (1724-1948)
4	Dr. Morvanchikar R.S.	Paithan Through the Ages
5	Dr. Morvanchikar R.S.	The City and Saints
6	Dr. Dhendge B.S.	Freedom Struggle of Marathwada

मराठी □ हिन्दी संदर्भ ग्रंथ सूची

१	प्रा. म. श्री. जाडे	प्राचीन भारतीय चाला
२	प्रा. श्रीशंका गोखले	पुष्पाश्लेषा विद्या
३	डॉ. शां. म. देव	पुनातत्त्व विद्या
४	शि. पु. जोशी	मूर्ती विद्यालय
५	म. श्री. जाडे	मराठपाठशाळे फलपत्रिका
६	पु. म. साहकरजुष्टे	महाराष्ट्र संस्कृती
७	डॉ. सा. श्री. गोवंदीकर	दक्षिण काशी पठण
८	डॉ. सा. श्री. गोवंदीकर	भारतवाहनकालील महाराष्ट्र
९	प्रा. सौ. जामकाडीकर सुलभा	सुपरर्णनवारी तेष
१०	डॉ. कर्णें ब्रह्मपती	मराठी लोकांची संस्कृती
११	पाजरो गु. म.	साइप्रकालीन महाराष्ट्र
१२	देशपांडे अहमजानंद	देशाभिदीसे साइप्र
१३	हनुमन्त धीरजलाल सांकलिया, अधुकर श्रीपाक जाडे	महाराष्ट्रातील पुनातत्त्व
१४	देशपांडे अहमजानंद	शोधसूत्रा
१५	म. के. डवळीकर	पुनातत्त्व विद्या
१६	गोविंद बाबासाहेब बान्सेराई (खंड १)	ब्रिटीश विद्याभारत
१७	गोविंद बाबासाहेब बान्सेराई (खंड २)	ब्रिटीश विद्याभारत
१८	य. वि. फडके (खंड १, २)	विनायका शतकातील महाराष्ट्र
१९	य. वि. फडके (खंड १)	विनायका शतकातील महाराष्ट्र
२०	विष्णू भिकाजी कोलते	बघाजपाठी
२१	लक्ष्मीकांत देशमुख, विला धारुणकर	गुणितनामान
२२	अनंत शालेराव	सधामी राजानंद तीर्थ
२३	प्रा. भगवान काळे	मराठपाठशाळा काल आणि आज
२४	सेतू नाथराव पागडी	जीवनसेतू
२५	शा. कृ. पाघमारे (खंड १)	संघर्ष
२६	विनायकाबाब धारुणकर	स्वातंत्र्य संघर्ष
२७	हनुमंत गणेश वैद्यराव	माने चतुर्न पाहतात
२८	प्रा. भगवान काळे	संयुक्त महाराष्ट्र काल आणि आज
२९	डॉ. ज्योत्सना धारपुरे	अशा खंजलो आम्ही
३०	सफिक इकेमिया	सरकार पटेल आणि भारतीय सुरासमान
३१	मांडेड विल्हा संदर्भ ग्रंथ समिती	महाराष्ट्र राज्य राज्य महोत्सवी

11	सु. अ. जीवनी	प्रकाशना महाराष्ट्र शासकीय संस्कृत संस्थान मुंबई मुंबई, १९५५
12	प्रकाश इतिहास	पिठावले प्रकाश
13	भा. इ. इतिहास	मोहम्मद (अंक १)
14	डा. उमर सुलेमान	मोहम्मद इतिहास
15	इतिहास विज्ञान	महाराष्ट्र शासकीय संस्कृत संस्थान मुंबई
16	इतिहास प्रकाश वि. अ. प्रकाशनालय	महाराष्ट्र शासकीय संस्कृत संस्थान मुंबई
17	इतिहास प्रकाश	महाराष्ट्र शासकीय संस्कृत संस्थान मुंबई
18	डॉ. सुलेमान जी. अ.	महाराष्ट्र शासकीय संस्कृत संस्थान मुंबई

OR

HISTORY SYLLABUS FINAL

PAPER NO. 15 NATIONALIST MOVEMENTS IN SOUTH - EAST - ASIA

Sr.No.	Name of the Chapter	Periods Allotted
1	European colonial rule in South- East- Asia: Nature and Impact	12
2	Rise and growth of nationalist movement: a) Indonesia- ole of Sukarno and Hatta b) Burma- Role of Aung Sun. Dr.Barna	12
3	Rise and growth of Nationalist movements: a) Phillipins b) Indo-China- Rold of Chi Minh	12
4	Modernization programme in Thailand (1851-1910). And Revolution of 1932	
5	Japanese occupation of South-East-Asia during Second World War.	12
Total periods :		60

NOTE:

- 1] 60 periods = 04 credits

OR

HONORARY SYLLABUS FINAL

PAPER NO. 15 NATIONALIST MOVEMENTS IN SOUTH - EAST - ASIA

SUGGESTED READINGS:

1	Harrison B.	A short history of Southeast Asia
2	Sardesai R.R.	Southeast Asia
3	Kahin G	Govt. & Politics of Southeast Asia
4	Cady J.F.	Southeast Asia : Its Historical Development
5	A Doak Darnett	Communist Strategies in Asia
6	Stuart Schram	Marxism and Asia
7	John Bartin and Harry Benda	A History of Modern Southeast Asia
8	Norodom Sihanouk	My War with the CLA
9	Steinberg David J and others	Cambodia, Its People, Society Culture.
10	Bernard , Fall (Ed)	Ho-Chi-Minh on Revolution
11	Lacourtue, Jean	Ho-Chi-Minh
12	D.R.Sardesai	British Trade and Expansion in Southeast Asia.
13	D.R.Sardesai	Southeast Asia, Past and Present.
14	Usha Mahajani	Philippine's Nationalism
15	Pham Van Dong	Selected Writings.
16	Bijan Raj Chatterjee	Last Hundred Years in Far East and Japan
17	Brain Harrison	Southeast Asia
18	Me Vey, Ruth	Rise of Indonesian Communism
19	Fred R. Von Der Mehden	Southeast Asia (1930-1970)
20	Nawaz B. Mody	Indonesia under Suharto
21	R.P.Shinha & Surya	Southeast Asia- People's Struggle and Political Identity
मराठी संदर्भ ग्रंथ सूची		
1	गुप्ते व सुलतानी	आग्नेय आशियाचा इतिहास
2	डा. देवपुजारी	आग्नेय आशिया
3	गो. ना. आंबेकर	आग्नेय आशियाचा इतिहास

PAPER NO. 16 PROJECT WORK

Total Mark – 100

Project weighting – 80

Presentation - 20

1. 60 periods are meant for classroom teaching and Project work.

Dr. 2015-2016
Sociology
B.A. III year

8-30th May, 2015 AC after Circulars from Circular No.1 & onwards

- 3 -

DR. BHASASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/SU/Social Sci./B.A.III Yr. Syll./3/2015

It is hereby notified for information to all the concerned that, on the recommendation of the Faculty of Social Sciences the Academic Council at its meeting held on 30-05-2015 has accepted the revised syllabi as mentioned against their names under the Faculty of Social Sciences as under :-

Sr. No.	Name of the Subject	Semester
[1]	History	V & VI
[2]	Economics	V & VI
[3]	Psychology	V & VI
[4]	Geography	V & VI
[5]	Sociology	V & VI
[6]	Home Science	V & VI
[7]	Political Science	V & VI
[8]	Public Administration	V & VI
[9]	Social Work	V & VI
[10]	Philosophy	V & VI
[11]	Military Science	V & VI
[12]	Library & Information Science	I to VI Progressively
[13]	B.A. Travel and Tourism Management [Optional]	I to VI Progressively
[14]	Thoughts of Mahatma Phule & Dr. Ambedkar	V & VI effective from 2016-2017 & onwards

This is effective from the Academic Year 2015-16 & onwards as appended herewith.

All concerned are requested to note the contents of the circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/SOCIAL SCI./
2015/3310-709

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Director,
Board of College and
University Development.

Date:- 16-06-2015.

:: 2 ::

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned colleges,
Dr. Babasaheb Ambedkar Marathwada University

Copy to :-

- 1] The Controller of Examinations,
- 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 3] The Superintendent, [B.A. Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The Record Keeper.

S*/-160615/-

**D.R. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Syllabus of

B.A. III YEAR

Sociology

Semester-V & VI

[Effective from 2015-16 & onwards]

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (M.S.)

Sociology
B.A. Third Year (effective from 2015-2016)
Semester V

- Paper IX - Sociological Traditions
Paper X - Introduction to Research Methodology
Paper XI - Social Problems in India
OR
Urban Sociology
Paper XII - Practical
-

Semester VI

- Paper XIII - Sociological Theories
Paper XIV - Social Research Methods
Paper XV - Social Disorganization in Contemporary India
OR
Urban Society in India
Paper XI - Practical

B.A. Third Year -Sociology
Semester V

- Paper IX - Sociological Traditions
- Paper X - Introduction to Research Methodology
- Paper XI - Social Problems in India

OR

Urban Sociology

- Paper XII Practical

Paper IX - Sociological Traditions

Objectives:

- To provide information to the students with the understanding of historical, socio-economic and intellectual forces of the rise of sociological theories.
- To provide the students with the basic understanding of emergence of sociological thought and to know about pioneer sociologists stated theorists with their contributions to sociology.

Course Outline

1. Emergence of sociological thought
 - (a) Period of Enlightenment
 - (b) French Revolution
 - (c) Industrial Revolution
2. The Pioneers
 - (a) August Comte- Positivism, Law of Three Stages
 - (b) Herbert Spencer- Theory of Organism, Evolution
 - (c) Emile Durkheim- Theory of Suicide, Social Fact
3. The Classical Tradition
 - (a) Karl Marx - Historical Materialism, Class struggle
 - (b) Max Weber- Theory of Authority, Analysis of Spirit of Capitalism And Protestant Ethics

Books Recommended:

1. David Ashley and David Orenstein (2007) 'Sociological theory classical statements' - Pearson Education, New Delhi
2. George Ritzer (1992) 'sociological Theory', McGraw Hill, New Delhi
3. Tim Delaney 'contemporary social theory'- Pearson Education, New Delhi
4. Jaypalan N (2001) Sociological Theories, Atlantic Publisher, New Delhi
5. Sorokin Pitirm- (1978) contemporary sociological theory, Kalyani Publishers, New Delhi.
6. David and Orenstein (2007) 'Sociological Theory of classical statements', Pearson.
7. Ritzer (2013) 'Sociological Theory', Rawat Publications.
8. Coser (2014) 'Matters of Sociological Thought Ideas in Historical and Social Context' Rawat Publications.

Paper X - Introduction to Research Methodology

Objectives

- This course is designed to introduce Research Methodology to undergraduate students for better understanding of application of social sciences in general and Sociology in particular.
- To provide and equip the students with the procedures, tools and techniques of social research

Course Outline

- 1. Basic Concepts in Research Methodology**
 - (a) Meaning of Research
 - (b) Scope and importance of Social Research
 - (c) Theory, Facts, Objectivity
- 2. Types of Research**
 - (a) Pure and applied research
 - (b) Qualitative and Quantitative Research
 - (c) Descriptive Research and Exploratory Research
- 3. Scientific Research Process**
 - (a) Formulation of Problem
 - (b) Hypothesis
 - (c) Sampling and Data Collection
 - (d) Data analysis and Statement

Books Recommended:

1. Goode and Hatt (1952) Methods in Social Research, McGraw Hill Book company, New York
2. P.V. Young and Calvin F. Schmid (1982) scientific social survey and research prentice hall of India Private Ltd. New.
3. Bryman Alan (1988) Quality an quantity in Social Research, London Unwin Hyman Pub
4. Jayram N (1989) Sociology: Methods and Theory, Madras Macmillan
5. Kothari C R (1989) Research Methodology, Methods and Techniques, Bangalore Wilev Eastern
6. Chawla and Sodhi (2013) Reserch Methodology Concepts and Cases' Vikas Publishing House New Delhi
7. Nicholas Walliiman 'Your Reserch Project Designing and Planning Your Work' Sage Publications
8. Bridget Somckh and Cathy Lewin (2012) 'Theory and Methods in Social Research' Sage Publications

Paper XI - Social Problems in India

Objectives

- As a Nation of diversity and plural society India witnessed many issues in past and present this course is designed to identify and analyze some of emerging social problems from sociological perspective.
- To sensitize the students about social problems of contemporary India and to discuss the measures on it

Course outline

1. Corruption and Crime

- (a) Corruption in India and its implications (nature and causes)
- (B) White collar crime, Suicide
- (C) Measures on corruption

2. Displacement and Rehabilitation

- (a) Displacement and Problems of Developmental projects (SI&Z)
- (b) Problem of Land acquisition for industrial projects (Acts and Ambiguity)
- (c) Commercialization of agriculture
- (d) Measures on Rehabilitation problems

3. Problem of Inequality

- (a) Educational inequality (Poor, Weaker Section and Women)
- (b) Rural India against Urban India
- (c) Globalization and increasing inequality

Books recommended:

1. Beteille Andre (1974) Social Inequality, New Delhi OUP
2. K.L.Sharma (2009) Social inequality in India, Rawat Publications, Jaipur and New Delhi 2009
3. Maheshwari S.R.: Rural Development in India
4. Reports of Govt. of India- Corruption and Crime
5. Guha Ramchandra (1994) Sociology and the Dilemma of Development, New Delhi OUP
6. Fernandes, Walter and Enakshi Ganguly Thukral (Eds.), 1989, 'Development, Displacement and Rehabilitation: Issues for a National Debate', Indian Social Institute, New Delhi
7. Bhatia (2014) 'Violence Against Women Responses from the health and legal systmes' Sonali Publications
8. Mandal (2014) 'Handbook of Social Inequality' Anmol Publications
9. Grusky (2012) 'The Inequality reader Contemporary and Foundational Readings in Race, Class and Gender' Rawat Publications.
10. Latha (2014) 'Readings in Criminology' Gyan Publications
11. Makwana (2015) ' Contemporary Crime in Indian Society' Gyan Publication
12. Heredia 'Religious Disarmament Rethinking Conversion in India' Gyan Publications 2014

Sociology BATY 2015

- 7 -

OR

Paper XI Urban Sociology

Objectives

- Urban Sociology is important branch of Sociology which indulge in Urban features, studies and urban theories this course is designed to provide information to student about urban sociology and to furnish the basic elements of the subject and to draw attention of the students towards increasing urbanization

Course Outline:

1. Introduction

- (a) Nature and Scope of urban Sociology
- (b) Importance of Urban Sociology
- (c) Concepts- Urban Locality, Urbanization, suburb, Metro Cities, Heterogeneity

2. Process of Urban Development

- (a) Urban Revolution
- (b) Medieval City
- (c) Industrial Urban Development

3. Urban Sociological Theories

- (a) Theory Concentric Zone- Burges
- (b) Mechanical and Organic Solidarity- Durkheim
- (c) Metropolis and Mental life – George Simmel
- (d) Robert Louise wirth – 'Urbanism -As a way of life'

Books Recommended:

1. Rao M.S.A. (1975) Urban Sociology in India, Orient Long men New Delhi
2. N Jaypalan (2002) Urban Sociology, Atlantic Publishers and Distributors n New Delhi
3. Giriraj Gupta(1983) Urban India, Vikas Publishing House, New Delhi
4. Ravinder Singh (2003) Urbanization in Indian ; Sociological contributions, Sage Publications New Delhi

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8

B.A. Third Year - Sociology

Semester VI

Paper XIII – Sociological Theories

Paper XIV- Social Research Methods

Paper XV - Social Disorganization in Contemporary India

OR

Urban Society in India

Paper XI - Practical

Sociology BAY 2015

- 9 -

Paper XIII – Sociological Theories

Objectives:

- This course is designed to understand basic theoretical approaches and develop their sociological thinking while knowing theoretical contribution of prominent sociologists of their time.

Course Outline:

1. Functionalism

- (a) Talcott Parsons- Theory of Social Action,
Pre-requisites of Social System
- (b) Robert Merton- Role Set, Reference Group

2. Conflict Theory

- (a) Lewis Coser- Functions of Social Conflict, Violence
- (d) Ralf Dahrendorf- Class conflict in industrial society,
Power and Authority

3. Symbolic Interaction

- (c) C.S. Cooley – Looking Glass Self, Primary Group
- (d) G.H. Mead- Self, Self Consciousness, Functions of self

Books Recommended:

1. Tim Delaney (2008)- contemporary social theory-
Investigation and application Pearson Education , New Delhi
2. Craib Ian (1992) Modern social theory: from parsons to
Habermas , Harvester Press , London
3. Turner John (1995) The Structure of Sociological theory,
Rawat Publication, Jaipur
4. Fletcher Ronald (1994) The Making of Sociology , Rawat
Publication, jaipur
5. Ashley ' Classical Statement' , Pearson Education , New
Delhi

Paper XIV- Social Research Methods

Objectives

- The course can serve as a helping hand to students to understand primary technique and the use of social research. The course is designed in the view of increasing use of computers and statistical tools in social research.

Course outline

- 1. Techniques of sociological investigation**
 - (a) Observation
 - (b) Questionnaire
 - (c) Interview
- 2. Computer application and Statistics**
 - (a) Use of computer in social research (computer data analysis)
 - (b) Internet.
 - (c) Introduction of Statistical measures
 - (d) Introduction of SPSS
- 3. Utility of Social Research**
 - (a) To analyze social problem
 - (b) To study society and social structure
 - (c) Evaluation of welfare schemes
 - (d) Policy Advocacy

Books Recommended:

1. Kundu- 'The social Science ; methodology and perspectives'
2. Levin - 'The elementary statistics in social research'
3. Bryman and Alan (1988) Quality and Quantity in Social Research, London Urwin Hyman
4. Young P V (1988) Scientific Social Surveys and Research , Prentice Hall New Delhi
5. James B, Cunningham and Aldrich (2012) 'Using SPSS an interactive hands an approach' Sage Publication
6. Matt , Weinstein and Foard (2010) ' A Critical Introduction to Social Reserch' Sage Publications
7. Gupta (2014) 'SPSS 17.0 for researchers' International Book House pvt Ltd
8. Gerard Guthrie (2010) 'Baise Research Methods an Entry to Social Science Research'
9. Gupta (2014) 'Research Methodology Text and Cases with SPSS applications

Paper XV - Social Disorganization in Contemporary India

- **Objective:** With rapid industrialization and modernization Indian society is witnessing drastic changes, with this transformation Indian society also witnessing few negative changes in social institutions. The course is designed to elaborate on such changes and to know causes and impact of social disorganization.

Course Outline

- 1. Problem of Disorganization**
 - (a) Concept and nature Social Disorganization
 - (b) Causes of social disorganization; [population heterogeneity , Lack of Mobility, cynicism, underdevelopment, changing values and culture]
- 2. Violence and social disorder**
 - (a) Violence against women
 - (b) Terrorism in India
 - (c) Problem of Naxalism in India
- 3. Regionalism**
 - (a) Regionalism (concept) , Factors of Regionalism (Geographical, Historical, Social and Political)
 - (b) Regionalism in India (causes and consequences)
 - (c) Analysis of regional imbalance: special reference to Marathwada and Vidharbha

Books Recommended

1. Sarkar Sumit, Modern India 1885-1947, Mac Millan India Limited
2. Vasant Desai (1991) Fundamentals of Rural Development , Himalaya Publishing House, Bombay
3. Indian Rural Economics : S. P. Jain, Vikas Publication
4. All current and relevant material including the official information of Govt of India and Govt of Maharashtra
5. Current Statistics reports of Government.

Sociology BATY 2015

- 12 -

OR

Urban Society in India

- Objectives: This course is designed to analyze critically social problems of urban India and to discuss regarding impact of modernization and industrialization on Indian urban sphere.

1. Urban India

- (a) Growth of urban population in India
- (b) Emergence of Cities
- (c) Overcrowding (Rural Urban Migration)

2. Social Problems of urbanization

- (a) Prostitution
- (b) Urban Family (Changing Nature)
- (c) Poverty and Unemployment
- (d) Slums and Housing problems

3. Urbanization and Industrialization

- (a) Impact of industrialization (shortage of Electricity, waste disposal)
- (b) Transport and Traffic
- (c) Pollution (Air, Noise, chemical and water)

Books Recommended:

1. Alfred De Souza(1979) The Indian City : Poverty , Economic and urban development, Manohar Publications. New Delhi
2. Desai A R and Pillai S D (1970) Slums and Urbanization, Popular Prakashan Bombay
3. Ramchandran R (1991) Urbanization and urban Systems in India OUP, Delhi
4. Edward W Soja (2000) post Metropolis; Critical Studies of Cities and Regions, Oxford Blackwell.
5. Rajendra K. Sharma (1997) Urban Sociology, Atlantic Publishers & Distributors, New Delhi
6. A.K. Shrivastava (1989) Urbanization : Concept & Growth, H.K. Publishers and Distributors, New Delhi

Signature
24/4/15
Chairman - 005 - Sociology -

B.A. III Year (Semester V & VI)

Paper No.:— Project work

For All Students offering Main subject (With and without Practical)

Project Report 80 marks, presentation 20 marks Total- 100

Project evaluation will be done by external and internal examiners at the end of VIth semester Examination. Evaluation of project work and presentation examination will be done in the presence of external examiner appointed by university authority.

32 (5) committee of concerned subjects will appoint the external examiners for evaluation and presentation of project work. Schedule of project work of examination will be in the month of Feb. (at the end of VIth semester).

Rs. 10/- per candidate per examiner will be the remuneration along with T.A. D.A./ Local conveyance Allowance will be paid by University.

Passing criteria will be 40 marks out of 100.

Project work outline

1. The concern subject teacher should provide outline of the project work to the students.
2. The concern subject teacher should allot the topic of project work separately to each student.
3. Outline of the project work is as follows
 - i. Title of the project
 - ii. Introduction
 - iii. Objectives
 - iv. Importance of the topic
 - v. Analysis and discussion
 - vi. Conclusion
 - vii. References
4. Written work of Project should be around ~~40 to 50~~ ^{40 to 50} pages in own hand written along with certification by concerned Lecturer and head of the department.
5. University should provide blank project work book to the colleges.

6. Workload of project work should be 4 hours per week.

4 30 20

4

D.A. III Year
Geography

B-30th May, 2015 AC after Circulars from Circular No.1 & onwards - 3 -
DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/SU/Social Sci./B.A.III Yr. Syll./3/2015

It is hereby notified for information to all the concerned that,
on the recommendation of the Faculty of Social Sciences the
Academic Council at its meeting held on 30-05-2015 has accepted
the revised syllabi as mentioned against their names under the
Faculty of Social Sciences as under :-

Sr. No.	Name of the Subject	Semester
[1]	History	V & VI
[2]	Economics	V & VI
[3]	Psychology	V & VI
[4]	Geography	V & VI
[5]	Sociology	V & VI
[6]	Home Science	V & VI
[7]	Political Science	V & VI
[8]	Public Administration	V & VI
[9]	Social Work	V & VI
[10]	Philosophy	V & VI
[11]	Military Science	V & VI
[12]	Library & Information Science	I to VI Progressively
[13]	B.A. Travel and Tourism Management [Optional]	I to VI Progressively
[14]	Thoughts of Mahatma Phule & Dr. Ambedkar	V & VI effective from 2016-2017 & onwards


This is effective from the Academic Year 2015-16 & onwards as
appended herewith.

All concerned are requested to note the contents of the circular
and bring the notice to the students, teachers and staff for their
information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/SOCIAL SCI./
2015/3310-709

Date:- 16-06-2015.

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Director,
Board of College and
University Development.

S-30th May, 2015 AC after Circulars from Circular No.1 & onwards

- 4 -

:: 2 ::

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned colleges,
Dr. Babasaheb Ambedkar Marathwada University

Copy to :-

- 1] The Controller of Examinations,
- 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 3] The Superintendent, [B.A. Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The Record Keeper.

S*/-160615/-

..***..

**DR. BABASAHEB AMBEDKAR
MARATHIWADA UNIVERSITY, AURANGABAD**



Revised Syllabus of

B.A. Third Year - Geography

Semester-V & VI

(Choice Based Credit System)

[Effective from 2015-16 onwards]

Handwritten signature
28/4/15

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

GEOGRAPHY

Curriculum Structure and Scheme of Evaluation for B.A. III

With effective from 2015-16

SEMISTER V - Subsidiary

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week)			Scheme of Evaluation			
				L	P	Total Credits	Theory	Theory	Practical/ Viva-voce	Total Marks
1	GEO 111	Geo. XI	Physical Geography Of India	4	--	4	4	30	--	30
2	GEO 112	Geo. XII	Geography of Environment	4	--	4	4	30	--	30
(A) Total of Semester-V				8	.	8	8	60	.	60

SEMISTER V - MAIN

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week)			Scheme of Evaluation			
				L	P	Total Credits	Theory	Theory	Pract/ Viva-voce	Total Marks
1	GEO 113	Geo. XIII	Industrial geography of Maharashtra	4	--	4	4	30	--	30
(B) Total of Semester - V Main				4	.	4	4	30	--	30

- Total period per theory paper, per week -4
- Practical having 4 period per week
- Practical batch - one batch of 20 students

**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad**
GEOGRAPHY

Curriculum Structure and Scheme of Evaluation for B.A. - III
With effective from 2015-16
SEMISTER VI - Subsidiary

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week)				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Practical/ Viva-voce	Total Marks
1	GEO 114	Geo. XIV	Agricultural geography of India	4	--	4	4	30	--	30
2	GEO 115	Geo. XV	Geography of natural calamity	4	--	4	4	30	--	30
Total Semester VI (Subsidiary)				8	--	8	8	60	--	60

Annual Practical - SEMISTER V & VI - Subsidiary

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week)				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Practical/ Viva-voce	Total Marks
1	GEO 116	Geo. Prct. XVI	Practical- XVI	-	4	4	--	-	80	80

- Total period per theory paper, per week -4
- Practical having 4 period per week
- Practical batch - one batch of 20 students

**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad**

GEOGRAPHY

Curriculum Structure and Scheme of Evaluation for B.A. III
With effective from 2015-16

SEMESTER VI - MAIN

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week)				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Pract./ Viva-voce	Total Marks
1	GEO 117	Geo. XVII	Bio-geography	4	--	4	4	30	--	30
Total Semester VI (Main)				4	--	4	4	30	--	30

Annual Practical - SEMESTER V & VI - MAIN

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week)				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Pract./ Viva-voce	Total Marks
1	GEO 118	XVIII	Practical (MAIN)	-	4	4	--	-	40	40
	GEO 119	Geo. Prct. XIX	Project Work (MAIN) (Practical)	-	4	4	--	-	100	100
Total					8	8	-	-	140	140

- Total period per theory paper, per week -4
- Practical having 4 period per week
- Practical batch - one batch of 20 students

**B.A. III Year
Semester-V- Subsidiary
Paper No.XI**

Mark : 30

Physical Geography of India

- Unit I** : India in the context of south east and south Asia.
India: a land of diversities, unity within diversities,
Shape, size, physical landscape of India
- Unit II** : Drainage systems of India their functional
significance Climate: Regional and seasonal
variations of climate. The monsoons.
- Unit III** : Soil types of India their distribution and
characteristics
- Unit IV** : Natural Vegetation: Forest types and their
distribution. In India.

Suggested Readings :

- 1) **C.D. Deshpande** :- India A regional Interpretation Northern
Book center New Delhi.
- 2) **Farmer B.H.** :- An Introduction to south Asia Methuen
London 1983.
- 3) **Govt of India** :- Reference Annual 2001.
- 4) **Mohammad Shafi** :- Geography of south Asia Mac Millan and
co. Calcutta.
- 5) **Singh R.L.** :- India a regional Geography National
Geographical society India.
- 6) **Wadia D.N** :- Geology of India McMillan and co. London
1967.

**B.A. III Year
Semester-V- Subsidiary
Paper No.XII**

Mark : 30

Geography of Environment

- Unit I** : Definition of environment science, nature and scope of environment, Types of environment.
- Unit II** : Ecology, Abiotic or physical factors, Temperature, soil, water, atmosphere, Biotic or Non Physical factors, organism, population and Biotic community.
- Unit III** : Ecosystem coordinial principles of Ecosystem. structure of Ecosystem (Producer, Consumer, Decomposer), Nutrient Cycling (Carbon cycle, oxygen cycle, Nitrogen cycle), Function of Ecosystem, Energy flow, food chain, food web, Ecological pyramid.
Types of Ecosystem (Natural Ecosystem and Cultural Ecosystem)
- Unit IV** : Problems of Ecosystem and environment Global warming, food security, Deforestation, Plastic bags, Acid rainfall.

Suggested Readings

- | | |
|--|----------------------------|
| 1. Environmental Science | Bernari Nebel |
| 2. Introduction to Environmental study | J. Turk |
| 3. Environmental Science | W.R. Ahirao |
| 4. Ecology | E.P. Odum |
| 5. Environmental Protection | Parab Diwan |
| 6. पर्यावरण विज्ञान | प्रा.अहिराव व प्रा. अलिझाड |
| 7. पर्यावरणशास्त्र | डॉ. जयकुमार मगर |
| 8. पर्यावरणशास्त्र | डॉ. विठ्ठल घारपुरे |

**B.A. III Year
Semester-V- Main
Paper No.XIII**

Mark : 30

Industrial Geography of Maharashtra

- Unit I** : Nature, scope and recent developments of Industry In Maharashtra. Elements and factors of localization of Industries.
- Unit II** : Distribution and spatial pattern of Industries in Maharashtra.
1. Cotton and Textile Industries
 2. Petro chemical Industries
 3. Sugar cane Industries
 4. Automobile Industries
- Unit III** : Industrial belt in Maharashtra and their Characteristics, Impact of industries on economic development of Maharashtra.
- Unit IV** : Role of globalization Industrial sector, shifting of industries and its impact on the urban fringe, Changing industrial policy in Maharashtra.

Suggested Readings

- | | |
|----------------------|---|
| 1. Alexander J.W. | Economic Geography Prentice Hall
Engle wood cliffs 1988. |
| 2. डॉ. पांडुरंग केचे | महाराष्ट्राचा भूगोल |
| 3. डॉ. सुभाष सारंग | महाराष्ट्राचा भूगोल |
| 4. डॉ. सुरेश फुले | महाराष्ट्राचा भूगोल |
| 5. ए.बी.सवदी | द मेगा स्टेट महाराष्ट्रा |

**B.A. IIIrd Year Geography
Semester-VI- Subsidiary
Paper No. XIV**

Mark : 30

Agricultural Geography of India

- Unit I : Nature, scope significance and development of Agricultural geography. Origin and dispersal of Agricultural in India.
- Unit II : Agriculture in India: Agricultural landuse, cropping Pattern, Regional pattern of productivity in India. Agricultural policy in India
- Unit III : Distribution and production of major crops in India
1) Rice 2) Wheat 3) Jowar
4) Cotton 5) Sugarcane 6) Tea
- Unit IV : Green Revolution in India.

Suggested Readings

1. Gregor H.P Geography of Agriculture prentice Hall
New York 1970
2. Harlshorn T.N. and Economic Georaphy Prentice Hall New
Alexander. J.W. Delhi.
3. Singh J and Dhillon Agricultural Geography Tata Mcgraw Hill
S.S. Pub New Delhi 1988.
4. Tarrant J.R. Agricultural Geography wiley New York
1974.
5. Mazid Hussain Agricultural Geography.

B.A. III Year
Semester-VI- Subsidiary
Paper No. XV

Mark : 30

Geography of Natural Calamities

- Unit I** : Definition Nature and scope of Natural Calamities
Unit II : Earthquake, and volcano, causes and effect of Earthquake and volcano, world distribution of earthquake and volcano.
Unit III : drought and floods
1. Meteorological drought
2. Hydrological drought.
3. Agricultural drought.
causes and effects of drought, drought-prone-areas
Flood cause and effects
Biological Hazards
Unit IV : Global warming and green House effects,
Ozone deflation, Pollution Types, (Air, Water, and Soil)

Suggested Readings

- | | |
|-------------------------------|---|
| 1. Biogeography | H. Robinson |
| 2. World Resources | 1990-91 |
| 3. Man, space and Environment | P.W. English and R.C. Mayfield |
| 4. Atmospheric pollution | Elsomderekar |
| 5. Environmental Management | L.R. Singh , R.C. Tiwari and
R.P. Shrivastav |
| 6. पर्यावरण विज्ञान | डॉ. अशोक एन. डॉ. अशोक |
| 7. पर्यावरणशास्त्र | डॉ. जयकुमार शर्मा |
| 8. पर्यावरणशास्त्र | डॉ. विठ्ठल चव्हाणे |

B.A. III Year
ANNUAL PRACTICAL FOR SUBSIDIARY
(V & VI Semester)
Geography Practical
Paper - XVI (SUB)

Unit 1 -	Measures of Central Tendency - i. Mean ii. Median iii. Mode	Marks - 20 Marks - 15
Unit 2 -	Measures of Deviation - i. Mean Deviation ii. Quartile Deviation iii. Standard Deviation	Marks - 15
Unit 3-	Correlation - i) Spearman's Method ii) Karl Pearson's Method	Marks - 10
Unit 4-	I. Regression equation by Least Square Method ii. Regression Line 'X' on 'Y' iii Regression Line 'Y' on 'X' iv Chi-Square Test	Marks - 10
Unit 5-	Participation in Geographical Excursion and Report Writing	Marks - 20
Unit 6-	Certified Journal and Viva - voce	Marks - 10

Suggested Readings -

1. Elements of Practical Geography - Singh R.L.
2. Statistical Geography - Zamir Alvi
3. Statistical Geography - Negi B.S.
4. Practical Geography - Dr. Jaykumar Magar (Marathi Version)
5. Practical Geography - Dr. Kumbhar (Marathi Version)
6. Practical Geography - Dr. Nagtode (Marathi Version)

**B.A. III Year
Semester-VI- Main
Paper No.XVII**

Mark : 30

Biogeography

- Unit I** : Nature, Scope and significance of Biogeography.
- Unit II** : Environment, Habitat and plant animal association, Biome types. Darwin's theory of Evolution.
- Unit III** : Elements of Plant geography, distribution of forests, successions in newly Formed landforms. Examples from flood plains and Glacial fore fields.
- Unit IV** : Zoo-geography and its Environmental Relationship Ecosystem forms and function. National forest Policy of India

Suggested Readings

- 1 Agarwal D.P. Man and Environment in India Through Ages Book and books 1992.
- 2 Bradshaw M.J. Earth and Living Planet ELBS London.
- 3 Gaur R. Environment and Ecology of Early man in Northern India R.B. Publication corporation 1987.
- 4 Hugget R.J. Fundamentals of Biogeography Rout ledge U.S.A. 1998.
- 5 Mathus H.S. Essentials of Biogeography Anju Printers Jaipur 1998.

**B.A. III Year
Geography Practical
Paper - XVIII (MAIN)**

	Marks - 40
Unit 1 - A) Introduction of Instrumental Survey	Marks - 5
1) Chain and Tape Survey	
2) Plane Table Survey	
3) Prismatic Compass Survey	
B) Field Survey using Plane table and prismatic compass	Marks - 10
i) Open Traverse Method	
ii) Close Traverse Method	
Unit 2 - A) Representation of Bearing -	Marks - 10
i) Whole Circle Bearing	
ii) Reduced Bearing	
iii) FB, BB of WCB	
iv) FB, BB of RB	
v) Conversion of Bearing -	
a) WCB into RB	
b) RB into WCB	
B) Correction of Bearing	Marks - 5
ii. Closing Error By Bowditch Method	
iii Determination of the Height with the Help of Abney Level	
Unit 3 - Certified Journal and Viva - Voce	Marks - 10

Suggested Readings -

1. Elements of Practical Geography - Singh R.L.
2. Statistical Geography - Zamir Alvi
3. Statistical Geography - Negi B.S.
4. Practical Geography - Dr. Jaykumar Magar (Marathi Version)
5. Practical Geography - Dr. Kumbhar (Marathi Version)
6. Practical Geography - Dr. Nagtode (Marathi Version)

B.A. III Year
Project Work
Paper - XIX (MAIN - Practical)

* Report writing -	80 Marks	Marks - 100
* Presentation -	20 Marks	

Candidates will be required to prepare a project report on any **one** topic. The topic for project may be selected from the list of suggested assignments given below or candidate can also take up a project of his / her choice in consultation with teachers of the department of geography, but the selection of the project must be related to the geographical or environmental topic / issues.

Topics / Issues for project:

- 1) Physical features related to the local level such as drainage pattern, slope analysis, soil and rocks type. Physiography of the region.
- 2) Impact of climate on agriculture, Vegetation, Biotic resources, Occupation and food habits of selected area.
- 3) Resources of selected area - agriculture, water, energy, minerals, soil, vegetation, biotic resources.
- 4) Social, economical, demographical, occupational, cultural, historical study of the selected area.
- 5) Environmental study of the selected area - Environmental degradation, sources of pollution of water bodies in the locality and determine the quality of water, sources of air pollution and quality of air, sources of land pollution and soil quality, sources of noise pollution and its consequences.
- 6) Study of disasters like earthquake, draughts, floods, landslides, cyclones, famines, hailstones.
- 7) Agriculture - Landuse pattern, crop combination, crop concentration and diversification, cropping pattern, agricultural production and productivity, any other issues related with agriculture.
- 8) Urban planning and landuse management, urban morphology, urban growth, CBD, functional classification of town, problems of urban development, rural settlement site and structure, features of rural settlements.
- 9) Distribution of diseases, availability of health facilities, geographical / social / economic / environmental factors affecting human health and diseases arising from them.
- 10) Transportation Network & Connectivity, availability of means of transportation, number of various types of vehicles, transportation system and local development, accessibility & flowchart, transportations and frequency of accidents.

Report writing should be as per the following guidelines

- 1) *Suitable title of the project.*
- 2) *Introduction*
- 3) *Study area*
- 4) *Significance of the project.*
- 5) *Objectives of the project.*
- 6) *Project methodology. (Collection of primary / secondary data, relevant statistical techniques, preparation of questionnaire, schedule maps, graphs, diagrams & photos, analysis, interpretation and report writing)*
- 7) *Chapter scheme. (Minimum 5 chapters)*
- 8) *Bibliography*

Notes:

- Each student will prepare an individual project report applying the project methodology.
- A group of maximum five students may work on same topic under the guidance of a teacher.
- The actual work of the project should be carried out throughout the year. Topic must be select after the admission to the course.
- Project report should be checked & certified by guiding teacher before final submission.
- Student should submit two hard copy (bind) and softcopy (CD) of Project report to department of geography before one month of commencement of university examinations.
- The project report will have preliminary pages such as Cover Page, Declaration by Candidate, Certificate by Guide, Acknowledgement, Contents, List of tables, maps, graphs, diagrams, photos etc.
- The soft copy (CD) of the project work should be prepared in Microsoft Word 2007, For English - font Times New Roman, font size 14, line spacing 1.5, margins - left 1.5", right-1", top -1", bottom 1", page numbers in footer, For Marathi language use APS / ISM software.
- The page count of the project report should be about 75 to 100 pages including figures, tables, maps, photographs, references, appendices, bibliography etc.
- The assessment of the project and viva-voce will be conducted in the presence of external examiner appointed by the university and the internal examiner.
- Marking scheme - Report Writing - 80 Marks (Project Content - 50 marks, follow-up of research methodology - 30 Marks), Viva-voce - 20 Marks. Total Marks - 100.

Suggested Readings:

- Creswell, J. (1998). Qualitative inquiry and research design: Choosing among five traditions. Thousand Oaks, California: Sage Publications.
- Franklin, M.I. (2012). Understanding Research: Coping with the Quantitative-Qualitative Divide. London and New York: Routledge.
- Dikshit, R. D. 2003. The Art and Science of Geography: Integrated Readings. Prentice Hall of India, New Delhi.
- Wolcott, H. 1995. The Art of Fieldwork. Alta Mira Press, Walnut Creek, CA.
- Aslam Mahmood : Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi, 1993.
- C. B. Gupta : An Introduction to Statistical Methods, Vikas Publishing House, Delhi, 1974.
- S. Gregory, : Statistical Methods and the Geographers, Longman, London, 1964.
- A. Reza Hoshmand (second edition), : Statistical Methods for Environmental and Agricultural Sciences, CRC Press, New York, 1998.
- Elements of Practical Geography - Singh R.L.
- Statistical Geography - Zamir Alvi
- Statistical Geography - Negi B.S.
- Practical Geography - Dr. Jaykumar Magar (Marathi Version)
- Practical Geography - Dr. Kumbhar (Marathi Version)
- Practical Geography - Dr. Nagtode (Marathi Version)
- कार्लेकर श्रीकांत / काळे मोहन (२००७): भूगोलशास्त्रातील संशोधन पध्दती, डायमंड पब्लिकेशन्स, पुणे.
- कार्लेकर श्रीकांत (२०११): भूगोलशास्त्रातील संख्याशास्त्रीय पध्दती, डायमंड पब्लिकेशन्स, पुणे.
- कन्हाडे बी.एम.(२००७): 'शास्त्रीय संशोधन पद्धती', पिंपळापूरे अॅण्ड कं. पब्लिशर्स, नागपूर
- डॉ. विवेक पाटकर (२००७): संशोधन मार्गावरील प्रवास, दि पॅकेज, मुंबई
- कायंदे, गं.वि. (२००४): 'संशोधन पद्धती', चैतन्य पब्लिकेशन्स, नाशिक
- जोशी बी.आर. (२००८) : 'सामाजिक शास्त्रातील संज्ञा सिद्धांताचा कोश', डायमंड पब्लिकेशन, पुणे
- भांडारकर, पु.ल. (१९९९): 'सामाजिक संशोधन पद्धती', विद्या बुक्स, औरंगाबाद

Dr. Pathare U.B.

Org. 2015-2016

B.A. III year.
Economics

S-30th May, 2015 AC after Circulars from Circular No.1 & onwards - 3 -
DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/SU/Social Sci./B.A.III Yr. Syll./3/2015

It is hereby notified for information to all the concerned that,
 on the recommendation of the Faculty of Social Sciences the
 Academic Council at its meeting held on 30-05-2015 has accepted
 the revised syllabi as mentioned against their names under the
Faculty of Social Sciences as under :-

Sr. No.	Name of the Subject	Semester
[1]	History	V & VI
[2]	Economics	V & VI
[3]	Psychology	V & VI
[4]	Geography	V & VI
[5]	Sociology	V & VI
[6]	Home Science	V & VI
[7]	Political Science	V & VI
[8]	Public Administration	V & VI
[9]	Social Work	V & VI
[10]	Philosophy	V & VI
[11]	Military Science	V & VI
[12]	Library & Information Science	I to VI Progressively
[13]	B.A. Travel and Tourism Management [Optional]	I to VI Progressively
[14]	Thoughts of Mahatma Phule & Dr. Ambedkar	V & VI effective from 2016-2017 & onwards

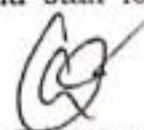
This is effective from the Academic Year 2015-16 & onwards as
 appended herewith.

All concerned are requested to note the contents of the circular
 and bring the notice to the students, teachers and staff for their
 information and necessary action.

University Campus,
 Aurangabad-431 004.
 REF.NO.ACAD/SU/SOCIAL SCI./
 2015/3310-709

Date:- 16-06-2015.

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Director,
Board of College and
University Development.

8-30th May, 2015 AC after Circulars from Circular No.1 & onwards - 4 -

:: 2 ::

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned colleges,
Dr. Babasaheb Ambedkar Marathwada University

Copy to :-

- 1] The Controller of Examinations,
- 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 3] The Superintendent, [B.A. Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The Record Keeper.


S*/-160615/-

Dr. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD



Revised Syllabus of
Economics
B.A - Third Year
SEMESTER - V and VI

[Progressively Effect from 2015-16 & onwards]


Dr. Dilip Arjune
B.O.S. Chairman of
Economics

Revised Structure of Syllabus and Papers
for
ECONOMICS
Syllabus of B.A. Third Year
Semester System

A] 50 marks for each paper.


B] Semester-Wise examination will be of 120 minutes for each paper.

Paper No.	Title of the Paper	Credit Allotted	Periods	Marks
<i>Semester – Fifth</i>				
Eco -109	International Economics (Compulsory)	04	60	50
Eco -110	Agricultural Economics (Compulsory)	04	60	50
Eco – 111	History of Economic Thought (Optional) OR	04	60	50
Eco -111(A)	Mathematical Economics OR	04	60	50
Eco- 111(B)	Labour Economics	04	60	50
Eco – 112	Project Works (Annually)	04	60	--

Paper No.	Title of the Paper	Credit Allotted	Periods	Marks
	<i>Semester – Sixth</i>			
Eco – 113	Research Methodology OR	04	60	50
Eco-113 (A)	Regional Economics			
Eco – 114	Industrial Economics OR	04	60	50
Eco- 114 (A)	Foreign Trade and International Institutions	04	60	50
Eco – 115	Indian Economic Thinker OR	04	60	50
Eco – 115 (A)	Economic Thoughts of Dr. B.R. Ambedkar and Mahatma Phule	04	60	50
Eco- 115(B)	Econometrics OR	04	60	50
Eco- 115 (C)	Economy of Maharashtra			
Eco – 116	Project Work (Annual Assessment)	04	60	100

Note:

- 1) One period of 50 minutes.
- 2) 15 periods = 01 credit
- 3) 04 credits = 60 periods
- 4) Each paper is comprised of 04 credits.


[Dr. Arjune Dilip]
Chairman

Board of Studies in Economics
Dr. Babasaheb Ambedkar
Marathwada University, Aurangabad

B.A. Third Year
(Economics)

SEMESTER – V

ECO – 109 International Economics (Compulsory)

Objectives:

This paper provided the students a thorough understanding and deep knowledge about the basic principles that tend to govern the free flow of trade in goods and services at the global level. The contents of this paper, spread over various units, lay stress both on theory and applied nature of the subject that have registered rapid changes during the last decade.

Unit I : Importance of Trade and Trade Theories:

Importance of the study of international economics, Inter-regional and international trade, Theories of absolute advantage, Comparative advantage and opportunity cost, Heckscher-Ohlin theory of trade – its main features, assumptions and limitations

Unit II : Gains from Trade:

Gains from trade- Their measurement and distribution, Trade as an engine of economic growth, concepts of terms of trade and their importance in the theory of trade

Unit III : Tariffs and Quotas:

Types of tariffs and quotas, their impact in partial equilibrium analysis, Free trade and policy of tariff in relation to economic growth with special reference to India

Unit IV : Balance of Payment:

Concept and components of balance of payments, Equilibrium and disequilibria in balance of payment, consequences of disequilibrium in balance of payments, Various measures to correct deficit in the balance of payments, Relative merits, Demerits and limitations of devaluation

BASIC READING LIST:

- Kenan, P.B. (1994), *The International Economy*, Cambridge University Press, London.
- Kindleberger, C.P. (1973), *International Economics*, R.D. Irwin, Home Wood.
- Krugman, P.R. and M. Obstfeld (1994), *International Economics: Theory and Policy*, GJenview, Foresman.
- Salvatore D.L. (1997), *International Economics*, Prentice Hall, Upper Saddle River, N.J.
- Sodersten, B.O. (1991), *International Economics*, Macmillan Press Ltd., London.

ADDITIONAL READING LIST:

- Aggrawal, M.R. (1979), *Regional Economics Co-operation in South Asia*, S. Chand and Co. , New Delhi.
- Bhagwati, J. (Ed.) (1981), *International Trade Selected Readings*, Cambridge University Press, Mass.
- Crockett, A. (1982), *International Money: Issue and Analysis* ELBS and Nelson, London.
- Greenway, D. (1983), *International Trade Policy*, Macmillan Publishers Ltd., London.
- Heller, H.R. (1968), *International Monetary Economics*, Prentice Hall, India.
- Joshi, V. and I.M.D. Little (1998), *India's Economic Reforms, 1999-2001*, Oxford University Press.
- Nayyar, D. (1976), *India's Exports and Export Policies in the 1960's*, Cambridge University Press, Cambridge.

- Panchmukhi, V.R. (19780, Trade Policies of India: A Quantitative Analysis, Concept Publishing Company, New Delhi.

ECO – 110 Agricultural Economics (Compulsory)

Objectives:

The objective of this paper is to provide a detailed treatment of issues in agricultural economics to those intending to specialize in the area. Its objective is to familiarize students with policy issues that are relevant to Indian agricultural economics and enable them to analyze the issues, using basic micro-economic concepts.

Unit: I Development of Agriculture:

Role and importance of agriculture in economic development; Linkages between the agriculture sector and the non-agriculture sector, Agricultural resources in India, Land utilizations and cropping pattern, Trends in agricultural growth and agricultural productivity, concept of contract farming.

Unit: II Technology in Agriculture:

Technology in Agriculture- traditional techniques and practices, HYV seeds- fertilizers – water technology (Green revolution), sustainable agriculture, Dry land farming, Size of holdings in India and Maharashtra.

Unit: III State and Agriculture:

Agricultural Price Policy, Nature of demand and supply of agricultural product, price instability, Objectives of Agricultural Price Policy, food security in India and public distribution system, Agricultural subsidy.

Unit: IV Fifty Years of Indian Agriculture:

An overview of agricultural development, Under employment and unemployment in the rural economy, Globalization of Indian economy and its effects on Indian agriculture.

BASIC READING LIST:

- Bilgrami S.A.R. (2000), An Introduction to Agricultural Economics, (2nd Edition), Himalaya Publishing House, Mumbai.
- Sadhu A. N. and J. Singh (2000), Agricultural Problems in India, (3rd Edition), Himalaya Publishing House, Mumbai.
- Sundaram I.S. (1999), Rural Development, (3rd Edition), Himalaya Publishing House, Mumbai.
- Takle S.R. and Bhise V.B. (2007), Behaviour of Market Prices of Agricultural Commodities, Serial Publications, New Delhi.

ADDITIONAL READING LIST:

- Government of India, Economic Survey, (Annual), New Delhi.
- Government of India, Ninth Five Year Plan (1997-2000), Vol. I & II, Planning Commission, New Delhi.
- Reserve Bank of India, Hand Book of Statistics of Indian Economy (Annual).
- Sony R.N. (2000), Leading Issues in Agriculture, Arihant Press, Jalandhar.

ECO – 111 History of Economic Thought (Optional)

Objectives:

This paper deals with basic ideas of classical, new classical and marginalist economist. The object of this paper is to understand students the basic economic ideas of various economic thinkers of the world.

Unit: I Early Period:

Mercantilism: Main characteristics; Thomas Mun - Physiocracy; natural order; primacy of agriculture, social classes, tableau economique, taxation.

Unit: II Classical Period:

Adam Smith- division of labour, theory of value, Capital accumulation, distribution, views on trade, Economic progress; David Ricardo- value, theory of rent, distribution, ideas on economic development and international trade; Tomas R. Malthus- Theory of Population; Karl Marks- dynamics of social change, theory of value, surplus value, profit and crisis of capitalism, Economic ideas of J. B. Say.

Unit: III Marginalists:

Marshall as a great synthesizer; role of time in price determination, economic methods, ideas on consumer's surplus, elasticities, prime and supplementary costs, representative firm, external and internal economies, quasi-rent, organization as a factor of production, nature of profits.

Unit: IV Keynesian Ideas:

The aggregate economy, Liquidity preference Theory and Liquidity trap; Marginal efficiency of capital and marginal efficiency of investment, wage rigidities under employment equilibrium, role of fiscal Policy; deficit spending and public works, multiplier principle.

BASIC READING LIST:

- Blackhouse, R. (1985), A History of Modern Economic Analysis, Basil Blackwell - Oxford.
- Gide C. and G. Rist (1956), A History of Economic Doctrines, (2nd Edition), George Harrop & Co., London.

- Grey, A. and A.E. Thomson (1980), The Development of Economic Doctrine, (2nd Edition), Longman Group, London.
- Rolle, E. (1973), A History of Economic Thought, Faber, London.
- Seshadri, G.B. (1997), Economic Doctrines, B.R. Publishing Corporations, Delhi.
- Blaug, (1997), Economic Theory in Retrospect; A History of Economic Thought From Adam Smith to J.M. Keynes, (5th Edition), Cambridge University Press, Cambridge.
- Dasgupta, A.K. (1985), Epochs of Economic Theory, Oxford University Press, New Delhi.

OR

ECO – 111 (A) Mathematical Economics (Optional)

Objectives:

This paper is designed to equip students to understand the economic concepts and theories which use mathematical tools and techniques to refine the verbal logic. The use of calculus and permitted formulation of economic problems in multivariable mode and yield valuable insight about optimizing human behavior.

Unit: I Quantitative Methods:

Elementary ideas of differential calculus, Matrix- types of matrix, algebra of matrix; and determinants, solution of simultaneous equations- Cramer's rule, Maxima and Minima in a single variable; distance between two points, straight line equations.

Unit: II Consumer's Theory:

Utility function- Total utility and Marginal utility, budget line, constrained optimization, consumer's equilibrium, Elasticity of demand.

Unit: III Theory of Production:

Cost and revenue functions, Relation between total, average and marginal cost and revenue.

Unit: IV Market Structure:

Equilibrium of the firm under perfect competition, Monopoly, price discrimination, Market equilibrium; Demand and Supply function.

BASIC READING LIST:

- Allen, R.G.D. (1974), *Mathematical Analysis for Economists* Macmillan Press, London.
- Chiang, A.C. (1986), *Fundamental Methods of Mathematical Economics*, (3rd Edition), McGraw Hill, New Delhi.
- Coell, A. Mas, et. al. (1991), *Microeconomic Theory*, Harvard University Press, Cambridge, Mass.
- Hands D.W. (1991), *Introductory Mathematic Economics*, D. C. Heath.
- Henderson, J. and R.E. Quandt (1980), *Microeconomic Theory: A Mathematical Approach*, McGraw Hill, New Delhi.
- Handy, S.T. (1997), *Operational Research*, Prentice- Hall of India, New Delhi.
- Mukherji, B. and B. Pandit (1982), *Mathematical Methods of Economic Analysis*, Allied Publishers, New Delhi.

OR

ECO – 111 (B) Labour Economics (Optional)

Objectives:

Labour is the main input of any industry. This paper provides a deep knowledge regarding recent labour policies in India. The main object of this paper is to provide detailed information to students

about labour market, employment, wage determination and industrial dispute.

Unit: I Labour Market:

Nature and characteristics of labour market in developing economies like India; Demand for labour and supply of labour, Government labour policies after 1991.

Unit: II Employment:

Definition- Relationship between employment and development, Unemployment - Concept, causes and measures to reduce unemployment, rural and urban unemployment, educated unemployment, Employment Policy in Eleventh Plan period.

Unit: III Wage Determination:

Subsistence wage fund, marginal and modern theories of wages, collective bargaining and wage determination, concept of fair wages, living wage and minimum wage, wage and inflation.

Unit: IV State and Labour:

Important labour legislations in India, Industrial Disputes and Labour Union, Government's role in settlement of industrial disputes, problems of rural labour (Unorganized Sector - labour) in Maharashtra.

BASIC READING LIST:

- Lester R.A. (1964), Economics of Labour, Ze, MacMillan, New York.
- Das, N. (1960), Unemployment, Full employment and India, Asia Publishing House, Mumbai.
- Dunlop, J.T. ed. (1957), Theory of Wage Determination, MacMillan, Landon.

- Ramaswamy, E.A. and U. Ramaswamy (1978), Industrial Relation in India, MacMillan, Delhi.
- Kannapon, S. (1983), Employment Problems and Urban Labour Markets in Developing Countries, University of Michigan, Ann Arbor.
- Despande L.K. and J. C. Sandesara, (Eds.), (1990), Wage Policy and Wages Determination in India, Bombay University Press, Mumbai.
- Punekar, S.D. (1978), Labour Welfare, Trade Unionism and Industrial Relations, Himalaya Publishing House, Mumbai.

ECO – 112 Project Work (Annually)

Objectives: This course will inform students about the project writings skill as per the study of research methodology techniques. It's also deals with the deep study of specific topic.

Note: **Teacher should work as per the following guidelines:**

1. The concern subject teacher should provide outline of the project work to the students.
2. The concern subject teacher should allot the topic of project work separately to each student.
3. The concern teacher should be guidance to the students regarding How to prepare project work in regular period activity in this semester. Project evaluation will be done by external and internal examiners at the end of VIth semester Examination.
3. Outline of the Project Work is as follows:
 - i) Title of the Project
 - ii) Introduction
 - iv) Importance of the topic
 - iii) Objectives
 - v) Research Methodology
 - vi) Analysis and Discussion
 - vii) Conclusion
 - viii) References
4. Written work of Project should be around 40 to 50 pages in own hand written along with certificate by concerned teacher and Head of the Department.
5. Workload of Project Work should be 04 periods per week.

B.A.T.Y. SEMESTER - VI

ECO - 113 Research Methodology

Objectives:

The main objective of this paper is to provide information about social sciences research to the students of economics. This paper deals with importance of social research, research design, data collection and presentation of data.

Unit: I Introduction:

Meaning, nature, scope and objectives of social science research, Theory, concepts, hypothesis, stages of scientific research, Motivating factors of social research.

Unit: II Research Design:

Meaning and need of research design; Types of research design (only introduction)- descriptive, exploratory, diagnostic and experimental.

Unit: III Data Collection:

Facts- features; Primary data collection methods- Direct observation, questionnaire, schedule, interview; Secondary data collection methods- Personal documents, Public documents and Limitations.

Unit: IV Data Presentation and Analysis:

One- dimensional diagrams; Two- dimensional diagrams; Graphs of time series; Graphs of frequency distribution.

BASIC READING LIST:

- Kothari, C.R. (1988), Research Methodology Method and Techniques, Wiley Eastern Limited, New Delhi.
- Ghose, B.N. (1982), Scientific Methods and Social Research, Sterling Publishers Pvt. Ltd., New Delhi.
- Goode William J. and Hatt, Paul (1952), Methods in Social Research, McGraw Hill, New York.
- Gopal, M.H. (1964), An Introduction to Research Procedure in Social Sciences, Asia Publishing House, Mumbai.

- Hans Raj (1979), *Theory and Practice in Social Research*, Surjeet Publications, New Delhi.
- Sadhu, A.N. and Singh Amerjet (1980), *Research Methodology in Social Sciences*, Himalaya Publishing House, Mumbai.
- Tandon, B.C. (1979), *Research Methodology in Social Sciences*, Chaitanya Publishing House, Allahabad.
- Aggarwal, B.M. (2010), *Business Mathematics and Statistics, Ann Book Pvt. Ltd.*, New Delhi.
- Gupta, S.C. (1993), *Fundamentals of Applied Statistics*, S. Chand & Sons, New Delhi.

OR

ECO – 113 (A) Regional Economics

Objectives:

The intervene effectively and meaningfully, to pull up economically and socially the less developed regions, it is necessary to understand the dynamics of regional development. This paper begins with an elucidation of the terms and concepts, Students are given a broad overview of the techniques of regional analysis. The paper also contains a section on the regional aspects of the Indian economy including the Indian experience in regional policy formulation and implementation.

Unit: I Concepts:

Why Regional Economics?, What is a region?, Different types of regions; Regional Income; Problems of estimation; Indicators of regional development.

Unit: II Regional Policy:

People prosperity versus place prosperity; Formulation of interregional objectives; Consistency between national and regional objectives; Alternate regional policy measures; Historical evidence

Unit III Inter-regional Differentials in India's Development:

Agriculture, Industry, Physical Infrastructure, Social Sector.

Unit IV Regional Policy in India:

The pre- 1970 era identification of backward regions; Concerted policy measures, Liberalization and regional policy.

BASIC READING LIST:

- Chand M. and Puri, V.K. (1983), *Regional Planning in India*, Allied and Publishers, New Delhi.
- Hoover E. M. (1974), *An Introduction to Regional Economics*, Alfred A. Knopf, New York.
- Isard W. (1960), *Methods of Regional Analysis*, MIT Press, Cambridge, Mass.
- Nair, K.R.G. (1982), *Regional Experience in a Developing Economy*, Wiley-Eastern, New Delhi.
- Richardson H. W. (1969), *Regional Economics*, weidenfield and Nicolson, London.
- Brahmananda P. R. and Panchmukhi (Eds.), (2001), *Development Experience in the Indian Economy; Inter-State Perspectives*, Bookwell, Delhi.

ADDITIONAL READING LIST:

- Beckman M. (1968), *Location Theory*, Random House, London.
- Bhalla G.S. and Alagh Y.K. (1979), *Performances of Indian Agriculture: A District-Wise Study*, Sterling, New Delhi.
- Dholakia R.H. (1985), *Regional Disparity in Economic Growth in India*, Himalaya Publishing House, Mumbai.
- Friedman J. and W. Alonso (Eds), (1975), *Regional Policy Readings in Theory and Application*, MIT Press, Cambridge, Mass.
- Glasson J. (1975), *An Introduction to Regional Planning: Concept, Theory and Practice*, Hutchison. London.
- Rao H. (1984), *Regional Disparities and Development in India*, Ashish Publishing House, New Delhi.
- Williamson J. G. (1985), *Regional Inequality and the Process of National Development, Economic Development and Cultural Change*, Vol. 13, No. 4, Part II, July.

ECO – 114 Industrial Economics

Objectives:

In the contemporary world with globalization and liberalization more and more attention is being given to industry. This paper intends to provide knowledge to the students on the basic issues such as concepts and organization of a firm, productivity, efficiency, capacity utilization and debates involved in the industrial development of India.

Unit I: Introduction:

Need, importance and role of industries in economic and social development, Industry and agriculture sector linkages, Industrial classification.

Unit II: Industrial Organization and Ownership Structure:

Public, Private, Joint and Co-operative sectors, private corporate sector, MNCS and their role.

Unit III: Location and Dispersion:

Location of industries - Theories of location, diversification, integration and merger of industrial units, Dispersion and problem of regional imbalance.

Unit IV: Composition of Industrial Sector:

Structure of large - scale industries in India. Sugar, Cotton, Iron and Steel, Agro Processing Industries, Cottage and Village Industries and Rural industrialization.

BASIC READING LIST:

- Barthwal, R.R. (1992), Industrial Economics: An Introductory Text Book, Wiley Eastern Ltd. New Delhi.
- Cherunilam, F. (1994), Industrial Economics: Indian Perspective, (3rd Edition), Himalaya Publishing House, Mumbai.
- Desai, B. (1999), Industrial Economy in India, (3rd Edition), Himalaya Publishing House, Mumbai.

- Kuchhal, S.C. (1980), Industrial Economics, Himalaya Publishing House, Mumbai.

ADDITIONAL READING LIST:

- Ahluwalia I.J. (1995), Industrial Growth in India, Oxford University Press, New Delhi.
- Brahmaanda, P.R. and V.R. Panchamukhi (Eds) (1987), The Development Process of the Indian Economy, Himalaya Publishing House, Mumbai.
- Clarkson, K.W. and R Miller (1985), Industrial Organization : Theory, evidence and Public policy, McGraw Hill, Kogakusha, Tokyo.
- Devine, P. J. et. al. (1978), An Introduction to Industrial economics, (3rd edition), George Allen and Unwin, London.
- Government of India, Economic Survey (Annual), New Delhi.
- Government of India, Ninth Five Year Plan (1997 - 2000), Vol. I & II, Planning Commission, New Delhi.
- Mamoria and Mamoria (2000), Dynamics of Industrial relation in India, (15th Edition), Himalaya Publishing House, Mumbai.
- Naidu, K.M. (1999), Industrialization and Regional Development in India, Reliance publishing House, New Delhi.
- Reserve Bank of India; Report on Currency and Finance (Annual), Mumbai.

OR

ECO – 114 (A) Foreign Trade and International Institutions

Objectives:

The paper provides a deep understanding about the broad principles and theories, which tend to govern the free, flow of trade in goods, services and capital. Besides, preparing the students about the relevance and limitations of these principles, the contents of the paper spread over different units, lay stress on the theory and nature of the subject which, in turn, will greatly help them to examine the impact of the trade policies followed both at the national and international levels.

Unit-I: Foreign Trade in India:

Recent change in the composition and direction of foreign trade; causes and effects of persistent deficit in the balance of

payments; measures adopted by the government to correct the deficit. Need for and rational of trade reforms in India. Recent export and import policies of India, role of multinational corporations in India.

Unit-II: International Economic Institution:

Limitations of devaluation, functions of IMF, World Bank and GATT/WTO, Reform of the international monetary system and Indian regional trade agreement- SAARC, ASEAN, and BRICS.

Unit-III: New Trade Policy, Features and Evaluations:

Provisions and implications- Priority for exports; Market-orientation of trade, Self-balancing mechanism; critical evaluation- different from of old policies; outward – looking strategy; Beneficial elements; several limitations and limits.

Unit-IV: Rupee, Exchange Rate and Convertibility:

Falling Exchange Rate-Meaning and magnitude; main objectives; Consequences and evaluation- convertibility of Rupee-meaning and the system; important benefits; condition of success.

BASIC READING LIST:

- Aggrawal M. R. (1979), Regional Economic Co-operation in South as iq, S. Chand and Co. New Delhi.
- Bhagwati, J. (Ed.) (1981), International Trade Selected Readings, Cambridge University press, Mass.
- Crockett, A. (1982), International Money: Issue and Analysis ELBS and Nelson, London.
- Greenway, D. (1983), International Trade Policy, Macmillan Publishers Ltd. London.
- Heller, H. R. (1968), International Monetary conomics, Prentice Hall, India.
- Joshi, V. and I. M. D. Little, (1998), India's Economic Reforms, 1999-2001, Oxfrpd University press.
- Nayyar, D. (1976), India's Exports and Export Policies in the 1960's, Combridge University press, Combridge.
- Panchmukhi, V. R. (1978), Trade policies of India: A quantitative Analysis, Concept publishing company, New Delhi.

- Agrawal A. N. (2010) *Indian Economy: Problems of Development and planning*. New Age International Publishers, New Delhi.

ECO-115: Indian Economic Thinkers

Objectives:

This paper is essential for a student who aspires for advanced training in economics in India. The evolution of economic idea in each instance was as much a response to immediate economic problems and policy issues as much as it was a self-conscious attempt to refine earlier analysis by correcting mistakes and filling in the gaps in analysis.

Unit- I: Economic Thought of Koutilya:

Economic policies, concept of welfare state, principle of taxation.

Unit- II: Economic Ideas of Nauroji, Ranade and Datt:

Economic ideas of Dadabhai Nauroji - contribution to economic policies, Drain Theory, M.G. Ranade- Economic policies, political economic policies. R.C. Dutt- Economic ideas. Manvendra Roy- Economic ideas and concept of new humanism.

Unit- II: Economic Ideas of Mahatma Gandhi:
Economic ideas of Mahatma Gandhi- Sarvodaya, Village Swaraj, Swadeshi. Dr. B.R.Ambedkar- State socialism, Problems of Rupee, Public finance. Mahatma Phule's views on agriculture, reasons of farmer's poverty. D.R. Gadgil- Economic planning & co-operation, Y.B. Chavan: Thoughts of agriculture, industries & socialism.

Unit- IV: Economic Thoughts of Amartya Sen:

Economic welfare, Social Choice.

BASIC READING LIST:

- Kautilya, (1992), The Arthashastra Edited Rearranged Translated and Introduced by L.N. Rangrajan, Penguin Books, New Dehli.
- Dr. Babasaheb Ambedkar Writings and Speeches: Vol.6 compiled by Vasant Moon, Education Dept., Govt. of Maharashtra.
- Gandhi, M.K. (1947), India of My Dreams, Navajivan Publishing House, Ahmedabad.
- Koot, G.M. (1988), English Historical Economics : 1850-1926, Cambridge University Press, Cambridge.
- Rao, M.N. (1964), Memoris, Allied Publishing house, Bombay.
- Principles of Economics: KPM Sundharam, M.C. Vaish.
- Selected Writings and Speeches of Dr. Gadgil on Planning and political Problems. Ed. By. Subha Brahme.
- Mahatma Fule: Ed. By Y.D. Fadke.
- Manvendra Ray Ed. By V.B. Karnik.
- Naoraji, D. (1962), Poverty and Un - British Rule in India, Law Price Publications, Delhi.
- Singh, Y.D. (Ed). (1965), Economic History of India, 1857-1965, Allied Publishers Private Limited, Bombay.
- Dutt, R.C. (1950), The Economic History of India under Early British Rule, Low Price Publications, Delhi.

ECO - 115 (A) Economic Thoughts of Dr. B.R. Ambedkar and Mahatma Phule

Objectives:

This main objective of this paper is to provide Information of basic economic thoughts of Dr. Ambedkar and Mahatma Phule.

Unit - I Basic Economic Ideas of Ambedkar:

- a) Currency and taxation
- b) State socialism
- c) Caste and economic development

Unit - II Dr. Ambedkar's Views on Development:

- a) Agriculture, land reform and water policy
- b) Nationalization of Industry
- c) Economic Planning, Population

Unit - III Economic Thoughts of Mahatma Phule:

- a) Phule's View on Brahmanism
- b) Religious Exploitation
- c) Social change theory and development

Unit - IV Agricultural Thought of Mahatma Phule:

- a) Jal Niti (Water Policy)
- b) Views on Moneylenders
- c) Poverty of Farmers

BASIC READING LIST:

- Narendra Jadhav (1992), Dr. Ambedkar: Economic Thought and Philosophy, Popular Prakashan Pvt. Ltd., Mumbai.
- Sadhana Thakur (2013), Socio-Economic Thoughts of B. R. Ambedkar, Daya Publishing House, New Delhi.
- Nagar V.D. and Nagar K.P. (1992), Economic Thought and Policy of Dr. Ambedkar, Segment Book, The University of Michigan.
- Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 18 Part-I,II, Dr. Babasaheb Ambedkar Charita Sadhana Prakashan Samiti, Higher & Tech. Edu., Govt. of Maharashtra, Mumbai.
- Kasare M.L. (1996), Economic Philosophy of Dr. B.R. Ambedkar, B. I. Publication Ltd. New Delhi.
- Chanchreek K.L., Saroj Prasad, Devi Singh Ashok (2013), Economic Thoughts of Dr. B.R. Ambedkar (in two Vol.), Shree Publisher,
- महात्मा फुले समग्र वाङ्मय (1991), संपादक : य. दि. फडके, महाराष्ट्र राज्य साहित्य व संस्कृती मंडळ, मुंबई.
- धनंजय कीर (1996), महात्मा जोतीराव फुले, पॉप्युलर प्रकाशन, मुंबई (चौथी आवृत्ती)
- Bakshi S.R. and Lipi Mahajan (2000), Jyotirao Phooley. IN Encyclopedic History of Indian Culture and Religion: Vol. 5: Social Reformers. Deep & Deep Publication, Delhi
- Satyashodhak Samaj Report - Pune.

- Kamble Uttam (), (in Marathi medium), Water Policy of Mahatma Phule, Saket Prakashan, Mumbai.

OR

ECO-115(B) Econometrics

Objectives:

In order to understand economic problems clearly, the knowledge of econometrics is very essential. The students in this direction are expected to have an elementary knowledge of basic concept in the econometrics. Further in the field of econometrics, Economics and Econometrics, Econometrics Models and Regression Analysis should be clearly understood by the students. This paper is meant to train the student in this direction.

Unit I: Introduction:

Meaning and nature of econometrics; Types of econometrics; Economics and econometrics, Econometrics and Statistics, Econometrics and mathematics, Importance and Limitations of econometrics

Unit II: Basic Concepts in Econometrics:

Econometrics models; Features of models, Characteristics of a good model, Model and structure; Types of variable, Types of equations; Steps in an econometrics.

Unit III: Two Variable Regression Analysis:

Population regression function; Linearity in variables and parameters; stochastic specification of PRF; Significance of stochastic disturbance term; The simple regression function.

Unit IV: Two Variable Regression Problems:

The method of ordinary least squares ;The classical linear regression model-Assumptions ;Standard errors; Properties of least squares estimators-Gauss -Markov Theorem.

BASIC READING LIST:

- Gujarati D.N.(1988) Basic Econometrics, McGraw -Hill Book Company ,New York.
- Koutsoyiannis A. (2008) Theory of Econometrics , Palgrave, New York ,2nd edition.
- Henri Theil (1979) Principal of Econometrics , John Wiley and Sons,Inc,Londan.
- Jonston J (1960) Econometric Methods.
- Henderson and Quandt () Microeconomics Theory – A Mathematical Approach , Mc Grow – Hill Book Company ,New York.
- Agrawal H.S.(1976) Introduction to Econometrics , Lakshimi- Narayan Publication Agra.
- B.C; Kapoor Kranti (2005) Fundamentals of Econometrics, Himalaya Publishing House, Nagpur.
- Kalirajan K.P.(1995) Applied Econometrics Oxford & IBH Publishing Co.Pvt Ltd,New Delhi.

OR

ECO-115(C) ECONOMY OF MAHARASHTRA

Objectives:

The students should know the basic features of the economy of Maharashtra. The students should also be able to understand the problems related to agriculture, industries, cooperative sector and infrastructure in the Maharashtra state.

Unit-I: Features of the economy of Maharashtra:

Structure and size of population - Nature and causes of Unemployment and Poverty in Maharashtra - Policy measures to overcome the problems of unemployment and poverty.

Unit-II: The problems of agriculture in Maharashtra

Productivity of agriculture - Causes of low productivity - Use of land - Land reforms - Ceiling on land holdings - Subdivision and fragmentation - Causes and remedies - Problems in the drought prone areas - remedies to overcome the problems - Policy measures of the State Government - Watershed development Programme - Irrigation in Maharashtra.

Unit-III: Cooperative movement in Maharashtra:

Progress of cooperative movement - Cooperative Societies Marketing - Cooperative Processing Units - Evaluation of cooperative Movement in Maharashtra.

Unit-IV: Infrastructure and Industrial Development in Maharashtra:

Need for Infrastructure development - Rail Transport - Road Transport - Water Transport - Structure of Industries in Maharashtra - Imbalance in the Industrial development - Factors responsible for Industrialization - Advantage Maharashtra - Recent Industrial Policy.

References:

- Economy of Maharashtra - (Ed). Bhalchandra Mungekar.
- Economic Survey of Maharashtra, Directorate of Economics and Statistics, Government of Maharashtra.
- प्रा.दत्तानोराव साठुंके व प्रा. ज.रा. पवार, महाराष्ट्राची कृषि अर्थव्यवस्था
- कामत गो. स.- सहकार : तत्त्व, व्यवहार आणि व्यवस्थापन
- महाराष्ट्रातील सहकारी चळवळ एक दृष्टिक्षेप -1995 सहकार आयुक्त व निबंधक, सहकारी संस्था , महाराष्ट्र राज्य पुणे.

ECO- 116 Project Work (Annual Assessment)

Objectives: This course will inform students about the project writings skill as per the study of research methodology techniques. It's also deals with the deep study of specific topic.

Note:

1. The evaluation of completed project works and presentation examination will be done in the presence of external examiner appointed by University Authority. Scheme of marking will be done as per the following manner.
 - A) Project Report : 80 marks
 - B) Presentation : 20 marks
 2. Schedule of project work of examination will be in the month of February (at the end of VIth semester).
 3. Passing criteria will be 40 marks out of 100 marks.
-

Org. 2015-2016
B.A. III year
Public Administration

8.B.A. Public Admin. IIIrd Yr. Sem.V & V - 1 -

8-30th May, 2015 AC after Circulars from Circular No.1 & onwards - 3 -
DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/SU/Social Sci./B.A.III Yr. Syll./3/2015

It is hereby notified for information to all the concerned that,
on the recommendation of the Faculty of Social Sciences the
Academic Council at its meeting held on 30-05-2015 has accepted
the revised syllabi as mentioned against their names under the
Faculty of Social Sciences as under :-

Sr. No.	Name of the Subject	Semester
[1]	History	V & VI
[2]	Economics	V & VI
[3]	Psychology	V & VI
[4]	Geography	V & VI
[5]	Sociology	V & VI
[6]	Home Science	V & VI
[7]	Political Science	V & VI
[8]	Public Administration	V & VI
[9]	Social Work	V & VI
[10]	Philosophy	V & VI
[11]	Military Science	V & VI
[12]	Library & Information Science	I to VI Progressively
[13]	B.A. Travel and Tourism Management [Optional]	I to VI Progressively
[14]	Thoughts of Mahatma Phule & Dr. Ambedkar	V & VI effective from 2016-2017 & onwards

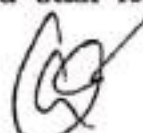
This is effective from the Academic Year 2015-16 & onwards as
appended herewith.

All concerned are requested to note the contents of the circular
and bring the notice to the students, teachers and staff for their
information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/SOCIAL SCI./
2015/3310-709

Date:- 16-06-2015.

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Director,
Board of College and
University Development.

S-30th May, 2015 AC after Circulars from Circular No.1 & onwards

- 4 -

:: 2 ::

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned colleges,
Dr. Babasaheb Ambedkar Marathwada University

Copy to :-

- 1] The Controller of Examinations,
- 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 3] The Superintendent, [B.A. Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The Record Keeper.

S*/-160615/-

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**D.R. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Syllabus of

B.A. III YEAR

Public Administration

Semester-V & VI

[Effective from 2015-16 & onwards]

[Signature]
(Dr. Sushil Kumbhar)

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

Syllabus of B.A. Third Year
Semester Vth & VIth

(Effective From-June 2015-2016)

Revised Syllabus- Effective From 2015-2016

Paper No.	Title of the Paper	Periods Allotted	Marks
Semester Vth			
PA-109 (IX)	Human Resource Development	60	50
PA-110 (X)	Educational Administration in India	60	50
PA-111 (XI)	Administrative Thinkers	60	50
PA-112(XII)	Project Work	-	-
Semester VI th			
PA-113(XIII)	Public Policy and Development	60	50
PA-114 (XIV)	Health Administration in India	60	50
PA-115 (XV)	Recent Trends in Public Administration & Important Laws	60	50
PA-116 (XVI)	Project Work 1. Administrative Corruption 2. People's Participation 3. Women Empowerment 4. Swachh Bharat Abhlyan 5. Regional Imbalance & Development 6. Disaster Management 7. Visits to Administrative Offices 8. Good Governance 9. Student Absenteeism in classes 10. Health Problems 11. Water Problems 12. Global Warming		Project Writing- 80 Oral Exam-20

Chairman,


(Dr. Satish Thombre)

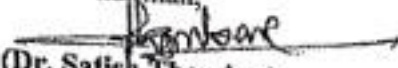
B.O.S., Public Administration,
Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
Syllabus of B.A. Third Year
Vth Semester
(Effective From-June 2015-2016)

Vth Semester

- PA-109 (IX)- Human Resource Development
PA-110 (X)- Educational Administration in India
PA-111 (XI)- Administrative Thinkers
PA-112 (XII)- Project Work

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(Dr. Satish Thombre)

B.O.S., Public Administration,
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Public Administration
B.A. Third Year
Semester Vth
(Effective From-June 2015-16)

PA- 109	Paper- IX	Human Resource Development	Periods
1	Human Resource Development : a. Meaning, Nature and Importance b. Ministry of Human Resource Development: Composition, Functions & Role		15
2	Role of Institutions in Human Resource Development: a. Central Board of Secondary Education (CBSE) b. National Council for Educational Research & Training (NCERT)		10
3	Means of Human Resource Development: a. Higher Education and Research b. Vocational and Technical Education c. Value Education d. Personality Development		15
4	Human Resource Management: a. Meaning, Nature, Importance & Objectives of HRM b. Recruitment		10
5	Human Resource Planning: a. Concept, Need and Significance b. Process of Planning		10

References/ Recommended Books

1. Kishorilal, "Human Resource Management" Avinash paper books, Delhi 2009
2. P. Murli Krishana , " Human Resource Development", Discovery publishing house, New Delhi 1998
3. C. B. Gupta, "Human Resource Management" Sultan chand & Sons
4. Dwivedi R.S. , " Managing Human Resources" Galgoti publishers , New Delhi 2002
5. Dudeja V.D. , " Human Resource Management" commonwealth new Delhi
6. C.B. Mamoria & Ganekar , " Human Resource Management" Himalaya publishing house
7. S.L. Goel, T.N. Chaturvedi, "Right to Information & Good Governance", Deep &Deep Publications Pvt, Ltd.
8. डॉ. प्रभाकर देशमुख ,डॉ. रवींद्र देशमुख " मानवी संसाधन व्यवस्थापन" विपक्षपुरे बुक , नागपूर
9. डॉ श्रीनिवास जोशी , डॉ. प्रकाश कोठारे, डॉ. नंदकिशोर दायजा, "मानवी संसाधन व्यवस्थापन"
10. डॉ. सुधीर बोधनकर , डॉ. मेधा कानेटकर, "मानवी संसाधन व्यवस्थापन" श्री साईनाथ प्रकाशन नागपूर.

Public Administration
B.A. Third Year
Semester - Vth
(Effective From-June 2015-16)

PA-110	Paper- X	Educational Administration in India
Chapters		Periods
1. Education: Meaning, Objectives and Importance		05
2. Historical Background of Education:		15
a. Kothari Commission-1966		
b. National Education Policy-1986		
c. National Knowledge Commission-2005		
d. Rashtriya Uchchar Shiksha Abhiyan (RUSA)		
3. Institutions in Higher Education:		10
a. University Grants Commissions (UGC)		
b. Directorate of Higher Education (DHE)		
c. Universities		
d. Colleges		
4. Quality Control Institutions in Higher Education		10
a. National Assessment and Accreditation Committee (NAAC)		
b. All India Council for Technical Education (AICTE)		
5. Challenges before Higher Education in India:		10
a. General Enrollment Ratio in Higher Education		
b. Higher Education and Employability		
c. Higher Education and Quality		
6. Globalization and Higher Education- Impact and Consequences		10

References/ Recommended Book

1. Ritu Sharma –“Development of Education System in India, Alfa Publication, New Delhi,2007
2. Ram Sayer-“Introduction of Educational Development”, Compell,Corbally
3. Lulla B.P & Murly S.K-“Essential of Educational Administration”
4. Mathur S.S-“Educational Administration, Principles & Practices
5. Lesien D. crow , Alice crow – “ Introduction to Education , “ surjeet publications , Delhi
6. T. Raymont, “ The Principles of Education” , surjeet publications , Delhi
7. Dr. R.S. Pandey, “ principals of education”, Vinod pustak mandar, Agra-2
8. U.K. Singh, K. N. Sudarshan , “ Higher Education”, Discovery Publishing House, New Delhi.
9. Safaya Shaida, Shakin, “Modern Educational Administration And Management”, Dhanpat raj publishing company, New Delhi
10. Charles E. Skiners, “Elementary Educational Psychology”, Surjeet publication, Delhi.

- 1. $\frac{d}{dt} \ln x = \frac{1}{x} \frac{dx}{dt}$ - (Derivat von $\ln x$) - Bestimmen von $\frac{dx}{dt}$
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- 7. $\frac{d}{dt} \ln x = \frac{1}{x} \frac{dx}{dt}$ - (Derivat von $\ln x$) - Bestimmen von $\frac{dx}{dt}$

Public Administration
B.A. Third Year
Semester - Vth
(Effective From-June 2015-16)

PA- 111	Paper-XI	Administrative Thinkers
Chapters		Periods
1. F.W. Taylor :		10
a. Concept of Scientific Management		
b. Principles & Techniques of Scientific Management		
2. Max Weber:		05
a. Ideal model of Bureaucracy		
3. Henry Fayol:		10
a. Elements of Management		
b. Principles of Management		
4. Mary Parker Follet:		10
a. Concept of Authority		
b. Conflict and Integration		
5. Elton Mayo:		05
a. Hawthorne Experiments		
6. Herbert Simon:		10
a. Behavioral Approach		
b. Decision Making Approach		
7. F.W. Riggs:		10
a. Ecological Approach		
b. Prismatic Society		

References/ Recommended Books

1. Maheshwari S. R. - "Administrative Thinkers", Macmillan India Limited, Mumbai-1998.
2. Manoj Sharma- "Administrative Thinkers", Anmol Publication Pvt. Ltd, New Delhi-2004.
3. Sumsun Nisa Ali- "Eminent Administrative Thinkers" Associated Publishing House, NewDelhi-1984.
4. M.P.Sharma & B. L.Sadana - "Public Administration in Theory & Practice". Kitab Mahal Publication, Allahabad.
5. Mukhi H.R.- " Administrative Thinkers"

6. श. युवा कौशल, 'उत्साही श्रम' मध्ये विद्यमान प्रश्न, अर्थ शिर्षक 1000
7. श. युवा कौशल, 'उत्साही श्रम' मध्ये विद्यमान प्रश्न, अर्थ शिर्षक 1000
8. श. युवा कौशल, 'उत्साही श्रम' मध्ये विद्यमान प्रश्न, अर्थ शिर्षक 1000
9. युवा कौशल, 'उत्साही श्रम', अर्थ शिर्षक 1000
10. युवा कौशल, 'उत्साही श्रम', अर्थ शिर्षक 1000
11. श. युवा कौशल - 'उत्साही श्रम', अर्थ शिर्षक 1000

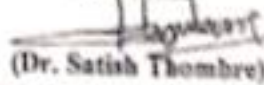
Public Administration
B.A. Third Year
Semester Vth
(Effective From-June 2015-16)

PA- 112

Paper- XII

Project Work

Chairman


(Dr. Satish Thombre)

H.O.S., Public Administration,
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Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
Syllabus of B.A. Third Year
Semester VIth
(Effective From-June 2015-2016)

VIth Semester

PA-113 (XIII)- Public Policy and Development

PA-114 (XIV)- Health Administration in India

PA-115 (XV)- Recent Trends in Public Administration and Important Laws

PA-116 (XVI)- Project Work

Chairman


(Dr. Satish Thombre)

B.O.S., Public Administration,
Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad.

1. Public Policy: Meaning, objectives, types & process
2. Public Policy Formulation:
 - a. Executive
 - b. Legislature
 - c. Judiciary
 - d. Media
 - e. Civil society
3. Public Policy Implementation:
 - a. Executive
 - b. Bureaucracy
4. Public Policies in India
 - a) Disinvestment Policy (1991)
 - b) National Water Policy-(2012)
 - c) Food Security Policy (2013)
 - d) Land Reforms Policy (2013)
- 4 Development : Meaning and Concept
 - b. Sustainable Development
 - c. Inclusive Growth
 - d. Providing Urban Amenities in Rural Areas(PURA) (24 Feb. 2012)
- 5 Challenges before Development:
 - a. Population Explosion
 - b. Unemployment
 - c. Poverty
 - d. Pollution

References/ Recommended Books

1. Maeshwari S.R – Public Policy Making in India, The Indian Journal of Political Science , Vol.48 No.3,1987
2. Saigal Krishna –“Policy Making in India” Vikas, New Delhi
3. R.K Sapru-“Public Policy”, PWI Learning Private Ltd, New Delhi ,2010
4. Vineetha Menon-“Public Policy & Administration” Wisdom Press , New Delhi ,2014
5. R.K Sapru- “Public Policy”, Sterling, New Delhi,1992
6. Jones C.O-“An Introduction to the Study of Public Policy , Belmont, Prentice ,1970
7. Thomas R. Dye- “Public Policy” , Pearson Education, 2004
8. Ganpathy R.S- “Public Policy & Policy Analysis in India” , New Delhi, 1985
9. Dunn, Willam. N- “Public Policy Analysis: An Introduction” ,Englewood Cliffs,1981

10. Macshwari Shiram- Administative Theory An Introduction, Macmillan India Ltd. Delhi, 2013
11. Arvind Shrivaram Krishanan , "public policy and citizenship", sage publication, Delhi
12. Ashutoshkumar , "Development Administration", Anmol publications, Delhi.
13. प्रा.के.आर. बंग , "विकास प्रशासन", विद्यावृक्स पब्लिशर्स औरंगाबाद

Public Administration		
B.A. Third Year		
Semester- VIth		
(Effective From-June 2015-16)		
PA-114	Paper- XIV	Health Administration in India
Chapters		Periods
1. Indian Health Care system:		15
a) Health Care Administration- Scope and Importance		
b) Indian National Health Policy (2002)-Important Features		
1. Status of Public Health Infrastructure		
2. Information, Education and Communication in Health.		
2. Health and Family Welfare Ministry		10
1. Organization		
2. Major Programs:-		
a. National Aids Control Program (NACO)		
b. Revised National TB Control Program (RNTCP)		
c. Immunization Program		
3. National Rural Health Mission:		10
1. Aims of NRHM		
2. Institutional Machinery of NRHM		
3. Importance of NRHM		
4 Determinants of Health:		15
1. Safe Drinking Water		
2. Nutrition		
3. Sanitation and Hygiene		
4. Health Education		
5. Access for Health Care Services		

5. Challenges before Indian Health Care System:

1. Financial Resources
2. Shortage of Manpower
3. Community Participation

10

References/ Recommended Books

1. S.L Goel-"Right to Information & Good Governance", Deep & Deep Publication Pvt.Ltd.New Delhi 2007
2. S.L Goel-"Advanced Public Administration", Deep & Deep Publication Pvt.Ltd.New Delhi 2008
3. Rameshwaram -"Health Administration in India", Ashis Publication, New Delhi
4. K. Balan. " Health for all by 2000 Ad, Ashish pub. House, New Delhi,1989
5. Sumedha Gupta, " A text Book of Health care Management," Kalyani publishers , Ludhiyana, New Delhi.
6. Supru R.K., " Health Care policy and Administration in India." Indian Journal of public Administration , July Sept. 1997
7. Singh Uttamkumar , Nayak A.K. , " Health Education" , Common Wealth Publishers , New Delhi 2005
8. Omprakash chaturvedi , " History of Health care Administration " Delhi- 2014
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Public Administration
B.A. Third Year
Semester – VI th
(Effective From-June 2015-16)

PA-115 Paper-XV Recent Trends in Public Administration and Important Laws

Chapters	Periods
1. Recent Trends in Public Administration :	40
a. New Public Administration Concept and Elements	
b. New Public Management - Meaning and Characteristics	
c. Public Choice Approach - Meaning and Characteristics	
d. Civil Society - Role and Importance	
e. Citizens Charter - Meaning and Importance	
f. Good Governance - Concept and Application	
g. E-Governance - Opportunities and Challenges	
h. Disaster Management	
2. Important Laws:	20
a. Civil Rights Protection Act-1955 Objectives, Machinery and Implications	
b. Consumer Protection Act- 1986 Definition, Machinery and Implications	
c. Environment Protection Act-1986 Objectives, Machinery and Implications	
d. Right to Public Services Act-2013 Objectives and Importance	

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Public Administration
B.A Third Year
Semester VIth
(Effective From-June 2015-16)

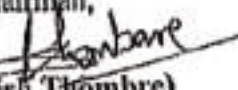
PA- 116

Paper- XVI

Project Work

Paper No.	Title of the Paper	Periods Allotted	Marks
PA-116 (XVI)	Project Work 1.Administrative Corruption 2. Peoples Participation 3. Women Empowerment 4.Swacch Bharat Abhiyan 5. Regional Imbalance & Development 6. Disaster Management 7.Visits to Administrative Offices 8. Good Governance 9.Student Absenteeism in classes 10.Health Problems 11.Water Problems 12. Global Warming	120	100 Project Writing- 80 Oral Exam-20

Chairman,


(Dr. Satish Thombre)

B.O.S., Public Administration,
Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad.

08/06/2015-2016.

B.A. III year.
Hindi

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/SU/Arts/B.A.III Yr. Syll./1/2015

It is hereby notified for information to all the concerned that, on the recommendation of the Faculty of Arts the Academic Council at its meeting held on 30-05-2015 has accepted the **Revised Syllabi under the Faculty of Arts as under :-**

Sr. No.	Name of the Subject	Semester
[1]	Marathi	V & VI
[2]	Hindi	V & VI
[3]	English	V & VI
[4]	Urdu & Arabic	V & VI
[5]	Pali and Buddhism	V & VI
[6]	Sanskrit	V & VI
[7]	Islamic Studies	V & VI

This is effective from the Academic Year 2015-16 & onwards as appended herewith.

All concerned are requested to note the contents of the circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/COMM./
2015/2605-3004
Date:- 15-06-2015.

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Director,
Board of College and
University Development.

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned colleges,
Dr. Babasaheb Ambedkar Marathwada University

Copy to :-

- 1] The Controller of Examinations,
- 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 3] The Superintendent, [B.A. Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The Record Keeper.

**DR. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD**



**Syllabus of
B.A.III Year
HINDI
Semester - V & VI**

(Effect from - 2015-2016 and onwards)

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Dr. S.K. Bhandarkar
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Dr. B.K. Kulkarni
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Dr. Saptarshi S. H.

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9/11/2015
Dean
Faculty of Hindi

बी.ए. तृतीय वर्ष

पेपर क्र. IX - प्रादेशिक साहित्य

पंचम सत्र (Semester-V)

उद्देश्य	:		
	१	साहित्य अस्वादन-अभिरुचि का परिसंस्कार	
	२	जीवन मूल्यों के प्रति आस्था	
	३	प्रादेशिक साहित्य का ज्ञान	
	४	भारतीय साहित्य का अध्ययन	
अध्ययन-अध्यायन पद्धति	:		
	१	व्याख्यान पद्धति	
	२	लेखन एवं पठन कौशल विकास के लिए अभ्यास	
पाठ्यक्रम	:	अ. मराठी साहित्य	
	१	मराठी का कहानी साहित्य : सामान्य परिचय	
	२	दलित आत्मकथा साहित्य : सामान्य परिचय	
पाठ्यपुस्तके:			
	१	प्रतिनिधि कहानी : मराठी संपा: डॉ. माधव सोनटक्के, राजकमल प्रकाशन, नई दिल्ली	
	२	पराया: लक्ष्मण माने अनुवादक डॉ. दामोदर खडसे साहित्य अकादमी, रवीन्द्र भवन, फीरोजशाहा रोड, नई दिल्ली	

पाठ्यपत्र	:		
	१	मराठी कहानी साहित्य का विकासक्रम	
	२	संकलित कहानियों की संवेदना	
	३	संकलित कहानियों का शिल्प -विधान	
	४	मराठी दलित साहित्य: सामान्य परिचय	
	५	पराया की संवेदना	
	६	पराया का शिल्प -विधान	
संदर्भ ग्रंथ	:		
	१	प्रादेशिक भाषा और साहित्येतिहास - डॉ. सूर्यनारायण रणसुभे संपा. लातूर जिला हिंदी साहित्य परिषद, लातूर.	
	२	प्रादेशिक भाषा, साहित्य : मराठी पहचान और परख, प्रा. गुलाबराव हाडे नक्षत्र प्रकाशन, औरंगाबाद.	

प्रश्नपत्र का प्रारूप एवं अंक विभाग

	कुल अंक - ५०
प्रश्न १. ससंदर्भ व्याख्या विकल्प साहित्य (प्रतिनिधि कहानी):	१०
प्रश्न २. प्रतिनिधि मराठी कहानियों पर दीर्घांतरी प्रश्न विकल्प सहित :	१५
प्रश्न ३. 'पराया' पर दीर्घांतरी प्रश्न विकल्प सहित :	१५
प्रश्न ४. टिप्पणियाँ	
अ. प्रतिनिधि मराठी कहानियों पर विकल्प सहित :	०५
आ. 'पराया' पर विकल्प सहित	०५

बी.ए. तृतीय वर्ष
पेपर क्र. X - आदि तथा मध्यकालिन हिंदी साहित्य का इतिहास
पंचम सत्र (Semester -V)

उद्देश्य:

1. साहित्य आरवादन अगिरूची का परिसंस्कार
2. जीवन मूल्यों के प्रति आस्था
3. हिंदी साहित्य की परम्परा से परिचय

अध्ययन-अध्ययन प्रक्रिया

1. व्याख्यान पद्धति
 2. लेखन एवं पठन कौशल वृद्धि के लिए अध्ययन
- 1) हिंदी साहित्येतिहास: लेखन स्रोत एवं परम्परा
- हिन्दी साहित्येतिहास लेखन के प्रमुख स्रोत
 - हिन्दी साहित्येतिहास लेखन परम्परा

2) आदिकाल

- आदिकाल की सामाजिक, सांस्कृतिक तथा राजनितिक पृष्ठभूमि
- आदिकालीन साहित्य: वीरगाथा , जैन, सिद्ध तथा नाथ साहित्य
- रचनाकार -अमीर खुसरो, विद्यापति, नामदेव

3) भक्तिकाल

- भक्तिकाल की सामाजिक, सांस्कृतिक तथा राजनितिक पृष्ठभूमि
- निर्गुण भक्ति साहित्य - संत साहित्य, सूफी साहित्य
- सगुण भक्ति साहित्य - रागभक्ति साहित्य, कृष्ण भक्ति साहित्य

रचनाकार - कबीर, जगन्नी, तुलसीदास, मुरदास

4) रीतिकाल

- रीतिकाल की सामाजिक, सांस्कृतिक तथा राजनितिक पृष्ठभूमि
- रीतिकालीन साहित्य - रीतिबद्ध, रीतिसिद्ध तथा रीतिमुक्त
- रचनाकार-केशवदास, पद्माकर, बिहारी, धनानंद, भूषण

प्रश्नपत्र का प्रारूप एवं अंक विभाजन

कुल अंक- 40

1) संपूर्ण पाठ्यक्रम पर लघुत्तरी प्रश्न विकल्पसहित-	10
2) संपूर्ण पाठ्यक्रम पर दीर्घात्तरी प्रश्न विकल्पसहित -	14
3) संपूर्ण पाठ्यक्रम पर दीर्घात्तरी प्रश्न विकल्पसहित -	14
4) संपूर्ण पाठ्यक्रम पर टिप्पणियाँ चार में से दो -	10

बी.ए. तृतीय वर्ष
पेपर क्र. XI - साहित्यशास्त्र - १
पंचम सत्र (Semester -V)

उद्देश्य:

- १) साहित्य चिंतन का अध्ययन
- २) साहित्यालोचन क्षमता का परिचय
- ३) साहित्य सृजन के संस्कार

अध्ययन-अध्यापन प्रक्रिया:

- १) व्याख्यान
- २) गोष्ठी, परिचर्चा तथा स्वाध्याय
- ३) अतिथि विद्वानों के व्याख्यान
- ४) साहित्यालोचन का अभ्यास

पाठ्यक्रम-

१) साहित्य का स्वरूप:

- साहित्य से तात्पर्य
- संस्कृत आचार्यों द्वारा प्रस्तुत साहित्य-परिभाषाएँ
- पाश्चात्य आचार्यों द्वारा प्रस्तुत साहित्य - परिभाषाएँ
- हिंदी विद्वानों द्वारा प्रस्तुत साहित्य - परिभाषाएँ

२) साहित्य के तत्व:

- भाव तत्व
- विचार या बुद्धितत्व
- कल्पना तत्व
- शैली तत्व

३) साहित्य-प्रयोजन

- प्रयोजन से तात्पर्य
- संस्कृत आचार्यों द्वारा प्रस्तुत साहित्य प्रयोजन
- पाश्चात्य आचार्यों द्वारा प्रस्तुत साहित्य प्रयोजन
- हिंदी विद्वानों द्वारा प्रस्तुत साहित्य प्रयोजन

४) साहित्य-हेतु:

- हेतु से तात्पर्य
- संस्कृत आचार्यों द्वारा प्रस्तुत साहित्य हेतु
- पाश्चात्य आचार्यों द्वारा प्रस्तुत साहित्य हेतु
- हिंदी विद्वानों द्वारा प्रस्तुत साहित्य हेतु

५) शब्दशक्ति विचार

- शब्दशक्ति से तात्पर्य
- शब्दशक्ति के प्रमुख भेद

६) रस विचार

- रस का स्वरूप
- रस: भारतीय दृष्टिकोण
- रस: पाश्चात्य दृष्टिकोण
- रस-निष्पत्ति: रस सूत्र की प्रमुख व्याख्याएँ
- रस भेद-सामान्य परिचय : शृंगार, वीर, करुणा, रौद्र, भयानक, वीभत्स, अद्भुत, शांत, भक्ति, वात्सल्य

प्रश्नपत्र का प्रारूप एवं अंक विभाजन

	कुल अंक -५०
१) संपूर्ण पाठ्यक्रम पर विकल्पसहित लघुत्तरी प्रश्न -	१०
२) संपूर्ण पाठ्यक्रम पर विकल्पसहित दीर्घोत्तरी प्रश्न -	१५
३) संपूर्ण पाठ्यक्रम पर विकल्पसहित दीर्घोत्तरी प्रश्न	१५
४) संपूर्ण पाठ्यांश पर टिप्पणियाँ चार में से दो-	१०

बी.ए. तृतीय वर्ष
पेपर क्र. XII- प्रकल्प कार्य - १
पंचम सत्र (semester-V)

उद्देश्य :

१. पठन - लेखन कौशल का विकास
२. आलोचनात्मक क्षमता का विकास
३. अनुसंधानात्मक दृष्टि का विकास

अध्ययन - अध्यापन प्रक्रिया :

१. लेखन निर्देशन

प्रकल्प का स्वरूप :

१. भाषा, साहित्य, साहित्येतिहास, साहित्यशास्त्र आदि से संबंधित विषय का चयन कर प्रकल्प लेखन किया जाए।
२. विषय चयन अध्यापक के निर्देशन में हो।
३. प्रकल्प कम से कम २५ तथा अधिक से अधिक ४० टंकित पृष्ठों का हो।
४. प्रकल्प कार्य स्पायरल बाईंडिंग करके प्रस्तुत किया जाए।
५. इसका मूल्यांकन निर्देशक अध्यापक के द्वारा किया जाए।
६. प्रकल्प १०० अंको का हो।

बी.ए. तृतीय वर्ष
पेपर क्र. XIII- मध्यकालीन काव्य
षष्ठ रात्र (Semester -VI)

उद्देश्य:

- १) भारतीय भाक्ति आंदोलन का अध्ययन
- २) रीतिकालीन संवेदना का अध्ययन
- ३) कविता के माध्यम से मध्यकालीन सांस्कृतिक संवेदना का अध्ययन

अध्ययन-अध्यापन प्रक्रिया:

- १) व्याख्यान पद्धति
- २) अतिथि विद्वानों के व्याख्यान
- ३) परिचर्चा

पाठ्यक्रम:

- १) भक्तिकालीन काव्य : सामान्य परिचय
- २) रीतिकालीन काव्य : सामान्य परिचय

पाठ्यपुस्तक:

- १) मध्यकालीन काव्य, संपा. डॉ. माधव सोनटक्के, डॉ. सुकुमार भंडारे, वाणी प्रकाशन दिल्ली.

पाठ्यांश : भक्ति तथा रीतिकाल : पृष्ठभूमि एवं प्रवृत्तियाँ

- १) भक्तिकालीन कविता : संवेदना
- २) भक्तिकालीन कविता: शिल्प विधान
- ३) रीतिकालीन कविता : संवेदना
- ४) रीतिकालीन कविता : शिल्प विधान

संदर्भ ग्रंथ

१. भक्तिकालीन काव्य में मानवीय मूल्य-डॉ. हणमंतराव पाटील।
२. कबीर ग्रंथावली- डॉ. भगवत स्वरूप मिश्र।
३. ऐसा चाहूँ राज मैं--- संत सिपाई रैदास-कुलदिप कुमार।
४. सांझी संस्कृति की विरासत- डॉ. सुभाष चंद्र।
५. रहीम- विजयेन्द्र रनातक
६. संत नामदेव और हिन्दी पद-साहित्य- डॉ. रामचंद्र मिश्र।
७. कबीर: कल और आज - संपा.डॉ. अशोक मर्डे।

प्रश्नपत्र का प्रारूप एवं अंक विभाजन:

	कुल अंक - ५०
प्रश्न १. ससंदर्भ व्याख्या विकल्प सहित	१०
प्रश्न २. भक्तिकालीन कविता पर दीर्घोत्तर प्रश्न विकल्प सहित	१५
प्रश्न ३. रीतिकालीन कवितापर दीर्घोत्तर प्रश्न विकल्प सहित	१५
प्रश्न ४. टिप्पणियाँ-	
अ. भक्तिकालीन कविता पर विकल्प सहित	०५
आ. रीतिकालीन कविता पर विकल्प सहित	०५

बी.ए. तृतीय वर्ष
पैपर क्र. XIV- आधुनिक हिन्दी साहित्य का इतिहास
षष्ठ सत्र (Semester -VI)

उद्देश्य:

1. साहित्य आस्थापन अभिवृद्धि का परिचय
2. जीवन मूल्यों के प्रति आस्था
3. हिन्दी साहित्य की परम्परा से परिचय

अभ्यसन-आस्थापन प्रक्रिया

1. व्याख्यान पद्धति
2. लेखन एवं पठन कौशल वृद्धि के लिए अभ्यसन

पाठ्यक्रम:

१. आधुनिक काल

अ) काव्य साहित्य-

- भारतेंदु युगीन कविता
- द्विवेदी युगीन कविता
- छायावादी कविता
- प्रगतिवादी कविता
- प्रयोगवादी कविता
- नई कविता
- समकालीन कविता
- दलित आदिवासी कविता

रचनाकार - भारतेंदु, आद्योध्यारिह उपाध्याय हरिऔध, मैथिलीशरण गुप्त, जयसंकर प्रसाद, सूर्यकांत त्रिपाठी निराला, सुमित्रानंदन पन्त, महोदयी वर्मा अज्ञेय, मुक्तिबोध, सुमित्र, ओमप्रकाश वाल्मीकि, मोहनदास मैथिलशराय, सुशीला टाकभीरे, निर्मला पुस्तुन, रामोदर मोरे

आ) गद्य साहित्य:

- हिंदी नाटक: उद्भव और विकास
- हिंदी कहानी: उद्भव और विकास
- हिंदी उपन्यास: उद्भव और विकास
- हिंदी एकांकी: उद्भव और विकास
- हिंदी जीवनी: उद्भव और विकास
- हिंदी आत्मकथा : उद्भव और विकास

रचनाकार-

नाटक-एकांकी -भारतेंदु, जयशंकर प्रसाद, रामकुमार वर्मा, मोहन राकेश

कथाकार- प्रेमचंद, यशपाल, जैनेंद्र, फणीश्वरनाथ रेणु

जीवन-आत्मकथा-विष्णु प्रभाकर, हरिवंशराय बच्चन, रामविलास शर्मा, मैत्रेयी पुष्पा, मन्नु भंडारी, ओमप्रकाश, वाल्मीकि, मोहनदास नैमिशराय, सुशीला टाकभोरे,

संदर्भ ग्रंथ :

1. हिंदी साहित्य का इतिहास - डॉ. माधव सोनटक्के
2. हिंदी साहित्य : युग और प्रवृत्तियाँ- डॉ. शिवकुमार शर्मा
3. आधुनिक हिंदी साहित्य का इतिहास- डॉ.सूर्यनारायण रणसुभे
4. हिंदी साहित्य का सही इतिहास - डॉ.चंद्रभानु सोनवणे

प्रश्नपत्र का प्रारूप एवं अंक विभाजन

	कुल अंक-५०
१. संपूर्ण पाठ्यक्रम पर लघुत्तरी प्रश्न विकल्पसहित -	१०
२. संपूर्ण पाठ्यक्रम पर दीर्घोत्तरी प्रश्न विकल्पसहित -	१५
३. संपूर्ण पाठ्यक्रम पर दीर्घोत्तरी प्रश्न विकल्पसहित-	१५
४. संपूर्ण पाठ्यक्रम पर टिप्पणियाँ चार में से दो -	१०

२) छंद विचार

- छंद- तात्पर्य एवं परिभाषा
- छंद के तत्त्व
- छंद के प्रमुख भेद

अ) मात्रिक छंद-चौपाई, दोहा, सोरठा, गीतिका, कुंडलिया, रोला, हरगीतिका, बरवै, उल्लाला,

आ) वार्षिक छंद-इंद्रयज्ञा, वसंततिलका, मालिनी, मंदाक्रांता, शारिणी, भुजंगप्रयात, सवैया

३) विधा स्वरूप : विवेचन

- साहित्य विधाएँ : वर्गीकरण
- प्रमुख विधाओं का सैद्धांतिक विवेचन

अ) दृश्यकाव्य : नाटक , एकांकी रेडियोनाट्य धारावाहिक

आ) श्रव्यकाव्य : क) कविता- १) प्रबंध : महाकाव्य , खण्डकाव्य

२) मुक्तक : गीतिकाव्य

ख) गद्य विधाएँ : १) कहानी २) उपन्यास

३) निबंध ४) जीवनी

५) आत्मकथा ६) व्यंग्य

७) ललित निबंध ८) रिपोर्टाज

९) रेखाचित्र १०) संस्मरण

४) आलोचना: स्वरूप तथा भेद

आलोचना : स्वरूप एवं महत्त्व

आलोचना का कार्य

आदर्श आलोचक के गुण

आलोचना के भेद : सामान्य परिचय

• प्रमुख आलोचना भेदों का विशेष परिचय

१) सैद्धांतिक आलोचना

२) ऐतिहासिक आलोचना

३) मार्क्सवादी आलोचना

४) मनोवैज्ञानिक आलोचना

संदर्भ ग्रंथ

१. साहित्यशास्त्र- डॉ. माधव सोनटक्के

२. साहित्य शास्त्र - डॉ. चंद्रभानु सोनवणे

३. प्रयोजनमूलक तथा व्यवहारिक हिंदी - डॉ. सुकुमार भंडारे

प्रश्नपत्र का प्रारूप एवं अंक विभाजन

	कुल अंक - ५०
१) संपूर्ण पाठ्यक्रम पर विकल्पसहित लघुत्तरी प्रश्न -	१०
२) संपूर्ण पाठ्यक्रम पर विकल्पसहित दीर्घोत्तरी प्रश्न -	१५
३) संपूर्ण पाठ्यक्रम पर विकल्पसहित दीर्घोत्तर प्रश्न -	१५
४) संपूर्ण पाठ्यक्रम पर टिप्पणियाँ चार में से दो -	१०

उद्देश :


१. पठन - लेखन कौशल का विकास
२. आलोचनात्मक क्षमता का विकास
३. अनुसंधानात्मक दृष्टि का विकास

अध्ययन - अध्यापन प्रक्रिया :

१. लेखन निर्देशन

प्रकल्प का स्वरूप :

१. भाषा, साहित्य, साहित्येतिहास, साहित्यशास्त्र आदि से संबंधित विषय का चयन कर प्रकल्प लेखन किया जाए।
२. विषय चयन अध्यापक के निर्देशन में हो।
३. प्रकल्प कम से कम २५ तथा अधिक से अधिक ४० टंकित पृष्ठों का हो।
४. प्रकल्प कार्य सफायरल बाईंडिंग करके प्रस्तुत किया जाए।
५. इसका मूल्यांकन निर्देशक अध्यापक के द्वारा किया जाए।
६. प्रकल्प १०० अंकों का हो।


डॉ. सुकुमार अंगरे
अध्यक्ष
हिंदी अध्यापन मंडल

orig 2015-2016
B.A. III year
Marathi

B-30th May, 2015 AC after Circulars from Circular No.147 & onwards

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

CIRCULAR NO.ACAD/SU/Arts/B.A.III Yr. Syll./1/2015

It is hereby notified for information to all the concerned that, on the recommendation of the Faculty of Arts the Academic Council at its meeting held on 30-05-2015 has accepted the **Revised Syllabi under the Faculty of Arts as under :-**

Sr. No.	Name of the Subject	Semester
✓ [1]	Marathi	V & VI
[2]	Hindi	V & VI
[3]	English	V & VI
[4]	Urdu & Arabic	V & VI
[5]	Pali and Buddhism	V & VI
[6]	Sanskrit	V & VI
[7]	Islamic Studies	V & VI

This is effective from the Academic Year 2015-16 & onwards as appended herewith.

All concerned are requested to note the contents of the circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/COMM./
2015/2605-3004
Date:- 15-06-2015.

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Director,
Board of College and
University Development.

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned colleges,
Dr. Babasaheb Ambedkar Marathwada University

Copy to :-

- 1] The Controller of Examinations,
- 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 3] The Superintendent, [B.A. Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The Record Keeper.

DR. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD.



Syllabus of

Marathi

B.A. III Year

Semester- V & VI

(Effective from 2015 – 2016 & onwards)

डॉ. सदाशिव सरकटे

अध्यक्ष-मराठी अभ्यास मंडळ

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ,
औरंगाबाद.

Dr. S. K. Bhandarkar

Dr. S. K. Bhandarkar

Dr. S. K. Bhandarkar
Dean
Faculty of Marathi

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

मराठी विषयाच्या अभ्यासक्रमाचा आराखडा

बी.ए. तृतीय वर्ष अभ्यासक्रमाकरिता

शैक्षणिक वर्ष जून २०१५ पासून लागू

सत्र पाचवे व सत्र सहावे

डॉ. बाबासोहब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

बी.ए.तृतीय वर्ष (सत्र - पाचवे व सहावे)

शैक्षणिक वर्ष जून २०१५ पासून लागू

सत्रनिहाय अभ्यासक्रम

सत्र ५ वे

०१. अभ्यासपत्रिका ९ वी : भारतीय साहित्यविचार
०२. अभ्यासपत्रिका १० वी : भाषाविज्ञान
०३. अभ्यासपत्रिका ११ वी : मध्ययुगीन मराठी वाङ्मयाचा इतिहास (प्रारंभ ते १६००)
०४. अभ्यासपत्रिका १२ वी : प्रकल्प कार्य भाग-१

सत्र ६ वे

०१. अभ्यासपत्रिका १३ वी : पारंपार्य साहित्यविचार
०२. अभ्यासपत्रिका १४ वी : व्याकरण व निबंधलेखन
०३. अभ्यासपत्रिका १५ वी : मध्ययुगीन मराठी वाङ्मयाचा इतिहास (१६०१ ते १८१८)
०४. अभ्यासपत्रिका १६ वी : प्रकल्प कार्य भाग-२

टिप : उपमुख्य (Subsidiary) मराठी हा विषय घेऊन अभ्यास करणाऱ्या विद्यार्थ्यांनी पाचव्या सत्रातील अभ्यासपत्रिका क्र. ०९ व १० आणि सहाव्या सत्रातील अभ्यासपत्रिका क्र.१३ व १४ अभ्यासणे आवश्यक आहे.

डॉ. बाबासोहब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद
बी.ए.तृतीय वर्ष अभ्यासक्रमाकरिता
शैक्षणिक वर्ष जून २०१५ पासून लागू

सत्र पाचवे

अभ्यासपत्रिका - ९ वी - भारतीय साहित्यविचार

गुण-५०

घटक क्र.०१ : साहित्याचे स्वरूप

व्याख्या- (भागह, दण्डी, हेमचंद्र, चामन, रुद्रट, मम्मट, विश्वनाथ व इतर
संस्कृत अभ्यासकांच्या मतांचा विचार)

लक्षण - अलंकार, चक्रोक्ति, रीति, औचित्य, ध्वनी, रस.

घटक क्र.०२ : साहित्याची प्रयोजने

भागह, दण्डी, भरतमुनी आदींची मते

मम्मटाचा प्रयोजनविचार

घटक क्र.०३ : साहित्याची निर्मितीप्रक्रिया

(प्रतिभा, व्युत्पन्नता, अभ्यास व इतर पूरक कारणे)

घटक क्र. ०४ : रसविचार

भरताचे रससूत्र

भट्टलोल्लट, श्रीशंकुक, भट्टनायक व अग्निवगुप्त यांच्या मतांचा विचार

रसरसंख्या

रसविघ्ने

घटक क्र. ०५ : शब्दशक्ती व अर्थविचार

संदर्भ ग्रंथ

०१. देशपांडे म. श्र्. : भारतीय साहित्यविचार
०२. जोग रा. श्री. : अभिनव काव्यप्रकाश
०३. घाटणकर वसंत : साहित्यशास्त्र स्वरूप व समस्या
०४. गालगीळ स.रा. : काव्यशास्त्रप्रदीप
०५. वेडेकर दि. के. : साहित्यविचार
०६. कुलकर्णी अ.वा. : साहित्यविचार
०७. मनोहर यशवंत : नवे साहित्यशास्त्र
०८. हंडीबाग भारत : साहित्यशास्त्र , कैलास पब्लिकेशन ,औरंगाबाद
०९. सरकटे सदाशिव : साहित्यशास्त्र , कैलास पब्लिकेशन, औरंगाबाद.
१०. सरकटे सदाशिव : साहित्य समीक्षेची मूलतत्वे, एज्युकेशन पब्लिशर्स अँड डिस्ट्रीब्युटर्स,औरंगपूरा, औरंगाबाद.

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद
 बी.ए. तृतीय वर्ष अध्यापकसंस्थान
 शैक्षणिक वर्ष जून २०२१ पासून लागू
 सत्र चाचणे
 अध्यासपत्रिका - १० वी - भाषाविज्ञान

सू.१००

घटक अ. ०१: भाषेचे स्वरूप

- भाषेच्या विविध स्वरूपा
- भाषेची वैशिष्ट्ये/ लक्षण
- भाषेबाबतचे समज- गैरसमज
- भाषा: एक संकेत प्रणाली

घटक अ.०२: स्वनिम व स्वनिमविचार

- स्वनिमविचार
- स्वनिमचे स्वरूप
- स्वनिमनिर्मिती प्रक्रिया
- स्वनिमचे वर्गीकरण

घटक अ.०३: स्वनिमविचार

- स्वनिम संकल्पना
- स्वनिम निर्दिष्टीची ताले (विनिर्णय)
- स्वनिमाचे प्रकार :
- १) स्वतंत्र स्वनिम
- २) खंडाधिष्ठित स्वनिम (बलाघात , सीमासंधी, सुरागती, पारिस्वरपंजन)
- मराठीची स्वनिम व्यवस्था

घटक क्र.०४ : रुपिम आणि पदविचार

भाषिक रुप आणि रुपिका

रुपिका आणि शब्द यातील फरक

रुपिका - रुपिम - रुपिकांतर

घटक क्र.०५ : प्रमाण भाषा व बोलीभाषा

वर्णनात्मक व ऐतिहासिक भाषाविज्ञान

संदर्भ ग्रंथ

- | | |
|------------------------------|---|
| ०१. कानडे मु.श्री. (संवा.) | : मराठीचा भाषिक अभ्यास |
| ०२. ना.गौ. कातेलकर | : ध्वनिविचार |
| ०३. गर्जेद्रगडकर श्री.न. | : भाषा आणि भाषाशास्त्र |
| ०४. जोगळेकर गं.ना. | : अभिनव भाषाविज्ञान |
| ०५. कुलकर्णी कृ.पा. | : मराठी भाषा उद्गम आणि विकास |
| ०६. मंचरकर र.बा. | : भाषाशास्त्रविचार |
| ०७. काळे कल्याण , सोमण अंजली | : वर्णनात्मक भाषा विज्ञान |
| ०८. सरकटे राधाशिव | : भाषाविज्ञान , कैलास पब्लिकेशन , औरंगाबाद. |

डॉ. बाबासोहब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

बी.ए.तृतीय वर्ष अभ्यासक्रमाकरिता

शैक्षणिक वर्ष जून २०१५ पासून लागू

रात्र पाचवे

अभ्यासपत्रिका - ११ वी - मध्ययुगीन मराठी वाङ्मयाचा इतिहास (प्रारंभ ते १६००)

गुण-५०

उद्दिष्टे :-

- 1) यादवकालीन सामाजिक, सांस्कृतिक, धार्मिक स्थिती-गती लक्षात घेत त्या काळात जी ग्रंथरचना झाली तिच्याबद्दल माहिती करून घेणे, ग्रंथनिर्मितीमागील प्रेरणा व त्यांचा प्रत्यक्ष ग्रंथरचनेवरील परिणाम अभ्यासणे.
- 2) बहामनीकाल ग्रंथनिर्मितीमागील प्रेरणा व त्यांचा प्रत्यक्ष ग्रंथरचनेवरील परिणाम समजून घेणे.
- 3) तत्कालीन महत्त्वाचे ग्रंथ, ग्रंथकार व ग्रंथविशेष यांचे आकलन करून घेणे.

घटक क्र. - १ मराठीचा प्रारंभकाल व मुकुंदराज

घटक क्र.- २ महानुभाव पंथ आणि त्याचे वाङ्मयीन कार्य

- १) महानुभाव पंथाचे पंचकृष्ण
- २) महानुभाव पंथाचे तत्त्वज्ञान
- ३) महानुभावांचे वाङ्मयीन कार्य
- ४) महानुभावियांचे गद्य साहित्य
- ५) महानुभावियांचे पद्य साहित्य

घटक क्र.- ३ वारकरी संप्रदाय आणि त्याचे वाङ्मयीन कार्य

- १) संत ज्ञानेश्वर
- २) संत नामदेव
- ३) ज्ञानेश्वर पंचक

- ४) जनाबाई
- ५) घोखामेळा
- ६) कर्ममेळा
- ७) गोरकुंभार
- ८) पिसोबा खेचर
- ९) सावता माळी
- १०) नरहरी सोनार
- ११) परिसा भागवत
- १२) सेना न्हायी
- १३) कान्होपात्रा

घटक क्र.- ४ बहामनीकालीन मराठी साहित्य

- १) दत्त संप्रदाय
- २) दासोपंत
- ३) संत एकनाथ
- ४) संत एकनाथांची वाङ्मय रचना

घटक क्र. -५ संत तुकाराम आणि संत रामदास

- १) संत तुकाराम
- २) संत तुकारामांची गाथा
- ३) संत तुकारामांचे कवित्व
- ४) समर्थ रामदास
- ५) संत रामदासांचे साहित्य

संदर्भ ग्रंथ

०१. श्री.व्यं.केतकर	: प्राचीन महाराष्ट्र
०२. वि.ल.भावे	: महाराष्ट्र सारस्यत
०३ मु.ग.पानसे	: यादवकालीन महाराष्ट्र
०४ वि.भि.कोलते	: महानुभाव तत्त्वज्ञान
०५ वि.भि.कोलते	: महानुभावांचा आचारधर्म
०६ शं.गो.तुळपुळे	: महानुभाव आणि त्यांचे वाङ्मय
०७ शं.गो.तुळपुळे	: पाच संतकवी
०८ अ.ना.देशपांडे	: प्राचीन मराठी वाङ्मयाचा इतिहास
०९ ह.श्री. शेणोलिकर	: प्राचीन मराठी वाङ्मयाचा इतिहास
१०. गं.बा.सरदार	: संत वाङ्मयाची सामाजिक फलश्रुती
११. वा.ल.कुलकर्णी	: वाङ्मयीन टिपा आणि टिप्पणी
१२. दि.पु.चित्रे	: पुन्हा तुकाराम
१३. रा.श्री. जोग.	: प्राचीन मराठी वाङ्मयाभिरुचीचे विहंगआवलोकन
१४. वि.अं.कानोले	: गुकुंदराजाची अंबानगरी कोणती ?
१५. हंसराज जाधव	: महानुभावांची आख्यानकाव्ये

डॉ. बाबासोहब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

बी.ए.तृतीय वर्ष अभ्यासक्रमाकरिता

शैक्षणिक वर्ष जून २०१५ पासून लागू

सत्र पाचवे

अभ्यासपत्रिका - १२ वी - प्रकल्प कार्य भाग ०१

उद्दिष्टे :

- १) पाचन लेखन कौशल्याचा विकास
- २) समीक्षणात्मक दृष्टीचा विकास
- ३) संशोधनात्मक दृष्टीचा विकास

अध्ययन-अध्यापन प्रक्रिया

१. लेखन कौशल्य

प्रकल्पाचे स्वरूप

१. भाषा, साहित्य, साहित्येतिहास, साहित्यशास्त्र, भाषाविज्ञान इ.विषयाचे आकलन करून प्रकल्पाचे लेखन करणे.
२. संबंधित विषय शिक्षकाच्या मार्गदर्शनानुसार विषयाची निवड करणे.
३. प्रकल्प कमीत २५ व जास्तीत जास्त पृष्ठांचा ४० पृष्ठांचा टंकलिखित केलेला असावा.
४. प्रकल्प कार्य स्पायरल बाईंडिंग करून सादर करण्यात यावा.
५. प्रकल्पाचे मूल्यांकन संबंधित अध्यापकाच्या मार्गदर्शनानुसार असावे.
६. प्रकल्प कार्य पूर्ण करून दुसऱ्या सत्रात सादर करावा.

डॉ. बाबासोहब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

बी.ए.तृतीय वर्ष अभ्यासक्रमाकरिता

शैक्षणिक वर्ष जून २०१५ पासून लागू

सत्र सहावे

अभ्यासपत्रिका - १३ वी - पार्श्वचात्य साहित्यविचार

गुण-५०

घटक क्र. ०१ : साहित्याचे स्वरूप

व्याख्या - (हेंझलिट, रस्किन, कोलरिज, कोर्टहोप, कार्लार्ईल, वर्डरवर्थ, मॅथ्यू
ॲर्नोल्ड, कोट व इतर)

लक्षणे - कल्पना, भावना, बुद्धी, लयबद्धता, शैली

घटक क्र. ०२ : साहित्याची प्रयोजने

पलायनवाद, स्वप्नरंजन, जिज्ञासापूर्ती, आत्मविष्कार, उद्बोधन, विरेचन

(कॅथॅरिसिस) व प्रचार

घटक क्र.०३ : साहित्याची निर्मितीप्रक्रिया

सिग्नंड फ्रॉईड

कार्ल गुस्ताव युंग

एफ.सी. प्रिस्कॉट

कोलरिज

टी.एस.एलियट, मरे क्रायगर, यांचे निर्मिती प्रक्रियेसंदर्भात मत

घटक क्र.०४ मार्क्सवादी साहित्यविचार

कार्ल मार्क्सचा साहित्यविषयक दृष्टिकोन

समाजवादी वास्तववाद

परीत्मतेची संकल्पना

बांधिलकीची संकल्पना

घटक क्र.०५ ऐतिहासिक व मार्क्सवादी समीक्षा पद्धती

संदर्भ ग्रंथ

०१. भालचंद्र खांडेकर/ लीला गोविलकर : पारंपारिक साहित्यविचार
०२. सुरेश धायगुडे : पारंपारिक साहित्यशास्त्र - सिद्धान्त आणि संकल्पना
०३. रा.भा. घाटणकर : शीवसंभोगांसा
०४. सुधीर वरदाळ : कविता आणि प्रतिभा
०५. वि.स. जोग : मार्क्सवाद आणि मराठी साहित्य
०६. सदा कऱ्हाडे : साहित्य आणि समाज
०७. डॉ. सदाशिव सरकटे : साहित्यशास्त्र
०८. डॉ. सदाशिव सरकटे : साहित्य समीक्षेची मूलतत्वे

डॉ. बाबासोहन आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

बी.ए.तृतीय वर्ष अभ्यासक्रमाकरिता

शैक्षणिक वर्ष जून २०१५ पासून लागू

सत्र सहाये

अभ्यासपत्रिका - १४ वी - व्याकरण य निबंध

गुण-५०

घटक क्र.०१ : शब्दांच्या जाती व शब्दसंग्रह (समानार्थी, विरुद्धार्थी व अनेकार्थी)

घटक क्र.०२: संधीविचार

स्वरसंधी

व्यंजनसंधी

विसर्गसंधी

घटक क्र.०३ : समास

अव्ययीभाव समास

तत्पूरुष समास

द्वंद्वसमास

बहुव्रीही समास

घटक क्र.०४ अलंकार

शब्दालंकार (श्लेष, अनुप्रास, यमक)

अर्थालंकार (उपमा, रूपक, चेतनागुणोक्ती, अन्योक्ती, स्वामावोक्ती या प्रकारांचा अभ्यास)

घटक क्र.०५ : निबंध

वाङ्मयीन निबंध लेखन

वैचारिक निबंध लेखन

संदर्भ ग्रंथ

०१. मो. के. दामले : शास्त्रीय मराठी व्याकरण
०२. अ.ग. मंगरूळकर : मराठीच्या व्याकरणाचा पुनर्विचार
०३. मो. रा. पाळंबे : सुगम मराठी व्याकरण
०४. डॉ. लीला गोविलकर : मराठीचे व्याकरण
०५. रा.ग. जाधव : वाङ्मयीन निबंध लेखन

डॉ. बाबासोहब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

बी.ए.तृतीय वर्ष अभ्यासक्रमाकरिता

शैक्षणिक वर्ष जून २०१५ पासून लागू

सत्र सहावे

अभ्यासपत्रिका - १५ वी - मध्ययुगीन मराठी वाङ्मयाचा इतिहास (१६०१ ते १८१८)

गुण -५०

उद्दिष्टे :-

- १) शिवकालीन सामाजिक, सांस्कृतिक, धार्मिक स्थिती-गती लक्षात घेत त्या काळात जी ग्रंथरचना झाली तिच्याबद्दल माहिती करून घेणे, ग्रंथनिर्मितीमागील प्रेरणा व त्यांचा प्रत्यक्ष ग्रंथरचनेवरील परिणाम अभ्यासणे.
- २) पेशवेकालीन ग्रंथनिर्मितीमागील प्रेरणा व त्यांचा प्रत्यक्ष ग्रंथरचनेवरील परिणाम समजून घेणे.
- ३) तत्कालीन महत्त्वाचे ग्रंथ, ग्रंथकार व ग्रंथविशेष यांचे आकलन करून घेणे.

घटक क्र.-०१

पंडिती साहित्य-प्रेरणा, स्वरूप व वैशिष्ट्ये

घटक क्र.- ०२

मुक्तेश्वर, वामन पंडित, रघुनाथ पंडित, सामराज, श्रीधर,

मोरोपंत यांचे ग्रंथ आणि ग्रंथकारांचा परिचय

घटक क्र.-०३

शाहिरी वाङ्मय-प्रेरणा, स्वरूप व वैशिष्ट्ये

परशराम, राम जोशी, होनाजी बाळा, अनंत फंदी,

सगनभाऊ, प्रभाकर यांच्या वाङ्मयाचा परिचय

घटक क्र.-०४

बखर वाङ्मय प्रेरणा, स्वरूप व वैशिष्ट्ये

शिवपूर्वकालीन बखरी, शिवकालीन बखरी,

पेशवेकालीन बखरी यांचा परिचय.

संदर्भ ग्रंथ

०१. श्री.व्यं.केतकर : प्राचीन महाराष्ट्र
 ०२. वि.ल.भावे : महाराष्ट्र सारस्वत
 ०३. अ.ना.देशपांडे : प्राचीन मराठी वाङ्मयाचा इतिहास
 ०४ ह.श्री. शेणोलिकर : प्राचीन मराठी वाङ्मयाचा इतिहास
 ०५. वा.ल.कुलकर्णी : वाङ्मयीन टिपा आणि टिप्पणी
 ०६. रा.श्री. जोग. : प्राचीन मराठी वाङ्मयामिरुचीचे विहंगआवलोकन
 ०७ म.रा.घोंड : मराठी लावणी
 ०८ के.ना.वाटवे : पंडित कवी
 ०९ गं.ब.ग्रामोपाध्ये : मराठी बखर गद्य
 १०. य.न.केळकर : तंत कवी तथा शाहिर
 ११. बा.अ.भिडे : मुक्तेश्वर
 १२. नरेंद्र भारवाडे/डॉ.सदाशिव सारळटे : मध्ययुगीन मराठी वाङ्मयाचा इतिहास

डॉ. बाबासोहब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

बी.ए.तृतीय वर्ष अभ्यासक्रमाकरिता

शैक्षणिक वर्ष जून २०१५ पासून लागू

सत्र पाचवे

अभ्यासपत्रिका - १६ वी - प्रकल्प कार्य भाग ०२

गुण- १००

उद्दिष्टे :

- १) वाचन लेखन कौशल्याचा विकास
- २) समीक्षणात्मक दृष्टीचा विकास
- ३) संशोधनात्मक दृष्टीचा विकास
- ४) सिमा भागातील व आपल्या प्रादेशिक विशेषांचा भाषिक अभ्यास व संशोधन करणे.
- ५) भाषा बोलीचे शब्दविशेष नोंदविणे.
- ६) लोकजीवनातील ओवी, लोकगीते, उखाणे, लोककथा इ.संकलन व मूल्यमापन करणे.

अध्ययन-अध्यापन प्रक्रिया

१. लेखन कौशल्य

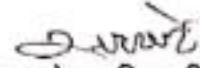
प्रकल्पाचे स्वरूप

१. भाषा, साहित्य, साहित्येतिहास, साहित्यशास्त्र, भाषाविज्ञान इ.विषयाचे आकलन करून प्रकल्पाचे लेखन करणे.
२. संबंधित विषय शिक्षकाच्या मार्गदर्शनानुसार विषयाची निवड करणे.
३. प्रकल्प कमीत कमी २५ व जास्तीत जास्त ४० पृष्ठांचा टंकलिखित केलेला असावा.
४. प्रकल्प कार्य स्पायरल बाईंडिंग करून सादर करण्यात यावा.
५. प्रकल्पाचे मूल्यांकन संबंधित अध्यापकाच्या मार्गदर्शनानुसार असावे.

डॉ.बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद
शैक्षणिक वर्ष जून - २०१५ पासून लागू
बी.ए.मराठी तृतीय वर्ष (ऐच्छिक) सात्रनिहाय अभ्यासक्रम
(अभ्यासपत्रिका क्र.९,१०,११,१३,१४ व १५ साठी प्रश्नपत्रिकेचे स्वरूप)

प्र.१ ला	दीर्घोत्तरी (दोन पैकी एक)	- १५ गुण
प्र.२ रा	दीर्घोत्तरी (दोन पैकी एक)	- १५ गुण
प्र.३ रा	लघुत्तरी (चार पैकी दोन)	- १० गुण
प्र.४ या	टीपा लिहा (चार पैकी दोन)	- १० गुण
	एकूण	- ५० गुण

टिप : प्रकल्प कार्य भाग -०१ व ०२ (अभ्यास पत्रिका १२ व १६) साठी एकत्रित १०० गुण


डॉ.सरकटे सदाशिव हरिभाऊ
अध्यक्ष
मराठी अभ्यास मंडळ,
डॉ.बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ,
औरंगाबाद .

Circulars file

CIRCULAR NO.SU/B.Com/CBC & GS/65/2018

13



It is hereby informed to all concerned that, the syllabi prepared by the Board of Studies & recommended by the Dean, Faculty of Commerce & Management the **Academic Council at its meeting held on 30 June & 02 July 2018** has accepted the syllabus of Choice Based Credits & Grading System for Bachelor of Commerce First Semester under the Faculty of Commerce & Management as enclosed herewith.

This is effective from the Academic Year 2018-2019 and onwards.

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.

REF.No.SU/2018/

Date:- 17-07-2018. | 14552-14812-*

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(Signature)
**Deputy Registrar,
Syllabus Section**

Copy forwarded with compliments to :-

- 1] **The Principals, affiliated concerned Colleges, Dr. Babasaheb Ambedkar Marathwada University.**
- 2] **The Director, University Network & Information Centre, UNIC, with a request to upload this Circular on University Website.**

Copy to :-

- 1] The Director, Board of Examinations & Evaluation,
- 2] **The Section Officer, [B.Com.Unit] Examination Branch,**
- 3] The Section officer, [Eligibility Unit],
- 4] **The Programmer [Computer Unit-1] Examinations,**
- 5] **The Programmer [Computer Unit-2] Examinations,**
- 6] The In-charge, [E-Suvidha Kendra],
- 7] The Public Relation Officer,
- 8] The Record Keeper,

**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Curriculum of B.COM.1ST YEAR

under Choice Based Credit & Grading System

SEMESTER FIRST

[Effective from the Academic Year 2018-19 & onwards]

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD

FACULTY OF COMMERCE

Syllabus - Bachelor of Commerce

Choice Based Credit System (CBCS) - 2018-2019

Semester & Credits	Core Course [04]	Ability Enhancement Compulsory Courses [AECC] [02]	Discipline Specific Elective [DSE] [01]
I Credit 28	1. Financial Accounting - I 2. Business Mathematics & Statistics 3. Business & Industrial Economics 4. Computer Application in Business - I	1. English 2. Second Language	Elective Paper [Any One] 1. Entrepreneurship Development-I 2. Office Management
Total Credits =28	No. of Credits : 16	No. of Credits : 08	No. of Credits : 04

FIRST SEMSTER

Paper Number	Subject/ Title of the Paper	Course	Weekly		Credits		IA	UA	Total Marks	Duration of Theory Exam
			Th	Pr	Th	Pr				
I	Financial Accounting - I	Core Course	4	-	4	-	20	80	100	3 Hrs
II	Business Mathematics & Statistics	Core Course	4	-	4	-	20	80	100	3 Hrs
III	Business & Industrial Economics	Core Course	4	-	4	-	20	80	100	3 Hrs
IV	Computer Application in Business - I	Core Course	2	2	2	2	50	50	100	3 Hrs
V	English	Ability Enhancement	4	-	4	-	20	80	100	3 Hrs
VI	Second Language	Compulsory Courses	4	-	4	-	20	80	100	3 Hrs
VII	1. Entrepreneurship Development -I 2. Office Management	Discipline Specific Elective [Any One]	4	-	4	-	20	80	100	3 Hrs
Total			26	2	26 + 2 = 28		170	530	700	--

CBCS Pattern Syllabus w.e.f. June 2018 Onwards
Faculty of Commerce
B.Com. First Year (First Semester)
Financial Accounting-I

Theory-80
Practical/Sessional -20

Objectives: The course aims at acquainting the students with the emerging issues in business, Trade and commerce regarding recording, maintaining and presenting the accounting and financial facts.

- Unit I: Book-Keeping and Accountancy: - (Theory)**
 Meaning, Definitions, Concepts, Objectives, Need, Scope, Classification, and Rules of Accounts, Accounting Cycle, Journal, Ledger, Balancing of Account.
- Unit II: Depreciation: - (Numerical)**
 Annuity and Sinking fund Method
- Unit III: Final Account of Sole Trader: - (Numerical)**
 Meaning and Importance, Preparation of Manufacturing Account, Trading Account, Profit and Loss Account and balance sheet, Adjustment.
- Unit IV: Hire purchase System & Installment Method:- (Theory on Hire Purchase & Numerical on Installment Method)**
 Meaning, Calculations of Interest, Accounting for hire purchase transactions by Asset purchase method based on full cash price, Journal Entries, Ledger Accounts and Discloser in Balance sheet for hire and vendor.
- Unit V: Royalty Accounts: - (Numerical)**
 Royalty, Minimum Rent, Short Workings, Recoupment of Short Working, Lapse of Short Working, Journal Entries and Ledger Accounts in the Books of Landlord and Lessee.

Suggested Readings:

1. Advanced Accounting- M.C.Shukla, & S.P. Grewal (S. Chand & Co. Ltd.New Delhi.)
2. Advanced Accounting- S.M.Shukla, (Sahityabhavan, Agra.)
3. Accountancy- Mahurkar & Deshpande.
4. New Approach to Accountancy-H.R. Kotalwar.
5. Financial Accounting –S.N. Maheshwari & S. K. Maheshwari (Vikas Publication House Pvt.Ltd.)

Journals:

- 1- The Chartered Accountant- Journals of the Institute of Chartered Accountant of India.
- 2-The Accounting World- ICAI Hyderabad.

CBCS Pattern Syllabus w.e.f. June 2018 Onwards
Faculty of Commerce
B.Com. F.Y. (First Semester)
Business Mathematics and Statistics-I

Theory-80
Practical/ Sessional -20

-
- Objectives:** The Objective of this paper is to impart knowledge to students in order to improve their Logical Reasoning, Ability and Interpretation, Application of various statistical and Mathematical Tools and Techniques in making logical and scientific decisions in Business Operations.
- Unit I: Introduction to Statistics: - (Theory)**
Meaning, Definition, Importance and Limitations of Statistics, Primary and Secondary Data, Methods of collecting primary data, sources of secondary data. Difference between Primary and Secondary data. Ways of collection of data:
a) Complete enumeration b) Sample Method, seriation and Tabulation of statistical data.
- Unit II: Measures of Central Tendency: - (Numerical)**
Introduction, definition, types of averages Mean, Median, and Mode; Computation of above Measures in Discrete series, continuous series, and cumulative Frequency Distribution, (Less than and More than). Merits and Demerits of Mean, Median and Mode.
- Unit III: Measures of Dispersion & Skewness: - (Numerical)**
Introduction, Definition, Objectives of Measuring Dispersion, Mean Deviation and its coefficient; Standard deviation, its coefficient with its Co- variance.
Skewness -Introduction, Definition, Objectives of Skewness, Measures of Skewness: Karl Pearson's Co-efficient of skewness.
- Unit IV: Determinants: - (Numerical)**
Definition, Cramer's Rule Determinant of second order, Determinant of Third Order, Properties of Determinants, Computation of Area of Triangle with the help of determinant, SARRU'S Rule for evaluating the determinant.
- Unit V: Matrices: - (Numerical)**
Meaning, Definition and types of Matrices. Operations of Matrices: Addition and subtraction; properties of addition and subtractions.

Suggested Readings:

- 1) Statistics: S.P. Gupta (Sultan Chand & Sons New Delhi)
- 2) Fundamental of Statistics: D. N. Elhance (Kitab Mahal Allahbad)
- 3) Practical Problems in Statistics: Y.R. Mahajan
- 4) Statistics: Sancheti and Kapoor
- 5) Elementary Statistical Methods: Dr. S.P. Gupta, Sultan Chand & Sons.
- 6) Fundamentals of Statistics: D.N. Elhance, Kitab Mahal.
- 7) Statistics (Theory, Methods & Application): Dr. D.C. Sancheti, V.K. Kapoor, Sultan Chand & sons

CBCS Pattern Syllabus w.e.f. June 2018 Onwards
Faculty of Commerce
B.Com. F.Y. (First Semester)
Business and Industrial Economics

Theory-80
Practical/ Sessional -20

-
- Objectives:** This course is meant to acquaint the students with the principles of Business economics as are applicable in business.
- Unit I: Introduction to Business Economics:-**
Meaning, Definition, Nature, Characteristics, Significance and Scope of Business Economics, Objectives of Business Firm.
- Unit II: Theory of Consumer Behaviour:-**
The indifference curve approach, meaning, definition, assumptions and properties of indifference curve, consumers equilibrium.
- Unit III: Elasticity of Demand:-**
Concept, measurement and determinants of elasticity of demand, Price elasticity, income elasticity and cross elasticity, Average Revenue, marginal Revenue, importance of Elasticity of demand, Demand forecasting Methods.
- Unit IV: Market Structures:-**
Market Structures and Business decisions, objectives of a business firm, Perfect Competition: Meaning, concept and features, Monopoly Meaning, concept and features, Securities Exchange Board of India (SEBI), Foreign Exchange Management Act (FEMA)
- Unit V: Factor Pricing:-**
Marginal productivity theory and demand for factors, nature of supply of factor inputs, determination of wage rate under perfect competition and monopoly, interest concept, theories of interest.

Suggested Readings:

1. Ahuja H.L. Business Economics : (S.Chand and Co. New Delhi.)
2. Koustsoyianni : A Modern Micro Economics : (Macmillan New Delhi)
3. D.M.Mithani, G. K.Murthy : Fundamentals of Business Economics, (Himalaya Publishing House Mumbai)
4. R. Kawari and Others: Managerial Economics. (S.chand and Co.New Delhi.)
5. G.N. Zambre : Business Economics : (Primplapure Publishers Nagpur.)
6. Nellis and Parker : The Essence of Business Economics, (Prentice Hall, New Delhi.)
7. Stigler G. The Theory of Price. (Prentice Hall New Delhi.)
8. V.G. Mankar : Business Economics,(Himalaya Publishing House, Mumbai.)

CBC S Pattern Syllabus w.e.f. June 2018 Onwards
Faculty of Commerce
B.Com. F.Y. (First Semester)
Computer Application in Business-I

Theory - 50
Practical/Sessional - 50

Objectives: To provide computer skills and knowledge for commerce students and to enhance the students' understanding of usefulness of information technology tools for business operations.

Unit I: Computer Codes and Languages:
Source Code, Machine/Binary Code, MASMcode, Object, Byte/Object Code, BC/D, EBCDIC, ASCII, Language Translator-Interpreter & Compiler, High Level, Low Level, Assembly language, Different Number Systems, Binary, Octal, Hexadecimal, Decimal, Conversion from one base to another base.

Unit II: Word Processing:-
Introduction to word Processing, Word processing concepts, Use of Templates, Working with word document: Editing text, Find and replace text, Formatting, spell check, AutoCorrect, Auto text, Bullets and numbering, Tabs, Paragraph Formatting, Indent, Page Formatting, Header and footer, Tables, Inserting, filling and formatting a table, Inserting Pictures and Video, Mail Merge: including linking with Database, Printing documents, Creating Business Documents using the above facilities.

Unit III: Preparing Presentations:-
Basics of presentations: Slides, Fonts, Drawing, Editing, Inserting, Tables, Images, text, Symbols, Media, Design, Transition, Animation, and Slideshow, Creating Business Presentations using above facilities.

Unit IV: Spreadsheet and its Business Applications:
Spreadsheet concepts, Managing worksheets, Formatting, Entering data, Editing, and Printing a worksheet, Handling operators in formula, Project involving multiple spreadsheets, Organizing Charts and graphs Generally used Spreadsheet functions: Mathematical, Statistical, Financial, Logical, Date and Time, Lookup and reference, Database, and Text functions.

Unit V: Creating Business Spreadsheet:
Creating spreadsheet in the area of: Loan and Lease statement, Ratio Analysis, Payroll statements, Capital Budgeting, Depreciation Accounting, Graphical representation of data, Frequency distribution and its statistical parameters, Correlation and Regression.

Note: The General Purpose Software referred in this course will be notified by the University Departments every three years. If the specific features, referred in the detailed course above, is not available in that software, to that extent it will be deemed to have been modified.

Suggested Readings:

1. Chetan Srivastav "Information Technology"
2. Fundamentals of C, Dr. Prasad Madan, Dr. Gajanan Chaudhri, Chomay Publication, Aurangabad.
2. O'Brien J. "Management Information System", Tata McGraw Hills, New Delhi.
3. P.K. Taxali, "PC Software made simple", Tata McGraw Hills, New Delhi.
4. V.Rajaraman, "Fundamentals of Computer", Prentice Hall of India, New Delhi.
5. Sanders D.H. "Computers Today", Tata McGraw Hill.

CBCS Pattern Syllabus w.e.L June 2018 Onwards
Faculty of Commerce
B.Com. F.Y. (First Semester)
(Elective Paper)
Entrepreneurship Development - I

Theory-80
Practical/Sessional -20

Unit I:	Entrepreneur: Concept of Entrepreneur Definition, Characteristics, Functions, Entrepreneurs and Intrapreneur. Role of an Entrepreneur in Economic Development.
Unit II:	Entrepreneurship: Concept, Meaning, Definition, Characteristics, Importance of Entrepreneurship, Challenges, Issues & Barriers of Entrepreneurship.
Unit III:	The Dynamic New Trends of Entrepreneurship: Startup Accelerators, Student Sandhox and Business Labs, Crowd Funding, Venture Capital, Co-Working Spaces, Boot Camps, Online Entrepreneurship Degree.
Unit IV:	Evolution of Entrepreneurship in 21st Century: Essential of 21 st Century Entrepreneurship, Importance of Entrepreneurship in 21 st Century, Start-up Schemes, Start-up India, Stand up India, Pradhan Mantri Kaushal Vikas Yojana, Skill India.
Unit V	Project Identification: Meaning, Definition, Classification, Project Life, Project Formulation & Feasibility, Information Centers in India.

Suggested Readings:

1. Entrepreneurship Development: S.S Khanka, Sultan Chand & Co. Ltd.
2. Fundamentals of Entrepreneurship: G.S. Sudha, Ramesh Book Depot.
3. Entrepreneurship Development: E. Gordon & K. Natarajan, Himalaya Publishing House.
3. Entrepreneurship Development: Colombo Plan Staff College for Technician Education, Manila.
TaTa McGraw Hill
4. Small Scale Industries and Entrepreneurship: Vasant Desai, Himalaya Publishing House.
5. Project Planning & Control: N. P. Agarwal & Dr. B. K. Mishra, Indus Valley Publications,
New Delhi.

CBCS Pattern Syllabus w.e.f. June 2018 Onwards
Faculty of Commerce
B.Com. I.V. (First Semester)
(Elective Paper)
Office Management

Theory-80

Practical/Sessional -20

Objective: The purpose of this course is to familiarize the students with the activities in a modern office. Smooth functioning of any organization depends upon the way various activities are organized, facilities provided to the staff working in the office, the working environment and the tools and equipment used in office.

Unit I: Office and Office Management:-

Meaning of office- Primary and Administrative Management Functions, Importance of Office, Duties of the Office Manager, Qualities and Essential Qualifications.

Filing and Indexing: Meaning and Importance, essentials of good filing, centralized vs. decentralized filing, system of classification, methods of filing and filing equipment, weeding of old records, meaning and need for indexing, various types of indexing.

Unit II: Mail and Mailing Procedures:-

Meaning and Importance of mail, Centralization of mail handling work, its advantages. Mailing through post, couriers, email, appending files with email. Inward and outward mail- receiving, sorting, opening, recording, making distributing folding of letters sent, dispatching, courier services, central receipt and dispatch.

Forms and Stationery: Office Forms- introduction, meaning, importance of forms, advantages of using forms, disadvantages of using forms, type of forms, factors affecting forms design, principles of form design, form control. Stationery- introduction, types of stationery used in offices, importance of managing stationery, selection of stationery, essential requirements for a good system of dealing with stationery, purchasing principles, purchase procedure, standardization of stationery.

Unit III: Modern Office Equipment:-

Introduction, Meaning and Importance of Office Automation, Objectives of Office Mechanization, advantages & disadvantages, factors determining office mechanization. Kinds of office machines.

Budget: Budget- Annual, Revised and Estimated. Recurring and non- recurring heads of expenditure, **Audit:** Audit process- Vouching, Verification and Valuation (in brief). Consumables/ Stock register and Asset register. Procedure for disposal of records and assets.

Unit IV: **Banking facilities:** Types of accounts, Passbook and Cheque book, Other forms used in Banks, ATM and money transfer, NEFT/RTGS, Net Banking, BHIM Apps.
Abbreviations/Terms used in Offices: Explanation of abbreviations/terms used in offices in day-to-day work.

Suggested Reading:

-
1. Office Management: R. S. N. Pillai & Bhagyati, S. Chand Publication
 2. Office Organisation & Management: M. E. Tukaram Rao
 3. Bhatia, R.C. Principles of office Management, Lotus press, New Delhi.
 4. Terry, George R: office Management and Control.



Circular file

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY ³¹**CIRCULAR NO.SU/Commerce & Management/ II Sem./32/2018**

It is hereby inform to all concerned that, on the recommendation of the Dean, Faculty of Commerce & Management, the Hon'ble Vice-Chancellor in his emergency powers under Section-12(7) of the Maharashtra Public Universities Act, 2016 has accepted the syllabus of **B.Com., BBA & BCA II Sem.** on behalf of the Academic Council to be applied from the Academic Year 2018-2019 and onwards.

All concerned are requested to note the contents of this circular and bring notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.

REF.NO. SU/ COMMERCE/2018-19.

Date:- 26-11-2018.

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[Signature]
Deputy Registrar,
Syllabus Section.

Copy forwarded with compliments to :-

- 1] **The Principals, affiliated concerned Colleges, Dr. Babasaheb Ambedkar Marathwada University.**
- 2] **The Director, University Network & Information Centre, UNIC, with a request to upload this Circular on University Website.**

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- 5] **The Programmer [Computer Unit-2] Examinations,**
- 6] The In-charge, [E-Suvidha Kendra], Rajarshi Shahu Maharaj Pariksha Bhavan, Dr. Babasaheb Ambekar Marathwada University.
- 7] The Public Relation Officer,
- 8] The Record Keeper.

**D.R. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Curriculum of B.COM.1ST YEAR

SECOND SEMESTER

under Choice Based Credit & Grading System

[Effective from the Academic Year 2018-19 & onwards]

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

B.COM SECOND SEMESTER STRUCTURE. (2018-19)

Paper Number	Subject/ Title of the Paper	Course	Weekly		Credits		IA	UA	Total Marks	Duration of Theory Exam
			Th	Pr	Th	Pr				
I	English	Compulsory Language	4	-	4	-	20	80	100	3 Hrs
II	Second Language	Second Language	4	-	4	-	20	80	100	3 Hrs
III	Financial Accounting II	Core Discipline	4	-	4	-	20	80	100	3 Hrs
IV	Business Mathematics & Statistics II	Core Discipline	4	-	4	-	20	80	100	3 Hrs
V	Business Organization and Management	Core Discipline	4	-	4	-	20	80	100	3 Hrs
VI	Business communication & IT Application	Ability Enhancement Compulsory	2	2	2	2	20 20	80 50	100 32	3 Hrs 2hr
VII	1. Entrepreneurship Development - II or 2. Office Management - II	Discipline Specific Elective [Any One]	4	-	4	-	20	80	100	3 Hrs
Total			26	02	26	02	140	560	700	--

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DR. BABASAHEB AMBEDKAR MARATHIWADA UNIVERSITY, AURANGABAD.

B.COM SECOND SEMESTER STRUCTURE (2018-19)

Paper Number	Subject/ Title of the Paper	Course	Weekly		Credits		IA	UA	Total Marks	Duration of Theory Exam
			Th	Pr	Th	Pr				
I	English	Compulsory Language	4	-	4	-	20	80	100	3 Hrs
II	Second Language	Second Language	4	-	4	-	20	80	100	3 Hrs
III	Financial Accounting II	Core Discipline	4	-	4	-	20	80	100	3 Hrs
IV	Business Mathematics & Statistics II	Core Discipline	4	-	4	-	20	80	100	3 Hrs
V	Business Organization and Management	Core Discipline	4	-	4	-	20	80	100	3 Hrs
VI	Business communication & IT Application	Ability Enhancement Compulsory	2	2	2	2	50	50	100	2 Hrs
VII	1. Entrepreneurship Development - II or 2. Office Management - II	Discipline Specific Elective [Any One]	4	-	4	-	20	80	100	3 Hrs
Total			26	02	26	02	170	530	700	--

**B.Com Ind Semester Syllabus (CBCS)
Financial Accounting-II**

**Theory: 80
Practical: 20**

Objective: The purpose of this course is to develop the skill among the students about Preparing an organization's accounts.

- Unit-I Accounting Principles and Accounting Standards (Theory)**
AS-1, AS-2, AS-9, AS-10, AS-17
- Unit-II Final Accounts of Non-trading Concerns (Numerical)**
Meaning of Non-trading concerns, features, Capital and Revenue Receipts and Expenditures, difference between Receipts and Payments Account, Income and Expenditure Account, Preparation of Final Accounts.
- Unit-III Branch Accounts (Numerical)**
Meaning of branch and branch account, objectives of branch account, Classification of branches, Accounting for Dependent Branches-Methods of accounting for branch accounting:
Debtors System-Meaning, cost price method and invoice price method, accounting entries in the books of head office and ledger accounts.
Stock and Debtors System-meaning, accounting entries in the books of head office and ledger accounts
- Unit-IV Departmental Accounts (Numerical)**
Meaning, Objectives, Advantages of Department Accounts, Accounting Procedure- Unitary method and Tabular or Columnar Method, Allocation of Expenses and Incomes, Inter-departmental Transfers, Preparation of Departmental Trading, Profit and Loss Account and Balance Sheet.
- Unit-V Consignment Accounting (Numerical)**
Meaning of Consignment Account, Distinction between consignment and sale, Valuation of inventories, goods invoiced above cost, normal loss, abnormal loss, Accounting entries in the books of the consignor and consignee, Ledger accounts- consignment account, Goods sent on consignment account, inventories on consignment account, inventory reserve account consignee's account, consignor's account.

Suggested Readings:

- | | |
|--|--------------------------------------|
| 1. Advanced Accounts- | MC Shukla, T.S. Grewal&S.C.Gupta |
| 2. Financial Accounting- | V.K. Goyal&RuchiGoyal |
| 3. A New Approach to Accountancy- | H.R. Kotalwar |
| 4. Financial Accounting- | A. Mukherjee&M. Hanif |
| 5. An Introduction to Accountancy- | Dr. S.N. Maheshwari& S.K. Maheshwari |
| 6. Financial Accounting A Simplified Approach- | Naseem Ahmed |
| 7. Students Guide to Accounting Standards- | D.S. Rawat&DceptiMaheshwari |
| 8. Financial Accounting- | S.N. Patil& Ashok Patil |

Practical: 20 Marks : (to be conducted by the department in each college as per convenience.)

- | | |
|--------------|----|
| 1. Test- | 05 |
| 2. Tutorial- | 05 |
| 3. Seminar- | 10 |

Objectives:

- To impart the knowledge and self-confidence about Statistical Applications
- To develop the skill and ability among students by using the Statistical Methods.
- To be self-dependency using I.T. devices.

1. Logarithms	09
Introduction, Principles of Logarithms, Procedures to find out log values, mantissa Value & antilog mantissa value, Rules for Multiplication and Division.	
2. Correlations	11
Meaning of correlation, Definition of correlation, Types of correlation, Methods of measuring correlation: Karl Pearson's & Spearman's Rank Correlation Methods of Correlation of coefficient.	
3. Regression	11
Meaning of regression, Types of regression: linear regression, Simple and Multiple regression, Methods of estimating simple regression lines, Fitted Method & Regression Equations.	
4. Index Numbers	12
Meaning of index number, Types of index number, Uses of index number, Methods of constructing price indices: Laspeyres's, Paasche's, Kelly's, Dutkows & Bowley's simple aggregative & Fisher's Ideal Index Number.	
5. Probability and Expected Value	12
Meaning and Nature of Probability, Definitions of probability, Applications of Probability Addition & Multiplication, Law of Probability, Probability	

Internal Work and Assignment

Statistical Application with Computer (Only for knowledge & Practical application)
 List of Excel, Knowledge of SPSS and other Statistical and Mathematical Tools and Software's.
 Note: Project to be conducted based on curriculum given in semester I and II of Business Mathematics and Statistics by using Computers & other I.T. Devices
 Can be included - 20 marks.

Books Recommended:

1. Statistical Methods - Dr. S.P. Gupta, Sultan Chand & Sons.
2. Fundamentals of Statistics - D.N. Elhance, G.L.A. Kitab Mahal.
3. Statistics (Theory, Methods & Applications) - Dr. D.C. Sengupta, V.K. Kapoor, Sultan Chand & Sons.
4. Fundamentals of statistics - Dr. D.N. Elhance
5. Problems in Statistics - Dr. Y.R. Mahajan
6. Elements of Business Mathematics - Dr. B.K. Rajar

**B.Com Hnd Semester Syllabus (CBCS)
Business Organisation And Management**

Theory: 80
Practical: 20

Objective: The course aims to provide basic knowledge to the students about the organisation and management of a business enterprise.

Contents

Unit 1: Foundation of Indian Business

Lectures: 12

Manufacturing and Service Sectors, Small and Medium Enterprises; Problems and Government policy India's experience of liberalization and globalization. Technological innovations and skill development. 'Make in India' Movement. Social responsibility and ethics.

Emerging opportunities in business, Franchising, Outsourcing, and E-commerce.

Unit 2: Business Enterprises

Lectures: 12

Forms of Business Organization: Sole Proprietorship, Joint Hindu Family Firm, Partnership firm, Joint Stock Company, Cooperative society; Limited Liability Partnership; Choice of Form of Organization. Government - Business Interface; Rationale and Forms of Public Enterprises. International Business. Multinational Corporations.

Unit 3: Management and Organization

Lectures: 12

The Process of Management: Planning; Decision-making; Strategy Formulation.

Organizing: Basic Considerations; Departmentation - Functional, Project, Matrix and Network; Delegation and Decentralization of Authority; Groups and Teams.

Unit 4: Leadership, Motivation and Control

Lectures: 12

Leadership: Concept and Styles; Trait and Situational Theory of Leadership.

Motivation: Concept and Importance; Maslow Need Hierarchy Theory; Herzberg Two Factors Theory. Control: Concept and Process.

Unit V: Functional Areas of Management

Lectures: 12

Marketing Management: Marketing Concept; Marketing Mix; Product Life Cycle; Pricing Policies and Practices. Financial Management: Concept and Objectives; Sources of Funds - Equity Shares, Debentures, Venture Capital and Lease Finance. Securities Market, Role of SEBI. Human Resource Management: Concept and Functions; Basic Dynamics of Employer - Employee Relations.

Suggested Readings:

1. Kaul, V.K., *Business Organisation and Management*, Pearson Education, New Delhi
 2. Chhabra, T.N., *Business Organisation and Management*, Sun India Publications, New Delhi.
 3. Gupta CB, *Modern Business Organisation*, Mayur Paperbacks, New Delhi
 4. Koontz and Weihrich, *Essentials of Management*, McGraw Hill Education.
 5. Basu, C. R., *Business Organization and Management*, McGraw Hill Education.
 6. Jim, Barry, John Chandler, Heather Clark; *Organisation and Management*, Cengage Learning.
 7. B.P. Singh and A.K.Singh, *Essentials of Management*, Excel Books
 8. Buskirk, R.H., et al; *Concepts of Business: An Introduction to Business System*, Dryden Press, New York.
 9. Burton Gene and Manab Thakur; *Management Today: Principles and Practice*; Tata McGraw Hill, New Delhi.
 10. Griffin, *Management Principles and Application*, Cengage Learning
- (Note: Latest Editions of the above books may be used.)

Practicals of 20 Marks (to be conducted by college as per their convenience and resources.)

**B.Com Second Semester Syllabus
Business Communication and IT Application**

*Theory - 50 marks
Practical 50 marks
2 hrs*

Unit I: Communication

Meaning & Definition of Communication, Importance of Communication, types of Communication - (Verbal, Non Verbal), Barriers to Communication

Unit II: Business Correspondence

Letter Writing, Presentation, Inviting quotations, Sending quotations, placing orders, inviting tenders, Sales letters, claim and adjustment letters and social correspondence, Memorandum, Inter-office memos, Notice, Agenda, Job application letter, preparing the Resume

Unit III: Internet technology

Introduction to computer networks, Introduction, need, advantages, disadvantages, types of networks, types of transmission media, Internetworking devices-bridges, routers, gateways, IP addressing, why IP address, basic format of IP address- IPv4, IPv6, Protocols - HTTP, HTTPS, FTP, DNS, Email

Unit IV: Electronic Communication

Meaning and Definition of Electronic Communication, Advantages & Disadvantages of Electronic Communication, Types of Electronic Communication, Web Pages, Email, Forums, Text & Instant Messaging, Social Networking, Video Chat etc., Monitoring of Electronic Communication, Developing a Policy

Unit V: Email, Social Networking and Oral Presentation.

Definition and Origin of E-mail, Message Format, Types of Email, Spam, Spoofing, Bombing, Social Networking Sites- Facebook, You Tube, Instagram, Twitter, LinkedIn, Google+ etc. Oral Presentation - Presentation Plan, PPT, Visual Aids, Sales Presentation and Training Presentation

References :

1. Introduction to Information Technology - ITL Education Solutions Limited, Pearson Education
2. V D Daulbeja - Information Technology, E-Commerce and Business- Commonwealth Publishers, New Delhi
3. Anita Goel - Computer Fundamentals, Pearson Publication
4. Sanjay Saxena - Information Technology, Vikas Publication
5. Leena Sen, Communication Skills, PHI Learning
6. Lecker and Kaczmarek, Business Communication - Building Critical Skills, TMH

Practical to be conducted (Contents for 20 marks)

1. Printout to be submitted
2. Preparing format of letter, Business letter
3. Preparation of Meeting Report
4. Bold Copying Thesaurus, Synonyms, Formatting
5. PPT Presentation

B.Com II Semester Syllabus (CBCS)

Entrepreneurship Development-II

Theory: 80
Practical: 20**Objectives :**

- 1) To provide knowledge and information about Entrepreneurship Development
- 2) To provide knowledge and create ability for setting up an enterprise within given Environment.

1.	Entrepreneurship -Evolution of the concept -Characteristics -Growth in India -Role of Entrepreneurship in Economic Development	05
2.	Emerging Trends in Entrepreneurship Development. -Women Entrepreneurship: Concept, Functions, Problems, Growth. -Rural Entrepreneurship: Meaning, Nature, Need & Importance, Problems -Traditional Pattern of Entrepreneurship in India	10
3.	Entrepreneurship Development Programme -Need for EDP -Objectives of EDP -Contents of EDP -Phases of EDP -Evaluation of EDP	15
4.	Project Identification & Resource Management -Meaning of Project -Project Identification -Project Selection -Resources of (Finance, Material, Market, Man power, Power, Land & Building) -Preparation of Project	15
5.	Project Preparation -Introduction about Project -Background about Project (Product/Service) -Brief information about Product, Marketing, Resources generation etc. -Requirements of Project: Required Resources, Budget, Plant, Machinery & Other related things (Based on fixed and working capital approach) -Processing, Duration required and expected outcome -Marketing, Services etc. (Project selection or Project Preparation should be based on such a project which is currently working in your environment and known to the students, Support factual information, data and documents.	15

Note : Practicals to be conducted based on curriculum given in semester I and Semester II of Entrepreneurship Development. Practical may include preparation of tender, Preparation of quotations, Comparative Statement, Purchase order, Insurance Proposals, Bank Proposal for loan, credit, overdraft, Report on interview of successful entrepreneur in local area.

Suggested Reading:

- 1 Entrepreneurship Development, S.S.Khanka, Sultan Chand & Co.Ltd.
- 2 Fundamentals of Entrepreneurship, G.S.Sudha, Ramesh Books Depot.
- 3 Entrepreneurship Development ; E.Gordan & K Natarajan,Himalaya Publishing House.
- 4 Entrepreneurship Development, Colombo Plan Staff College for Technician Edn,Manila, TaTa McGraw Hill.
- 5 Small Scale Industries & Entrepreneurship, Vasant Desai, Himalaya Publishing House.
- 6 Project Planning & Control:N.P.Agarwal & Dr.B.K.Mishra, Indus Valley Publication, New Delhi.

B.Com Hnd Semester Syllabus (CBCS)

Office Management-II

Theory: 80
Practical: 20**Objectives :**

1. To provide knowledge and information about Office Management Practices.
2. To create skill and ability to operate office activities effectively (By using information systems).

1.	Modern Office and its Functions -Introduction : Office -Meaning of Office -Work and activities of Office -Office functions and its Importance -Changing nature of Office activities -Current scenario and Practice	05
2.	Office Systems and Procedures -The concept of system, Meaning, Nature and definition -System analysis, Nature, Practice and Stages -Meaning of flow of work, Role of Manager in system and Procedural work	10
3.	Office Services -Meaning and Nature of office services, -Centralized Vs Decentralized Office Services, -Departmental work or categorization of work in office (Modern services and practices to be expected)	15
4.	Record Management and Reporting -Meaning and Nature of record, Record managing Practices, Filing, Indexing, Manual preparation, Record retentions, Safety Security and Disbursement Reporting, Meaning of reporting, Report Preparation, Report writing, Contents writing and Report submission/Presentation.	15
5.	EDP Environment for Effective Office Management -Need and requirement of EDP Environment, Availability of EDP based modern tools, techniques, devices, hardware, software and Human wares. -Knowledge about Computer, Hardware, Software and its application in day to day office work. -Knowledge about File creation, Folder Creation, Uploading, Downloading, Attachment, Merging, Conversion etc.	15

Note : Practicals to be conducted based on curriculum given in semester I and Semester II of Office Management.

Practicals :

- Preparation of Applications.
- Letter -Formal, Informal, Notice Preparation.
- Meeting Agenda
- Meeting Minutes
- Report preparation.
- Preparation of tender, Preparation of quotations,-Comparative Statement, Purchase order, Insurance Proposals, Bank Proposal for loan, credit, Overdraft.
- Report on interview of successful entrepreneur in local area.
- Preparation of different format related to concerned office, Business, Industries
- Preparation of different types of vouchers.
- Formal letters to Government Tax authorities, etc.
- Intimation letters
- Inward & Outward Procedure.
- File mechanism -uploading, downloading, attachment etc.

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G. Kumar

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Suggested Reading

1. Shera, R.C. Principles of Office Management. Lotus Press, New Delhi
2. Coltingwell and Robinson. Textbook of Office Management. Tata McGraw Hill
3. Terry George R. Office Management and Systems
4. Ghosh, Vinay. Aggarwal, Kanchan. Prabhat, India Chand B. Jain
5. Duggal, D. Office Management and Commercial Correspondence. Kishor Mahal
6. R.K. Chopra & Anand Chopra. Office Management. Himalaya Publications
7. Chavan, Shivaram. "Information Technology"
8. Brown E. "Management Information System". Tata McGraw Hills, New Delhi
9. P.N. Tinkal. "PC Software made simple". Tata McGraw Hills, New Delhi
10. V. Rajaraman. "Fundamentals of Computer". Prentice Hall of India, New Delhi
11. Venkya D.H. "Computer Today". Tata McGraw Hill
12. Demsey Sheila V. "Microsoft Office Professional for Windows 97". BPH Publications
13. Amrita Lakshmi. Modern Organization
14. Betty J. Development in Office Management
15. Brown L. Effective Business Report Writing
16. Shankar L. Fundamentals of Office Methods and Form Design
17. Carl Heyerd. Handbook of Office Administration
18. Giran, Girvan and Hoffman. Report Writing
19. Lewis H.S. Office Work and Automation
20. Terry George R. Office Automation, Office System and Procedures

Circular file

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY



CIRCULAR NO.SU/Commerce & Management/ III Sem./59/2019

It is hereby inform to all concerned that, on the recommendation of the Dean, Faculty of Commerce & Management, the Hon'ble Vice-Chancellor in his emergency powers under Section-12(7) of the Maharashtra Public Universities Act, 2016 has accepted the syllabi of **B.Com., BBA & BCA III Sem.** under Choice Based Credit and Grading System on behalf of the Academic Council to be applied from the Academic Year 2019-2020 and onwards. The said syllabi are uploaded on bamu.ac.in at University website.

All concerned are requested to note the contents of this circular and bring notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.No. SU/ COMMERCE/2018-19
25445 - 844
Date:- 31-05-2019.

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*Deputy Registrar,
Syllabus Section.*

Copy forwarded with compliments to :-

- 1] **The Principals, affiliated concerned Colleges, Dr. Babasaheb Ambedkar Marathwada University.**
- 2] **The Director, University Network & Information Centre, UNIC, with a request to upload this Circular along with the said syllabi on University Website.**

Copy to :-

- 1] The Director, Board of Examination & Evaluation,
- 2] **The Section Officer, [B.Com. Unit] Examination Branch,**
- 3] **The Programmer [Computer Unit-1] Examinations,**
- 4] **The Programmer [Computer Unit-2] Examinations,**
- 5] The In-charge, [E-Suvidha Kendra], Rajarshi Shahu Maharaj Pariksha Bhavan, Dr. Babasaheb Ambedkar Marathwada University
- 6] The Public Relation Officer,
- 7] The Record Keeper

**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Curriculum of

Bachelor of Commerce

B.COM.IIND YEAR

THIRD SEMESTER

under Choice Based Credit & Grading System

[*Effective from the Academic Year 2019-20 & onwards*]

[Handwritten signatures and dates]
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DR. BABASAHEB AMBEDKAR MARATHI WADA UNIVERSITY, ACHANGABAD

Faculty of Commerce & Management

B.Com. Third Semester Structure (2023 - 24)

Paper Number	Subject/ Title of the Paper	Course	Weeks		Credits		EA	EB	Total Marks	Duration of Theory Exam
			Tk	Pr	Tk	Pr				
I	English	Compulsory Language	4	-	4	-	20	80	100	1.00hr
II	Second Language	Second Language	4	-	4	-	20	80	100	1.00hr
III	Corporate Account - I	Core Discipline	4	-	4	-	20	80	100	1.00hr
IV	Cost Account - I	Core Discipline	4	-	4	-	20	80	100	1.00hr
V	IT Application in Business - I	Core Discipline	2	2	2	2	10	10	100	1.00hr
VI	GST Account - I	Enhancement Compulsory	4	-	4	-	20	80	100	1.00hr
VII	1 Banking or 2 Marketing Management or 3 Financial Management or 4 Indian Economy	Discipline Specific Elective [Any One]	4	-	4	-	20	80	100	1.00hr
Total			28	-	28	-	140	560	700	-


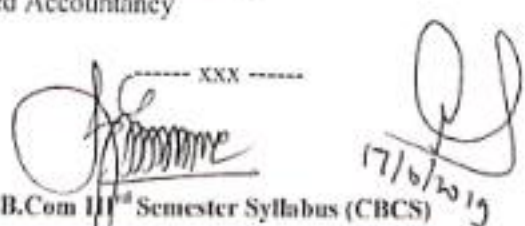
**B.Com IIIrd Semester Syllabus (CBCS)
Corporate Accounting -I**

Theory = 80
Sessional = 20

	No. of Lectures
Unit-I: Issue and forfeiture of shares, Re-issue of forfeited shares Meaning of shares, Issue of shares-at par, at premium, at discount (Theory), Collection of share money Collection at lump sum (Theory) Collection in installment Issue of share in consideration of assets etc. Procedure of Issue of shares, Prospectus, Application, Allotment, Pro-rata Allotment of shares, Forfeiture of shares, Reissue of shares, Profit on Re- issue, Journal Entries for Issue of shares, Balance sheet <p align="right">(Numerical Problems)</p>	15
Unit-II: Redemption of Debentures Types of Debentures, Methods of Redemption- Redemption in Installment, Redemption in lump sum, Redemption by conversion, Redemption by purchase in open market, Sinking Fund. - (Theory) Finance for Redemption out of profit, out of fresh Issue Redemption in lump sum Issue at "Par" Redeemable at "Par" Issue at "Discount" Redeemable at "Par" Issue at "Premium" Redeemable at "Par" (Numerical Problems) Issue at "Par" Redeemable at "Premium" Issue at "Discount" Redeemable at "premium" Sinking fund method (Numerical)	10
Unit-III: Redemption of Preference shares Types of Preference shares (Theory) Redemption out of fresh Issue of shares Redemption out of profits Journal Entries for Redemption and Balance sheet after Redemption: (Numerical)	10
Unit-IV: Final Accounts of Joint stock company, Statement Form (Numerical)	15
Unit-V: Profit Prior to Incorporation (Theory and Numerical)	10

Reference Books

1. Maheshwari S.N. : Corporate Accounting
2. Shukla M.C. & Grewal T.S. : Advanced Accounts
3. Mahurkar & Deshpande : Accountancy - I
4. Kolalwar H.R. : New Approach to Accountancy
5. Jain & Narang : Advanced Accountancy

B.Com IIIrd Semester Syllabus (CBCS)

Cost Accounting – I

Theory – 80 Marks
 Sessional – 20 Marks

		No. of Lectures
Unit – I	Cost Accounting : Meaning, Definition, Limitation, of financial Accounting, Development of Cost Accounting, Function, Objectives, Advantages, Disadvantages and limitations of cost accounting, Difference between Financial and Cost Accounting. (Theory)	(10)
Unit – II	Elements of Cost : Concept of Cost, Cost Units, Cost Centers, Cost Objects, Cost Drivers, Types of Cost, Classification of Cost – By Nature or Elements, By Function, By Variability, or Behaviour, By Controllability, By Normality, By Cost for Managerial Decision Making. (Theory)	(08)
Unit – III	Material : Concept, Objectives, Need, Essentials of Material Control, Purchase procedures, Function of purchase, department classification, and coding of material, fixation of levels of material, Economic Order Quantity, Material Handling Costs, Bin Cards, Stores Routines, Issue of Material, Issue Procedures, Methods of Pricing, Material Issue FIFO, LIFO, Simple Average, Weighted Average Method. (Theory & Numerical)	(14)
Unit – IV	Labour : Meaning, Definition, Recent Trends in Time Booking, Labour Control, Methods of Wage Payment, Time and Piece Rate, Incentives Scheme – Taylor's Differential Piece Rate System, Halsey Plan, Rowan Plan (Theory & Numerical)	(14)
Unit – V	Overheads : Definition, Direct and Indirect Costs, Importance of Overheads, Allocation, Apportionment and Absorption of Overhead, Methods of Distribution, Primary – Secondary distribution, repeated method, Machine Hour Rate, Under and Over absorption of overheads (Numerical)	(14)
	Sessional Work : 20 Marks	
	1. One Test : 05 Marks	
	2. One Tutorial : 05 Marks	
	3. Students to collect proforma of Bin Card, Store Ledger, Time Card, Purchase Requisition, & Purchase Order. (fill them) : 10 Marks	

Reference Books :

1. Practical Costing : Khanna, Pande and Ahuja
2. Cost Accounting : Bhatia HSM
3. Principles & Practices of Cost Accounting : N. K. Praasad
4. Cost Accounting (Methods & Problems) : B. K. Bhar

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B.Com III Semester Syllabus (CBCS)

I.T. Application in Business - I


Theory - 50
Practical U/A - 50

		No. of Lectures
Unit - I	C-LANGUAGE : Introduction: Types of Languages - History of C language - Basic Structure - Creating - Compiling - Linking and Executing the C Program - Pre-processors in "C". Token- Constants- Keywords & Identifiers- Variables- Data types- declaration and assignment of variables - defining symbolic constants	(10)
Unit - II	OPERATORS, EXPRESSIONS AND DECISION MAKING : Introduction to Operator, Type of Operator, Arithmetic, Relational and Logical Operators, Assignment, Increment and Decrement of Operators - Conditional, bitwise and Special Operator, arithmetic expression and its evaluation - hierarchy of arithmetic operations - evaluations.	(08)
Unit - III	CONTROL BRANCHING AND DECISION-MAKING IN C - Decision Making in C, Introduction, if Statement, if-else Statement, Nested if Statement, if else if Ladder, switch case, GOTO statement.	(14)
Unit - IV	LOOP - Loop Introduction in C, while loop, do while Loop, for Loop with variations, Nested Loops, Loop interruption statement - break and continue.	(14)
Unit - V	ARRAYS AND STRINGS : - Arrays : Introduction - Defining an array - Initializing an array - One dimensional array - Two dimensional array - Dynamic array, Strings: Introduction - Declaring and initializing string variables - Reading and Writing strings - String handling functions.	(14)
	Practical's U/A : 50 Marks	
	1. One Test	: 10 Marks
	2. Oral	: 20 Marks
	3. Practical's Files at least minimum	: 20 Marks
	(10 Programs in the file)	

Reference Books :

1. Programming in ANSCI C: Balaguruswamy, McGraw Hill.
2. Programming in C: Ashok Kamthane, Pearson.
3. The C Programming Language: B.W.Kernighan & D.M.Ritchie, PHL.
4. Let Us C: Y. Kanetkar, BPB.
5. Fundamental of C : Dr Prasad Madan, Dr. Gajanan Chaudhari, Miss Ujjwala Wagh, Chinmay Prakashan, Aurangabad

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 B.Com IIIrd Semester Syllabus (CBCS) 17/6/2019
 Goods and Services Tax Account (GST) - I

GST ACCOUNT - ITheory - 80 Marks
Sessional - 20 Marks

	No. of Lectures
Unit - I Introduction, Overview and Evolution of GST: 1.1 Indirect tax structure in India; Difference between Direct & Indirect Taxes; 1.2 Introduction to Goods and Service Tax (GST) - Key Concepts 1.3 Important definitions, Meaning of terms used in GST, GST Council 1.4 Taxes under GST, Cess	10
Unit - II Registration under GST: 2.1 Threshold for Registration 2.2 Regular Tax Payer; Composition Tax Payer; Casual Taxable Person; Non-Resident Taxable Person 2.3 Persons not liable for registration. 2.4 Compulsory registration in certain cases. 2.5 Procedure for registration. 2.6 Unique Identification Number 2.7 Registration Number Format	10
Unit - III Supply under GST and Valuation of Supply: 3.1 Supply, Place of Supply, Intrastate & Interstate Supply, 3.2 Levy and Collection of IGST, CGST, SGST/UTGST 3.3 Time and Valuation of Supply	10
Unit - IV Input Tax Credit and Tax Payments under GST: 4.1 Input tax credit process 4.2 Negative List for Input tax credit 4.3 Input Tax Credit Utilization and Input Tax Credit Reversal 5.5 Payment of Tax, Interest and Penalties.	10
Unit - V Documents, Accounts & Records, Returns under GST: 5.1 Tax Invoice, Credit & Debit Notes. 5.2 Accounts and other records to be maintained. 5.3 Types of GST returns, particulars to be furnished, their due dates, late filing, late fee. 5.4 Annual Return and Audit under GST.	10
Unit - VI Others: 6.1 Overview of Schedule Entries and Tariffs under GST 6.2 E-Way Bill Procedure. 6.3 Accounting Entries (Journal entries, Ledger Posting) of GST Transactions.	10
Note : Practical's should be taken as per the requirement of the Units. College can take decision on their own.	60

Reference Books :

1. Indirect Taxes : V. S. Datey - Taxman Publication
2. M Vat Subramanian Snow White Publication
3. Systematic Approach to Taxation - Dr. Girish Ahuja & Dr. Ravi Gupta

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B.Com IIIrd Semester Syllabus (CBCS)
Banking (Elective)

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Theory - 80 Marks
Sessional - 20 Marks

		No. of Lectures
Unit - I	AN OVERVIEW of BANKING INDUSTRY ; Definition of Banks, Evolution of Banking system in India, Banking reforms from 1991-2000, Bank crises in India, Critical evaluation of Banking Industry in India.	12
Unit - II	COMMERCIAL BANKING ; Meaning and Definition of commercial Bank, Functions of Commercial Bank, Services offered by Commercial Bank, Retail Banking- Meaning, Features, Significance of Retail Banking and overview of its Products, Corporate Banking - Meaning, Features, significance of Corporate Banking and Overview of Its products, Nationalization, Privatization of Banks, Merger of Banks.	14
Unit - III	RESERVE BANK of INDIA ; Objectives, Organization, Functions, Instruments of Credit control, Monetary policy of Reserve Bank of India and Role in Economic Development of the Country.	10
Unit - IV	MODERN BANKING IN INDIA ; Meaning and importance of E Banking, Electronic payment System, Teller Machines- Branch Teller Machines (BTM) and Automated Teller Machines (ATM) Tele Banking, Internet Banking, Debit and Credit cards, Real Time Gross Settlement (RTGS) and National Electronic Funds Transfer System (NEFT), Electronic payment System.	14
Unit - V	FINANCIAL INCLUSION ; Need and Extent, Features and Procedures of Pradhan Mantri Jan Dhan Yojana and Pradhan Mantri MUDRA Yojana, Features, Procedures and Significance of Stand Up India Scheme for Green Field.	10

Practical - 20 Marks
(to be Conducted by the Department in each College as per Convenience)

Reference Books :

1. Basu A.K. Fundamentals of Banking - Theory and Practice, A Mukherjee and co; Kolkata.
2. Shekhar and shekhar; Theory and Practice, Vikas Publishing house New Delhi.
3. Sayers R.S. Modern Banking; Oxford University Press.
4. Reserve Bank of India; Functions and working of Reserve Bank of India Publications.
5. Vasant Desai; Banks and Institutional Management, Himaliya Publishing house Mumbai.
6. Kaptan S.S. and choubey N.S., E Indian Banking Era, Sarup and Sons, New Delhi.
7. Uppal and Jha Online Banking in India, Amol Publication Pvt. Ltd; New Delhi.

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B.Com IIIrd Semester Syllabus (CBCS)
Marketing Management (Elective)

Theory - 80 Marks
 Sessional - 20 Marks

		No. of Lectures
Unit - I	Introduction to Marketing : Definition, nature, scope and importance of marketing, traditional and modern concept of marketing, classification of markets, functions of marketing, Evaluation of marketing.	11
Unit - II	Strategic and Ethical Marketing : Marketing strategy : definition & features, steps in strategic marketing planning process, SWOT analysis, Meaning and definition, scope, ethics in marketing, challenges facing marketers.	11
Unit - III	Marketing Mix and Channels of Distribution : meaning and importance of marketing mix, elements of marketing mix - product mix, price mix, place and promotion mix, study of channels of distribution and various channels of distribution - factors to be considered in the selection of channels of distribution.	12
Unit - IV	Marketing Management and Marketing Environment : definition and importance of marketing management, functions of marketing management, marketing environment - meaning of marketing environment, nature & scope of environment, micro & macro environment, emerging marketing opportunities in India, international marketing environment.	12
Unit - V	Agriculture Marketing : Meaning, definition and scope, difference between agricultural product marketing and manufactured product marketing, factors affecting demand of agro products, importance of agriculture marketing.	12

Practical - 20 Marks
 (to be Conducted by the Department in each College as per Convenience)

Reference Books -

- 1) Marketing Management - Philip Kotler
- 2) Marketing Management - Theodore Levitt
- 3) Marketing Management - S. A. Sherlekar
- 4) Marketing Management - E. N. Sontakki
- 5) Fundamentals of Marketing - William Stanton
- 6) Marketing : Planning, Implementation & Control - V. S. Ramaswami & S. Narayanaswami

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B.Com IIIrd Semester Syllabus (CBCS)
 Financial Management (Elective)

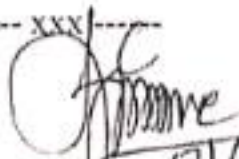
Theory - 80 Marks
Sessional - 20 Marks

	No. of Lectures
Unit - I INTRODUCTION : Meaning of Business Finance, Definition, Nature and Scope of Financial Management, Importance & Objectives of Financial Management, Finance Function - Approaches & Aims, Function of Finance Manager.	12
Unit - II COST OF CAPITAL AND CAPITAL STRUCTURE : Meaning, Concept, Significance of Cost of Capital, Determination of Cost of Capital - Equity, Preference & Debentures, Retained earnings, Capitalization. Meaning of Capital Structure, Patterns of Capital Structure, Importance, Factors determining Capital Structure, Optimal Capital Structure, Theories of Capital Structure (Net Income, Net Operating Income, MM Hypothesis, Traditional Approach)	12
Unit - III LEVERAGES : Meaning of leverage, Types of leverages-Financial, Operating and Combined leverage, Significance and limitations of Financial leverage, Distinction between Financial and Operating leverage.	12
Unit - IV WORKING CAPITAL MANAGEMENT : Concept of Working Capital Management, Significance of working capital, Excess v/s Inadequate Working Capital, Factor determining working capital Needs, Operating Cycle, Working Capital Management - Cash, Inventory, & Receivable Management, Estimation of Working Capital requirement.	12
Unit - V DIVIDEND POLICY & DECISION MAKING : Introduction, Significance, Factors of Determinants of Dividend Policy, Forms of Dividends, Types of Dividend Policies. Sessional - 20 Marks (to be Conducted by the Department in each College as per Convenience)	12

Reference Books :

1. Khan, M.Y & Jain, P.K.: Financial Management; Tata McGraw Hill, New Delhi,
2. Pandey, I. M.: Financial Management; Vikas Publishing House, New Delhi,
3. Chandra, Prasanna: Financial Management; Tata McGraw Hill, New Delhi,
4. Brealey and Meyers: Principles of Corporate Finance: Tata McGraw Hill, New Delhi,
5. Vanhorne, James C: Financial Management and Policy; Prentice Hall of India, New Delhi,

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B.Com IIIrd Semester Syllabus (CBCS)
Indian Economy (Elective)


17/6/19


17/6/19

Theory – 80 Marks
Sessional – 20 Marks

		No. of Lectures
Unit – I	Introduction to Indian Economy : Concept and Characteristics of Indian Economy, Types of Economies, Importance of Agriculture, Industry and Service Sector in Indian Economy, Need and Impact of Economic Reforms in India since 1991, Characteristics of India's Population, Present status of India in HDI rank, Need and Significance of Infrastructure, Impact of Demonetization & GST on Indian Economy.	12
Unit – II	National Income : Meaning and features of National Income, Concepts and Methods of measurement, Difficulties and Trends in National Income, Green GDP, India's place in world economy.	12
Unit – III	Poverty and Unemployment : Poverty : Concept and meaning, Poverty line, Absolute and Relative Poverty, Causes, Effects and Measurement of poverty, measures to eradicate Poverty. Unemployment : Concept, Types, Causes, Effects and government measures to reduce unemployment, Skill Development Schemes in India, Make in India.	12
Unit – IV	Planning in India : Meaning, Characteristics and Objectives of planning, Targets and Achievements of Five Year Plans., 12 th Five Year Plan: Objectives, Achievements & Evaluation, NITI Aayog Nature Objectives and Functions.	12
Unit – V	Budget : Meaning, Features and Types of Budget, Structure of Budget- Revenue and Capital Budget, Concepts of Deficit, Graduate Budget , FRBM Act 2003 with amendments, Recent Trends in Budget.	12
Practical - 20 Marks (to be Conducted by the Department in each College as per Convenience)		

Reference Books –

- 1) Indian Economy: Datt, Ruddar & K.P.M. Sundhram, S. Chand and Company, New Delhi.
- 2) Indian Economy: Misra S.K. & Puri V.K. (Edition, 2018) Himalaya Publication House, Mumbai.
- 3) Indian Economy: Ramesh Singh, (Edition, 2018) McGraw Hill Education (India) Private Ltd, Chennai.
- 4) General Studies Indian Economy: (Latest Edition) Pratiyogita Darpan, Agra
- 5) भारतीय अर्थव्यवस्था: देसाई आणि भालेराव, (आवृत्ती २०१७) , निराली प्रकाशन, पुणे.

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17/6/19


17/6/19


17/6/2019

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY



CIRCULAR NO.SU/Commerce & Management/ IV Sem./21/2019

It is hereby inform to all concerned that, on the recommendation of the Dean, Faculty of Commerce & Management, the Hon'ble Vice-Chancellor in his emergency powers under section-12(7) of the Maharashtra Public Universities Act, 2016 has accepted the syllabi of **B.Com., BBA & BCA IV Sem.** under Choice Based Credit and Grading System on behalf of the Academic Council to be applied from the Academic Year 2019-2020 and onwards. The said syllabi are also available on bamu.ac.in on University website.

All concerned are requested to note the contents of this circular and bring notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.

REF.NO. SU/ COMMERCE/2019-20

4322 - 2332

Date:- 15-11-2019.

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*Deputy Registrar,
Syllabus Section.*

Copy forwarded with compliments to :-

- 1] **The Principals, affiliated concerned Colleges, Dr. Babasaheb Ambedkar Marathwada University.**
- 2] **The Director, University Network & Information Centre, UNIC, with a request to upload this Circular along with the said syllabi on University Website.**

Copy to :-

- 1] The Director, Board of Examination & Evaluation,
- 2] **The Section Officer, [B.Com. Unit] Examination Branch,**
- 3] **The Programmer [Computer Unit-1] Examinations,**
- 4] **The Programmer [Computer Unit-2] Examinations,**
- 5] The In-charge, [E-Suvidha Kendra], Rajarshi Shahu Maharaj Pariksha Bhavan, Dr. Babasaheb Ambekar Marathwada University.
- 6] The Public Relation Officer,
- 7] The Record Keeper.

**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Curriculum of

Bachelor of Commerce

B.COM. IIND YEAR

FOURTH SEMESTER

under Choice Based Credit & Grading System

[Effective from the Academic Year 2019-20 & onwards]

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

B.com Fourth Semester Structure (2019 - 2020)

Faculty of Commerce & Management

Paper Number	Subject/ Title of the Paper	Course	Weekly		Credits		IA	UA	Total Marks	Duration of Theory Exam
			Th	Pr	Th	Pr				
I	English	Compulsory Language	4	-	4	-	20	80	100	3 Hrs
II	Second Language	Second Language	4	-	4	-	20	80	100	3 Hrs
III	Corporate Account - II	Core Discipline	4	-	4	-	20	80	100	3 Hrs
IV	Cost Accounting - II	Core Discipline	4	-	4	-	20	80	100	3 Hrs
V	<i>IT Application in Business - II</i>	Core Discipline (Theory)	3	-	2	-	-	50	50	2 Hrs
		Practical	-	1	-	2	-	50	50	2 Hrs
VI	<i>Goods and Services Tax - II (GST)</i>	Ability Enhancement Compulsory	4	-	4	-	20	80	100	3 Hrs
VII	1. Insurance or	Discipline Specific Elective [Any One]	4	-	4	-	20	80	100	3 Hrs
	2. Human Resource Management or									
	3. Import Export Procedure & Practice or									
	4. Business Environment.									
Total			27	01	26	02	120	580	700	--

*Note:- As per UGC norms one theory lecture is equal to two practicals.




- 4 -

B.Com IVth Semester Syllabus (CBCS)
Corporate Accounting –II

Total Marks 100
Theory 80
Sessional 20

		No. of Lectures
Unit-I :	Amalgamation of Joint Stock Company Purchase consideration, closing entries in the books of dissolving company, Acquisition entries and Opening Balance Sheet of New Company after Amalgamation	12
Unit-II :	Absorption of Joint Stock Company Purchase consideration, Ledger accounts in the books of Absorbed (Dissolved) company, Acquisition entries in the books of Absorbing Company, Balance Sheet after Absorption	11
Unit-III:	Reconstruction of Joint Stock Company Internal Reconstruction only	10
Unit-IV:	Accounts of Holding Company (with one subsidiary) Pre - Post Acquisition Profit, Reserve, Pre-Post Acquisition Loss, Inter-Company Debentures and Debts, Unrealized Profit, Consolidated Balance Sheet	15
Unit-V:	Liquidation of Joint Stock Company Solvent and Insolvent Company, Remuneration of Liquidator- Fixed, on Asset Realized, Preferential Creditors, Unsecured Creditors etc	12

Reference Books

1. Maheshwari S.N. : Corporate Accounting
2. Shukla M.C. & Grewal T.S. : Advanced Accounts
3. Mahurkar & Deshpande : Accountancy – I
4. Kolalwar H.R. : New Approach to Accountancy
5. Jain & Narang : Advanced Accountancy

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**B.Com IVth Semester Syllabus (CBCS)
Cost Accounting - II**

Total Marks 100
Theory 80
Sessional 20

		No. of Lectures
Unit - I	Single or Output Costing: Meaning, Definition, Features, Objectives, Element of Cost, Distribution of Overhead, Preparation of Cost Sheet, Tender and Quotation (Theory)	(10)
Unit - II	Contract Costing : Meaning, Concept of Contract Costing, Preparation of Contract Account, Complete and Incomplete Contracts, Work in Progress, Profit on Contract (Numerical)	(08)
Unit - III	Operating Costing or Service Costing: Meaning of Operating Costing, Types of Operating Costing, Preparation of Electricity and Transport Cost Sheet. (Numerical)	(14)
Unit - IV	Process Costing : Meaning of Process Costing, Concept of Process Costing, Normal and Abnormal Gain, Loss, Equivalent Production, Preparation of Process Costing, Joint and By-product (Theory/ Numerical)	(14)
Unit - V	Reconciliation : Meaning, Objectives and Advantages of reconciliation, Reconciliation of Cost accounting records with Financial record, Procedure of Reconciliation, Methods of Reconciliation. (Theory)	(14)
	Sessional Work : 20 Marks	
	1. One Test : 05 Marks	
	2. One Tutorial : 05 Marks	
	3. Seminar and GD : 10 Marks	

Reference Books :

1. Practical Costing : Khanna, Pande and Ahuja
2. Cost Accounting : Bhatia HSM
3. Principles & Practices of Cost Accounting : N. K. Praasad
4. Cost Accounting (Methods & Problems) : B. K. Bhar
5. Fundamental of Costing : S. N. Maheshwari.

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**B.Com IVth Semester Syllabus (CBCS)
I.T. Application in Business – II**

Total Marks 100
Theory 50
Practical 50

Unit – I	Introduction to E-commerce ; E-Commerce- An Overview, Electronic Commerce Framework, Evolution of E-commerce: History of Electronic Commerce, Advantages and Disadvantage of E-commerce, Roadmap of e-commerce in India, E-Business : Definition, E-Business Models, Elements of E-business Models	Lectures
Unit – II	E-Marketplaces Definition & Structure of E-Marketplace, Types of E-Marketplace, Types of Auctions and its Characteristics, Benefits ,Limitations and impact of Auctions, E-Commerce in the wireless environment.	09
Unit – III	E-Business Applications and E-Payment Systems :Integration & E-Business Suits, ERP- Overview of Software Solutions, ERP Implementation, Methodology and Framework, CRM, E-Payment, Categories and users of smart cards, Different Digital Payment methods	12
Unit – IV	E-Business Impact on Different Fields and Industries : E-Business Impacts : E-Tourism, Online Employment and Job Market, online Real Estate, Online Publishing & E-Books, Online Banking, Online Delivery of Digital Products, Entertainment and Media E- Government : Definition of E-Government, implementation, E-Government Services, Challenges & Opportunities, Benefits of E-Government	12
Practical	<ol style="list-style-type: none"> Students Shall Prepare a report on growth of E-Commerce in India from an authentic source Students shall list out Top B2B websites. Students shall list out Top B2C websites. Students shall list out E-Commerce websites whose advertisement is Aired on TV. Students Should study the various payment methods & gateways available on E-commerce websites. Preparing a model purchase order on Amazon.com/Flipkart.com Model Railway ticket booking on IRCTC Filing Online applications for various scholarships and concessions Online application for Banking purpose like Bank Account, Loan, Fund transfer, Insurance Policy etc Online Application for job using www.Nokari.com or any other job portal Online Movie ticket Booking using www.Bookmyshow.com or any other booking portal 	15
	Practicals U/A : 50 Marks 1. Test : 10 Marks 2. Oral : 20 Marks 3. Practical File : 20 Marks	

Reference Books:

- Electronic Commerce: A Managerial Perspective, Turban, E. et al., Prentice Hall 2008.
- Electronic Business and Electronic Commerce Management, 2nd edition, Dave Chaffey, Prentice Hall, 2006
- Alexon Leon, ERP Demystified , Second Edition, TATA McGraw Hill 2008
- David Whiteley, "E-Commerce", TATA McGraw Hill
- Ravi Kalakota "E-Commerce", Pearson Education

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**B.Com IVth Semester Syllabus (CBCS)
Goods and Services Tax (GST) – II**

Total Marks	100
Theory	80
Sessional	20

		Lectures
Unit – I	Documents, Accounts & Records, Returns under GST: 1.1 Tax Invoice, Credit & Debit Notes. 1.2 Accounts and other records to be maintained. 1.3 Types of GST returns. 1.4 Particulars to be furnished in the Returns, their due dates, late filing, late fee. 1.5 Annual Return and Audit under GST.	15
Unit – II	Composition Scheme under GST: 2.1 Provision of Composition Scheme, Eligibility criterion for opting the scheme. 2.2 Comparative analysis and Decision making under Regular and Composition scheme. 2.3 Withdrawal from Composition Scheme	15
Unit – III	Reverse Charge Mechanism under GST: 3.1 Provision of Reverse Charge Mechanism (RCM). 3.2 Services covered under RCM. 3.3 Difference between RCM and Tax on URD. 3.4 Provisions of Self Invoicing and ITC under RCM.	15
Unit – IV	Others: 4.1 Overview of Schedule Entries and Tariffs under GST 4.2 E-Way Bill Procedure. 4.3 GST for E-Commerce Operators. 4.4 GST for Import, Export and SEZ Transactions. 4.5 Accounting Entries (Journal entries, Ledger Posting) of all GST Transactions. 4.6 Overview of Assessment, Demand, Recoveries and Penalties under GST.	15
	<i>Note: Practicals should be taken as per the requirement of the Units. College can take decision on their own.</i>	
	Important Instructions for teachers:	
	<ol style="list-style-type: none"> 1. Student should be able to understand basic concepts of GST 2. It should be kept in mind that student should be able to apply the concepts into practical application. 3. Teacher should frame numerical problems according to the contents given in the above units of curriculum. 	

Reference Books :

- a) *Beginner's Guide to GST; By CA Kamal Garg, Neeraj Kumar Shrawat; Bharat Law House*
- b) *Systematic Approach to GST; By Dr. Grish Ahuja & Dr. Ravi Gupta; Flair Publication Pvt. Ltd.*
- c) *Indirect Tax Law and Practice; V.S. Datey; Taxmann Publications Pvt. Ltd., Delhi.*
- d) *Students' Guide to Indirect Taxes, Dr. V. K. Singhania Vinod and Monica Singhania, Taxmann Publications Pvt. Ltd., Delhi.*
- e) *GST for Beginners; Asst. Prof. Rathi S. G.; Aastha Educational Publishers Jalna.*

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**B.Com IVth Semester Syllabus (CBCS)
Insurance (Elective)**

Total Marks 100
Theory 80
Sessional 20

		No. of Lectures
Unit - I	Introduction to Insurance Insurance: History, Meaning, Definitions, Features, Functions, Scope, Types, Principles, Importance, Contract of insurance, Insurable Risk and its Types	12
Unit - II	Life Insurance Life Insurance: History, Meaning Definitions, Principles, Importance, Types, Procedure of taking life insurance policy, Policy conditions and claims, life Insurance Corporation of India.	12
Unit - III	General Insurance General Insurance: History & Types (Marine, Fire, Motor, Health, Accident, Crop, Group Insurance, etc.)	10
Unit - IV	Insurance Agency Agent, Agent's qualification, procedure for becoming an Agent, Methods of Agent's Remuneration, Functions and Responsibilities of Agent, Ethical behaviors of Agent, Renewal and Cancellation of license.	12
Unit - V	Recent Trends in Insurance Sector Functional areas of IT in insurance sector (Marketing, Consumer Awareness, Customer Service, Finance, HRM, R&D, MIS Regulatory Control), Benefits and Factors affecting of e-insurance, IT and life Insurance Corporation of India: Online Insurance, Channels of online Insurance Premium Payments, Benefits of online insurance purchase, Procedure of purchase Online Insurance Policy, Unit linked Insurance Plan (ULIP)	14
	Practical's: 1 Collecting and identifying the features of various products of insurance (Life and General) (05 marks) 2 Evaluating a insurance policy by approaching any insurance office. (05 marks) 3 Report of one guest lecture of insurance agent (05 marks) 4 Evaluating various websites of insurance companies (05 marks)	

Reference Books :

1. Insurance Institute of India: IC 33-Life Insurance
2. Insurance Institute of India: IC 33-Life Insurance
3. M.J.Mathew (2015): Insurance Principles and Practices RBSA Publishers.
4. Ghanashyam Panda and Monika Mahajan(2013): Principles And Practice of Insurance, Kalyani Publishers
5. I. R. Bhagat (2019): Indian Insurance System, Vidhya Books Publishers.
6. P. K. Gupta (2017): Insurance and Risk Management, Himalaya Publishing House.

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**B.Com IVth Semester Syllabus (CBCS)
Human Resource Management (Elective)**

**Total Marks 100
Theory 80
Sessional 20**

		No. of Lectures
Unit - I	Introduction to Human Resource Management : Definition, Features, Objectives, & Importance of HRM, Qualities of good HR Manager, Changing Roles of Human Resource Manager, Issues in HRM - Workforce, Diversity, VRS, Downsizing, Work-life balance	12
Unit - II	Human Resource Planning and Procurement : HR Planning - Concept, Objectives, Importance, Process, Limitations, Human Resource Information System. Job Analysis - Job Description, Job Specification, - Concept and Purpose Recruitment - Definition, Internal & External Sources of recruitment. Selection - Concept, Process of Selection. Placement - Induction and Retention.	12
Unit - III	Training and Development : Meaning and Objectives of Training , Benefits of Training to Organization and Employees, Needs and Importance of Executive Development, Training & Development Methods - Apprenticeship, Understudy, Job Rotation, Vestibule Training, Case Study, Role Playing, Coaching & Mentoring, Management Development Games, Training Process Outsourcing.	14
Unit - IV	Performance Appraisal : Definition of Performance Appraisal, Objectives, Uses, Process of Performance Appraisal , Methods of Performance Appraisal.	12
Unit - V	Discipline and Grievance : Nature and Objectives of Discipline, Causes of Indiscipline, Principles and Procedure for disciplinary action, Red Hot - Stove Rule. Grievance : Meaning, Causes, Grievance Handling Mechanism.	10
	Practical - 20 Marks (To be Conducted by the Department in each College as per Convenience)	

Reference Books -

1. C.B. Gupta, Human Resource Management Sultan Chand & Sons
2. P.G. Aquinas, Human Resource Management Vikas Publication.
3. C.B. Mamorai - S.V. Gankar, Human Resource Management, Himalaya Publication.
4. L. M. Prasad - Human Resource Management
5. K.Aswathappa, Human Resource Management, Tata Mc-Graw Hill Education Pvt. Ltd.

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**B.Com IVth Semester Syllabus (CBCS)
Import and Export Procedure & Practice (Elective)**

Total Marks 100
Theory 80
Sessional 20

		No. of Lectures
Unit - I	Documentation Framework : Export Import Controls and Policy, Types of Documents: Export contract: Processing of an Export order.	10
Unit - II	Export Financing Methods and Terms of Payments : Negotiations of Export Bills, Methods of Payment in International Trade, Documentary Credit and Collection, UCP 500/501; Pre-Post Shipment Export Credits, Bank Guarantees, Foreign Exchange Regulations and Procedures.	10
Unit - III	Cargo Credit and Exchange Risks: Marine Insurance Need, Types and Procedure, ECGC schemes for risk coverage, and procedure for filing claims. Quality Control and Pre-shipment Inspection Schemes : Process and Procedures, Excise and Customs, Clearance - Regulations Procedures and Documentation.	20
Unit - IV	Planning and Methods of Procurement for Exports : Procedure for procurement through Import, Import Financing, Customs Clearance of Import Cargo, Managing risks involved in importing - Transit Risk, Credit Risk and Exchange Risk.	10
Unit - V	Export Incentives : Overview of export incentives-ECGC, Duty drawbacks, Duty exemption schemes, Tax Incentives, Procedures and Documentation. Trading Houses : Export and Trading Houses Schemes - Criteria, Procedures and Documentation, Policy and Procedures for EOU/FTZ/EPZ/SEZ units.	10
	Sessional - 20 Marks (To be Conducted by the Department in each College as per Convenience)	

Reference Books :

1. Customs and Excise Law Times : various issues.
2. Export Import Procedures & Documentation, Dr. Khushpat S. Jain, Himalaya PH. 2008.
3. Export-Import Policy ; Ministry of Commerce, Govt. of India, Vols I & II
4. Ram, Paras. Exports : What, Where and How? Anupam Publication, New Delhi.
5. Mahajan, M.I. : Exports : Do IT Yourself, Snowwhite Publication , Mumbai

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**B.Com. IVth Semester Syllabus (CBCS)
Business Environment (Elective)**

Total Marks	100
Theory	80
Sessional	20

		No. of Lectures
Unit – I	Business Environment : Concept of Business Environment, Nature, Scope, Features, Needs and Importance of Business Environment, Indian Business Environment.	12
Unit – II	Problem of Growth : Problems of Population, Poverty, Unemployment, Regional Imbalances, Agricultural backwardness, Black Money, Inflation.	12
Unit – III	Government Policies : Industrial Policy 1948, 1956, 1977, 1980, 1991, 2019. Monetary Policy – Meaning and Definition, Objectives, Instruments and Limitations of Monetary Policy, Export and Import Policy.	12
Unit – IV	Economic Trends : National Income, Saving and Investment, Price Trends in India, Income, Money Market, Foreign Trade and Balance of Payments.	12
Unit – V	International Business Environment : Foreign Capital – Types, Needs, Importance, FDI , Foreign Capital in India, IMF – International Monetary(IMF), World Trade Organization(WTO), World Bank.	12
	Practical - 20 Marks (To be Conducted by the Department in each College as per Convenience)	

Reference Books –

1. Vyavasaik Paryavaran – Dr. Dinkar Girdhari, Uday Publication, Aurangabad.
2. Vyavasaik Paryavaran – Dr. Jitendra Ahirrao, Dr. Kalyan Laghane & Dr. Ramdas Vanare, Kailash Publication, Aurangabad.
3. Legal Environment of Business – Aswathappa K. , Himalaya Publication, New Delhi.
4. Economic Environment of Business – Ghosh Biswanath, Vikas Publication, New Delhi.
5. Economic Environment of Business – Adhikari M., Sultan Chand and Co., New Delhi

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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY



CIRCULAR NO. SU/Commerce & Management/B.Com./06/2020

It is hereby informed to all concerned that, on the recommendation of the Dean, Faculty of Commerce & Management, the Hon'ble Vice-Chancellor in his emergency powers under section 12(7) of the Maharashtra Public Universities Act, 2015 has accepted the revised syllabi following subjects of B.Com. Degree under Choice Based Credit and Grading System on behalf of the Academic Council to be applied from the Academic Year 2020-2021 and onwards.

1	I Sem	Entrepreneurship Development (Elective Paper)
2	II Sem	Entrepreneurship Development II
3	III Sem	Goods and Services Tax Account (GST)-I
4	V Sem	Business Regulatory Framework I
5	V Sem	Advance Financial Accounting I

The said syllabi are also available on University website www.bamu.ac.in

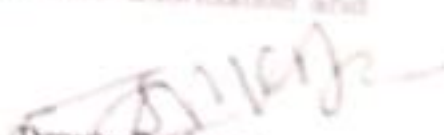
All concerned are requested to note the contents of this circular and bring notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004

Ref No. SU/Commerce/2020-21/

Date: 18-09-2020

13166-74


Deputy Registrar,
Academic Section,
Syllabus unit.

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- 1] The Principals, affiliated concerned Colleges, Dr. Babasaheb Ambedkar Marathwada University.
- 2] The Director, University Network & Information Centre, UNIC, with a request to upload this Circular along with the said syllabi on University Website.

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- 5] The In-charge, [E-Savidha Kendra] Rajarshi Shahu Maharaj Pratiksha Bhavan, Dr. Babasaheb Ambedkar Marathwada University.
- 6] The Public Relation Officer.
- 7] The Record Keeper.

**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Curriculum of

Bachelor of Commerce

B.COM.IIIRD YEAR

FIFTH SEMESTER

under Choice Based Credit & Grading System


[Effective from the Academic Year 2020-21 & onwards]

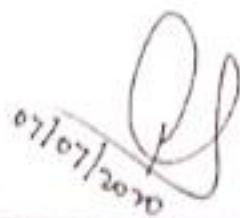
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

B.com Fifth Semester Structure (2020 - 2021)

Faculty of Commerce & Management

Paper Number	Subject / Title of the Paper	Course	Weekly		Credits		IA	UA	Total Marks	Duration of Theory Exam
			Th	Pr	Th	Pr				
I	Advanced Financial Accounting - I	Core Discipline	4	-	4	-	20	80	100	3 Hrs
II	Management Accounting - I	Core Discipline	4	-	4	-	20	80	100	3 Hrs
III	Auditing	Core Discipline	4	-	4	-	20	80	100	3 Hrs
IV	Business Regulatory Framework	Core Discipline	4	-	4	-	20	80	100	3 Hrs
V	Computerized Accounting - I	Ability Enhancement	2	-	2	-	-	50	100	2 Hrs
VI	1. Supply Chain Management & Logistics or	Discipline Specific Elective [Any One]	4	-	4	-	20	80	100	3 Hrs
	2. Rural Development & Agricultural Business or									
	3. Travel & Tourism or									
	4. MSME Management									
Total			22	02	22	02	100	500	600	--


02/07/2020


07/07/2020



Prof. W.K. Srinade
(Deputy Chairman BCS)

Prof. Syed Bahuddin
(Chairman BCS)

Prof. Sanyam Ghumre
(Chairman BCS)




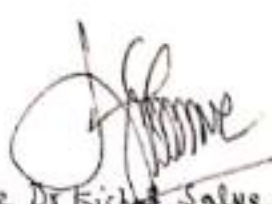
Dr. K.V. Sive
(Chairman BCS)

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

B.com Fifth Semester Structure (2020 – 2021)

Faculty of Commerce & Management

Paper Number	Subject / Title of the Paper	Course	Weekly		Credits		IA	UA	Total Marks	Duration of Theory Exam
			Th	Pr	Th	Pr				
I	Advanced Financial Accounting - 1	Core Discipline	4	-	4	-	20	80	100	3 Hrs
II	Management Accounting - 1	Core Discipline	4	-	4	-	20	80	100	3 Hrs
III	Auditing	Core Discipline	4	-	4	-	20	80	100	3 Hrs
IV	Business Regulatory Framework	Core Discipline	4	-	4	-	20	80	100	3 Hrs
V	Computerized Accounting	Ability Enhancement	2	2	2	2	50	50	100	2 Hrs
VI	1. Supply Chain Management & Logistics or 2. Rural Development & Agricultural Business or 3. Travel & Tourism or 4. MSME Management	Discipline Specific Elective [Any One]	4	-	4	-	20	80	100	3 Hrs
Total				-		-				--

Prof. W. K. Sarwade (Dean & Chairman) Prof. Syed Agha Uddin (Chairman BOS) Prof. Sadyaprem Ghunre (Chairman BOS) Dr. Kishor Salve (Chairman BOS)

B.Com Vth Semester Syllabus (B.Com)
Advance Financial Accounting - I

Total Marks : 100
 Theory : 80
 EA / Seminars : 20

Objectives : After studying this subject students will be able to understand how to prepare Final Accounts of Banking and Insurance Companies and record the accounting transactions and events related to investment and departmental affairs.

		No. of Lectures
Unit-I:	Single Entry System : (Theory and Numeric) Meaning, Features, Merits and Demerits, Difference between Single Entry System and Double Entry System, Ascertainment of profits, Net Worth System and Comparison of Double Entry System.	08
Unit-II:	Final Accounts of Banking Company : (Numeric) Introduction of Banking Company • Legal Provisions, Non Performing Assets (NPA) • Reserve Fund: Acceptances, Endorsements and other obligations, Bills for collection, Rebate on bills discounted and Provision for Bad and Doubtful debts • Preparation of Final Accounts as per Schedule Statutory Form - A and Form - B (Vertical Form only) OR Horizontal Form I, Form	15
Unit-III:	Final Account of Insurance Company (Numeric) • Introduction, Meaning, Types of Insurance, Books maintained by General Insurance Companies, Revenue Accounts, Profit & Loss Accounts, Profit & Loss Appropriation Accounts and General Balance Sheet • Claims- Re-Insurance transactions, Re-Insurance Premium transactions, Re-insurance Ceded and legal Provisions • Preparation of Revenue Account, Profit & Loss Accounts, P&L Appropriation Accounts and Balance Sheet. (Fire and Marine Insurance Only)	15
Unit-IV:	Investment Accounts : (Numeric) • Introduction, Meaning & Definition of Investment, Types of investments • Cum-Interest and Cum-Dividend Transactions of Purchases and sales • Ex-Interest and Ex-Dividend Transactions of Purchases and Sales • Entries for Interest Received, Brokerage, Commission on Purchases & Sales Transactions. • Valuation of Closing investment by FIFO Method and Market Price Method	15
Unit-V:	Emerging Technological Trends in Accounting: (Theory) • Cloud Accounting system - Meaning, Objectives, and Benefits • Forensic Accounting: Concept, Definition and Need. • Artificial Intelligence in Accounting and Auditing - Meaning, Use in Accounting, Role of Accountant using Artificial Intelligence.	07

Reference Books

1. Advanced Accounts - Shukla and Grewal, S. Chand & Co. Ltd., New Delhi
2. Advanced Accounts - Jain and Narang, Kalyani Publishers
3. A New Approach to Accountancy - Prof. H. R. Kotabwala, Discovery Publishers, Lucknow
4. Advanced accountancy - R. L. Gupta and Radha Swamy, Sultan Chand and Sons, New Delhi
5. Studies in Advanced Accountancy - Dr. S. N. Maheshwari, Sultan Chand and Sons, New Delhi
6. Advanced Financial Accounting - Dr. P. T. Bhosale, Dr. Hrushika Ahirwar, Dr. Shivaji Madan, Chinmay Prakashan

Prof. D. K. Sarwade
 (Dean)

Prof. Syed Azharuddin
 (BOS chairman)

Prof. Sahyapram Gajwani
 (BOS chairman)

Prof. Kishor Lave
 (BOS chairman)

**B.Com Vth Semester Syllabus (CBCS)
Management Accounting – I**

Total Marks	100
Theory	80
Sessional	20

Objectives: Management Accounting is an essential tool that enhances a manager's ability. This course is an introduction to the use of accounting information by managers for decision making, performance evaluation and control. The course objective is to increase understanding of the students about the concepts and techniques of management accounting. These issues will be addressed in the background of fast changing global market scenario.

		No. of Lectures
Unit I	Introduction to Management Accounting: Meaning, Definition, Features, Scope, Importance, and Functions of Management Account. Differences between Management Account, Financial Accounting and Cost Accounting. Advantages and Limitations of Management Account. <i>(Theory only)</i>	10
Unit II	Analysis and Interpretation of Financial Statements: Meaning, Definition, Objectives, Scope of Financial Statements. Financial Statement Analysis, Tools of Financial Statement Analysis - Comparative Financial Statement, Common size Financial Statement, Trend Analysis. <i>(Theory only)</i>	08
Unit III	Ratio Analysis: Meaning, Advantages, Limitations, and Classifications of Ratios. Gross Profit Ratio, Net Profit Ratio, Return on Capital Employed Ratio, Inventory Turnover Ratio, Debtors & Credit Turnover Ratio, Current Ratio, Liquid Ratio, Proprietary Ratio. <i>(Numeric Only)</i>	14
Unit IV	Fund Flow Statement: Meaning, Uses, Limitations, Sources and uses of funds. Funds from operations, Statement showing changes in Working Capital, Funds Flow Statement <i>(Only in statement form)</i> , and Preparation of necessary ledger accounts. <i>(Numeric Only)</i>	14
Unit V	Cash Flow Statement: Meaning, Uses, Limitations, Cash Flow Statement as per revised Accounting Standard – 3 in Statement Form, Preparation of necessary ledger accounts. <i>(Numeric Only)</i>	14
	Sessional Work : 20 Marks 1. Test/ Tutorials = 10 Marks 2. Analysis of Financial Statements (Any 5 Statement from Newspapers)= 10 Marks	

Reference Books :

- Dr. S.N.Maheshwari – Management Accounting-Everest Publishing Home, New Delhi.
- Dr. Rao A.P - Management Accounting - Everest Publications.
- Khan & Jain - Management Accounting Tata McGraw-Hill Education
- Dr. Jitendra Ahirrao - Management Accounting – Kailas Publications Aurangabad.
- Dr. V.R. Nagori & Dr. Sanjay Agrawal - Management Accounting – Chinmay Publications Aurangabad.

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**B.Com Vth Semester Syllabus (CBCS)
Auditing**

Total Marks **100**
Theory **80**
Sessional **20**

Objectives: This course aims at imparting knowledge about the principles and methods of auditing and its applications.

Unit		No. of Lectures
Unit I	Introduction: Meaning and objectives of Auditing, Importance of Auditing, Types of Auditing, Principles of auditing, Advantages & Limitations of Auditing, Auditing Vs Accounting, Auditing Vs Investigation.	10
Unit II	Audit Planning and Control Procedures : Audit Programme, Meaning, Factors affecting audit, Sources of obtaining information, Discussion with client, Advantages and disadvantages of Audit programme, Instructions before commencing of audit, Audit Note Book, Working papers and Evidences.	12
Unit III	Vouching and Verification : Vouching- Meaning, Need and Importance of Vouching, Vouching of cash and credit transaction, Verification of assets and liabilities, Valuation of assets and liabilities, Audit Report- Elements of Audit report, Types of Audit Report- qualified and clean report.	12
Unit IV	Company Auditor: Eligibility and appointment of Auditor, Qualifications, Disqualifications, Rotation and Removal of Company Auditor, Powers and Duties of Company Auditor, Liabilities and Remuneration of Company Auditor	14
Unit V	Recent Trends in Auditing: Nature and Significance of Cost Audit, Tax Audit, Management Audit and Investigation, Changing role of Auditors in Computerized Accounting System, Forensic Audit, and Conceptual Understanding of Standard Auditing Practices.	12
<i>Note: Practical's should be taken as per the requirement of the Units. College can take decision on their own.</i>		

Reference Books:

1. Tandon B.N.: A Hand Book of Practical Auditing, S.Chand and Company, New Delhi
2. Ravindra Kumar: Auditing: Principles and Practice, Virendra Sharma, PHI learning Pvt. Ltd. New Delhi.
3. Sanjib Kumar Basu: Auditing and Assurance for CA IPCC, Pearson education, New Delhi.
4. N.K.Jha, CA Purva Jain: Auditing: Principles and Practice, Himalaya publishing Pvt. Ltd. Mumbai.

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**B.Com Vth Semester Syllabus (CBCS)
Business Regulatory Framework - I**

Total Marks	100
Theory	80
Sessional	20

Objectives: To acquaint students with the basic Concepts, Terms, Provisions and Application of Business Laws.

		No. of Lectures
Unit I	The Indian Contract Act 1872: Meaning -Nature of Contract-Elements of valid contract- proposal - Acceptance-Free Consent - Consideration - Agreement declared as void- performance of Contract - Discharge of contract- Remedies for Breach of Contract.	12
Unit II	Special Contract :- A) Contract of Bailment and Pledge - Meaning, Duties and Rights of Bailor and Bailee. B) Contract of Agency - Definition- Creation - Termination - Rights and Duties of Agent and Principal.	12
Unit III	Sale of Goods Act 1930 :- Meaning - Formation of contract of sale - Sale and Agreement to Sell - Condition and Warranties - Transfer of Property in Goods - Performance of Contract of sale - Unpaid Seller.	12
Unit IV	Consumer Protection Act 2019: Definition of Consumerism, Consumer Movement in India, Legislative Measures for Consumer Protection in India, Consumer Protection Regulation 2020, District Consumer Disputes Redressal Commission (DCDRC), State Consumer Disputes Redressal Commission (SCDRC), National Consumer Disputes Redressal Commission (NCDRC), Consumer Protection (E-commerce) Rules 2020.	12
Unit V	The Right to Information Act 2005 (with Amendment) Nature - Scope- Right to information- Procedure of getting information - Public Authorities-Central information Commission- Constitution, Powers and Functions-State Information Commission-Constitution, Powers and Functions- Appeal & Penalties.	12
	Practical's: College can decide on their own regarding sessional work.	

Reference Books:

1. Corporate Law - Bharat Law House Pvt. Ltd. New Delhi.
2. Desai T. R. Indian Contract Act, S. C. Sarkar and sons Pvt. Ltd.-
3. Singh Avtar - The Principles of Mercantile Law. Estem book company, Luknow.
4. Kuchal M. C. - Business Law, Vikas Publishing House, New Delhi.
5. Kapoor N. D. - Business Law, Sultan Chand and Sons., New Delhi.
6. Chandha P. R. - Business Law, Galgotia, New Delhi.
7. Gulshan S. S. - Mercantile Law, Excel Books - New Delhi.
8. Bhulchandani S. - Business Law, Himalaya Publishing House.
9. Business Law and Corporate Laws by Tulsian - Tata Mcgraw Hill Publishing.

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(Prof. W. K. Sarwade) (Prof. Syed Azlamuddin) (Prof. S. Ghumre) (Prof. K. J. Solhe)

- 9 -
B.Com Vth Semester Syllabus (CBCS)
Computerized Accounting

Total Marks	100
Theory	50
Practical	50

Objectives :

1. To benefit the students to work with well-known accounting software e.g. Tally ERP 9
2. To enable students to Process and record the business transactions and manage the accounts information using Software.
3. To equip students "know-how" of GST Functionality using e.g. Tally Software.
4. To train students with required skill for greater employability.

		No. of Lectures
Unit I	Introduction to Computerized Accounting : Computerized Accounting- Need & Significance, Evolution from Manual to Computerized Accounting System, Benefits of Computerized Accounting. (e.g.Tally.ERP9), Evolution of Accounting Software , Different Versions of tally, Silent Features , Technological Advantages of Computerized Accounting.	04
Unit II	Fundamentals of Computerized Accounting (e.g. Tally.ERP9.0) : Start-up & Quit, Screen Components, Setting up a new company, Select, Alter & Delete a company, Maintaining Accounting Masters – Groups, Ledgers , Maintaining Inventory Masters - Stock Group, Stock Item, Units of Measure, Stock Categories ,Godown ,F11 Features , F12 Configurations	06
Unit III	Vouchers : Accounting Vouchers - Contra, Payment, Receipt, Journal, Purchase, Sales, Debit Note and Credit Note, Inventory Vouchers - Purchase Order, Sales Orders, Receipt Note& Delivery Note, Stock Journals , Rejection In, Rejection Out	08
Unit IV	Reports : Accounting Reports : Trial Balance, Profit & Loss A/c, Balance Sheet, Day book, Cash / Bank Book, Ledger Report, Group Summary, Voucher Report . Inventory Reports - Stock Summary, Stock Item Summary, Stock Group Summary, Stock Category Report, Godown Report, Inventory Voucher Report, understanding report-wise F12 configurations	04
Unit V	GST Functionality : Activating GST in Tally Setting Up GST -Company Level, Ledger Level or Inventory Level . Creating GST Masters - C-GST, S-GST, J-GST, Recording GST Transaction -Purchase, Sales ,Printing GST Tax Invoice, GST Returns, Payment of GST	08
	List of Practical's :	
1	Company Creation, Alteration and Deletion in Computerized Accounting (e.g. Tally. ERP 9.0)	
2	Backup & Restore of Company	
3	Create, Display, Alter and Delete Accounting Groups	
4	Create, Display, Alter and Delete Ledger	
5	Recording Bank Transactions using Contra voucher	
6	Recording Payment voucher	
7	Recording Receipt voucher	
8	Recording Cash Purchase transaction (Accounts Only)	
9	Recording Credit Purchase transaction (Accounts Only)	

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10	Recording Cash Sales transaction (Accounts Only)	
11	Recording Credit Sales transaction (Accounts Only)	
12	Recording Journal voucher for Asset Purchase	
13	Recording Journal voucher for Consumable Purchase	
14	Recording Purchase Order and Receipt Note	
15	Recording Sales Order and Delivery Note	
16	Creating GST Ledgers (S-GST, C-GST and I-GST)	
17	Recording GST Purchase & Sales Invoice (with single rate only)	
18	Display Accounting Reports (Trial Balance, P&L A/c, Balance Sheet, Cash/Bank Book etc.)	
19	Display Inventory Reports in Tally (Stock Register, Order reports etc.)	
20	GST Reports	
Practical's U/A : 50 Marks		
	1. One Test	: 10 Marks
	2. Oral	: 20 Marks
	3. Practical's Files at least minimum 20 Practical's	: 20 Marks

Reference Books :

1. Financial Accounting on Computers using Tally , Namrata Agarwal,
2. Tally.ERP 9 Made Simple Basic Financial Accounting, Ashok K Nadhani
3. Tally ERP 9, Shraddha Singh and Navneet Mehra
4. Tally 9, Vishnu Priya.
5. A Complete Self Learning Manual on Tally.ERP 9, Ajay O. Maheshwari.
6. Information Technology and Tally, Arvind Deshpande

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B.Com Vth Semester Syllabus (CBCS)
Supply Chain Management & Logistics (Elective)

Total Marks 100
Theory 80
Sessional 20

Objectives:

- 1) To provide basic input of Supply Chain Management & Logistic Practices.
- 2) To create awareness and Entrepreneurial Simulation for Career Building.

		No. of Lectures
Unit I	Supply Chain Management: Introduction, Definition of the Supply Chain Management, Functions and Contribution of Supply Chain Management. Concept of Value Chain and creative Value. Supply Chain effectiveness and Relationship with vendors, Suppliers Relationship Management (SRM)	12
Unit II	Concept of Logistics : Introduction, Objectives, Types of Logistics, Concept of Logistics Management. Evaluation of Logistics. Roll of Logistics in Economy. Difference between Logistics and Supply Chain Management. Advantages of Logistics, Logistics Mix.	12
Unit III	Customer Services : Key Elements of Logistics. Introduction, objectives, Concept of Customer Services. Different types of Customer Services. Value Added Logistics Service. Customer relationship Management and Supply Chain Management.	12
Unit IV	Logistics Outsourcing: Introduction, concept of Logistics Outsourcing. Benefit of Logistics Outsourcing. Issues in Logistics Outsourcing. Third party logistics, Fourth Party Logistics. Selection of Logistics Services Providers. Logistics Service Contracts.	12
Unit V	Components of Supply Chain & Logistics: Inventory Management and its role in the Supply chain management. Material handling & its role in supply chain management. Material Storage System. Warehousing. Transportation. Logistics information system & its application in logistics & supply chain management. E-commerce and logistics. SCM Challenges in Post Covid-19 Era.	12
Practical - 20 Marks To be Conducted by the Department in each College as per Convenience.		

Reference Books –

1. Logistics & Supply Chain Management: Martin Christopher, Published by Pearson UK
2. Text Book of Logistics and Supply Chain Management.
3. Essentials of Supply Chain Management: Michal H.Hugos Published by John Wiley & Son inc Hoboken New Jersey.
4. Purchase and Material Management. P. Gopal Krishna published by Tata McGrawhill Publishing co.ltd, New Delhi.

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**B.Com Vth Semester Syllabus (CBCS)
Rural Development and Agricultural Business (Elective)**

Total Marks	100
Theory	80
Sessional	20

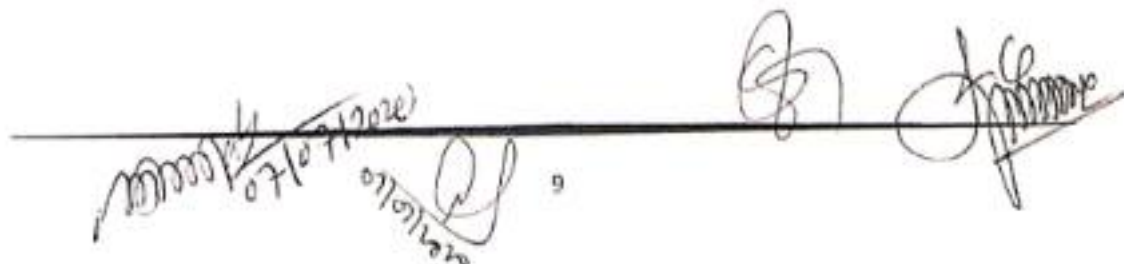
Objectives: This course aims at developing the understanding of students regarding the basic theoretical concepts of rural development and agribusiness for future entrepreneurial venture.

		No. of Lectures
Unit I	Introduction to Rural Development : Meaning and Definition of Rural Development Scope of Rural Development, Significance of Rural Development in Indian Context. Causes of Rural Backwardness, Determinants of Rural Development in India.	12
Unit II	Rural Poverty and Rural Unemployment : Meaning and Definition of Poverty, Causes of Rural Poverty, Remedies of Eradication of Rural Poverty, Meaning and Definition of Unemployment, Types of Unemployment in Rural India, Food Program during COVID-19 Pandemic.	12
Unit III	Rural Development Programmes in India : Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS), Pradhan Mantri Gram Sadak Yojana (PMGSY), Pradhan Mantri Awas Yojana (Gramin), Deendayal Antayodaya Yojana - National Rural Livelihood Mission (DAY-NRLM), Model Village Concept - Saansad Aadarsh Gram Yojana (SAGY), Deen Dayal Upadhyaya Grameen Kaushalya Yojana (DDU-GKY), Training of Rural Youth for Self Employment (TRYSEM).	12
Unit IV	Agribusiness : Meaning of Agribusiness, Importance of Agribusiness, Scope for Agribusiness in India, Major Challenges in Development of Agribusiness Sector in India Impact of globalization on Agribusiness Sector in India	12
Unit V	Agricultural Marketing : Meaning of Agricultural Marketing, Scope of Agricultural Marketing, Importance of Agricultural Marketing, Difference between Marketing of Agricultural Goods and Manufactured Goods, Problems of Agricultural Marketing and Measures to Solve Them.	12
	Sessional - 20 Marks To be Conducted by the Department in each College as per Convenience.	

Reference Books :

- Katar Singh (1986). Rural Development, Principles, Policies and Management, Sage Publication, New Delhi.
- Vasant Desai (2012). Rural Development in India, Himalaya Publishing House, Mumbai.
- Lalitha (2004). Rural Development in India: Emerging Issues and Trends, Dominant Publishers, Delhi.
- Vinayak Reddy and Yadagira Charyulu (2009). Rural Development in India: Policies and Initiatives, New Century Publications, New Delhi.
- G. L Meena, S. S Burark, D. C Pant, Rajesh Sharma (2017). Agribusiness Management: Theory and Practices.

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**B.Com Vth Semester Syllabus (CBCS)
MSME Management (Elective)**

Total Marks	100
Theory	80
Sessional	20

Objectives:

- To acquaint the students about Role, Setup, Working & Assistance through Micro, Small and Medium Enterprises in India.
- To equip the students with necessary management skills for effective management of MSMEs.

		No. of Lectures
Unit I	MSME ENVIRONMENT IN INDIA : Definition of MSMEs, Characteristics, Importance, Contribution in economic development of India, Growth of MSMEs in India, Challenges faced by MSMEs in India	12
Unit II	Setting up of MSMEs : Business Idea generation, Selection of idea, Feasibility analysis, Project Report, Acquisition of resources, Registration of MSME (Udyog Aadhar Number), Turn-Key business- Concept, features, advantages, disadvantages, Franchise Business- Concept, features, advantages, disadvantages, MSME Clusters: Concept, importance, benefits.	12
Unit III	Financial Management of MSMEs : Financial Management: Meaning, nature, importance, Fixed & Working capital, Sources of finance : Term Loans- Bank Overdraft- Cash-Credit- Microfinance, Venture Capital: Concept, Features, Types, Limitations	12
Unit IV	Marketing & HR Management in MSMEs : Concept of Marketing management, Market segmentation, Marketing Mix, Rural marketing, Services marketing, Digital marketing: Concept & Nature. HRM: Concept of HR Management, need of HRM in MSMEs, Functions of HRM	12
Unit V	Institutional Assistance for MSMEs : Introduction, Need, Central level: NIESBUD, SIDBI, SIDO, KVIC, EDII, State Level: MSME-DI, MSFC, DIC, MIDC, Regional Level: MAGIC, Bajaj Incubation Centre, CMIA, MASSIA, Atmanirbhar Bharat and Assistance to MSME's .	12
	(20 marks)	
	1. Project/ Seminar on any one unit: 10 marks	
	2. Test /Tutorials 10 marks	

Reference Books –

1. Business, Entrepreneurship and Management- V.S.P.Rao, Vikas Publishing, 2014
2. Entrepreneurship & Small Business Management- M.B.Shukla, Kitab Mahal Publications
3. Entrepreneurship Development: S.S.Khanka, S.Chand Publications
4. Entrepreneurship Management: Vasant Desai, Himalaya Publications, 2011
5. Entrepreneurship & New Venture Creation, A.V.Sahay et.al , Excel Books, 2008
6. Entrepreneurship development & Small Business, Poornima, Pearson India

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CIRCULAR NO.SU/ COM.&MGT./C.B.C.& G.S./28/2021

It is hereby informed to all concerned that, the syllabi of following courses prepared by the Board of Studies & recommended by the Dean, Faculty of Commerce & Management the Academic Council at its meeting held on 15 February 2021 has decided that to adopt the Choice Based Credit and Grading System from the academic Year 2020-2021 Under the Faculty of Commerce & Management.

Sr. No.	Name of the Course	Semester
1]	B.Com.	VI
2]	BBA	VI
3]	BCA	VI
4]	B.Com. E-Commerce	IV
5]	MPM	IInd

This is effective from the Academic Year 2020-2021 & onwards as appended herewith.

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO. SU/ COM.MGT/2020-21
29439 - 29759
Date:- 17-03-2021.

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(Signature)
Deputy Registrar,
Academic Section
Syllabus unit.

Copy forwarded with compliments to :-

- 1] The Principals, affiliated concerned Colleges, Dr. Babasaheb Ambedkar Marathwada University.
- 2] The Director, University Network & Information Centre, UNIC, with a request to upload this Circular on University Website.

Copy to :-

- 1] The Director, Board of Examination & Evaluation,
- 2] The Section Officer, [Commerce Unit] Examination Branch,
- 3] The Section officer, [Eligibility Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The In-charge, [E-Suvidha Kendra], Rajarshi Shahu Maharaj Pariksha Bhavan, Dr. Babasaheb Ambedkar Marathwada University.
- 7] The Public Relation Officer,
- 8] The Record Keeper.

**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Curriculum of

Bachelor of Commerce

B.COM.IIIRD YEAR

SIX SEMESTER

under Choice Based Credit & Grading System

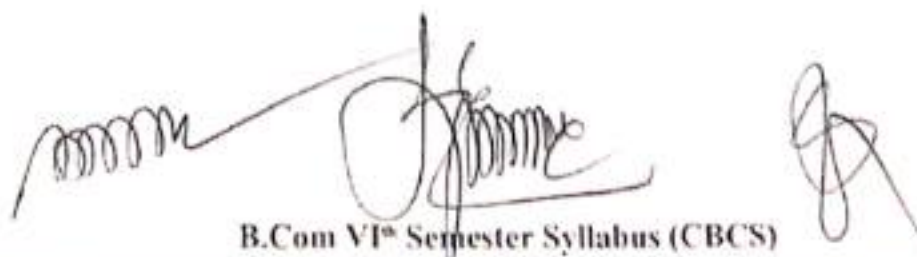
[Effective from the Academic Year 2020-21 & onwards]

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

B.com. Sixth Semester Structure (2020 – 2021)

Faculty of Commerce & Management

Paper Number	Subject / Title of the Paper	Course	Weekly		Credits		IA	UA	Total Marks	Duration of Theory Exam
			Th	Pr	Th	Pr				
I	Advanced Financial Accounting – II	Core Discipline	4	-	4	-	20	80	100	3 Hrs
II	Management Accounting – II	Core Discipline	4	-	4	-	20	80	100	3 Hrs
III	Direct Tax	Core Discipline	4	-	4	-	20	80	100	3 Hrs
IV	Business Regulatory Framework – II	Core Discipline	4	-	4	-	20	80	100	3 Hrs
V	Computerized Accounting – II	Ability Enhancement	2	-	2	-	-	50	50	2 Hrs
VI	1. Capital Market 2. Project Management 3. Advertising Salesmanship	Discipline Specific Elective [Any One]	4	-	4	-	20	80	100	3 Hrs
Total			22	02	22	02	100	500	600	-



B.Com VIth Semester Syllabus (CBCS)

**B.Com VIth Semester Syllabus (CBCS)
Advanced Financial Accounting – II**

Total Marks : 100
Theory: 80
IA / Sessional: 20
Total Credit : 04

Objectives : After Studying this subject students will be able to understand how to prepare the Final A/c of Farm, Electricity and local Self Government.

		No. of Lectures
Unit-I	Indian Accounting Standards -Meaning of Accounting Standard, Indian Accounting Standard 2020. -Application of the following Accounting Standards AS 7: Construction Contracts AS 9: Revenue Recognition AS 14: Accounting for Amalgamations AS 18: Related Party Disclosures AS 19: Leases AS 20: Earnings per Share AS 24: Discontinuing Operations AS 26: Intangible Assets AS 29: Provisions, Contingent Liabilities, and Contingent Assets	07
Unit-II	Farm Accounting (Numeric) - Books of Accounts to be maintained for Farm Accounting -Preparation of Farm A/C and Balance Sheet. (Dairy and Poultry only)	08
Unit-III	Final Accounts of Local Self Government (Numeric) -Meaning and Importance of Local Self Government -Maintaining Books of Accounts -Preparation of Final Accounts (Gram Panchayat and Zilla Parishad only)	15
Unit-IV	Final Account of Electricity Company: (Numeric) -Introduction, Features of Double Entry Account system -Preparation of Accounts, Revenue, Net Revenue Account. -Receipt & Expenditure on Capital Account, General Balance Sheet With special effect of adjustments.	15
Unit-V	International Financial Reporting Standards(Theory) - International Financial Accounting System - Accounting Values and Culture - Development and Disclosure - Global Accounting and Auditing Standards	15
Note :Sessional Work : 20 Marks		
Test : 5 Marks		
Tutorial : 10 Marks		
Viva-Voce /Seminar : 5 Marks		

REFERENCE BOOKS

1. Advanced Accounts - Shukla and Grewal, S. Chand & Co. Ltd., New Delhi
2. Advanced Accounts - Jain and Narang, Kalyani Publishers
3. A New Approach to Accountancy - Prof. H. R. Kotalwar, Discovery Publishers, Latur.
4. Advanced accountancy – R L Gupta and Radhaswamy, Sultan Chand and Sons, New Delhi.
5. Advanced Accountancy – M. G. Patkar, PhadkePrakashan, and kolhapur.
6. Studies in Advanced Accountancy – Dr. S. N. Maheshwari, Sultan Chand and Sons, New Delhi.
7. Interpretation and Application of IFRS Standards (2018), PKF International Ltd Wiley

**B.Com VIth Semester Syllabus (CBCS)
Management Accounting -II**

Total Marks :	100
Theory:	80
IA / Sessional:	20
Total Credit :	04

Objectives:

- Objective of course is to give students a good understanding about the concepts and techniques of management accounting syllabus, it will help student to understand the background of a fast changing global market.

		No. of Lectures
Unit-I	Working Capital Management: (Theory only) Meaning of Working Capital, Kinds of Working Capital, Sources of Working Capital, Objectives of Working Capital Management, Determinants of working capital requirement, Estimation of Working Capital Requirement.	10
Unit-II	Budgetary Control: (Theory only) Meaning, Definitions, Characteristics, Objectives, Advantages and Limitations of Budgetary Control.	10
Unit-III	Types of Budgets: (Theory/Numeric) Types of budgets - Cash Budget, Production budget, Sales budget, Master budget.	15
Unit-IV	Capital Budgeting: (Numeric problems only) Meaning, Principles and Types of Capital Budgeting, Pay-back period Method, Discounted Cash Flow Method, Net Present Value Method.	15
Unit-V	Responsibility Accounting: (Theory only) Meaning, Definitions, and Basic principles, Responsibility reporting, Benefits of Responsibility Accounting.	10
	Note : Sessional Work : 20 Marks Test & Tutorial (Each 05 Marks) : 10 Marks Preparation of any Two Types of Budget (Each 05 Marks) : 10 Marks	

REFERENCE BOOKS

- Dr. S.N. Mahaeshwari, Management Accounting Sultan Chand & Sons, Delhi
- Jha&Naik, Management Accounting Himalaya Publication
- Khan & Jain - Management Accounting Tata McGraw-Hill Education
- Dr. Jitendra Ahirrao - Management Accounting - Kailash Publications Aurangabad.
- Dr. V.R. Nagori & Dr. Sanjay Agrawal - Management Accounting - Chinmay Publications Aurangabad.



**B.Com V.P. Semester Syllabus (C.B. S.)
DIRECT TAXES**

Total Marks	100
Theory	80
TS / Sessional	20
Total Credit	64

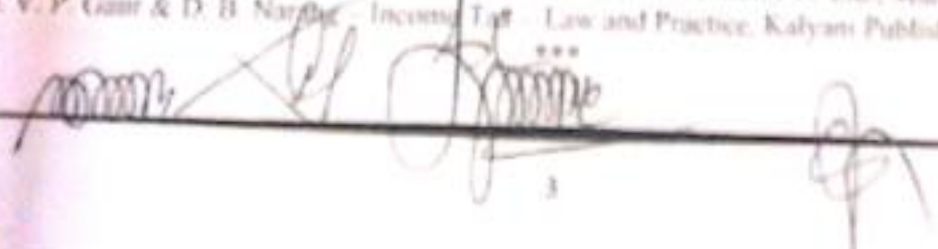
Objectives:

- Students will be able to learn about the Direct Taxes with different Income Tax Act with latest Amendments.

		No. of Lectures
Unit-I	Income Tax Act 1961 (with Amendments) Introduction to Income Tax Act 1961, Basic Concepts, Assessee, Person, Income, Classification of Income, Agricultural Income, Capital Income, Previous year, Assessment Year, Heads of Income, Gross Total Income, Total Income, Income exempted from Income tax, Tax deduction at Source, Refund of tax	(Theory) 12
Unit-II	Income from Salary: Meaning, definition of Salary, Computation of Income from Salary, Allowances, Perquisite, Gross Salary, Deductions from Gross Salary, Net Salary	(Numerical) 12
Unit-III	Income from Business and Profession: Business, Profession, Deemed income from business or profession, Computation of income from business and profession, deductions	(Numerical) 12
Unit-IV	Income from House Property: Basis of charge, Annual Value, Determination of Annual Value, Computation of Income from House Property, Deductions U/s 74	(Theory) 12
Unit-V	(A) Income from Capital Gain: Basis of Charge (Section 45), Meaning of Capital Assets, Type of Capital Gain, Short term and Long term Capital Gain, Cost of Inflation Index, Computation of Capital Gain, Exemptions in respect of Capital gain (U/s 54) (B) Income from Other Sources: Income Taxable under the head Income from other Sources u/s 56, Deductions from income from other sources u/s 57	(Theory) 12
	Note :Sessional Work Test : 5 Marks Tutorial : 10 Marks Viva-Voce : 5 Marks	: 20 Marks

REFERENCE BOOKS:

1. Dr. H.C. Mehrotra and Dr. S. P. Goyal - Income Tax Law & Accounts, SahityaBhavan Publications.
2. Dr. Prakash Herekar - Income Tax - Modern Publishers, Mumbai
3. Dr. Vinod Singhania - Income Tax - Taxman Publications Pvt. Ltd, New Delhi
4. Raman Bissa - Ready Reckoner - Taxcom India, Jaipur
5. T. N. Manoharan - Income Tax Law - Snow White Publication Pvt. Ltd., Mumbai
6. V. P. Gaur & D. B. Nandga - Income Tax - Law and Practice, Kalyani Publishers, Mumbai



**B.Com VIth Semester Syllabus (CBCS)
Business Regulatory Framework-II**

Total Marks : 100
Theory : 80
IA / Sessional : 20
Total Credit : 04

Objectives:

- To acquaint student with the Basic Concepts, Terms, Provision, and Application of Business Laws.

		No. of Lectures
Unit -I	Negotiable Instrument Act (Amendment) Act, 2002: Definition, Feature of promissory note, Bill of exchange and cheque, Holder and Holder In Due Course, Crossing and Dishonour of Cheques, Dishonour of Negotiable Instruments, Discharge From Liability on Negotiable Instruments	12
Unit -II	Company Act 2013: Introduction to Company Law, Principles & Concepts, Company Administration and Meetings, rights and duties of company secretary, Corporate Social Responsibility, company audit procedure. Features of Company Act 2013 – Types of Company –Share Capital and Its types- Formation of Company- Memorandum of Association - Articles of Association.	12
Unit -III	The Securities And Exchange Board of India Act 1992: Establishment of SEBI - Power and Functions of SEBI - Registration of Stock Brokers, Sub - Brokers - Recognition of Stock Exchange - Role of Stock Exchanges - Listing of Securities - Trading of Securities.	12
Unit -IV	Intellectual Property Rights: Introduction to Intellectual property Rights, types of intellectual property, Trade Marks: Purpose and function of trademarks, Law of copy rights: Fundamentals of copy right law.	12
Unit -V	Concepts of Miscellaneous Business Laws: The Competition Act 2002(with 2009 Amendment), The Environment Protection Act, 1986, The Information Technology Act,2000	12
	Note : Sessional Work : 20 Marks Test : 5 Marks Tutorial : 10 Marks Viva-Voce /Seminar : 5 Marks	

REFERENCE BOOKS:

1. Dr.AvtarSingh : Company Law; Eastern Book Company, 34, Lalbagh, Lucknow.
2. C.R. Datta :Datta on the Company Law; Lexis Nexis, ButterworthsWadhwa, Nagpur
3. A. Ramaiya : Guide to the Companies Act; Lexis Nexis, ButterworthsWadhwa, Nagpur
4. Corporate Law- Bharat Law House Pvt Ltd, New Delhi.
5. Desai, T.R. Indian Contract Act, S.C. Sarkar and sons Pvt.Ltd
6. Kuchal.M.C. Business Law, Vikas Publishing House, New Delhi.
7. Intellectual Property Right – Unleashing the Knowledge Economy, PrabuddhaGanguli, and Tata McGraw Hill Publishing Company Ltd.

(Handwritten signatures and marks)

**B.Com VIth Semester Syllabus (CBCS)
Computerized Accounting-II**

Total Marks :	100
Theory:	50
UA (Practical):	50
Total Credit :	04

Objectives:

- To benefit the students with employability and to work with well-known accounting software e.g. Tally ERP9
- To enable students to process advanced accounting and inventory transactions using accounting software.
- To equip students with advanced GST functionality through Computerized Accounting

		No. of Lectures
Unit-I	Advance Computerized Accounting Features : (e.g. Tally ERP 9) Maintaining Bill-wise details - Activating Bill-wise Details, Credit period, Maintain Balances bill-by- bill, Outstanding Reports Cost Centers & Cost Categories : Activating Cost Centers, Creating Cost Centers, Cost Center Report Banking : Cheque Book Management, Denomination Details, Bank Reconciliation	04
Unit-II	Advanced Inventory Features in Computerized Accounting: (e.g. Tally ERP 9) Stock Transfers - Recording Stock Journals, Godown-wise Reports, Bill of Materials- Set up for Stock item, Manufacturing Journals, Batch-wise details- Activating Batch- wise details, Batch-wise Reports	06
Unit-III	Advanced GST Transactions : (e.g. Tally.ERP 9) Recording Purchases- NIL, Rated, Exempted, Multiple Tax Rates, Purchase Returns, Recording Sales – NIL, Rated, Exempted, Multiple GST rates, Sales Returns Recording Sales of Service, E-way Bill, GST Returns- GSTR1, GSTR2	10
Unit-IV	Tax Deducted at Source (TDS): Concept of TDS, Activating TDS, Creating Masters, Recording Transactions, TDS Reports	06
Unit-V	Technological Features in Accounting Software :(e.g. Tally.ERP 9) Backup & Restore, Import & Export Data, Setting Password to Company.	04

List of Practical's : (No. of Practicals / Sessions 30)

1. Activating Bill-wise details for Sundry Debtors & Creditors
2. Recording Purchase oncredit
3. Recording Sales oncredit
4. Display Outstanding Report
5. Activating Cost Centers
6. Recording Transactions with Cost Centers
7. Display Cost Center Report
8. Bank Reconciliation, Banking Reports

**B.Com VIth Semester Syllabus (CBCS)
Computerized Accounting-II**

Total Marks : 100
Theory: 50
UA 50
(Practical): 50
Total Credit : 04

Objectives:

- To benefit the students with employability and to work with well-known accounting software e.g. Tally.ERP 9)
- To enable students to process advanced accounting and inventory transactions using accounting software
- To equip students with advanced GST functionality through Computerized Accounting

		No. of Lectures
Unit-I	Advance Computerized Accounting Features ; (e.g. Tally.ERP 9) Maintaining Bill-wise details - Activating Bill-wise Details, Credit period, Maintain Balances bill-by- bill, Outstanding Reports Cost Centers & Cost Categories : Activating Cost Centers, Creating Cost Centers, Cost Center Report Banking : Cheque Book Management, Denomination Details ,Bank Reconciliation	04
Unit-II	Advanced Inventory Features in Computerized Accounting: (e.g. Tally.ERP 9) Stock Transfers - Recording Stock Journals, Godown-wise Reports, Bill of Materials- Set up for Stock item, Manufacturing Journals. Batch-wise details- Activating Batch- wise details, Batch-wise Reports	06
Unit-III	Advanced GST Transactions : (e.g. Tally.ERP 9) Recording Purchases- NIL Rated, Exempted, Multiple Tax Rates, Purchase Returns, Recording Sales – NIL Rated , Exempted, Multiple GST rates, Sales Returns Recording Sales of Service, E-way Bill, GST Returns- GSTR1, GSTR2	10
Unit-IV	Tax Deducted at Source (TDS): Concept of TDS, Activating TDS, Creating Masters, Recording Transactions, TDS Reports	06
Unit-V	Technological Features in Accounting Software :(e.g. Tally.ERP 9) Backup & Restore, Import & Export Data, Setting Password to Company.	04

List of Practical's : (No. of Practicals / Sessions 30)

1. Activating Bill-wise details for Sundry Debtors & Creditors
2. Recording Purchase oncredit
3. Recording Sales oncredit
4. Display Outstanding Report
5. Activating Cost Centers
6. Recording Transactions with Cost Centers
7. Display Cost Center Report
8. Bank Reconciliation , Banking Reports

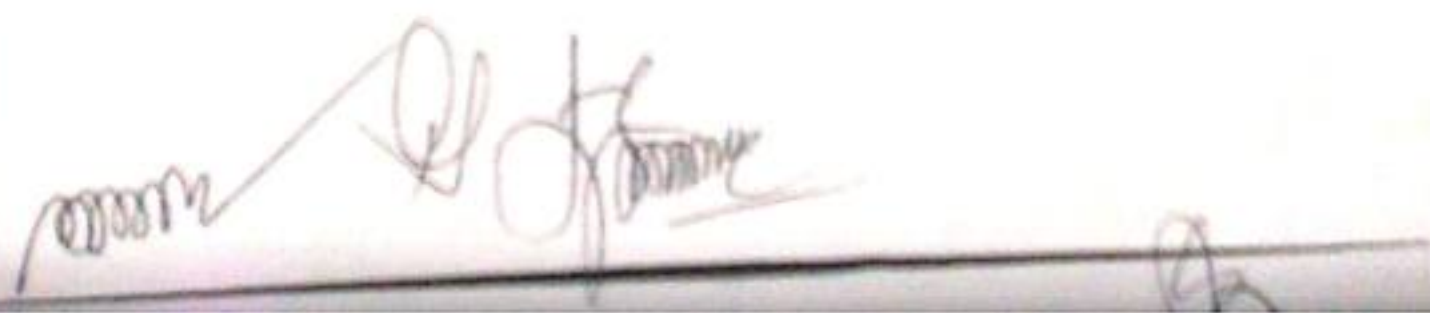
9. Inter-Company Transfer using Stock Journal
10. Bill of Material Set up in Stock Item
11. Recording Manufacturing Journal
12. GST Purchases with Nil Rate - Exempted Purchases
13. GST Sales with Multiple Rates
14. GST Purchase Entry with Multiple Rates
15. Recording Sales Returns
16. Recording Purchase Returns
17. Activating TTS and Recording transaction
18. Data Backup & Restore
19. Setting password to Company
20. Export of Data

Practical's U/A: 50 Marks (Colleges / Institutions are required to make available licensed copy of Accounting Software)

1. Test 10Marks
2. Oral 20Marks
3. Practical File 20Marks

REFERENCE BOOKS:

1. Financial Accounting on Computers using Tally, Namrata Agrawal
2. Tally ERP 9 Made Simple Basic Financial Accounting, Ashok K. Soodhakar
3. Tally ERP 9 Shradha Singh and Navneet Mehta
4. A Complete Self Learning Manual on Tally ERP 9, Ajay O. Malhotra



**B.Com VIth Semester Syllabus (CBCS)
Capital Market (Elective)**

Total Marks : 100
Theory: 80
IA / Sessional: 20
Total Credit : 04

Objectives:

- Course is intended to familiarize the students with capital market operations in India; it will provide a broad view of the Indian financial system, SEBI, Primary Market, Indian and International Stock exchanges.

		No. of Lectures
Unit-I	Indian Financial System: Structure of Indian financial system, Money Market and Capital Market, Features and functions. Investment Avenues, Types of Traders and Markets, Market Intermediaries	12
Unit-II	Introduction and working of Indian Stock Exchanges : SEBI-Establishment, Functions and objectives, Laws and regulations of Stock Exchange, Listing Procedure, Benefits of Listing, Listing at different stock exchange, Licensed Dealer	12
Unit-III	Trading in Stock Markets : Instruments Traded, Trading v/s Speculations, Types of Traders, Brokers, Broking House and their charges, Short Sale, Settlement Procedure, Underwriters and Reuters	12
Unit-IV	Merchant Banking: Role and functions, Services offered, Venture Capital, Microfinance and Development, Thrift Institutions; Need, Functions and role in Indian context.	12
Unit-V	Over the Counter Exchange in India: Its role objectives, Advantages, Major players in OTC. Derivative Market : Meaning, Forward and Future Contracts, Options and Swap, Currency Swap	12
	Note : Sessional Work : 20 Marks Test : 5 Marks Tutorial : 10 Marks Viva-Voce /Seminar : 5 Marks	

REFERENCE BOOKS:

1. Capital Market Management – V.A. Avadhani
2. Financial Institutions – L.B.Bhole
3. Indian Capital Market – V.A.Avadhani- Himalaya
4. Gupta N.K and Monica Chopra : Financial Markets Institutions and services
5. YogeshMaheswary : Investment Management
6. Kevin. S : Security Analysis and Portfolio Management
7. Preethi Singh : Dynamics of Indian Financial System

**B.Com VIth Semester Syllabus (CBCS)
Advertising and Salesmanship (Elective)**

Total Marks : 100
Theory: 80
IA / Sessional: 20
Total Credit : 04

Objectives:

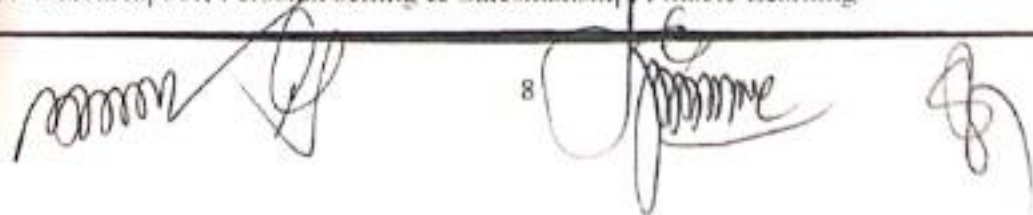
- To understand the role of salesman in the changing scenario in Global marketing
- To know the various types of Customers, Salesman & skills of successful salesman.

		No. of Lectures
Unit -I	Concept of Salesmanship : Essential skill & types of salesmanship, Advertising & Publicity concept, Need and Importance, Skills required being a Good Salesman, Attitude & values of salesman.	12
Unit -II	Process of Selling & Sales Promotion: Steps in Process of selling, A.I.D.A. (A-Awareness, I-Interest, D-Desire, A-Action) Model of Selling, Concept of sales promotion, Emerging techniques in Consumer's Sales Promotion.	12
Unit -III	Advertising and Media of Advertising: Concept, Meaning, Need, Objectives of advertising, Merits & Limitation of advertising, Impact of advertising, Impact of advertising on Indian Economy, Print media, Electronic media, outdoor media, social media,- concept, merits & Limitation of every media.	12
Unit -IV	Advertising Media: Types of Media (Newspaper and Magazines, Pamphlets, Posters and Brochures) Electronic Media (Radio, Television, Audio, Visuals) their Characteristics, merit and Limitations. Exhibitions and media. Press Conference Web advertising: Objectives, Importance and Types of Online advertising.	12
Unit -V	Advertising Agencies: The role and Importance of advertising and false claims. Their organization patterns, selection of advertising agency, Agency Commission and fee, Advertising Department: Its Function and organization.	12
	Note : Sessional Work : 20 Marks Test : 5 Marks Tutorial : 10 Marks Viva-Voce /Seminar : 5 Marks	

REFERENCE BOOKS:

1. Dr. Rustom Davar, Sohrab R Davar, Nuslir R Davar, Salesmanship and Publicity, Vikas Publication Pvt. Ltd.
2. S. A. Sherlekar Marketing Management, 16th Edition Himalaya Publication House - Pune.
3. S. A. Sherlekar, Marketing Management & Salesmanship, Himalaya Publication House - Pune.
4. P. K. Sahu, K. C. Raut, Salesmanship & Sales Management, Vikas Publication House.
5. Neeru Kapoor, Personal selling & Salesmanship, Pillacle Learning.

8



B.Com VIth Semester Syllabus (CBCS)
Project Management & Finance (Elective)

Total Marks :	100
Theory:	80
Project Report:	20
Total Credit :	04

Objectives:

- Student will be able to understand the project management principles, philosophy and the project environment through feasibility study.

		No. of Lectures
Unit-I	Fundamentals of Project Management : Meaning and Objective of Project Management, Nature and Need for Project Management ,Types of Project , Essentials of Project Management Philosophy, Project Management Principles, Project Management Process	12
Unit-II	Project Feasibility Studies: Opportunity studies-General opportunity studies-specific opportunity studies-pre-feasibility studies-functional studies or support studies-feasibility study – components of project feasibility studies – Managing Project resources flow– Project Life Cycle – Project constraints.	12
Unit-III	Project Identification, Project formulation and Preparation: Market and demand identification, market survey, Material inputs, technology, production, plant capacity, location and site, civil works, charts, layouts, work schedule, cost of project, estimates of cost, financial projections.	12
Unit-IV	Project Evaluation and Auditing: Project Evaluation Process, Phases of Project Audit, Project Closure Reports.	12
Unit-V	Project Finance: Meaning of Financing a Project, Working Capital Finance, Sources of Finance Role of Advisors in Project Finance, Institutional Project Finance and Commercial Risks.	12
	Note : Sessional Work : 20 Marks Preparation of Model Project Report (Any type of Project Report)	

REFERENCE BOOKS

1. Project Planning & Control (Volume 1 & 2) , N.P.Agrawal and B.K. Mishra, Indus valley Publications
2. Project Management , Bhavesh Patel ,Vikas Publication , Mumbai
3. Project Planning Analysis and Management , Anand Kumar Sharma . Anmol Publication . New Delhi.



UNIVERSITY OF MARATHWADE, AURANGABAD

**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad.**



Revised Syllabus

B.Sc. Zoology

First Year

First Semester and Second Semester

(Faint printed text, likely name and title of the signatory)

Effective from the Academic Year 2013-2014 & onwards.

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

B.Sc. Zoology Pattern in Semester System

B. Sc. I Year Zoology

Semester	Course Code	Paper No.	Title of Paper	Marks
I	ZOL-101	Paper – I	Protozoa to Annelida	50
	ZOL-102	Paper – II	Cell Biology	50
	ZOL-103	Paper – III	Practical based upon Paper I & II	50
II	ZOL-201	Paper – IV	Arthropoda to Echinodermata And Protochordata	50
	ZOL-202	Paper – V	Genetics - I	50
	ZOL-203	Paper – VI	Practical based upon Paper IV & V	50

B. Sc. II Year Zoology

III	ZOL-301	Paper – VII	Vertebrate Zoology	50
	ZOL-302	Paper – VIII	Genetics- II	50
	ZOL-303	Paper – IX	Practical based upon Paper VII	50
	ZOL-304	Paper – X	Practical based upon Paper VIII	50
IV	ZOL-401	Paper – XI	Animal Physiology (Special Emphasis On animals)	50
	ZOL-402	Paper – XII	Biochemistry & Endocrinology	50
	ZOL-403	Paper – XIII	Practical based upon Paper XI	50
	ZOL-404	Paper – XIV	Practical based upon Paper XII	50

B. Sc. III Year Zoology

V	ZOL-501	Paper –XV	Ecology		50
	ZOL-502	Pape XVI (Elective)	A	Fishery sciences –I	50
			B	Animal culture –I	
			C	Entomology-I	
			D	Parasitic protozoa & helminthes-I	
			E	Computer Application & Laboratory Technology-I	
			F	Biotechnology-I	
			G	Dairy sciences -I	
			H	Poultry Sciences -I	
ZOL-503	Paper XVII	Practical based upon Paper XV		50	
ZOL-504	Paper XVIII	Practical based upon Paper XVI		50	
VI	ZOL-601	Paper XIX	Evolution		
	ZOL-602	Paper XX	A	Fishery sciences –II	50
			B	Animal culture –II	
			C	Entomology-II	
			D	Parasitic protozoa & helminthes-II	
			E	Computer Application & Laboratory Technology-II	
			F	Biotechnology-II	
			G	Dairy sciences -II	
			H	Poultry Sciences -II	
ZOL-603	Paper XXI	Practical based upon Paper XIX		50	
ZOL-604	Paper XXII	Practical based upon Paper XX		50	

B. Sc. First Semester

Course Code - ZOL- 101

Zoology Paper: I

PROTOZOA TO ANNELIDA

1. Introduction to animal kingdom Definition of Zoology, Outline classification Protozoa, Parazoa, Metazoa and Major Phyla.	03
2. Protozoa - General characters <i>Plasmodium vivax</i> : - Structure of sporozoite, Life cycle, pathogenicity, Control, Prevention and Treatment of Malaria <i>Entamoeba histolytica</i> : Structure, Life cycle and Control. <i>Euglena</i> : Morphology and Reproduction. <i>Paramecium</i> : Morphology and Reproduction	09
3. Porifera - General characters <i>Sycon</i> (Scypha): - Morphology, Different types of cells in sycon, canal system in Porifera.	08
4. Coelenterata: - General characters <i>Obelia</i> : - Morphology of <i>Obelia</i> colony, Development of Hydra, Polymorphism in coelenterates.	06
5. Helminths : - General characters <i>Fasciola hepatica</i> : - Structure, Life cycle, Pathogenicity & Control Measures <i>Taenia solium</i> : - Structure of scolex, Mature and gravid proglottids, Life cycle, pathogenicity, and control measures. <i>Ascaris lumbricoides</i> : - Structure of male & female, Life cycle, Pathogenicity & control measures.	12
6. Annelida: - General characters Leech: - Morphology, Digestive, Excretory & Reproductive systems.	07
Total Periods	45

B. Sc. First Semester

**Course Code - ZOL- 102
Zoology Paper: II**

CELL BIOLOGY

- | | |
|---|----|
| 1. General structure of cell. | 12 |
| ➤ Structure of prokaryotic cell. | |
| ➤ Ultra structure of eukaryotic cell. | |
| ➤ Cell Cycle, Mitosis, Meiosis | |
| 2. Organization of cell | 20 |
| ➤ A) Study of Various cell organelles | |
| Plasma Membrane: - Structure and function. | |
| Endoplasmic reticulum: - Structure and function. | |
| Golgi Bodies: - Structure and function | |
| Mitochondria: - Morphology, Ultra-Structure, function and biogenesis. | |
| Nucleus: - Structure and function. | |
| DNA Structure. | |
| Types of RNA | |
| Lysosome: - Structure, function and polymorphism | |
| Ribosome: - Structure and function | |
| ➤ B) Cytology of Cancer, Types of Cancer. | |
| 3. Methods in Cell Biology (in brief) | 13 |
| A) Light Microscope | |
| Phase contrast microscope | |
| Electron microscope | |
| B) Micro techniques, (Microtomy) Fixation & Staining. | |

Total Periods 45

Recommended books
Protozoa to Annelida

- Kotpal, R.L. Modern Text Book of Zoology Invertebrates, Rastogi Publication, Meerut.
- Parker & Hashwell, Textbook of Zoology Vol. I (Invertebrates) A.Z.T.B.S. Publishers & Distributors. New Delhi.
- E.L. JORDEN & P.S. VERMA, Invertebrate Zoology, S. Chand & Co. Ltd. New Delhi.
- Hickman C. P. Jr., Hickman & L.S. Roberts. Integrated principles of zoology, Mosby college publication. St. Louis.
- Ayur, E.K., And T.N. Ananthakrishnan, Manual of zoology Vol. I, Invertebrata, Part I and II S.Viswanathan (Printers and Publishers) Pvt. Ltd. Madras.
- Balinsky, an Introduction to Embryology (CBS College Publishers).
- Grant- Biology of Development Systems (Holt. Reihart, Winston).
- Dr. S.S. Lal Practical Zoology Invertebrates 9th edition Rastogi Publications Meerut.

Cell biology

- Albert B. et al - Molecular Biology of the cell (Sinauer)
- Lodish. H. et al – Molecular Cell Biology.
- Gupta P.K. Cell and Molecular Biology Rastogi Publication Meerut.
- Dr. S.P. Singh, Dr. B.S. Tomar, Cell Biology 9th revised edition Rastogi Publication Meerut.
- Gerald Karp Cell and Molecular biology- Concepts and Experiments. John Wiley, 2007.

B. Sc. First Semester**Course Code - ZOL- 103****Zoology Paper: III****PROTOZOA TO ANNELIDA & CELL BIOLOGY (PRACTICAL)**

1. Study of slides from Ciliates, Opalينات, and Flagellates(any five)	01
2. Study of museum specimen and slides from Porifera to Annelida. (Three from each phyla)	02
[Note, Identification, Classification, Sketch & any 3 to 4 points related to (One point) habitat (one or two point) structure & (one point from) Biological importance.]	
3. Dissection:	
➤ Dissection of Leech for Digestive, Excretory & Reproductive systems.	05
➤ Dissection of Earthworm for Nervous System & Reproductive system	
4. Mounting of any five of the following.	01
➤ Sponge spicules, Gemmule, Obelia colony, Jaws of Leech.	
➤ Spermatoca, testes nerve ring of Earthworm, Parapodia of Nereis.	
5. Study of cell organelles by using Models, Charts, Slides & Electron micrographs.	01
6. Squash preparation of Onion root tip to study Mitosis.	01
7. Preparation of polytene chromosome in chironomous larva/fruit flies.	01
8. Microtechnique: - Fixation, dehydration, Block preparation, Microtomy and Staining of Rat tissue.	02
9. Study of Microscopy: - Simple, Compound, & Phase Contrast Microscope	01
Total Practical Periods	15

B. Sc. Second Semester

Course Code – ZOL- 201
Zoology Paper: IV

ARTHROPODA TO ECHINODERMATA AND PROTOCHORDATA

1. Arthropoda: - General characters	15
Prawn: - Structure, Digestive, Nervous, & Reproductive systems.	
Cockroach: External Characters, Digestive, Respiratory and Reproductive systems.	
2. Mollusca: - General characters	06
Pila: - External Characters, Respiratory, Circulatory, Nervous and Reproductive systems	
3. Echinodermata : - General characters	10
Asterias (Sea Star): - Morphology of oral & aboral view, Water vascular system, Reproductive system including development.	
4. General characters and Classification of Protochordata	14
Amphioxus: - External features, Digestive, Circulatory, Reproductive systems including development.	
Hemichordata: - General characters and affinities	
Herdmania: - General characters and morphology	
Total Periods	45

B. Sc. Second Semester

Course Code – ZOL- 202
Zoology Paper: V

GENETICS – I

1.	Elements of heredity & variation Definition of genetics and variation Mendel's laws of heredity in short	04
2.	Gene interaction Definition- modifications in Mendelian phenotypic ratio like, Epitasis Supplementary gene Complementary gene	05
3.	Multiple Alleles Coat Colour in rabbit. ABO Blood group in man, Rh factor	05
4.	Cytoplasmic inheritance. Definition of maternal effect. Coiling shell in snail (<i>Limnea peregra</i>) Male sterility. CO ₂ sensitivity in <i>Drosophila</i> . Kappa particles in <i>Paramecia</i> .	08
5.	Sex Determination Chromosome theory in sex determination Genic balance theory of sex determination Triploid intersexes and Gynandromorphs in <i>Drosophila</i> . Sex linked inheritance: X linked and Y linked	08
6.	Mutation Brief introduction Gene mutation: - Definition and classification Chromosomal aberration (structural & numerical) Spontaneous & induced mutation	15
Total Periods		45

Recommended Books.

ARTHROPODA TO ECHINODERMATA &PROTOCHORDATA

- Kotpal, R.L. Modern Text Book of Zoology Invertebrates, Rastogi Publication, Meerut.
- Parker & Hashwell, Textbook of Zoology Vol. I (Invertebrates) A.Z.T.B.S. Publishers & Distributors, New Delhi.
- E.L. JORDEN & P.S. VERMA, Invertebrate Zoology, S. Chand & Co. Ltd. New Delhi.
- Hickman C. P. Jr., Hickman & L.S. Roberts. Integrated principles of zoology, Mosby college publication, St. Louis.
- Ayur, E.K., And T.N. Ananthakrishnan, Manual of zoology Vol. I, Invertebrata, Part I and II S.Viswanathan (Printers and Publishers) Pvt. Ltd. Madras.
- Balinsky, An Introduction to Embryology (CBS College Publishers).
- Grant- Biology of Development Systems (Holt. Reihart, Winston).
- Dr. S.S. Lal Practical Zoology Invertebrates 9th edition Rastogi Publications Meerut.

GENETICS - I

- P.K. Gupta, Genetics- Rastogi Publications Meerut.
- P.K. Gupta, Genetics Classical to Modern- Rastogi Publications Merrut.
- Verma P.S. and V.K. Agarwal, Genetics, S.Chand and Publication.
- Levin O.D. and Lewin R. Biology of Gene McGraw Hill Troppan Co Ltd.
- Gunther S. Stent. Molecular Genetics McMillan Publication Co.Inc.
- Goodenough V. Genetics New York, Holt Rinchart and Winston.
- Winchester, Genetics Oxford HBH Publication.
- Strikberger, Genetics McMillan Publication
- Sinnott Dunn and Dobzansky- Principles of Genetics

**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Revised Syllabus of

B.Sc. 1ST YEAR

BOTANY

SEMESTER-I & II

[Effective from 2013-14 & onwards]

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

B. Sc. I, Year Botany Curriculum

(SEMESTER PATTERN)

Effective from Academic year -2013-14

Course Structure

Class	Paper No	Title of Paper	Lectures	Marks
B.Sc. I		SEMESTER - I		
	I	Diversity of Cryptogams -I	45	50
	II	Morphology of Angiosperms	45	50
	III	Practical Based on Theory Paper- I & II	45	50
		SEMESTER - II		
	IV	Diversity of Cryptogams - II	45	50
	V	Histology, Anatomy and Embryology	45	50
	VI	Practical based on Theory Paper No. IV & V	45	50

B. Sc. I Year (Theory)
Semester - I
Paper I
[Diversity of Cryptogams - I]

	45L
Unit - 1	
1.1 Viruses:	
General characters, classification based on host, economic importance, TMV - structure and multiplication	(04)
1.2 Mycoplasma:	
General characters	(01)
1.3 Bacteria:	
General characters, ultra structure, classification based on shape, reproduction, economic importance	(05)
1.4 Cryptogams:	
General characters, classification according to G.M. Smith up to class level	(01)
1.5 Lichens:	
General characters, nature of association, forms of thalli, economic importance, structure and reproduction in <i>Usnea</i>	(04)
Unit - 2	
2. Algae:	
2.1 General characters, classification according to F.E. Fritsch (1935) up to the class level, economic importance.	(02)
2.2 Systematic position, occurrence, thallus structure, reproduction: vegetative, asexual and sexual, (excluding development of sex organs) and graphic life cycle with respect to following types:	
i. Cyanophyceae - <i>Nostoc</i>	(02)
ii. Chlorophyceae - <i>Chara</i>	(03)
iii. Xanthophyceae - <i>Botrydium</i>	(02)
iv. Phaeophyceae - <i>Sargassum</i>	(03)
v. Rhodophyceae - <i>Batrachospermum</i>	(03)
Unit - 3	
3. Fungi:	
3.1 General characters, classification according to Alexopoulos and Mims (1979) up to the class level, economic importance	(03)
3.2 Systematic position, occurrence, structure of mycelium, reproduction - asexual, sexual and graphic life cycle with respect to the following types:	
i) Oomycetes - <i>Albugo</i>	(03)
ii) Zygomycetes - <i>Mucor</i>	(02)
iii) Ascomycetes - <i>Eurotium</i>	(02)
iv) Basidiomycetes - <i>Agaricus</i>	(03)
v) Deuteromycetes - <i>Cercospora</i>	(02)

B. Sc. I Year (Theory)
Semester - I
Paper - II
(Morphology of Angiosperms)

Unit - 1

45L

1.1- Basic body plan of flowering plant, modular type of growth, diversity of plant forms – Herbs, Shrubs, Trees, Climbers; annuals, biennials and perennials. (02)

1.2 Morphology of vegetative organs:

- a) **Root:** Characteristics, functions, regions of root, types – tap and adventitious, modification of root for storage, mechanical support (stilt root) and vital functions (Pneumatophore). (04)
- b) **Stem:** Characteristics, functions, modification – underground, sub aerial and aerial (03)
- c) **Leaf:** Parts of typical leaf, phyllotaxy, types (simple and compound), diversity in shape and size, venation and modifications of leaf. (06)

Unit - 2

2. Morphology of reproductive organs:

- 2.1 Inflorescence:** Racemose, cymose and special types. (05)
- 2.2 Flower:** Definition, parts of typical flower, forms of thalamus, androphore, gynophore, gynandrophore, insertion of floral whorls on thalamus (hypogyny, perigyny and epigyny), structure, function and modification of calyx, corolla, androecium, gynoecium, aestivation and placentation (15)
- 2.3 Fruit:** Types of fruits (06)
- 2.4 Fruit and Seed:** dispersal strategies. (04)

B. Sc. I Year (Practical)
Semester - I
Paper - III
Practical Based on Theory Paper No. I & II
(Diversity of Cryptogams - I & Morphology of Angiosperms)

45L

Diversity of Cryptogams- I

Note: Study of specimens of Bacteria, Algae, Fungi, through temporary mounting, permanent slides, field work and biovisual aids. Observation of disease symptoms in hosts infected by Fungi may be observed

1. Study of simple and compound microscope
2. Virus: Tobacco Mosaic Virus
3. Gram staining in bacteria, forms of Bacteria

4. Algae:

- a) *Nostoc*
- b) *Chara*
- c) *Botrydium*
- d) *Sargassum*
- e) *Batrachospermum*

5. Fungi:

- a) *Albugo*
- b) *Mucor*,
- c) *Eurotium*
- d) *Agaricus*
- e) *Cercospora*

- 6. Lichens:** Form - Crustose, Foliose, Fruticose; *Usnea*.

Morphology of Angiosperms

Note: Study of the following with the help of temporary mountings, permanent slides, charts, models, specimens and biovisual aids.

1. Study of root and its modifications:

- a) Tap root
- b) Adventitious root
- c) Storage roots
- d) Stilt root
- e) Respiratory root.

2. Study of stem and its modifications:

- a) Underground stem
- b) Sub aerial stem
- c) Aerial stem

3. Study of leaf and its diversity:

- a) Types of leaf (Simple, Compound)
- b) Shape and size
- c) Venation
- d) Phyllotaxy
- e) Modifications

4. Study of inflorescence:

- a) Racemose
- b) Cymose
- c) Special

5. Study of flowers:

- a) Typical flower (*Hibiscus* / *Datura*)
- b) Hypogynous, Perigynous and Epigynous
- c) Aestivation
- d) Forms of corolla – cruciform, papilionaceous, infundibuliform and bilabiate
- e) Parts of typical stamen, adhesion and cohesion.
- f) Parts of typical carpel and placentation

6. Study of flowers with respect to pollination mechanism:

- a) *Calotropis*
- b) *Ocimum*
- c) *Salvia*
- d) *Helianthus*
- e) *Ficus*
- f) *Clitoria*

7. Study of fruits:

- a) Simple: legume, capsule, caryopsis, achene, drupe, berry.
- b) Aggregate: an etaerio of berries, an etaerio of follicles.
- c) Composite fruit: sorosis, syconus.

B. Sc. I Year (Theory)
Semester - II
Paper - IV
(Diversity of Cryptogams - II)

45 L.

Unit- 1

1. Bryophytes:

1.1 General characters of bryophytes, classification as per G. M. Smith (02)

1.2 Systematic position, occurrence, thallus structure (external and internal), reproduction - vegetative, asexual, and sexual (excluding developmental stages), graphic life cycle and alternation of generations of the following types:

a) Hepaticopsida - *Marchantia* (07)

b) Bryopsida - *Funaria* (06)

Unit-2

2. Pteridophytes:

2.1 General characters of Pteridophytes, classification as per G. M. Smith (02)

Systematic position, occurrence, external and internal structure of sporophyte and gametophyte, reproduction (excluding developmental stages), graphic life cycle and alternation of generations of the following types:

a) Psilopsida - *Psilotum* (03)

b) Lycopsidea - *Lycopodium*, *Selaginella* (12)

c) Sphenopsida - *Equisetum* (06)

d) Pteropsida - *Marsilea* (07)

B. Sc. I Year (Theory)
Semester - II
Paper - V
(Histology, Anatomy and Embryology)

Unit - 1 Histology:

45 L.

a) Types of tissue:

i. Meristematic tissue – Meristem, structure and types based on origin and position.

(03)

ii. Permanent tissues: Simple, Complex and Secretary

(06)

iii. Epidermal tissues: Trichomes and Stomata

(02)

b) Histological organization of root and shoot apices

(02)

c) Various theories of cellular organization

(02)

Unit - 2

Anatomy:

a) Primary structure of root, stem and leaf of Monocot (Maize) and Dicot (Sunflower)

(07)

b) Secondary growth in root and stem of Dicot (Sunflower)

(04)

c) Wood anatomy: Growth rings, heart wood and sap wood

(02)

d) Periderm: Origin, structure and functions.

(02)

Unit - 3

Embryology:

a) Structure of anther, microsporogenesis and development of male gametophyte.

(03)

b) Structure and types of ovule, megasporogenesis and development of female gametophyte (Polygonum type).

(04)

c) Pollination -Mechanism, types and agencies.

(02)

d) Double fertilization and its significance

(01)

e) Development of Dicot embryo (Crucifer type).

(01)

f) Structure, development and types of endosperm.

(02)

g) Structure of Dicot and Monocot seed

(02)

B. Sc. I Year (Practical)**Semester - II****Paper - VI****Practical Based on Theory Paper No. IV & V****45L****(Diversity of Cryptogams – II & Histology, Anatomy and Embryology)****Diversity of Cryptogams – II**

Note: Study of specimen of Bryophytes, and Pteridophytes through temporary mounting,

permanent slides, field work and biovisual aids.

a) Bryophytes:

- i. *Marchantia*
- ii. *Funaria*

b) Pteridophytes:

- i. *Psilotum*
- ii. *Lycopodium*
- iii. *Selaginella*
- iv. *Equisetum*
- v. *Marsilea*

Histology, Anatomy and Embryology**Histology:**

1. Meristem: root apex and shoot apex
2. Permanent tissues – simple, complex and secretory
3. Epidermal tissues: trichomes and stomata

Anatomy:

1. Anatomy of young dicot (Sunflower) and monocot (Maize) root.
(Double stained permanent slide preparation)
2. Anatomy of young dicot (Sunflower) and monocot (Maize) stem.
(Double stained permanent slide preparation)
3. Anatomy of dicot (Sunflower) and monocot (Maize) leaf.
(Double stained permanent slide preparation)

Embryology:

1. Study of T.S. of anther
2. Structure of ovule (anatropous), types of ovules
3. Study of Dicot and Monocot seed (embryo)

Note for Paper-III and VI:

Candidate shall submit the following at the time of practical exam.

1. Certified laboratory record book.
2. Field note book and Tour report.
3. Collection of specimens
4. Permanent slides of root stem and leaf.

In addition to number of practicals prescribed above, the students are required to undertake field excursions to the places of botanical interest and industrial places under the guidance of teacher. Collection of rare flowering and non flowering plants should be avoided during excursion. There shall be frequent study tours in local areas. T.A. and D.A. be paid to the teachers, peons and field collectors as per university rules. The record book is to be signed periodically by teacher in charge and certified by the Head of Department at the end of the term. Candidate should not be allowed to appear for practical examination without a certified record book or a certificate from the Head of Department.

B-25 March, 2013 AC after Circulares from Circular No.153 & onwards

- 17 -

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/NP/B.Sc.-1st Yr./SEM.-I & II/157/2013

It is hereby notified for information of all concerned that, on the recommendations of the Boards of Studies, Ad-hoc Boards, and Faculty of Science, the Academic Council at its meeting held on 25-03-2013 has accepted the following revised syllabi for B.Sc. First Year progressively under the Faculty of Science :-

Sr. No.	Revised Syllabus	
[1]	B.Sc. [Physics]	Semester- I & II,
[2]	B.Sc. [Dairy Science & Technology]	Semester- I & II,
[3]	B.Sc. [Industrial Chemistry]	Semester- I & II,
[4]	B.Sc. [Geology]	Semester- I & II,
[5]	B.Sc. [Chemistry]	Semester- I & II,
[6]	B.Sc. [Botany]	Semester- I & II,
[7]	B.Sc. [Electronics] Science	Semester- I & II,
[8]	B.Sc. [Fisheries]	Semester- I & II,
[9]	B.Sc. [Microbiology]	Semester- I & II,
[10]	B.A. [Statistics]	Semester- I & II,
[11]	B.Sc. [Statistics]	Semester- I & II,
[12]	B.Sc. [Zoology]	Semester- I & II,
[13]	B.Sc. [Textile and Interior Decoration]	Semester- I & II,
[14]	B.Sc. [Home Science]	Semester- I & II,
[15]	B.A. / B.Sc. [Mathematics]	Semester- I & II.

This is effective from the Academic Year 2013-2014 and onwards.

These syllabi are available on the University Website www.bamu.net

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
 Aurangabad-431 004.
 REF.NO.ACAD/NP/B.SC.-1ST YEAR/
 Sem-I & II/2013/5132-541
 A.C.S.A.I.No.327[9].

Date:- 08-05-2013.

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[Signature]
 Director,
 Board of College and
 University Development.

B-25 March, 2013 AC after Circulars from Circular No.153 & onwards

- 14 -

|| 3 ||

Copy forwarded with compliments to :-

- 1] The Principals, affiliated concerned Colleges,
Dr. Babasaheb Ambedkar Marathwada University.
- 2] The Director, University Network & Information Centre, UNIC, with
a request to upload the above all syllabi on University Website
[www.bamu.net].

Copy to :-

- 1] The Controller of Examinations,
- 2] The Superintendent, [B.Sc. Unit],
- 3] The Superintendent, [B.A. Unit],
- 4] The Superintendent, [Eligibility Unit],
- 5] The Programmer [Computer Unit-1] Examinations,
- 6] The Programmer [Computer Unit-2] Examinations,
- 7] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 8] The Public Relation Officer,
- 9] The Record Keeper,
Dr. Babasaheb Ambedkar Marathwada University.

S*/080513/

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.**



REVISED SYLLABUS

OF

B.Sc. (Chemistry)
FIRST YEAR
SEMESTER SYSTEM

FIRST & SECOND SEMESTER

[Effective from - June, 2013-14 onwards]

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGBAD
B.Sc. (Chemistry)
IN SEMESTER PATTERN FOR THREE YEAR DEGREE

YEAR	SEMESTER	PAPER NUMBER	PAPER TITLE	Hours	MARKS
First	I	Paper - I	Inorganic Chemistry	45	50
		Paper - II	Organic Chemistry	45	50
		Paper - III	Lab Course I	45	50
	II	Paper - IV	Physical Chemistry	45	50
		Paper - V	Inorganic Chemistry	45	50
		Paper - VI	Lab Course - II	45	50
Second	III	Paper - VII	Organic Chemistry	3	50
		Paper - VIII	Physical Chemistry	3	50
		Paper - IX	Lab Course-III	3	100
	IV	Paper - X	Inorganic Chemistry	3	50
		Paper - XI	Physical Chemistry	3	50
		Paper - XII	Lab Course-IV	3	100
Third	V	Paper - XIII	Physical Chemistry	3	50
		Paper - XIV	Organic Chemistry	3	50
		Paper - XV	Lab Course-V	3	100
	VI	Paper - XVI	Inorganic Chemistry	3	50
		Paper - XVII	Organic Chemistry	3	50
		Paper - XVIII	Lab Course-VI	3	100

B.Sc. Chemistry
(Three Year Degree Course)

<u>First Year</u>		<u>First Semester</u>
Paper I	Inorganic Chemistry	(45 Hrs) 3 Hrs. / Week
I	Atomic Structure	15 Hrs.
II	Periodic Properties	10 Hrs.
III	S - Block Elements	10 Hrs.
IV	P - Block Elements	10 Hrs.
Paper II	Organic Chemistry	(45 Hrs) 3 Hrs / Week
I	Structure and Bonding	06 Hrs.
II	Mechanism of Organic reactions	10 Hrs.
III	Stereo - Chemistry	10 Hrs.
IV	Alkanes	04 Hrs.
V	Alkenes	06 Hrs.
VI	Arenes and Aromaticity	05 Hrs.
VII	Alkyl and Aryl Halides	04 Hrs.
Paper III	Lab Course I	(45 Hrs.) 3 Hrs / Week

<u>First Year</u>		<u>Second Semester</u>
Paper-IV	Physical Chemistry	(45 Hrs) 3 Hrs. / Week
I	Mathematical Concepts	06 Hrs.
II	Gaseous State	08 Hrs.
III	Liquid State	06 Hrs.
IV	Solid State	07 Hrs.
V	Colloidal State	08 Hrs.
VI	Chemical Kinetics and Catalysis	10 Hrs.
Paper-V	Inorganic Chemistry	(45 Hrs) 3 Hrs / Week
I	Chemistry of Noble gases	05 Hrs.
II	Chemical Bonding	20 Hrs.
III	Nuclear Chemistry	10 Hrs.
IV	Theory of volumetric analysis.	10 Hrs.
Paper-VI	Lab Course-II	(45 Hrs.) 3 Hrs / Week

First Semester

Paper I

Inorganic Chemistry

(45 Hrs)
3 Hrs. / Week

I Atomic Structure:

15 Hrs.

Atomic orbital's, Quantum numbers, Heisenberg uncertainty principle, shapes of s, p, d orbital's. Aufbau and Pauli exclusion principles. Hund's multiplicity rule. Electronic configurations of the elements, Bohr's atomic model (Qualitative aspect only).

II Periodic Properties:

10 Hrs.

Atomic and Ionic radii, Ionization Energy, Electron affinity and Electro negativity. Trends in periodic table and application in predicting and explaining the chemical behavior.

III S-Block Elements:

10 Hrs.

Comparative study, diagonal relationship, salient features of hydrides, solvation and complexation tendencies including their functions in biosystems.

IV P - Block Elements:

10 Hrs.

Comparative Study (including diagonal relationship) of groups 13-17 elements, compounds like hydrides oxides of groups 13-16. Interhalogen compounds and its types.

First Semester

Paper-II

Organic Chemistry

(45 Hrs)
3 Hrs. / Week

I. Structure and Bonding:

6 Hrs.

Localized and delocalized chemical bond; charge transfer complexes, resonance, hyper conjugation, inductive effect, hydrogen bonding, conjugative effect, steric effect.

II Mechanism of Organic Reactions:

10 Hrs.

Homolytic and heterolytic bond breaking. Types of reagents electrophiles and nucleophiles. Types of organic reactions. Energy considerations. Reactive intermediates - carbocations, carbanions, free radicals (with two examples each).

III Stereochemistry of Organic Compounds :

10 Hrs.

- Concept of Isomerism - Types of isomerism
- Optical Isomerism - elements of symmetry, molecular chirality, enantiomers, stereogenic centre, optical activity, properties of enantiomers, chiral and achiral molecules with two stereogenic centres, diastereomers, threo and erythro diastereomers, meso compounds.
- Relative and absolute configuration, sequence rules, D and L and R and S systems of nomenclature.
- Geometric Isomerism - Determination of configuration of geometric isomers. E and Z system of nomenclature, geometric isomerism in oximes and alicyclic compounds.

IV Alkanes :

04 Hrs.

Methods of formation (Koble reaction, Corey - House reaction and decarboxylation of carboxylic acids)

Physical properties and Chemical reactions of alkanes

Chlorination, Nitration, Sulphonation, Catalytic oxidation.

V **Alkenes :**

6 Hrs.

Nomenclature of alkenes, methods of formation, mechanisms of dehydration of alcohols and dehydrohalogenation of alkyl halides. The Saytzeff rule, Hofmann elimination, physical properties and relative stabilities of alkenes. Chemical reactions of alkenes - mechanisms involved in hydrogenation, electrophilic and free radical additions, Markownikoff's rule, hydroboration and oxidation with KMnO_4 . Polymerization of alkenes with one example each.

VI **Arenes and Aromaticity:**

5 Hrs.

Nomenclature of benzene derivatives. The aryl group. Aromatic nucleus and side chain structure of benzene : molecular formula and Kekule structure. Resonance Structure, MO Picture.

Aromaticity : The Huckel rule, aromatic ions

Aromatic electrophilic substitution: General Pattern of the mechanism (Nitration, halogenations and Sulphonation) and Friedel Crafts reaction.

VII **Alkyl and Aryl halides:**

4 Hrs.

Polyhalogen Compounds: Chloroform, Carbon tetrachloride. Methods of formation of aryl halides, nuclear and side chain reaction.

First Semester

Paper-III	Lab Course-I	45 Hrs. 3 Hrs / Week
I	Volumetric Analysis : <ul style="list-style-type: none"> • Preparation of 0.1N. NaOH solution and its standardization by given oxalic acid solution. • Preparation of 0.1 N oxalic acid solution and its standardization by given KMNO₄ solution. 	10 Hrs.
II	Inorganic Qualitative Analysis : <ul style="list-style-type: none"> • Identify two acid and two basic radical from the given binary mixture. a] CdSO ₄ + NH ₄ Cl b] BaCO ₃ + Al ₂ (NO ₃) ₃ c] ZnCO ₃ + KBr d] MnCO ₃ + MgSO ₄ e] NiSO ₄ + MgCO ₃	15 Hrs.
III	Physical Chemistry	20 Hrs.
	<ul style="list-style-type: none"> • Eudiometer : Determination of Equivalent weight of mg. • Viscometer : To Determine Viscosity of given liquid (Water / Ethanol) by viscometer . • Staglanometer: To determine surface tension of given liquid. • Chemical Kinetics: *To study the effect of acid strength on the hydrolysis of an ester. *To determine the specific reaction rate of the hydrolysis methyl / ethyl acetate catalyzed by hydrogen ions at room temperature. 	
	Colorimeter :- Verification of Lambert-Beer's law using Spectrophotometer. [Colorimeter].	

Second Semester

Paper- IV	Physical Chemistry	(45 Hrs) 3 Hrs. / Week
I	<u>Mathematical Concepts :</u> Logarithmic relations, curve sketching, linear graphs and calculation of slopes, differentiation of functions like k^x , e^x , x^n , $\sin x$, $\log x$; maxima and minima, partial differentiation.	06 Hrs.
II	<u>Gaseous States:</u> Postulates of kinetic theory of gases, kinetic gas equation, Deduction of Gas Laws : Boyles Law, Charles Law, Grahams Law of diffusion, Avogadro's hypothesis, deviation from ideal behavior, van der Waals equation of state. Critical Phenomena : PV isotherms of real gases.	08 Hrs.
III	<u>Chemicals Kinetics and Catalysis:</u> Chemical Kinetics and its scope, rate of reaction, factors influencing the rate of reaction - concentration, temperature, pressure, solvent, light, catalyst concentration dependence of rates. Derivation of rate law and characteristics of simple chemical reactions - zero order, first order, second order, Pseudo order, half life. Effect of temperature on rate of reaction. Arrhenius equation, concept of activation energy. Catalysis : Definition, types, and characteristics of catalysis, homogeneous, heterogeneous catalysis - Enzyme catalysis and its application.	10 Hrs.
IV	<u>Liquid State:</u> Intermolecular forces, structure of liquids (a qualitative description). Difference between solids, liquids and gases. Liquid Crystals: Classification, structure of nematic and cholestric phases.	6 Hrs.

- V Solid State : **7 Hrs**
Types of solids, Amorphous, crystalline and difference between them, Miller Indices.
Laws of crystallography - (i) Law of constancy of interfacial angles (ii) Law of rationality of indices (iii) Law of symmetry. Symmetry elements in crystals. X-ray diffraction by crystals. Derivation of Bragg equation.
- VI Colloidal State : **8 Hrs**
- Definition of colloids, classification of colloids.
 - Solids in liquids (sols) : properties - kinetic, optical and electrical; stability of colloids, protective action. Hardy - Schulze Law.
 - Liquids in liquids (emulsions) : types of emulsions, preparation.
 - Liquids in Solids (gels) : classification, preparation and properties, general applications of colloids.

Second Semester

Paper-V

Inorganic Chemistry - II

45 Hrs
3 Hrs. / Week

I Chemistry of noble gases : **5 Hrs.**

Chemical properties of the noble gases, chemistry of xenon, structure and bonding in xenon compounds.

II Chemical Bonding: **20 Hrs.**

(A) Covalent Bond - Valence theory and its limitations, directional characteristic of covalent bond, various types of hybridization and shapes of simple inorganic molecules and ions, Valence shell electron pair repulsion (VSEPR) theory of NH_3 , SF_4 , ClF_3 , ICl_2 and H_2O . MO theory, homonuclear (He , N_2 and O_2) and heteronuclear (CO and NO) diatomic molecules, bond strength and bond energy, percentage ionic character from dipole moment and electro negativity difference.

(B) Ionic Bonds - Definitions, Factors affecting ionic bond formation.

(C) Hydrogen bonding, Van-der-Waals forces, Metallic bond and its free electron concept.

III Nuclear Chemistry: **10 Hrs.**

Definition; Atomic number, mass number, Isotopes, Isobars mass defect and Binding Energy, Packing fraction N/Z ratio, Radio activity, properties of α , β and γ , Artificial transmutation. Applications with respect to trans-uranic elements, carbon dating.

IV Theory of volumetric Analysis: **10 Hrs.**

Types of titrations, volumetric apparatus, calibration of pipette and burette. Indicators used in pH - titrations, oxidizing agents used in titrations. Theory of Internal, External and self indicators for redox titration.

Second Semester

Paper-VI

Lab Course-II

45 Hrs
(3 Hrs. / Week)

- I Organic Qualitative Analysis: 30 Hrs.
Nature / Functional group / Element / Derivative / Physical constant
* Benzoic acid, * salicylic acid, * β -naphthol, * p-nitroaniline,
* Naphthalene, * Acetanilide.
- II Organic Estimation: 15 Hrs.
• Phenol by Bromination
• Estimation of basicity, molecular weight of organic acid
(oxalic/acetic acid)

**First Semester / Second Semester
Question Paper Pattern for Practical**

Lab. Course-I+II
Paper-III+VI

Time : 06 Hrs.
Max. Marks : 100.

- | | | |
|------|--|---------------|
| Q.1. | a) Inorganic Volumetric Analysis. | ... 10 Marks |
| | b) Inorganic Qualitative Analysis. | ... 20 Marks |
| Q.2. | a) Organic Qualitative Analysis | ... 20 Marks |
| | b) Organic Estimation. | ... 10 Marks |
| Q.3. | a) Eudiometer / Viscometer / Staglianometer | ... 15 Marks |
| | b) Kinetics (Hydrolysis) / Spectrophotometer (Colorimeter) | ... 15 Marks |
| Q.4. | Record Book and Viva-Voce | ... 10 Marks. |

2013-2014

**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Revised Syllabus of

B.SC. 1ST YEAR

PHYSICS

SEMESTER-I & II

[*Effective from 2013-14 & onwards*]

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
B. Sc. I Year Physics Syllabus
Semester I & II
(Revised syllabus Effective from June 2013)

Semester	Course Code	Paper	Title of Paper	Periods	Marks
I	Phy101	I	Mechanics, Properties of Matter and Sound	45	50
I	Phy102	II	Heat and Thermodynamics	45	50
I	Phy103	III	Practical	45	50
II	Phy104	IV	Geometrical and Physical Optics	45	50
II	Phy105	V	Electricity and Magnetism	45	50
II	Phy106	VI	Practical	45	50

Note: - Scheme of Practical Examination

Student should perform one experiment in semester-II from paper III+VI

Scheme of Practical Examination

Experiment- (75marks) + Oral (15marks) + Record book (10 marks) = 100 Marks

30.1.2013

Chairman
BOS in physics

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
B. Sc. I Year Physics Syllabus
Semester I & II
(Revised syllabus Effective from June 2013)

Semester	Course Code	Paper	Title of Paper	Periods	Marks
I	Phy101	I	Mechanics, Properties of Matter and Sound	45	50
I	Phy102	II	Heat and Thermodynamics	45	50
I	Phy103	III	Practical	45	50
II	Phy104	IV	Geometrical and Physical Optics	45	50
II	Phy105	V	Electricity and Magnetism	45	50
II	Phy106	VI	Practical	45	50

Note: - Scheme of Practical Examination

Student should perform one experiment in semester-II from paper III+VI

Scheme of Practical Examination

Experiment- (75marks) + Oral (15marks) + Record book (10 marks) = 100 Marks

B. Sc. I Year Physics (Semester-I)
(Mechanics, Properties of Matter and Sound)
Course Code – Phy101
Paper – I

Periods – 45

Marks – 50

1. Mechanics: -

13 periods

Compound Pendulum- expression of time period, Interchangeability of centre of suspension and oscillation, Kater's Pendulum.

Newton's law of Gravitation (Statement only) , Gravitational Field , Gravitational Potential, Gravitational Potential of mass, Gravitational potential and field due to spherical shell and solid sphere (at a point, outside , inside and on the surface).

2. Elasticity: -

10 periods

Introduction , Moduli of Elasticity (Elastic constants), Twisting couple on a cylinder, Bending of Beam – Bending moment, cantilever loaded at free end – (a) When weight of beam is ineffective, (b) When weight of beam is effective, Depression of Beam loaded at centre

3. Viscosity and Surface Tension:

12 Periods

Viscosity - Introduction, energy of liquid in motion, Bernoulli's Theorem, practical applications: (i) Law of hydrostatic pressure (ii) Filter pump, Poiseuille's formula.

Surface Tension - Introduction, Difference of pressure across a curved surface, Determination of S.T. by Jaeger's method.

4. Ultrasonic and Acoustics: -

10 periods

Ultrasonic - Piezo – electric effect, Piezo – electric Generator, Magnetostriction effect, Magnetostriction oscillator, Applications of ultrasonic – Depth of sea, Chemical effects, Medical applications.

Acoustics - Reverberation, Acoustical demands of an auditorium, Sabine's Law – Derivation of Reverberation time, conditions of good acoustical designs of room.

References:-

- 1) Elements of Properties of Matter – D. S. Mathur
(S. Chand , 11 th edition , 1992)
- 2) Physics for Degree students – C. L. Arora and P.S.Heme
(S. Chand , 1 st edition 2010)
- 3) Mechanics and Electrodynamics – Brijlal ,N. Subrahmanyam , Jivan Seshan
(S.Chand , 7 th edition)
- 4) Text Book of sound – Khanna and Bedi
(Atma Ram and sons, 1989 edition)
- 5) Text Book of sound – N. Subrahmanyam and Brijlal
(Vikas Publishing House 2 nd Revised edition)

B. Sc. I Year Physics (Semester-I)
(Heat and Thermodynamics)
Course Code – Phy102
Paper – II

Periods – 45

Marks – 50

1) Thermal Conductivity: -

10 periods

Transference of heat, Coefficient of thermal conductivity, Rectilinear flow of heat along a metal bar, Methods of radial flow of heat-(i)spherical shell method and (ii)Flow of heat along the wall of a cylindrical tube, comparison of conductivities of different metals.

2) Real Gases and Transport Phenomena: -

12 periods

Real Gases – Introduction, Reason for modification of gas equation, Van der Waals equation of state, comparison with experimental curves, critical constants, constants of Van der Waals equation.

Transport phenomena–Introduction, Mean free path, sphere of influence, and expression for mean free path, variation of mean free path with temperature and pressure, transport phenomena, viscosity, Thermal conductivity (their interrelationship, dependence on temperature and pressure).

3) Thermodynamics: -

12 periods

Adiabatic process, Adiabatic equation of a perfect gas, Isothermal process, Indicator diagram, work done during isothermal process and adiabatic process, reversible and irreversible process, Second law of thermodynamics. (Kelvin and Clausius statement), Heat engines, Carnot's ideal heat engine, Carnot's cycle (work done and Efficiency).

4) Entropy and Thermodynamic relations: -

11 Periods

General notation of entropy, change of entropy is independent of path, change of entropy in reversible and irreversible process, Formulation of second law in terms of entropy, Maxwell's thermodynamical relations, Applications of Maxwell's relations –i) Clausius – Clapeyron equation, ii) T-ds equations.

Reference Books:-

- 1) Heat Thermodynamics and Statistical Physics - Brijlal, N.Subrahmanyam, P.S. Heme (S.Chand, 2007 Edition).
- 2) Text Book of Heat and Thermodynamics–J. B. Rajam, C.L. Arora (S. Chand, 9th Edition)
- 3) Heat and Thermodynamics– S. S. Singhal, J. P. Agarwala, S.Prakash (Pragati Prakashan)
- 4) Thermodynamics & Statistical physics-S. L. Kakani

B. Sc. I Year Physics (Semester- II)
(Geometrical and Physical Optics)
Course Code – Phy104
Paper – IV

Periods – 45

Marks – 50

1) Geometrical Optics and Optical Instruments: - **12 periods**

Cardinal points of optical system - Focal points, Principal points, Nodal points and corresponding planes, coaxial lens system - equivalent focal length and cardinal points.
Huygens's Eyepiece, Ramsden's eyepiece and their cardinal points.

2) Interference: - **10 periods**

Interference in thin film due to reflected and transmitted light, wedge shaped thin film, Newton's rings by reflected light, determination of wavelength, Michelson's Interferometer, type of fringes, determination of wavelength and difference in wavelength.

3) Diffraction: **13 periods**

Introduction, Diffraction at a thin wire, Fraunhofer diffraction at double slit (Interference and diffraction maxima, minima), Plane Transmission diffraction grating, Determination of wavelength (Normal incidence), Resolving power of optical instruments (Rayleigh's criterion), R. P. of prism and grating.

4) Polarization: - **10 periods**

Introduction, Malus law, Double refraction, Huygens's theory of double refraction in uniaxial crystal, Nicol prism.
Optical activity, Fresnel's theory of optical rotation, specific Rotation, Laurentz's half - shade polarimeter, Determination of specific rotation of sugar solution.

Reference Books:-

- 1) Text Book of optics – N. Subrahmanyam & Brijlal (S. Chand, 1987 Edition)
- 2) Optics and Spectroscopy – R. Murugesan, K. Sivaprasath (S. Chand, 7th Revised Edition)
- 3) A text book of optics- D. S. Mathur.
- 4) Optics- Ghatak. IInd edition.

B. Sc. I Year Physics (Semester- II)
(Electricity and Magnetism)
Course Code – Phy105
Paper – V

Periods – 45

Marks – 50

1) Vector Algebra :-

12 Periods

Dot and cross product (Revision), scalar triple product and it's geometrical interpretation, vector triple product, gradient of a scalar and it's physical interpretation, Divergence and curl of vector function and their physical interpretation, line, surface and volume integrals, Gauss's divergence theorem and Stoke's theorem .

2) Electrostatics: -

13 Periods

Coulomb's Law , Electric field , field due to point charge, flux of electric field, Gauss's law (with proof) . Differential form of Gauss law , electric potential , potential due to a point charge, Potential and field due to electric dipole.

Dielectrics, polarization of dielectric, Gauss's law in dielectrics, Relation between D, E and P.

3) Magnetostatics: -

10 Periods

Magnetic field , Magnetic induction , magnetic flux , Biot-Savart law, Magnetic induction due to straight conductor carrying current , magnetic induction on the axis of solenoid ,Ampere's Law, Differential form Ampere's Law, Moving coil ballistic Galvanometer - expression for charge.

4) Transient Currents: -

10 periods

Growth and decay of current in a circuit containing L and R , charge and discharge of a capacitor through resistor, Growth and decay of charge in LCR circuit.

Reference Books: -

- 1) Mathematical Methods in physics – D.Biswas(New central book agency , 2009 edition)
- 2) Electricity and Magnetism – R.Murugesan(S. Chand, 2008 edition)
- 3) Electrodynamics – Gupta, Kumar, Singh (Pragati Prakashan, Meerut, 18th edition 2005)
- 4) Foundations of Electromagnetic Theory-Ritz, Milford, Chirstey 11th edition.

**B. Sc. I Semester
Physics paper III (Phy103)
List of experiment**

1. Determination of acceleration due to gravity by Kater's pendulum.
2. Y by bending of a beam loaded at center.
3. Determination of Y by Cantilever (Oscillation method)
4. η by Maxwell's needle.
5. M.I. by bifilar suspension.
6. Determination of Y and η of the material of a flat spiral spring.
7. S.I. by Jaeger's method.
8. Determination of coefficient of viscosity by Poisseuille's method.

Note: - At least six experiments should be performed.

B.Sc. II Semester
Physics Paper VI (Phy106)
List of experiment

1. γ by Searle's apparatus.
2. M.I. of fly wheel.
3. Thermal conductivity of bad conductor by Lee's disc method.
4. Study of CRO
(Measurement of frequency and voltage sensitivity AC/DC.)
5. Field along axis of circular coil.
6. I-H curve.
7. Calibration of spectrometer.
8. Dispersive power of prism.

Note: - At least six experiments should be performed.

a. Demonstration of experiment

1. Signal generator and CRO (sine, Square wave signal, measurement of ac voltage and frequencies).
2. Spectrometer (Reading and scale, observe the spectrum, measure refractive index for different colors).
3. Electromagnetic induction using two coil.
4. Determination of least count and range for at least four measurement instruments.

b. Mini Project /Seminars/ Hands on activities.

1. Students should carry out one mini project or seminar.
2. Study of any two laboratory equipments.

c. Study tour (industrial/research institute)

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5*/-110513/-

S-25 March, 2013 AC after Circulars from Circular No.153 & onwards

- 17 -

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

CIRCULAR NO.ACAD/NP/B.Sc.-1st Yr./SEM.-I & II/157/2013

It is hereby notified for information of all concerned that, on the recommendations of the Boards of Studies, Ad-hoc Boards, and Faculty of Science, the Academic Council at its meeting held on 25-03-2013 has accepted the following revised syllabi for B.Sc. First Year progressively under the Faculty of Science :-

Sr. No.	Revised Syllabus	
[1]	B.Sc. [Physics]	Semester-I & II,
[2]	B.Sc. [Dairy Science & Technology]	Semester-I & II,
[3]	B.Sc. [Industrial Chemistry]	Semester-I & II,
[4]	B.Sc. [Geology]	Semester-I & II,
[5]	B.Sc. [Chemistry]	Semester-I & II,
[6]	B.Sc. [Botany]	Semester-I & II,
[7]	B.Sc. [Electronics] Science	Semester-I & II,
[8]	B.Sc. [Fisheries]	Semester-I & II,
[9]	B.Sc. [Microbiology]	Semester-I & II,
[10]	B.A. [Statistics]	Semester-I & II,
[11]	B.Sc. [Statistics]	Semester-I & II,
[12]	B.Sc. [Zoology]	Semester-I & II,
[13]	B.Sc. [Textile and Interior Decoration]	Semester-I & II,
[14]	B.Sc. [Home Science]	Semester-I & II,
[15]	B.A. / B.Sc. [Mathematics]	Semester-I & II.

This is effective from the Academic Year 2013-2014 and onwards.

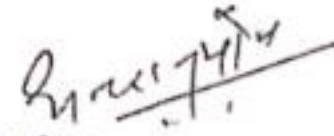
These syllabi are available on the University Website www.bamu.net

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/NP/B.Sc.-1ST YEAR/
Sem-I & II/2013/5132-541
A.C.S.A.I.No.327[9].

Date:- 08-05-2013.

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Director,
Board of College and
University Development.

5-25 March, 2013 AC after Circulars from Circular No.153 & onwards

- 14 -

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[www.bamu.net].

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- 6] The Programmer [Computer Unit-2] Examinations,
- 7] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 8] The Public Relation Officer,
- 9] The Record Keeper,
Dr. Babasaheb Ambedkar Marathwada University.

**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad**



Syllabus

**B.A./B.Sc. Mathematics
Semester – I & II
(With Effect from June 2013)**

Syllabus

B.A. / B.Sc. (Mathematics) Semester- I (With effect from June 2013)

MAT 101: Differential Calculus

Marks : 50.

1. Prerequisite:

Functions: Domain and range of a function, independent and dependent variables, polynomial functions and rational functions, constant functions and identity functions, one-one functions, onto function, invertible functions, composite function. [1]

Limit and Continuity: Limit of a function, left handed and right handed limits, non existence of limit, theorems on limits (statements only), theorems on continuity (statements only), discontinuity, types of discontinuity. [1]

2. Differentiations:

Derivative of a function, derived function, derivability implying continuity, geometrical interpretation of a derivative, hyperbolic functions, derivatives of hyperbolic and inverse hyperbolic functions, logarithmic differentiation, derivative of implicit functions. [1]

3. Successive Differentiation:

Higher order derivatives, calculation of n th derivatives, some standard results, determination of n th derivative of rational functions, the n th derivatives of the products of the powers of sines and cosines, Leibnitz's theorem: n th derivative of the product of two functions.[1]

4. Mean Value Theorems:

Rolle's Theorem, Lagrange's mean value theorem, meaning of the sign of the derivative, Cauchy's mean value theorem, higher derivatives, Taylor's theorem, Maclaurin's theorem, Maclaurin's power series for a given function. [1]

5. Partial Differentiation:

Function of two variables, limit of a function of two variables, continuity of a function of two variables at a point, limit of a continuous function, partial derivatives, partial derivatives of higher order, homogeneous function, Euler's theorem on homogeneous function, total differentials, differentiation of composite function and implicit function.[1].

6. Prerequisite:

Scalar product of two vectors, sign of the scalar product, length of a vector as a scalar product, angle between two vectors, commutativity, distributivity, right handed and left handed vector triads, vector product, some properties of vector product, scalar triple product, distributive law, some properties of scalar triple product, vector triple product.[2]

7. Differential Operators:

Point Functions: scalar valued point functions, vector valued point functions, limits and continuity, directional derivatives, Cartesian representation of point functions and their directional derivatives, directional derivatives of point functions along co-ordinate axes and along any line, gradient of a scalar point function, character of gradient as a point function, the operator ∇ , operator $\nabla \cdot V$, divergence and curl, gradient, divergence and curl of sums and product. [2]

Text Book:

[1]. Shanti Narayan: Differential Calculus, Shyamal Charitable Trust, 2004

Scope:

Chapter 2: Articles 2.1, 2.11, 2.12, 2.31, 2.32, 2.4, 2.42, 2.5

Chapter 3: Articles 3.2, 3.21, 3.22, 3.3, 3.6, 3.61, 3.62, 3.8, 3.81

Chapter 4: Articles 4.1, 4.11, 4.12, 4.14, 4.15, 4.7, 4.71, 4.72, 4.9, 4.10

Chapter 5: Complete

Chapter 7: Articles 7.1, 7.2, 7.3, 7.5, 7.6, 7.61

Chapter 10: Articles 10.1, 10.2, 10.3, 10.4, 10.41, 10.5, 10.51, 10.6, 10.61, 10.8, 10.81, 10.9, 10.91, 10.93, 10.94

[2]. Shanti Narayan and P. K. Mittal : Vector Analysis, S. Chand and Company Ltd, 2007.

Scope:

Chapter 3: Articles 3.1, 3.1.1 to 3.1.9, 3.1.10 (statements only)

Chapter 5: Articles 5.2, 5.2.1, 5.3, 5.3.1 to 5.3.3, 5.3.4, 5.3.5, 5.3.6, 5.3.7, 5.5, 5.5.1, 5.6, 5.7, 5.7.1 to 5.7.3, 5.8

Chapter 10: Articles 10.1, 10.1.1 to 10.1.2, 10.2, 10.2.1 to 10.2.3, 10.3, 10.3.1 to 10.3.2, 10.4, 10.4.1 to 10.4.2, 10.5, 10.6, 10.7, 10.7.1 to 10.7.2, 10.9, 10.10, 10.11, 10.12, 10.12.1 to 10.12.2, 10.14, 10.15 (results 1 to 6).

Note: Questions on prerequisite may not be asked.

MAT 102: Differential Equations

Marks: 50

1. Prerequisite:

Ordinary and partial differential equations, order and degree of Differential equations, Solutions: general, particular, singular.

2. Equations of The First Order and of The First Degree:

Exact differential equations, Linear equations, Equations reducible to the linear form.

3. Linear Equations with Constant Coefficients:

Linear equations, complementary functions, particular integral, complete integral, The linear equations with constant coefficients and second member zero, case of auxiliary equation having equal roots, case of auxiliary equation having imaginary roots, the symbol D , the linear equation with constant coefficients and second member a function of x , the symbolic function $1/f(D)$, methods of finding the particular integral, short methods of finding particular integrals corresponding to the terms e^{ax} , x^m , $\sin ax$, $\cos ax$, $e^{ax}V$ and xV in the second member.

4. Linear Equations with Variable Coefficients:

The homogeneous linear equation, methods of finding solution, the symbolic functions $f(\theta)$ and $1/f(\theta)$, methods of finding the particular integral, integral corresponding to a term of form x^m in the second member, equations reducible to homogeneous linear form.

5. Exact Differential Equations and Equations of Particular Forms:

Exact differential equations, criterion of an exact differential equation, the integration of an exact equation: first integral, equations of the form $\frac{d^n y}{dx^n} = f(x)$, equation of the form

$$\frac{d^2 y}{dx^2} = f(y).$$

6. Ordinary Differential Equations with More Than Two Variables:

Simultaneous differential equations which are linear, simultaneous equations of the First order.

7. Partial Differential Equations:

Definitions, derivation of a partial differential equation by the elimination of constants,
Derivation of a partial differential equation by the elimination of arbitrary functions.

Text Book:

D. A. Murray : Introductory Course in Differential Equations, Khosla Publishing House, New Delhi, 2003.

Scope:

Chapter 1: Articles 1, 2, 4

Chapter 2: Articles 11, 12,13,20,21

Chapter 6: Articles 49 to 53, 56 to 64

Chapter 7: Articles 65 to 71

Chapter 8: Articles 73 to 77

Chapter 11: Articles 98, 99

Chapter 12: Articles 107, 108, 109

Note: Questions on prerequisite may not be asked.

Syllabus

B.A / B.Sc. (Mathematics) Semester- II

MAT 201: Integral Calculus :

Marks: 50.

1. Methods of Integration:

Reduction formulae. [1]

2. Integration of Algebraic Rational Functions:

Case of non-repeated linear factors, case of non-repeated linear or repeated linear factors, case of linear or quadratic non repeated factors [1]

3. Integration of Trigonometric Functions:

Integration of $\sin^n x$, $\cos^n x$ and reduction formulae for integration of $\sin^n x$, $\cos^n x$ [1]

4. Definite Integral as The Limit of a Sum:

Introduction, fundamental theorem.[1]

5. Areas of Plane Regions:

Areas of a region bounded by a curve, x -axis and two ordinates.[1]

6. Rectification, Length of Plane Curves:

Introduction, expression for lengths of curves $y = f(x)$, expressions for lengths of arc $x = f(y)$; $x = f(t)$, $y = \phi(t)$; $r = f(\theta)$. [1]

7. Volumes and Surfaces of Revolution:

Introduction, expressions for the volume obtained by revolving about either the axis [1]

8. Integral Transformation:

Introduction, line integrals, circulation, irrotational vector point functions, surface integrals, volume integrals, reduction of volume to surface integral, physical interpretation of Gauss theorem, reduction of surface to line integrals, condition for irrotational vector functional, Green's theorem.[2]

Text Books:

[1]. Shanti Narayan : Integral Calculus, S. Chand and Company Limited 1999.

Scope:

Chapter 2: Articles 2.3

Chapter 3: Articles 3.1 to 3.4

Chapter 4: Articles 4.1, 4.2

Chapter 6: Articles 6.1, 6.2

Chapter 7: Articles 7.1

Chapter 8: Articles 8.1, 8.2, 8.3, 8.31

Chapter 9: Articles 9.1, 9.2

[2]. Shanti Narayan and P. K. Mittal : Vector Analysis, S. Chand and Company Ltd, 2007.

Scope:

Chapter 11: Articles 11, 11.1, 11.1.1 to 11.1.2, 11.2, 11.2.1, 11.3, 11.3.1, 11.5, 11.6, 11.7, 11.8, 11.9, 11.11.

Note: Questions on prerequisite may not be asked.

MAT 202: Geometry

Marks:50.

1. The Plane:

Equations of the first degree in x, y, z , transformation to the normal form, determination of plane under given conditions, equations of the plane through three given points, systems of planes, two sides of a plane, length of the perpendicular from a point to a plane, bisectors of angles between two planes, joint equation of two planes.

2. Right Line:

Equations of a line, equations of a straight line in terms of its direction cosines and the co-ordinates of a point on it, equations of a line through two points, symmetrical and unsymmetrical forms of the equations of a line, transformation of the equations of a line to the symmetrical form, angle between a line and a plane, the condition that a given line may lie in a given plane, the condition that two given lines are coplanar, number of arbitrary constants in the equations of a straight line, sets of conditions which determine a line, the shortest distance between two lines, the length and equations of the line of shortest distance between two straight lines, length of perpendicular from a given point to a given line.

3. Sphere:

Definition and equation of the sphere, equation of the sphere through four given points, plane section of a sphere, intersection of two spheres, equation of a circle, sphere through a given circle, intersection of a sphere and a line, equation of a tangent plane.

4. Cones, Cylinders:

The right circular cone, equation of a right circular cone, the right circular cylinder, equation of a right circular cylinder.

5. The Conicoid:

Central conicoids, intersection of a line and a central conicoid, tangent lines and tangent plane at a point, condition that a plane may touch a central conicoid.

Text Book:

[1] Shanti Narayan: *Analytical Solid Geometry*, S. Chand and Company Ltd, New Delhi, 1998

Scope:


Chapter 2: Articles 2.1, 2.3, 2.31, 2.32, 2.4, 2.41, 2.42, 2.5, 2.6, 2.7, 2.71, 2.8

Chapter 3: Articles 3.1, 3.11, 3.12, 3.13, 3.14, 3.2 to 3.5, 3.51, 3.6, 3.61, 3.7

Chapter 6: Articles 6.11, 6.12, 6.13, 6.2, 6.31, 6.32, 6.4, 6.41, 6.5, 6.6

Chapter 7: Articles 7.61, 7.62, 7.81, 7.82

Chapter 8: Articles 8.24, 8.3, 8.31, 8.32


(Dr. B. R. SONTAKKE)

Chairman, Board of Studies in Mathematics
Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad

B-25 March, 2013 AC after Circulars from Circular No.153 & onwards

- 17 -

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/NP/B.Sc.-Ist Yr./SEM.-I & II/157/2013

It is hereby notified for information of all concerned that, on the recommendations of the Boards of Studies, Ad-hoc Boards, and Faculty of Science, the Academic Council at its meeting held on 25-03-2013 has accepted the following revised syllabi for B.Sc. First Year progressively under the Faculty of Science :-

Sr. No.	Revised Syllabus	
[1]	B.Sc. [Physics]	Semester-I & II,
[2]	B.Sc. [Dairy Science & Technology]	Semester-I & II,
[3]	B.Sc. [Industrial Chemistry]	Semester-I & II,
[4]	B.Sc. [Geology]	Semester-I & II,
[5]	B.Sc. [Chemistry]	Semester-I & II,
[6]	B.Sc. [Botany]	Semester-I & II,
[7]	B.Sc. [Electronics] Science	Semester-I & II,
[8]	B.Sc. [Fisheries]	Semester-I & II,
[9]	B.Sc. [Microbiology]	Semester-I & II,
[10]	B.A. [Statistics]	Semester-I & II,
[11]	B.Sc. [Statistics]	Semester-I & II,
[12]	B.Sc. [Zoology]	Semester-I & II,
[13]	B.Sc. [Textile and Interior Decoration]	Semester-I & II,
[14]	B.Sc. [Home Science]	Semester-I & II,
[15]	B.A. / B.Sc. [Mathematics]	Semester-I & II.

This is effective from the Academic Year 2013-2014 and onwards.

These syllabi are available on the University Website www.bamu.net

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
 Aurangabad-431 004.
 REF.NO.ACAD/NP/B.SC.-IST YEAR/
 Sem-I & II/2013/5132-541
 A.C.S.A.I.No.327[9].

Date:- 08-05-2013.

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[Signature]
Director,
Board of College and
University Development.

S-25 March, 2013 AC after Circulars from Circular No.153 & onwards

- 18 -

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- 6] The Programmer [Computer Unit-2] Examinations,
- 7] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 8] The Public Relation Officer,
- 9] The Record Keeper,
Dr. Babasaheb Ambedkar Marathwada University.

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**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad**



Syllabus

**B.A./B.Sc. Mathematics
Semester – I & II
(With Effect from June 2013)**

Syllabus

B.A. / B.Sc. (Mathematics) Semester- I (With effect from June 2013)

MAT 101: Differential Calculus

Marks : 50.

1. Prerequisite:

Functions: Domain and range of a function, independent and dependent variables, polynomial functions and rational functions, constant functions and identity functions, one-one functions, onto function, invertible functions, composite function. [1]

Limit and Continuity: Limit of a function, left handed and right handed limits, non existence of limit, theorems on limits (statements only), theorems on continuity (statements only), discontinuity, types of discontinuity. [1]

2. Differentiations:

Derivative of a function, derived function, derivability implying continuity, geometrical interpretation of a derivative, hyperbolic functions, derivatives of hyperbolic and inverse hyperbolic functions, logarithmic differentiation, derivative of implicit functions. [1]

3. Successive Differentiation:

Higher order derivatives, calculation of n th derivatives, some standard results, determination of n th derivative of rational functions, the n th derivatives of the products of the powers of sines and cosines, Leibnitz's theorem: n th derivative of the product of two functions.[1]

4. Mean Value Theorems:

Rolle's Theorem, Lagrange's mean value theorem, meaning of the sign of the derivative, Cauchy's mean value theorem, higher derivatives, Taylor's theorem, Maclaurin's theorem, Maclaurin's power series for a given function. [1]

5. Partial Differentiation:

Function of two variables, limit of a function of two variables, continuity of a function of two variables at a point, limit of a continuous function, partial derivatives, partial derivatives of higher order, homogeneous function, Euler's theorem on homogeneous function, total differentials, differentiation of composite function and implicit function.[1].

6. Prerequisite:

Scalar product of two vectors, sign of the scalar product, length of a vector as a scalar product, angle between two vectors, commutativity, distributivity, right handed and left handed vector triads, vector product, some properties of vector product, scalar triple product, distributive law, some properties of scalar triple product, vector triple product.[2]

7. Differential Operators:

Point Functions: scalar valued point functions, vector valued point functions, limits and continuity, directional derivatives, Cartesian representation of point functions and their directional derivatives, directional derivatives of point functions along co-ordinate axis and along any line, gradient of a scalar point function, character of gradient as a point function, the operator ∇ , operator $\nabla \cdot V$, divergence and curl, gradient, divergence and curl of sums and product. [2]

Text Book:

[1]. Shanti Narayan: Differential Calculus, Shyamal Charitable Trust, 2004

Scope:

Chapter 2: Articles 2.1, 2.11, 2.12, 2.31, 2.32, 2.4, 2.42, 2.5

Chapter 3: Articles 3.2, 3.21, 3.22, 3.3, 3.6, 3.61, 3.62, 3.8, 3.81

Chapter 4: Articles 4.1, 4.11, 4.12, 4.14, 4.15, 4.7, 4.71, 4.72, 4.9, 4.10

Chapter 5: Complete

Chapter 7: Articles 7.1, 7.2, 7.3, 7.5, 7.6, 7.61

Chapter 10: Articles 10.1, 10.2, 10.3, 10.4, 10.41, 10.5, 10.51, 10.6, 10.61, 10.8, 10.81, 10.9, 10.91, 10.93, 10.94

[2]. Shanti Narayan and P. K. Mittal : Vector Analysis, S. Chand and Company Ltd, 2007.

Scope:

Chapter 3: Articles 3.1, 3.1.1 to 3.1.9, 3.1.10 (statements only)

Chapter 5: Articles 5.2, 5.2.1, 5.3, 5.3.1 to 5.3.3, 5.3.4, 5.3.5, 5.3.6, 5.3.7, 5.5, 5.5.1, 5.6, 5.7, 5.7.1 to 5.7.3, 5.8

Chapter 10: Articles 10.1, 10.1.1 to 10.1.2, 10.2, 10.2.1 to 10.2.3, 10.3, 10.3.1 to 10.3.2, 10.4, 10.4.1 to 10.4.2, 10.5, 10.6, 10.7, 10.7.1 to 10.7.2, 10.9, 10.10, 10.11, 10.12, 10.12.1 to 10.12.2, 10.14, 10.15 (results 1 to 6).

Note: Questions on prerequisite may not be asked.

MAT 102: Differential Equations

Marks: 50

1. Prerequisite:

Ordinary and partial differential equations, order and degree of Differential equations, Solutions: general, particular, singular.

2. Equations of The First Order and of The First Degree:

Exact differential equations, Linear equations, Equations reducible to the linear form.

3. Linear Equations with Constant Coefficients:

Linear equations, complementary functions, particular integral, complete integral, The linear equations with constant coefficients and second member zero, case of auxiliary equation having equal roots, case of auxiliary equation having imaginary roots, the symbol D , the linear equation with constant coefficients and second member a function of x , the symbolic function $1/f(D)$, methods of finding the particular integral, short methods of finding particular integrals corresponding to the terms e^{mx} , x^n , $\sin ax$, $\cos ax$, e^{mV} and x^V in the second member.

4. Linear Equations with Variable Coefficients:

The homogeneous linear equation, methods of finding solution, the symbolic functions $f(\theta)$ and $1/f(\theta)$, methods of finding the particular integral, integral corresponding to a term of form x^n in the second member, equations reducible to homogeneous linear form.

5. Exact Differential Equations and Equations of Particular Forms:

Exact differential equations, criterion of an exact differential equation, the integration of an exact equation: first integral, equations of the form $\frac{dy}{dx} = f(x)$, equation of the form

$$\frac{d^2y}{dx^2} = f(y).$$

6. Ordinary Differential Equations with More Than Two Variables:

Simultaneous differential equations which are linear, simultaneous equations of the First order.

7. Partial Differential Equations:

Definitions, derivation of a partial differential equation by the elimination of constants,
Derivation of a partial differential equation by the elimination of arbitrary functions.

Text Book:

D. A. Murray : *Introductory Course in Differential Equations*, Khosla Publishing House, New Delhi, 2003.

Scope:

- Chapter 1: Articles 1, 2, 4
- Chapter 2: Articles 11, 12, 13, 20, 21
- Chapter 6: Articles 49 to 53, 56 to 64
- Chapter 7: Articles 65 to 71
- Chapter 8: Articles 73 to 77
- Chapter 11: Articles 98, 99
- Chapter 12: Articles 107, 108, 109

Note: Questions on prerequisite may not be asked.

Syllabus

B.A / B.Sc. (Mathematics) Semester- II

MAT 201: Integral Calculus :

Marks: 50.

1. Methods of Integration:

Reduction formulae. [1]

2. Integration of Algebraic Rational Functions:

Case of non-repeated linear factors, case of non-repeated linear or repeated linear factors, case of linear or quadratic non repeated factors [1]

3. Integration of Trigonometric Functions:

Integration of $\sin^n x$, $\cos^n x$ and reduction formulae for integration of $\sin^n x$, $\cos^n x$ [1]

4. Definite Integral as The Limit of a Sum:

Introduction, fundamental theorem.[1]

5. Areas of Plane Regions:

Areas of a region bounded by a curve, x -axis and two ordinates.[1]

6. Rectification, Length of Plane Curves:

Introduction, expression for lengths of curves $y = f(x)$, expressions for lengths of arc $x = f(y)$; $x = f(t)$, $y = \phi(t)$; $r = f(\theta)$. [1]

7. Volumes and Surfaces of Revolution:

Introduction, expressions for the volume obtained by revolving about either the axis [1]

8. Integral Transformation:

Introduction, line integrals, circulation, irrotational vector point functions, surface integrals, volume integrals, reduction of volume to surface integral, physical interpretation of Gauss theorem, reduction of surface to line integrals, condition for irrotational vector functional, Green's theorem.[2]

Text Books:

[1]. **Shanti Narayan : Integral Calculus, S. Chand and Company Limited 1999.**

Scope:

Chapter 2: Articles 2.8

Chapter 3: Articles 3.1 to 3.4

Chapter 4: Articles 4.1, 4.2

Chapter 6: Articles 6.1, 6.2

Chapter 7: Articles 7.1

Chapter 8: Articles 8.1, 8.2, 8.3, 8.31

Chapter 9: Articles 9.1, 9.2

[2]. **Shanti Narayan and P. K. Mittal : Vector Analysis, S. Chand and Company Ltd, 2007.**

Scope:

Chapter 11: Articles 11, 11.1, 11.1.1 to 11.1.2, 11.2, 11.2.1, 11.3, 11.3.1, 11.5, 11.6, 11.7, 11.8, 11.9, 11.11.

Note: Questions on prerequisite may not be asked.

MAT 202: Geometry

Marks:50.

1. The Plane:

Equations of the first degree in x, y, z , transformation to the normal form, determination of plane under given conditions, equations of the plane through three given points, systems of planes, two sides of a plane, length of the perpendicular from a point to a plane, bisectors of angles between two planes, joint equation of two planes.

2. Right Line:

Equations of a line, equations of a straight line in terms of its direction cosines and the co-ordinates of a point on it, equations of a line through two points, symmetrical and unsymmetrical forms of the equations of a line, transformation of the equations of a line to the symmetrical form, angle between a line and a plane, the condition that a given line may lie in a given plane, the condition that two given lines are coplanar, number of arbitrary constants in the equations of a straight line, sets of conditions which determine a line, the shortest distance between two lines, the length and equations of the line of shortest distance between two straight lines, length of perpendicular from a given point to a given line.

3. Sphere:

Definition and equation of the sphere, equation of the sphere through four given points, plane section of a sphere, intersection of two spheres, equation of a circle, sphere through a given circle, intersection of a sphere and a line, equation of a tangent plane.

4. Cones, Cylinders:

The right circular cone, equation of a right circular cone, the right circular cylinder, equation of a right circular cylinder.

5. The Conicoid:

Central conicoids, intersection of a line and a central conicoid, tangent lines and tangent plane at a point, condition that a plane may touch a central conicoid.

Text Book:

[1] Shanti Narayan: *Analytical Solid Geometry*, S. Chand and Company Ltd, New Delhi, 1998

Scope:

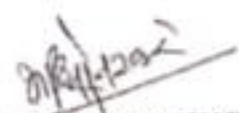
Chapter 2: Articles 2.1, 2.3, 2.31, 2.32, 2.4, 2.41, 2.42, 2.5, 2.6, 2.7, 2.71, 2.8

Chapter 3: Articles 3.1, 3.11, 3.12, 3.13, 3.14, 3.2 to 3.5, 3.51, 3.6, 3.61, 3.7

Chapter 6: Articles 6.11, 6.12, 6.13, 6.2, 6.31, 6.32, 6.4, 6.41, 6.5, 6.6

Chapter 7: Articles 7.61, 7.62, 7.81, 7.82

Chapter 8: Articles 8.24, 8.3, 8.31, 8.32


(Dr. B. R. SONTAKKE)

Chairman, Board of Studies in Mathematics
Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad

2/20 Nov., 2013 AC after Circulars from Circular No.55 & onwards

41

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

परिपत्रक क्रमांक/एस.यू.विज्ञान/अभ्यासक्रम/७३/२०१४

या परिपत्रकाद्वारे सर्व संकेचीतांना सूचित करण्यात येते की, विज्ञान विद्यालयातने विद्यार्थ्यांन वेत्यानुसार बी. एससी. / एम. एससी. प्रथम व द्वितीय वर्षाच्या सुधारित अभ्यासक्रमात आणि बी. एससी. प्रथम वर्षाच्या अभ्यासक्रमात किरकोळ बदल करण्यात विद्यापरिषदेच्या यतीने मा. कुलसुलु यांनी, त्यांना प्राप्त असलेल्या विशेष अधिकार महाराष्ट्र विद्यापीठ अधिनियम-१९९४ कलम १४(७) अन्वये मान्यता दिलेली आहे. त्या अनुषंगाने सुधारित तयार केलेल्या अभ्यासक्रमाची प्रत या परिपत्रकासोबत आपल्या पुढील कार्यवाहीसाठी पाठविण्यात येत आहे.

[1]	B.Sc. Physics	Semester-III & IV,
[2]	B.Sc. Chemistry	Semester-III & IV,
[3]	B.Sc. Botany	Semester-III & IV,
[4]	B.Sc. Zoology with minor changes	Semester-I & II,
[5]	B.Sc. Zoology	Semester-III & IV,
[6]	B.Sc. Fisheries	Semester-III & IV,
[7]	B.Sc. Electronics (Opt.)	Semester-III & IV,
[8]	B.A./B.Sc. Mathematics	Semester-III & IV,
[9]	B.Sc. Computer Science	Semester-I & II,
[10]	B.Sc. Information Technology	Semester-I & II,
[11]	B.C.A.	Semester-I & II,
[12]	B.Sc. Computer Science(Opt.)	Semester-I & II,
[13]	B.Sc. Information Technology(Opt.)	Semester-I & II,
[14]	B.Sc. Computer Application(Opt.)	Semester-I & II,
[15]	B.Sc. Computer Maintenance(Opt.)	Semester-I & II,
[16]	B.Sc. Biotechnology (Progressively)	Semester-I to VI,
[17]	B.Sc. Biotechnology (Opt.) (Progressively)	Semester-I to IV,
[18]	B.Sc. Sericulture Technology	Semester-I & II,
[19]	B.Sc. Networking Multimedia	Semester-III & IV,
[20]	B.Sc. Bioinformatics	Semester-I & II,
[21]	B.Sc. Hardware & Networking	Semester-I & II,
[22]	B.Sc. Animation	Semester-I & II,
[23]	B.Sc. Dairy Science & Technology	Semester-III & IV,
[24]	B.Sc. Biochemistry	Semester-III & IV,
[25]	B.Sc. Analytical Chemistry	Semester-III & IV,
[26]	B.Sc. Textile & Int. Decoration with minor changes	Semester-I & II,
[27]	B.Sc. Textile & Int. Decoration	Semester-III & IV,
[28]	B.Sc. Home Science with minor changes	Semester-I & II,
[29]	B.Sc. Home Science	Semester-III & IV,
[30]	B.Sc. Agro.Chem. & Fertilizers	Semester-III & IV,

B-27 Nov., 2013 AC after Circulars from Circular No.55 & onwards

- 42 -

॥ [2] ॥

[31]	B.Sc. Geology	Semester-III & IV,
[32]	B.A. Statistics with minor changes	Semester-I & II,
[33]	B.A. Statistics	Semester-III & IV,
[34]	B.Sc. Statistics with minor changes	Semester-I & II,
[35]	B.Sc. Statistics	Semester-III & IV,
[36]	B.Sc. Industrial Chemistry	Semester-III & IV,
[37]	B.Sc. Horticultural	Semester-I & II,
[38]	B.Sc. Dry land Agriculture	Semester-I & II,
[39]	B.Sc. Microbiology	Semester-III & IV,
[40]	M.Sc. Computer Science	Semester-I to IV,
[41]	M.Sc. Information Technology	Semester-I to IV.

हा सुधारीत व नवीन तयार केलेल्या अभ्यासक्रमाचा आराखडा पेशनिष्ठ बर्ष २०१४-१५ करिता मर्यादित अंसेल व विद्यार्थिपरिपदेच्या अंतिम मान्यतेनंतर हे परिपत्रक नियमित ठेवण्याबाबत या कार्यालयाद्वारे नवीन परिपत्रक पारीत करण्यात येईल. तसेच सुधारीत व नवीन तयार केलेल्या अभ्यासक्रमाची प्रत विद्यार्थीसंख्या संकेतस्थळावर उपलब्ध आहे.

करिता, या परिपत्रकाची सर्व संबंधितांनी नोंद घ्यावी.

विद्यापीठ प्रांगण,
औरंगाबाद-४३१ ००४,
संदर्भ क्र.एस.यु./सा.शा./सावि /२०१३-१४/
६५९९-७०२
दिनांक :- २७-०५-२०१३

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संचालक,
महाविद्यालये व विद्यापीठ
विकास मंडळ.

या परिपत्रकाची एक प्रत :-

- १) मा. परिक्षा नियंत्रक, परिक्षा विभाग,
 - २) मा. प्राचार्य, सर्व संलग्नीत महाविद्यालये,
 - ३) संचालक, मुनिक यांना विनंती करण्यात येते की, सदरील अभ्यासक्रम विद्यापीठाच्या संकेतस्थळावर उपलब्ध करून देण्यात यावेत.
 - ४) संचालक, ई-मुद्रित केंद्र, विद्यापीठ परिसर,
 - ५) जनसंपर्क अधिकारी, मुख्य प्रशासकीय इमारत,
 - ६) कक्षा अधिकारी, पात्रता विभाग, मुख्य प्रशासकीय इमारत,
 - ७) कक्षा अधिकारी, बी.ए. / बी.एससी. / बी.सी.एस./एम.एससी. विभाग, परीक्षा भवन,
 - ८) अभिलेख विभाग, मुख्य प्रशासकीय इमारती मागे,
- डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद.

DR. BABASAHEE AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.



REVISED SYLLABUS

OF

B.Sc. Botany
SECOND YEAR
[Optional]

Third & Fourth Semester

[Effective for - June, 2014-15]

DR.BABASAHEB AMBEDKAR MARATHIWADA UNIVERSITY,AURANGABAD

Faculty Of Science

B. Sc. II YEAR SYLLABUS

Subject -BOTANY

Semester -III and IV

	Paper No	Title of Paper	Lectures	Marks
	B. Sc. II	Semester- III		
VII		Taxonomy of Angiosperms	45	50
VIII		Plant Ecology	45	50
IX		Practical based on Paper - VII	45	50
X		Practical based on Paper - VIII	45	50
SEMESTER - IV				
XI		Gymnosperms and Utilization of plants	45	50
XII		Plant Physiology	45	50
XIII		Practical based on Paper - XI	45	50
XIV		Practical based on Paper - XII	45	50

Effective from - Academic year -2014-15

DR. BABASAHEB AMDEBARSHI MARATHWADA UNIVERSITY, AURANGABAD

Faculty Of Science

SECOND YEAR (BOTANY)

Semester - III

Paper - VII

Taxonomy of Angiosperms

Period-45L.

Unit-01

1. Salient features, origin and evolution of Angiosperms. (03)
2. Systems of classification - Introduction of Natural, Artificial and Phylogenetic. (01)
3. Bentham and Hooker's system of classification up to series level, its merits and demerits. (02)
4. Taxonomy in relation to anatomy, embryology, palynology, ecology and cytology. (05)
5. Concept of Binomial Nomenclature and its advantages. (02)
6. Concept of genus, species and subspecies. (02)
7. Herbaria:- What is herbaria, procedure for collection of plants, pressing of the plants specimen, drying of specimen, poisoning, use of insecticides, labelling of specimens, storing of specimen, function of herbaria and some important herbaria in India; Digital herbaria. Botanical Gardens: What is botanical garden, functions of botanical garden and major botanical gardens of India. (05)

Unit: 02

Study of the following families, their position, salient features, floral formula, floral diagram, common examples and their economic importance. (25)

i. Annonaceae

ii. Malvaceae

iii. Leguminosae

Fabaceae (Papilionaceae)

Caesalpiniaceae

Mimosaceae

iv. Apocynaceae

v. Solanaceae

vi. Acanthaceae

vii. Lamiaceae (Labiatae)

viii. Nyctaginaceae

ix. Liliaceae

x. Poaceae (Gramineae)

DR.BABASAHEB AMTE MARATHWADA UNIVERSITY,AURANGABAD

Faculty Of Science

B.Sc. II YEAR (BOTANY)

Semester -III

Paper -VIII

Plant Ecology

Period- 45L

Unit – 1

Plant and environment

A)Climatic factors –

- a) Light as an ecological factor, global radiation and photosynthetically active radiation (02)
- b) Temperature as an ecological factor. (02)
- c) Water as an ecological factor, physicochemical properties of water. (03)

B) Edaphic factor –

Soil formation, soil profile, physico-chemical properties of soil, major soil types of India, soil erosion and soil conservation. (08)

Unit:2

1. Response of plants to water

Morphological, physiological and anatomical response of plants to water:– hydrophytes, xerophytes, halophytes and epiphytes. (12)

2. Phytogeography: (03)

Biogeographical regions of India, vegetation types of India.

Unit: 3

1. Community ecology:

Community characteristics of species, density, life forms, biological spectrum. (06)

1. Ecosystem:

Structure -biotic and abiotic components, food chain, food web, ecological pyramids, energy flow, biogeochemical cycles-nitrogen and phosphorus. (09)

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

Faculty Of Science

B.Sc. II YEAR (Practical)

Semester -III

Paper- IX

Phytogeography of Angiosperms

(Based on Paper- VII)

45 L

Angiosperms:

Study of locally available plants of the following families :

1. Annonaceae
2. Malvaceae
3. Leguminosae
 - a) Fabaceae (Papilionaceae)
 - b) Caesalpinaceae
 - c) Mimosaceae
4. Apocynaceae
5. Solanaceae
6. Acanthaceae
7. Lamiaceae (Labiatae)
8. Nyctaginaceae
9. Liliaceae
10. Poaceae (Gramineae)

DR.BABASAHEB AMBHIKAR MARATHWADA UNIVERSITY,AURANGABAD

Faculty Of Science

B. Sc. II year (Practical)

Semester - III

Paper - X

Plant Ecology

(Based on Paper no -VIII)

45 L

1. Study of morphological and anatomical adaptations in hydrophytes – *Hydrilla*, *Eichhornia*, *Typha* and *Najas*.
2. Study of morphological and chemical adaptations in xerophytes -*Aloe*, *Nerium*, *Casuarina*.
3. Study of morphological adaptations in halophytes -Pneumatophore, Stilt roots.
4. Study of morphological and anatomical adaptations in epiphytes.
5. Study of vegetation by quadrat method.
6. Estimation of Importance Value Index (IVI) of grassland ecosystem on the basis of relative frequency, relative density and relative abundance.
7. Determination of water holding capacity of different soils.
8. Study of meteorological instruments -Rain gauge, Hygrometer, Barometer.
9. Determination of percent leaf injury of different infected leaf samples.
10. Estimation of salinity of different water samples.
11. Determination of pH of different soils by pH papers/universal indicator/pH meter.

Note for paper IX and X:

Candidate shall submit the following at the time of practical exams: Certified laboratory record book, Field note book, report and Collection of specimens. In addition to number of practicals prescribed above, candidates are required to undertake field excursions to the places of botanical interest and industrial places under the guidance of teachers. Collection of rare flowering and non flowering plants should be avoided during excursion. There shall be frequent study tours in local areas. T.A. and D.A. shall be given to the teachers, peons and field collectors as per university rules. The record book is to be checked periodically by teacher in charge and certified by the Head of Department at the end of the course. Candidate should not be allowed to appear for practical examination without a certified record book or a certificate from the Head of Department.

DR.BABASAHEB AMTE KRISHNARAJWAR MARATHWADA UNIVERSITY,AURANGABAD

Faculty Of Science
B. Sc. II Year (Theory)
Semester - IV
Paper - XI

Classification, Diversity and Utilization of Plants

Unit:1 **45 L**

Gymnosperms:

1. Salient features, classification and evolution of Gymnosperms Sporne 1965, economic importance. (02)
2. Geological time scale, fossil plants and types of fossils, *Lyginopteris*, fossil fuels. (04)
3. Contributions of Prof. I. S. Thakur. (01)
4. Study of morphology, anatomy and reproduction (excluding developmental stages) and graphical representation of life cycle of the following types: (16)
 - a) Cycadales – *Cycas*
 - b) Coniferales – *Pinus*
 - c) Gnetales - *Gnetum*

Unit:2

Utilization of Plants:

1. Domestication of plants and their centers of origin. (02)
2. History, origin, cultivation and improved varieties and economic importance of the following plants: (15)
 - i. Food plants – Wheat, Jowar
 - ii. Sugar – Sugarcane.
 - iii. Fibers -Cotton, Jute,
 - iv. Vegetable oils – Groundnut, Sesame, Mustard, Soybean.
 - v. Beverages – Tea, Coffee
 - vi. Mushroom e. g. (*Oyster*)
3. Botanical name, family and economic importance of the following plants: (05)
 - i. Medicinal plants – Korpil, Amla, Ashwagandha, Turmeric and Nirgudi.
 - ii. Timber and Gum – Teak, Sandalwood, Shisham.
 - iii. Cosmetics and Perfumes – Sandalwood, Nagara, Tuberose.
 - iv. Spices – Clove, Pepper, Mustard, Coriander, Cinnamon.

DR. BABASAHEB AMTEDEWAR MARATHWADA UNIVERSITY, AURANGABAD
Faculty Of Science
B. Sc. II Year (Theory)
Semester -IV
Paper -XII
Plant Physiology

Unit:1 45 L

1. Plant water relations:

a) Diffusion, osmosis, plasmolysis and imbibition. (02)

b) Water absorption and transport (transpiration pull theory). (03)

c) Transpiration – Definition, types – cuticular, lenticular and stomatal, structure of stomata, mechanism of opening and closing of stomata (starch – sugar hypothesis). (02)

2. Mineral nutrition:

a) Macro and micro nutrients – deficiency symptoms of N, P, K, Mg, Ca, Fe, Zn, Bo, Mo. (05)

b) Mineral uptake – passive (carrier theory) and active (carrier concept). (03)

3. Translocation of organic nutrients:

Mass flow hypothesis and pressure flow theory, Source and sink relationship. (03)

Unit:2

1. Enzymes :

Chemical nature, holoenzyme, apoenzyme, prosthetic group, cofactor and coenzyme, properties, nomenclature, classification based on type of reactions, mechanism of enzyme action. (06)

2. Growth: Definition, characteristics, sigmoid growth curve. (02)

3. Growth regulators:

Discovery, structure and biological applications of Auxins, Gibberellins, Cytokinins, Abscissic acid, Ethylene. (07)

Unit:3

1. Photosynthesis:

Definition, ultrastructure of chloroplast, photosynthetic pigments, Light reactions -Hill reaction, red drop and Emerson enhancement effect, two pigment systems (PS I, PS II), photophosphorylation – non cyclic, Z-scheme; Dark reactions -C₃, C₄ and CAM pathways (08)

2. Respiration:

Definition, Ultrastructure of mitochondria, types of respiration, Glycolysis, TCA Cycle, Electron transport chain, alcoholic and lactic acid fermentation. (07)

DR. BABASAHEB AMTE MARATHWADA UNIVERSITY, AURANGABAD
FACULTY OF SCIENCE

II year (Practical)

Semester -IV

Paper -XIII

Practicals and Utilization of plants

(Based on paper no - XI)

45L

Gymnosperms:

a) Cycas

i. Habit, young leaf (T.S.), young sporophyll, megasporophyll, pollen grains, mature seed.

ii. Study through micrographs of young root (T.S.), Stem (T.S.), Ovule (L.S.).

iii. Study through micrographs of young root (T.S.), Rachis (T.S.), Leaflet (T.S.).

b) Pinus

i. Habit, long and short shoot, young shoot, foliage leaves, male cone, female cone, pollen grains.

ii. Study through micrographs of young shoot slides Root (T.S.), Stem (T.S.), Needle (T.S.).

iii. Study through micrographs of young shoot slides R.L.S. of stem, L.S. of male cone, L.S. of female cone.

c) Gnetum

i) Habit, T. S. of stem, L.S. of female cone.

Paleobotany:

a) Types of fossil plants.

b) *Lygnopteris* (L.S. of stem, L.S. of leaf).

Utilization of plants

a) Food plants - Study of structure, and histochemical tests of food storing tissue in Jowar & Yams.

b) Histochemical tests of Jowar & Yams.

c) Cultivation of *Aspergillus niger* on agricultural waste.

d) Vegetable oils - Staining of Mustard & Sunflower Seed and staining of oil droplets by Sudan III.

e) Study of the uses of medicinal plants, Cosmetics and Perfumes.

f) Study of Bladder, Cumin, Coriander.

f) Field notebook - Submit your report.

DR. BABAR

VARATHWADA UNIVERSITY, AURANGABAD
 Faculty Of Science
 1 year (Practical)
 Semester -IV
 Paper- XIV
Practical Physiology
 (Total paper no. -XII)

45L

1. Osmosis by using
2. Plasmolysis in
3. Effect of diff.
4. Determination of
5. Detection of
6. Digestion of
7. Detection of
8. Separation of
9. Demonstrat
10. Effect of d
11. Effect of d
12. Fermentat
13. Isolation of
14. Isolation of
15. Estimation of
16. Separation of
17. Effect of

Note for paper

Cand
 laboratory re
 number of pr
 places of bot
 flowering an
 study tours i
 university ru
 Head of the
 practical ex
 Department.

1. Microscope,
2. Effect on membrane permeability.
3. Paper chromatography.
4. Detection of peroxidase, catalase and dehydrogenase.
5. Paper chromatography.
6. Photosynthesis.
7. Photosynthesis.
8. Fehling's solution.
9. Detection of fruit juice by Fehling solution.
10. Paper chromatography.
11. Determination,

DR. B. S. ...

MAHATWADA UNIVERSITY, AURANGABAD

School of Science

Theory Question Paper

YEAR (BOTANY)

Semester - III

Paper - VII

Evolution of Angiosperms

Max. Marks: 50

Time: 2 Hours

- N.B.: i) Attend
ii) All quest
iii) Draw ne

Q.1. Long an

never necessary

(Unit 1) 10

Long
Q.2. Long an

(Unit 1)
(Unit 2) 10

Long
Q.3. Long an

(Unit 2)
(Unit 2) 10

Long

(Unit 2)

Q.4. Short an

(based on all Units) 10

- a) 5
b) 5
c) 5
d) 5

Q.5. Multipl

(based on all Units) 10

- 1) ..
2) ..
3) ..
4) ..
5) ..
6) ..
7) ..
8) ..
9) ..
10) ..

DR. BABA

MAHARATHIWADA UNIVERSITY, AURANGABAD

Faculty Of Science

Laboratory Question Paper

II YEAR (BOTANY)

Semester -III

Paper -VIII

Plant Ecology

Time: 2 Hour

Max. Marks: 50

N.B.: i) Attempt all questions
 ii) All questions carry equal marks
 iii) Draw neat and simple diagrams wherever necessary

Q.1. Long answer

(Unit 1)

10

Long answer

(Unit 1)

Q.2. Long answer

(Unit 2)

10

Long answer

(Unit 2)

Q.3. Long answer

(Unit 3)

10

Long answer

(Unit 3)

Q.4. Short notes

Choose any four (based on all Units)

10

a) Short

b) Short

c) Short

d) Short

Q.5. Multiple choice

(based on all Units)

10

1)

2)

3)

4)

5)

6)

7)

8)

9)

10)

DR. BABAS

MAHARAJA WADIA UNIVERSITY, AURANGABAD

Faculty of Science

Classical Question Paper

1ST YEAR (BOTANY)

Semester- IV

Paper - XI

Evolution and Utilization of plants

Max. Marks: 50

Time: 2 Hour

N.B.: i) Attempt all

ii) All questions carry

iii) Draw neat and

Q.1. Long answer

Long answer

Q.2. Long answer

Long answer

Q.3. Long answer

Long answer

Q.4. Short notes

a) Short

b) Short

c) Short

d) Short

Q.5. Multiple choice

1)

2)

3)

4)

5)

6)

7)

8)

9)

10)

Answer necessary

(Unit-1)

10

(Unit-1)

10

(Unit-1)

10

(Unit-1)

(Unit-2)

10

(Unit-2)

(based on all Units)

10

(based on all Units)

10

DR.BABAN

MAHARATHWADA UNIVERSITY,AURANGABAD

Faculty Of Science

Theory Question Paper

II YEAR (BOTANY)

Semester- IV

Paper- XII

Plant Physiology

Time: 2 Hour

Max. Marks: 50

N.B.: i) Attempt

ii) All questions

iii) Draw neat diagrams

Answers to be written on separate sheet

Q.1. Long answer

Unit- 1)

10

Long answer

(Unit-1)

Q.2. Long answer

Unit-2)

10

Long answer

(Unit-2)

Q.3. Long answer

(Unit- 03)

10

Long answer

(Unit-3)

Q.4. Short note

(based on all Units)

10

a) Short note

b) Short note

c) Short note

d) Short note

Q.5. Multiple choice

(based on all Units)

10

1) ...

2) ...

3) ...

4) ...

5) ...

6) ...

7) ...

8) ...

9) ...

10) ..

DR. B. A. M.

K. J. Somaiya UNIVERSITY, AURANGABAD

School of Science

Practical Examination

Second Year (BOTANY)

Semester- IV

Practicals XII and XIII

(Gymnosperms and Utilization of plants)

Time: 09.00 A

Marks: 100

Date: _____

Center: _____

- Q.1. Identify _____
Give flow chart _____
_____ be the specimen "A" 20
- Q.2. Make a _____
(Gymnosperm) _____
_____ of the given specimen "B"
_____ with a well labeled diagram. 20
- Q.3. Perform _____
(Protein) _____
_____ "C"
_____ (Amin) 10
- Q.4. Identify _____
(D and _____)
_____ F, G and H as per the instructions 25
_____ G- and H- Utilization of plants)
- Q.5. Submit _____ 10
 - a) Rec _____
 - b) Per _____
 - c) V _____ 05

DR.BAB

MAHARAJA KRISHNAJI KATHIWADA UNIVERSITY, AURANGABAD

College of Science

Examination

B.Sc. (BOTANY)

Semester IV

Semester III and XIV

(Botany and Plant Physiology)

Time: 02.00 P.

Marks: 100

Date: _____

Batch No. _____

Center: _____

-
- Q.1. Identify and describe the morphological adaptations in the given specimen. 20
 - Q.2. Conduct the experiment allotted to you, write the principal and record the observation. 15
 - Q. 3. Make a list of the physiological experiment allotted to you. Show it as a table and record the readings. 20
 - Q. 4. Make a list of the physiology experiment allotted to you. Show results. 20
 - Q.5. Submission
 - a) Record 10
 - b) Project 10
 - c) Viva - 05

S-30th May, 2015 AC after Circulars from Circular No.1 & onwards

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY**CIRCULAR NO.ACAD/SU/Sci./B.Sc. & M.Sc. Syll./5/2015**

It is hereby notified for information to all the concerned that, on the recommendation of the Faculty of Science the Academic Council at its meeting held on 30-05-2015 has accepted the revised semester-wise syllabi as mentioned against their names in the Faculty of Science as under :-


Sr. No.	Name of the Subject	Semester
[1]	B.Sc. Computer Science Degree Course	III & IV
[2]	B.Sc. Information Technology Degree Course	III & IV
[3]	B.C.A. Science Degree Course	III & IV
[4]	B.Sc. Animation Degree Course	III & IV
[5]	B.Sc. Bioinformatics Degree Course	III & IV
[6]	B.Sc. Computer Science [Optional]	III & IV
[7]	B.Sc. Information Technology [Optional]	III & IV
[8]	B.Sc. Computer Applications [Optional]	III & IV
[9]	B.Sc. Computer Maintenance [Optional]	III & IV
[10]	B.Sc. Environmental Science [Optional]	V & VI
[11]	B.Sc. Bio-Chemistry [Optional]	V & VI
[12]	B.Sc. Forensic Science Degree Course	V & VI
[13]	B.Sc. Industrial Chemistry [Optional]	V & VI
[14]	B.Sc. Electronics [Optional]	V & VI
[15]	B.Sc. Zoology [Optional]	V & VI
[16]	B.Sc. Microbiology [Optional]	V & VI
[17]	B.Sc. Instrumentation Practice [Optional]	V & VI
[18]	B.Sc. Statistics [Optional]	V & VI
[19]	B.A. Statistics [Optional]	V & VI
[20]	B.A. / B.Sc. Mathematics [Optional]	V & VI
[21]	B.Sc. Home Science Degree Course	V & VI
[22]	B.Sc. Textile Interior Decoration Degree Course	V & VI
[23]	B.Sc. Fishery Science [Optional]	V & VI
[24]	B.Sc. Dairy Science & Technology [Optional]	V & VI
[25]	B.Sc. Botany [Optional]	V & VI
[26]	B.Sc. Physics [Optional]	V & VI
[27]	M.Sc. Computer Science	III & IV
[28]	M.Sc. I.T.	III & IV

This is effective from the Academic Year 2015-16 & onwards as appended herewith.

All concerned are requested to note the contents of the circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/SCI/
2015/3761-4160
Date:- 16-06-2015.

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Director,
Board of College and
University Development.

..2..

S-30th May, 2015 AC after Circulars from Circular No.1 & onwards

- 7 -

:: 2 ::

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned colleges,
Dr. Babasaheb Ambedkar Marathwada University

Copy to :-

- 1] The Controller of Examinations,
- 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 3] The Superintendent, [B.Sc. Unit],
- 4] The Superintendent, [M.Sc. Unit],
- 5] The Programmer [Computer Unit-1] Examinations,
- 6] The Programmer [Computer Unit-2] Examinations,
- 7] The Record Keeper.

S*/-160615/-

**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad.**



**Syllabus of B. A. /B. Sc. Third
year (Mathematics) (Optional)
With Effect from June - 2015**

Handwritten signature

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD
BOARD OF STUDIES IN MATHEMATICS
REVISED SYLLABUS FOR THIRD YEAR B.Sc. (MATHEMATICS)
(With Effect From June -2015)**

Semester V

Compulsory Papers:

Paper – MAT 501: Real Analysis – I

Paper – MAT 502: Abstract Algebra – I

Optional Papers (Any One):

Paper – MAT 503: Mathematical Statistics – I

Paper – MAT 504: Ordinary Differential Equations – I

Paper – MAT 505: Programming in C – I

Semester VI

Compulsory Papers:

Paper – MAT 601: Real Analysis – II

Paper – MAT 602: Abstract Algebra – II

Optional Papers (Any One):

Paper – MAT 603: Mathematical Statistics – II

Paper – MAT 604: Ordinary Differential Equations – II

Paper – MAT 605: Programming in C – II

Handwritten mark

REVISED SYLLABUS FOR THIRD YEAR B.A. (MATHEMATICS)
(With Effect From June -2015)

Semester V

Main Papers:

- Paper – MAT 501: Real Analysis – I
- Paper – MAT 502: Abstract Algebra – I

Subsidiary Papers:

- Paper – MAT 503: Mathematical Statistics – I
- Paper – MAT 504: Ordinary Differential Equations – I

Semester VI

Main Papers:

- Paper – MAT 601: Real Analysis – II
- Paper – MAT 602: Abstract Algebra – II

Subsidiary Papers:

- Paper – MAT 603: Mathematical Statistics – II
- Paper – MAT 604: Ordinary Differential Equations – II

B.Sc. (Third Year)(Mathematics)(Fifth Semester)
Paper – MAT 501: Real Analysis – I

Periods : 60

Marks : 50

1) Prerequisite:

Sets and elements, Operations on sets.

2) Functions:

Functions, Real-valued functions, Equivalence, Countability, Real numbers, Least upper bounds. [1]

3) Sequences of Real Numbers:

Definition of sequence and subsequence, Limit of a sequence, Convergent sequences, Divergent sequences, Bounded sequences, Monotone sequences, Operations on convergent sequences, Operations on divergent sequences, Limit superior and limit inferior, Cauchy sequences. [1]

4) Series of Real Numbers:

Convergence and divergence, Series with non-negative terms, Alternating series, Conditional convergence and convergence, Test for absolute convergence. [1]

5) Jacobians:

Definitions, Case of function of functions, Jacobian of implicit functions, Necessary and sufficient condition for a Jacobian to vanish. [2]

Recommended books:1] R. R. Goldberg : *Methods of Real Analysis* : Oxford and IBH Publishing Co. Pvt. Ltd. New Delhi.**Scope:**

Chapter 1 : 1.3(A, B, C, D, E, F, G, H, I), 1.4(A, B, C, D, E), 1.5(A, B, C, D, E, F, G, H, I), 1.6(A, B, C, D, E), 1.7(A, B, C, D, E).

Chapter 2 : 2.1(A, B, C, D), 2.2(A, B), 2.3(A, B, C, D), 2.4(A, B, C), 2.5(A, B), 2.6(A, B, C, D, E), 2.7(A, B, C, D, E, F, G, H, I, J), 2.8(A, B, C, D), 2.9(A, B, C, D, E, F, G, I, J, K, L, M), 2.10(A, B, C, D, E), 2.12(A, B).

Chapter 3 : 3.1(A, B, C, D), 3.2(A, B, C, D, E), 3.3(A, B), 2.4(A, B, C), 3.6(A, B, C, D, E, F, G, H, I)

2] J. N. Sharma and A. R. Vashistha : *Real Analysis* : Krishna Prakashan Media (P), Ltd. Meerut.**Scope:**

Chapter 13 : Articles 1, 2, 3, 4, 5, 6, 7

References:1) D. Somasundaram and B. Choudhary : *A first Course in Mathematical Analysis* : Narosa Publishing House, New Delhi.2) Hari Kishan : *Real Analysis* : Pragati Prakashan, Meerut.3) S. K. Mittal and S. K. Pundir : *Real Analysis* : Pragati Prakashan, Meerut.**Note :** Questions on prerequisite should not be asked.

... 4

B.Sc. (Third Year)(Mathematics)(Fifth Semester)
Paper – MAT 502: Abstract Algebra – I

Periods : 60

Marks : 50

1) Prerequisite:

Sets, Functions, Integers.

2) Group Theory:

Definition of a group, Some examples of groups, Some preliminary lemmas Subgroups, A counting Principle, Normal subgroups and quotient groups Homomorphism, Automorphism. [1]

3) Ring Theory:

Definition and examples of rings Some special classes of ring, Ideals and quotient rings More ideals and quotient rings, Polynomial ring. [1]

Recommended books:1) I. N. Herstein : *Topics in Algebra* : Willey Eastern Pvt. Ltd., NewDelhi.**Scope:****Chapter 2** : 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7(Cauchy's Theorem for Abelian Groups and Cauchy's Theorem for Abelian Groups are without proof), 2.8.**Chapter 3** : 3.1, 3.2, 3.3, 3.5, 3.9(Omit Theorem 3.9.1)**References:**

- 1) A. R. Vasishtha : *Modern Algebra* : Krishna Prakashan Media Pvt. Ltd. Meerut.
- 2) M. L. Khanna : *Modern Algebra* : Jai Prakash Nath and Co. Meerut.
- 3) Vijay K. Khanna and S. K. Bhambri : *A course in Abstract Algebra* : Vikas Publishing House Pvt.Ltd. New Delhi.
- 4) Surjeet Singh and Qazi Zameeruddin : *Modern Algebra* : Vikas Publishing House Pvt. Ltd. New Delhi.
- 5) Bhupendra Singh : *Advanced Abstract Algebra* : Pragati Prakashan Meerut.
- 6) Shanti Narayan and Sat Pal : *A Text book of Modern Abstract Algebra* : S. Chand and Co. Ltd. New Delhi.
- 7) I. N. Herstein : *Abstract Algebra (Third Edition)*: Prentice-Hall, Upper Saddle River, New Jersey 07458.
- 8) Joseph A. Gallian : *Contemporary Abstract Algebra (Seventh Edition)* : Brooks/Cole 10 Davis Drive Belmont, CA 94002 – 3098 USA.
- 9) Goyal J. K. and K. P. Gupta : *Advanced course in Abstract Algebra* : Pragati Prakashan, Meerut.
- 10) J. N. Kapoor and K. R. Kalra : *Modern Algebra (Volume I and II)*: R. Chand and Co. New Delhi.
- 11) S. Nanda : *Topics in Algebra*: Allied publishers Pvt. Ltd., New Delhi.

Note : Questions on prerequisite should not be asked.

Optional Papers (any ONE)
B.Sc. (Third Year)(Mathematics)(Fifth Semester)
Paper – MAT 503: Mathematical Statistics – I

Periods : 60

Marks : 50

1) Frequency Distribution and Measures of Central Tendency:

Frequency distribution, Continuous frequency distribution, Graphical representation of a frequency distribution, Histograms, Frequency Polygon, Measures of Central Tendency, Arithmetic mean, Properties of arithmetic mean, merits and demerits of Arithmetic mean, Weighted mean, Median, Merits and demerits of Median, Mode Merits and demerits of mode, Geometric mean, Merits and demerits of Geometric mean, Harmonic mean, partitions [1]

2) Measures of Dispersion Skewness and Kurtosis:

Dispersion, Characteristic for an ideal measure of dispersion, Measures of dispersion, Range, Quartile deviation, Mean deviation, Standard deviation and root mean square deviation, Relation between σ and s , Different formulae for calculating variance, Variance of the combined series, Coefficient of dispersion, Coefficient of variations, Moments, Relation between moments about mean in terms of moments about any point and vice versa, Effect of change of Origin and scale on moments, Pearson's and coefficients, Skewness and kurtosis. [1]

3) Theory of Probability:

Introduction, Definition of various terms, Mathematical or Classical Probability, Statistical Probability, Axiomatic approach to probability, Random experiments, Sample space, Events, Some illustrations, Algebra of events, Probability – Mathematical Notion, Probability function, Theorems on Probability of events, Law of addition of Probability, Multiplication law of probability and conditional probability, Independent events, Pairwise independent events, Conditions for mutual independence of n events. [1]

4) Random Variables and Distribution Functions:

Random Variable, Distribution function, Properties of distribution function, Discrete random variables, Probability mass function, Discrete distribution function, Continuous random variable, Probability density function, Various measures of Central tendency, Continuous distribution function. [1]

Recommended Book:

1) S. C. Gupta and V. K. Kapoor : *Fundamentals of Mathematical Statistics* (Nineth Edition) : Sultan Chand and Sons, New Delhi.

Scope:

Ch – 2: 2.1, 2.1.1, 2.2, 2.2.1, 2.2.2, 2.3, 2.4, 2.5, 2.5.1, 2.5.1, 2.5.2, 2.5.3, 2.6, 2.6.1, 2.7, 2.7.1, 2.8, 2.8.1, 2.9, 2.9.1, 2.11.

Ch – 3: 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.7.1, 3.7.2, 3.7.3, 2.8, 2.8.1, 3.9, 3.9.1, 3.9.2, 3.10, 3.13, 3.14.

Ch – 4: 4.1, 4.3, 4.3.1, 4.3.2, 4.5, 4.5.1, 4.5.1, 4.5.2, 4.5.3, 4.5.4, 4.6, 4.6.1(omit Thm 4.1), 4.6.2, 4.7, 4.7.2, 4.7.3, 4.7.4, 4.7.5

Ch – 5: 5.1, 5.2, 5.2.1, 5.3, 5.3.1, 5.3.2, 5.4, 5.4.1, 5.4.2, 5.4.3

**B.Sc. (Third Year)(Mathematics)(Fifth Semester)
Paper – MAT 504: Ordinary Differential Equations – I**

Prerequisite: Complex numbers

Periods : 60
Marks : 50

1) Preliminaries:

Introduction, Functions, Polynomials, Complex series and the exponential function, Determinants. [1]

2) Linear Equations of First Order:

Introduction, Differential Equations, Problems associated with differential equations, Linear equations of the first order, The equation $y' + ay = 0$, The equation $y' + ay = b(x)$, The general linear equation of the first order. [1]

3) Linear Equations with Constant Coefficients:

Introduction, The second order homogeneous equation, Initial value problems for second order equations, Linear dependence and independence, A formula for Wronskian, The non-homogeneous equation of order two. [1]

Recommended Book:

- 1] Earl A. Coddington : *An Introduction to Ordinary Differential Equations* : Prentice Hall of India Learning Private Limited, New Delhi-110001, (2009)

Scope:

- Chapter 0. - Article 1, 3, 4, 5, 6
- Chapter 1. - Article 1, 2, 3, 4, 5, 6, 7
- Chapter 2. - Article 1, 2, 3, 4, 5, 6

Reference Books:

- 1) E.A.Coddington and Levinson Norman : *Theory of Ordinary Differential Equations* : McGraw Hill New York, (1955)
- 2) A.H.Siddiqi and P. Manchanda : *A First Course in Differential Equations with Applications* : Macmillan India Ltd., (2006)
- 3) D.G.Zill and M.R.Cullen : *Advanced Engineering Mathematics* (Second Edition) : Jones and Bartlett Publishers, (2000)

...

B.Sc. (Third Year)(Mathematics)(Fifth Semester)
Paper – MAT 505: Programming in C – I

Periods : 45
Marks : 40

1) Overview of C :

Introduction, Importance of c, Sample C Programs, Basic structure of C programs, programming style, Executing a C program. [1]

2) Constants, Variables and Data Types :

Introduction, Character set, C tokens, Keywords and Identifiers, Constants, variables, Data types, Declaration of Variables, Storage class Assigning values to variables, Defining symbolic constants, case studies. [1]

3) Operators and Expressions:

Introduction, Arithmetic of operators . Relational operators, Logical operators, Assignment operators, Increment and decrement operators, Conditional operators, Bitwise operators, Special operators, Arithmetic expression, Evaluation of expressions, Precedence of arithmetic operators, Some computational problems, Type conversions in expression, Operators precedence and Associativity, mathematical functions. [1]

4) Managing Input and Output Operators:

Introduction, Reading a character, Writing a character, Formatted input, Formatted output. [1]

Recommended Book :

1) E. Balagurusamy : *Programming in ANSI C* (Fourth Edition) :Tata McGraw Hill

Scope:

Ch.1 : 1.1,1.2, 1.3,1.4,1.5,1.6, 1.8 to 1.10

Ch.2 : 2.1,2.2,2.3,2.4,2.5,2.6,2.7,2.8,2.9,2.10, 2.11

Ch.3 : 3.1 to 3.16

Ch.4 : 4.1 to 4.5

References:

- 1) Y.P. Kanetkar : *Let us C* : BPB Publication
- 2) Gottfried : *Programming in C* : Schaum's Series
- 3) Moolish Koooper : *Spirit of "C"*
- 4) D. Ravichandran : *Programming in C* : New-Age International Publisher
- 5) J.B.Dixit : *Mastering C Programs*
- 6) Pradip D Y and Manas Ghosh : *Fundamentals of Computing and Programming in C*
- 7) V.Rajaraman : *Computer Programming in C* : PHI Pvt Ltd, New Delhi(2005)

B.Sc. (Third Year)(Mathematics)(Fifth Semester)
Practical Paper - MAT-PR- 505(Based on MAT 505)

Periods : 15
Marks : 10

List of Experiments/Programs:

1. Program to find Maximum between two numbers using conditional operator.
2. Program to convert Temperature in Farad into Celsius. ($C=0.5(F-32)$)
3. Program to find addition of two numbers.
4. Program to find square root of a number using *sqrt()* function.
5. Program to find m^n using *pow()* function.
6. Program to find simple interest ($SI=(p*n*r)/100$).
7. Program to find Area of Circle ($A=\pi r^2$)
8. Program to find Circumference of Rectangle ($C= 2(\text{length}+\text{breadth})$)
9. Program to find root of Quadratic Equation $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
10. Program to find Area of Rectangle ($A = w \times h$)
11. Program to find circumference of circle
12. Program to find Area of Triangle. ($A= \frac{1}{2} \times b \times h$)
13. Program to find Area of Square ($A = a^2$)
14. Program to find Area of Sphere ($A = 4 \pi r^2$)
15. Program to Find Area of Cone ($A= \pi r (r + 2+r2)$)

Note: University Practical Examination will be conducted annually.

9

B.Sc. (Third Year)(Mathematics)(Sixth Semester)
Paper – MAT 601: Real Analysis – II

Periods : 60
 Marks : 50

- 1) **Limits in Metric Spaces:**
 Metric spaces, Limits in metric spaces. [1]
- 2) **Continuous Functions on Metric Spaces:**
 Functions continuous on metric spaces, open sets, Closed sets. [1]
- 3) **Connectedness, Completeness and Compactness:**
 More about open sets, connected sets, bounded sets and totally bounded sets,
 Complete metric spaces, Compact metric spaces, Continuous functions on
 compact metric spaces, Uniform continuity. [1]
- 4) **Calculus:**
 Sets of measure zero, Definition of Riemann Integral, Existence of Riemann
 Integral, Fundamental Theorem of Calculus. [1]
- 5) **Fourier Series:**
 Introduction. [2]

Recommended books:

- 1] R. R. Goldberg : *Methods of Real Analysis* : Oxford and IBH Publishing Co. Pvt. Ltd.
 NewDelhi.

Scope:

- Chapter 4** : 4.2(A, B, C), 4.3(A, C, D).
Chapter 5 : 5.3(A, B, C, D, E, F, G, H), 5.4(A, B, C, D, E, F, G), 5.5(A, B, C, D, E, F, G,
 H, I, J, L, M).
Chapter 6 : 6.1(A, B), 6.2(A, B), 6.3(A, B, C, D, E), 6.4(A, B, C, D, E, F), 6.5 (A, B, C,
 D, E), 6.6(A, B, C, D), 6.8(A, B, C, D, E)
Chapter 7 : 7.1(A, B, C, D), 7.2(A, B, C, D, E, F, G), 7.3(Theorem and Lemma are
 without Proof), 7.4(A, B, C, D, E, F), 7.8(A, B, C, D, E, F, G)

- 2] D. Somasundaram and B. Choudhary : *A first Course in Mathematical Analysis* :
 Narosa Publishing House, New Delhi.

Scope:

Chapter 10 : Articles 10.1

References:

- 1) J. N. Sharma and A. R. Vashistha : *Real Analysis* : Krishna Prakashan Media (P), Ltd.
 Meerut.
- 2) Hari Kishan : *Real Analysis* : Pragati Prakashan, Meerut.
- 3) S. K. Mittal and S. K. Pundir : *Real Analysis* : Pragati Prakashan, Meerut.

B.Sc. (Third Year)(Mathematics)(Sixth Semester)
Paper – MAT 602: Abstract Algebra – II

Periods : 60

Marks : 50

1) Vector Spaces and Modules:

Elementary basic concepts, Linear independence and bases, Dual Spaces, Inner product spaces, Modules. [1]

Recommended books:

1) I. N. Herstein : *Topics in Algebra* : Willey Eastern Pvt. Ltd., NewDelhi.

Scope:

Chapter 4 : 4.1, 4.2, 4.3, 4.4, 4.5

References:

- 1) A. R. Vasishtha : *Modern Algebra* : Krishna Prakashan Media Pvt. Ltd. Meerut.
- 2) M. L. Khanna : *Modern Algebra* : Jni Prakash Nath and Co. Meerut.
- 3) Vijay K. Khanna and S. K. Bhambri : *A course in Abstract Algebra* : Vikas Publishing House Pvt.Ltd. New Delhi.
- 4) Surjeet Singh and Qazi Zameeruddin : *Modern Algebra* : Vikas Publishing House Pvt. Ltd. New Delhi.
- 5) Bhupendra Singh : *Advanced Abstract Algebra* : Pragati Prakashan Meerut.
- 6) Shanti Narayan and Sat Pal : *A Text book of Modern Abstract Algebra* : S. Chand and Co. Ltd. New Delhi.
- 7) P. N. Chatterjee : *Linear Algebra* : Prentice-Hall, Upper Saddle River, New Jersey 07458.
- 8) Joseph A. Gallian : *Contemporary Abstract Algebra* (Seventh Edition) : Brooks/Cole 10 Davis Drive Belmont, CA 94002 – 3098 USA.
- 9) Goyal J. K. and K. P. Gupta : *Advanced course in Abstract Algebra* : Pragati Prakashan, Meerut.
- 10) J. N. Kapoor and K. R. Kalra : *Modern Algebra* (Volume I and II): R. Chand and Co. New Delhi.
- 11) S. Nanda : *Topics in Algebra*: Allied publishers Pvt. Ltd., New Delhi.

Optional Papers (any ONE)
B.Sc. (Third Year)(Mathematics)(Sixth Semester)
Paper – MAT 603: Mathematical Statistics – II

Periods : 60

Marks : 50

1) Mathematical Expectation, Generating Functions:

Mathematical expectation, Expectation of a function of a random variable, Addition theorem of expectation, Multiplication theorem of expectation, Expectation of linear combination of random variables, Covariance, Correlation coefficient, Variance of a linear combination of random variables. [1]

2) Theoretical Discrete Probability Distributions:

Binomial distribution, moments, Recurrence relation for the moments of Binomial distribution, Moment generating function of Binomial distribution, Additive property of Binomial distribution, Cumulants of Binomial distribution, Recurrence relation for cumulants of Binomial distribution, Poisson distribution, Moments of Poisson distribution, Recurrence relation for moments of Poisson distribution, Moment generating function of Poisson distribution, cumulants of Poisson distribution, Additive property of independent Poisson variates, Geometric distribution, Lack of memory, Moment of geometric distribution, Moment generating function of Geometric distribution. [1]

3) Theoretical Continuous Distributions:

Rectangular or Uniform distribution, Moments of rectangular distribution, Moment generating function of rectangular distribution, Normal distribution, Normal distribution as a limiting case of a binomial distribution, Mode of Normal distribution, Median of Normal distribution, moment generating function of Normal distribution, Cumulant generating function of Normal distribution, moments of Normal distribution, Gamma distribution, Moment generating function of Gamma distribution, Cumulant generating function of Gamma distribution, additive property of Gamma distribution, Exponential distribution, Moment generating function of exponential distribution. [1]

4) Correlation and Regression:

Bivariate distribution, Correlation, Scatter diagram, Karl Pearson's coefficient of correlation, limits for correlation coefficient, Assumptions underlying Karl Pearson's correlation, Regression, Lines of regression, regression curves, Properties of regression coefficients, Angle between two lines of regression. [1]

Recommended Book:

1] S. C. Gupta and V. K. Kapoor : *Fundamentals of Mathematical Statistics* (Ninth Edition) : Sultan Chand and Sons, New Delhi.

Scope:

Ch - 6: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.6.1, 6.7

Ch - 7: 7.2, 7.2.1, 7.2.2, 7.2.6, 7.2.7, 7.2.9, 7.2.10, 7.3, 7.3.2, 7.3.4, 7.3.5, 7.3.7, 7.3.8, 7.5, 7.5.1, 7.5.2, 7.5.2

Ch - 8: 8.1, 8.1.1, 8.1.2, 8.2, 8.2.1, 8.2.3, 8.2.4, 8.2.5, 8.2.6, 8.2.7, 8.3, 8.3.1, 8.3.2, 8.3.3, 8.6, 8.6.1

Ch - 10: 10.1, 10.2, 10.3, 10.3.1, 10.3.2, 10.7, 10.7.1, 10.7.2, 10.7.3, 10.7.4, 10.7.5

B.Sc. (Third Year)(Mathematics)(Sixth Semester)
Paper - MAT 604: Ordinary Differential Equations - II

Periods : 60

Marks : 50

1) Linear Equations with Variable Coefficients:
Introduction, Initial value problems for the homogeneous equation, Solution of homogeneous equation, The Wronskian and linear independence, Reduction of the order of a homogeneous equation, The nonhomogeneous equation, Homogeneous equation with analytic coefficients, The Legendre equation. [1]

2) Linear Equations with Regular Singular Points:
Introduction, The Euler equation, Second order equations with regular singular points- an example, Second order equations with regular singular points- the general case, The Bessel equation. [1]

Recommended Book:

1) Earl A. Coddington : *An Introduction to Ordinary Differential Equations* : Prentice India Learning Private Limited, New Delhi-110001, (2009)

Scope:

Chapter 3.- Article 1,2,3,4,5,6,7,8

Chapter 4.- Article 1,2,3,4,7

Reference Books:

- 1) E. A. Coddington and Levinson Norman : *Theory of Ordinary Differential Equations* : McGraw Hill New York, (1955)
- 2) A.H.Siddiqi and P. Manchanda : *A First Course in Differential Equations with Applications* : Macmillan India Ltd., (2006)
- 3) D.G.Zill and M.R.Cullen : *Advanced Engineering Mathematics* (Second Edition) : Jones and Bartlett Publishers, (2000)

B.Sc. (Third Year)(Mathematics)(Sixth Semester)
Paper – MAT 605: Programming in C – II

Periods : 45
Marks : 40

1) Decision Making and Branching:

Introduction, Decision making with if statement, Simple if statement, The ifelse statement, Nesting of ifelse statement, The elseif ladder, The switch statement, The ? Operator, The goto statement [1]

2) Decision Making and Looping:

Introduction, The while statement, The do statement, The for statement, Jumps in loops [1]

3) Arrays:

Introduction, One dimensional arrays, Declaration, Initialization, Two dimensional arrays, Initializing two-dimensional arrays, Multidimensional arrays. [1]

Recommended Book :

1) E. Balagurusamy : *Programming in ANSI C* (Second Edition) : Tata McGraw Hill

Scope:

Ch – 5 : 5.1 to 5.9

Ch – 6 : 6.1 to 6.5

Ch – 7 : 7.1 to 7.7

References:

1) Y.P. Kanetkar : *Let us C* : BPB Publication

2) Gottfried : *Programming in C* : Schaum's Series

3) Moolish Kooper : *Spirit of "C"*

4) D. Ravichandran : *Programming in C* : New-Age International Publisher

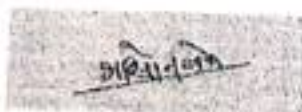
5) J.B.Dixit : *Mastering C Programs*

6) Pradip D Y and Manas Ghosh : *Fundamentals of Computing and Programming in C*

7) V.Rajaraman : *Computer Programming in C* : PHI Pvt Ltd, New Delhi(2005)

Note: (i) There should be annual practical based on Paper : MAT 505 and MAT 605 of 20 Marks in Mar/Apr Practical Examination

(ii) There should be separate passing for Theory and Practical.



Dr. B. R. Sontakke
(Chairman, Board of Studies in Mathematics)

B.Sc. (Third Year)(Mathematics)(Sixth Semester)
Practical Paper – MAT-PR 605(Based on MAT 605)

Periods : 15
Marks : 10

List of Experiments/Programs:

1. Program to find minimum between two number using if.
2. Program to Calculate factorial of n number.
3. Program to check given number is prime or not.
4. Program to check given number is Armstrong or not. ($153 = 1^3 + 5^3 + 3^3$)
5. Program to find n terms of Fibonacci Series (1 1 2 3 5 8 13 21)
6. Program to find n terms of the Series.

$$\sum_{n=1}^{\infty} \frac{1}{2^n} = \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \dots$$

7. Program to Sort any 10 Array Elements.
8. Program to Calculate Addition/Subtraction of two Matrices.
9. Program to calculate multiplication of two matrices.
10. Program to calculate Determinant of Matrix.
11. Program to Find Transpose of a Matrix.
12. Program to check given year is leap or not.
13. Program to find sum of series 1 to n.
14. Program to Calculate Grade of Student by inputting Percentage of the student.
15. Program to Check given number is palindrome or not (ex. 12321)

Note: University Practical Examination will be conducted annually.

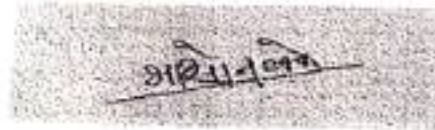
15

PRACTICAL QUESTION FORMAT

(MAT-PR-505 & 605) (20 Marks)

Max. Time : Three Hours

- Q.1. Record Book 05 Marks.
- Q.2. Oral (Viva) 05 Marks.
- Q.3. Write/Edit/Print a program in C
(Based on MAT-505 & 605) 10 Marks.
- OR
- Q.4. Write /Edit/Print a program in C
(Based on MAT-505 & 605) 10 Marks.



Dr. Bhausaheb Sontakke
Chairman,
BOS in Mathematics

डॉ. वावासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

परिपत्रक क्रमांक/एस.यु./विज्ञान/अभ्यासक्रम/७४/२०१४

या परिपत्रकाद्वारे सर्व संबंधितांना सूचित करण्यात येते की, विज्ञान विद्याशाखेने शिफारस केल्यानुसार बी. एस्सी. / एम. एस्सी. प्रथम व द्वितीय वर्षाच्या सुधारित अभ्यासक्रमास आणि बी. एस्सी. प्रथम वर्षाच्या अभ्यासक्रमात किरकोळ बदल करण्यास विद्यापरिषदेच्या बत्तीने मा. कुलगुरु यांनी, त्यांना प्राप्त असलेल्या विशेष अधिकार महाराष्ट्र विद्यापीठ अधिनियम-१९९४ कलम १४(७) अन्वये मान्यता दिलेली आहे. त्या अनुषंगाने सुधारीत तयार केलेल्या अभ्यासक्रमाची प्रत या परिपत्रकासोबत आपल्या पुढील कार्यवाहीसाठी पाठविण्यात येत आहे.

[1]	B.Sc. Physics	Semester-III & IV,
[2]	B.Sc. Chemistry	Semester-III & IV,
[3]	B.Sc. Botany	Semester-III & IV,
[4]	B.Sc. Zoology with minor changes	Semester-I & II,
[5]	B.Sc. Zoology	Semester-III & IV,
[6]	B.Sc. Fisheries	Semester-III & IV,
[7]	B.Sc. Electronics (Opt.)	Semester-III & IV,
[8]	B.A./B.Sc. Mathematics	Semester-III & IV,
[9]	B.Sc. Computer Science	Semester-I & II,
[10]	B.Sc. Information Technology	Semester-I & II,
[11]	B.C.A.	Semester-I & II,
[12]	B.Sc. Computer Science(Opt.)	Semester-I & II,
[13]	B.Sc. Information Technology(Opt.)	Semester-I & II,
[14]	B.Sc. Computer Application(Opt.)	Semester-I & II,
[15]	B.Sc. Computer Maintenance(Opt.)	Semester-I & II,
[16]	B.Sc. Biotechnology (Progressively)	Semester-I to VI,
[17]	B.Sc. Biotechnology (Opt.) (Progressively)	Semester-I to IV,
[18]	B.Sc. Sericulture Technology	Semester-I & II,
[19]	B.Sc. Networking Multimedia	Semester-III & IV,
[20]	B.Sc. Bioinformatics	Semester-I & II,
[21]	B.Sc. Hardware & Networking	Semester-I & II,
[22]	B.Sc. Animation	Semester-I & II,
[23]	B.Sc. Dairy Science & Technology	Semester-III & IV,
[24]	B.Sc. Biochemistry	Semester-III & IV,
[25]	B.Sc. Analytical Chemistry	Semester-III & IV,
[26]	B.Sc. Textile & Int. Decoration with minor changes	Semester-I & II,
[27]	B.Sc. Textile & Int. Decoration	Semester-III & IV,
[28]	B.Sc. Home Science with minor changes	Semester-I & II,
[29]	B.Sc. Home Science	Semester-III & IV,
[30]	B.Sc. Agro.Chem. & Fertilizers	Semester-III & IV,

S-29 Nov., 2013 AC after Circulars from Circular No.25 & onwards

42


: [2] :		
[31]	B.Sc. Geology	Semester-III & IV.
[32]	B.A. Statistics with minor changes	Semester-I & II.
[33]	B.A. Statistics	Semester-III & IV.
[34]	B.Sc. Statistics with minor changes	Semester-I & II.
[35]	B.Sc. Statistics	Semester-III & IV.
[36]	B.Sc. Industrial Chemistry	Semester-I & II.
[37]	B.Sc. Horticultural	Semester-III & IV.
[38]	B.Sc. Dry land Agriculture	Semester-I & II.
[39]	B.Sc. Microbiology	Semester-III & IV.
[40]	M.Sc. Computer Science	Semester-I to IV.
[41]	M.Sc. Information Technology	Semester-I to IV.

हा सुधारित व नवीन तयार केलेल्या अभ्यासक्रमाचा अंदाजे सैद्धान्तिक वर्ष 2013-14 करिता मर्यादित असेल व विद्यापरिषदेच्या अंतिम मान्यतेनंतर हे परिपत्रक नियमित देवण्याबाबत या कार्यालयाद्वारे नवीन परिपत्रक पारीत करण्यात येईल. तसेच सुधारित व नवीन तयार केलेल्या अभ्यासक्रमाची प्रत विद्यापीठाच्या संकेतस्थळावर उपलब्ध आहे.

करिता, या परिपत्रकाची सर्व संबंधितांनी नोंद घ्यावी.

विद्यापीठ प्रोग्राम,
औरंगाबाद-४३१ ००४.
संदर्भ क्र.ए.स.यु./सा.शा./सबवि /२०१३-१४/
६५९९-७०२
दिनांक :- २४-०५-२०१४.

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संचालक,
महाविद्यालये व विद्यापीठ
विकास मंडळ.

या परिपत्रकाची एक प्रत :-

- १) मा. परीक्षा नियंत्रक, परीक्षा विभाग,
 - २) मा. प्राचार्य, सर्व संलग्नीत महाविद्यालये,
 - ३) संचालक, युनिक यांना विनंती करण्यात येते की, सदरील अभ्यासक्रम विद्यापीठाच्या संकेतस्थळावर उपलब्ध करून देण्यात यावेत.
 - ४) संचालक, ई-सुविधा केंद्र, विद्यापीठ परिसर,
 - ५) जनसंपर्क अधिकारी, मुख्य प्रशासकीय इमारत,
 - ६) कक्ष अधिकारी, पात्रता विभाग, मुख्य प्रशासकीय इमारत,
 - ७) कक्ष अधिकारी, बी.ए. / बी.एससी. / बी.सी.एस./एम.एससी. विभाग, परीक्षा भवन,
 - ८) अभिलेख विभाग, मुख्य प्रशासकीय इमारती भागे,
- डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद.

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.



REVISED SYLLABUS

OF

B.A./ B.Sc. Mathematics
SECOND YEAR
[Optional]

Third & Fourth Semester

[Effective for - June, 2014-15]

Dr. Babasaheb Ambedkar University, Aurangabad

Revised Syllabus

For

B.Sc. (Second Year) MATHEMATICS

WITH EFFECT FROM JUNE – 2014

Semester Third :

- | | |
|------------------------|-----------------------|
| 1. Paper No. MAT – 301 | : Number Theory |
| 2. Paper No. MAT – 302 | : Integral Transforms |
| 3. Paper No. MAT – 303 | : Mechanics - I |

Semester Fourth :

- | | |
|------------------------|----------------------------------|
| 1. Paper No. MAT – 401 | : Numerical Methods |
| 2. Paper No. MAT – 402 | : Partial Differential Equations |
| 3. Paper No. MAT – 403 | : Mechanics - II |

B.A. (Second Year) MATHEMATICS

WITH EFFECT FROM JUNE – 2014

Semester Third :

- | | |
|------------------------|-----------------------|
| 1. Paper No. MAT – 301 | : Number Theory |
| 2. Paper No. MAT – 302 | : Integral Transforms |

Semester Fourth :

- | | |
|------------------------|----------------------------------|
| 1. Paper No. MAT – 401 | : Numerical Methods |
| 2. Paper No. MAT – 402 | : Partial Differential Equations |

(With Effect from June - 2014)

B. A. & B.Sc. (Second Year)(Third Semester)(Mathematics)
Paper No. MAT - 301: (Number Theory) (Max. Marks : 50)

1. Divisibility Theory in the Integers:

The Division Algorithm, The greatest common divisor, The Euclidean algorithm, The Diophantine equation $ax + by = c$.

2. Primes and their Distribution:

The Fundamental Theorem of Arithmetic

3. The Theory of Congruences:

Basic Properties of congruences, Linear congruences

4. Fermat's Theorem:

Fermat's Factorization Theorem, The little Theorem, Wilson's Theorem.

5. Number-Theoretic Functions:

The functions τ and σ , The Mobius inversion formula

6. Euler's Generalization of Fermat's Theorem:

Euler's Phi-function, Euler's Theorem, Some properties of Phi function

Recommended Text Book:

David M. Burton: Elementary Number Theory: (Second Edition) – 1987

Scope: Ch. (2) : Complete

Ch. (3) : Article 3.1

Ch. (4) : Articles 4.2, 4.4

Ch. (5) : Articles 5.2, 5.3, 5.4

Ch. (6) : Articles 6.1, 6.2, 6.3

Ch. (7) : Articles 7.2, 7.3

References:

- 1) Ivan Niven, Herbert Zuckerman: *An introduction to the theory of Numbers*: Wiley Eastern Ltd. New Delhi.
- 2) S. G. Telang: *Number theory*: Tata McGraw Hills, New Delhi.
- 3) C. Y. Hsiung: *Elementary theory of Numbers*: Allied publishers Ltd, New Delhi.
- 4) S. B. Malik: *Basic Number Theory*:
- 5) Hari Kishan: *Theory of Numbers*: Krishna Prakshan Meerut.
- 6) Ajay Chaudhari: *Introduction to theory of Numbers*: New Central book Agency(P) Ltd. Calcutta.
- 7) Ivan Niven, Herbert Zuckerman H. L. Montgomery: *An introduction to the theory of Numbers*: John Wiley and Sons New Delhi.
- 8) Pundir, Pundir: *Theory of Numbers* Pragati Prakashan Meerut.
- 9) G. E. Andrews: *Number Theory*: Hindustan Publishing Corporation, New Delhi.

B. A. & B.Sc. (Second Year)(Third Semester)(Mathematics)
Paper No. MAT – 302: (Integral Transforms) (Max. Marks : 50)

1. Beta and Gamma Functions:

Euler's Integrals - Beta and Gamma functions, Elementary properties of Gamma Function, Transformation of Gamma Function, Another form of Beta Function, Relation between beta and Gamma functions, Other Transformations. [1]

2. Laplace Transform:

Piece-wise or sectional continuity, function of exponential order, Function of class A , The transform concept, Laplace Transform, Notation, Some Standard results. [2]

3. Inverse Laplace Transform:

Definition, Null function, Uniqueness of inverse Laplace transform, partial fractions, Heaviside's expansion formula, the complex inversion formula

4. Applications to Differential Equations:

Differential Equation, Notations (Problems related to Ordinary Differential Equations only) [2]

5. Fourier Transform:

Infinite Fourier sine transform of $F(x)$, Finite Fourier cosine transform of $F(x)$, Infinite Fourier transform of $F(x)$, Relationship between Fourier transform and Laplace transform, Finite Fourier sine transform, Finite Fourier cosine transform, Fourier Integral Theorem [2]

Recommended Text Books:

1. J. N. Sharma, A. R. Vasishtha : *Real Analysis* : Krishna Prakashan media Pvt. Ltd. Meerut.

Scope : Ch. (14) : Art. 9, 10, 11, 12, 13, 14, 15, 16, 17

2. J. K. Goyal, K. P. Gupta : *Laplace And Fourier Transforms* : Pragati Prakashan, Meerut – Twentieth Edition 2007

Scope: Ch. (1) : Part – I : 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.5, 1.6,

Part – II : 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.5

Part – III : 1.0, 1.1.

Ch. (2) : Part – I : 2.0, 2.1, 2.2, 2.3,

Part- II : 2.0, 2.1

References:

1. B.J.Boerends, etl : *Fourier and Laplace Transforms* : Cambridge University Press – 2003.

2. Lokenath Bebnath, Dambaru Bhatta : *Integral Transforms and their Applications* : Chapman and Hall/CRC-2007.

3. E.J.Watson : *Laplace Transforms and Applications* : Van Nostrand Reinhold Company.

4. J. Williams : *Laplace Transforms* : George Allen and Unwin Ltd, London -1973.

5. Joe L. Schiff : *The Laplace Transform: Theory and Applications* : Springer-Verlag New York – 1999.

6. M.D.Raisinghani : *Integral Transforms* : S.chand and Company, New Delhi.

7. M.D.Raisinghani : *Laplace and Fourier Transforms* : S.chand and Company, New Delhi.

8. Goyal, Gupta : *Integral Transforms*: Pragati Prakashan Meerut.

B.Sc. (Second Year) (Third Semester)(Mathematics)

Paper No. MAT – 303 : (MECHANICS – I)

(Max. Marks : 50)

1. Forces acting on a Particle:

Particle, Rigid body, Force, The force as a vector, Equilibrium, An axiom for equilibrium of two forces, Statics, Resultant of forces, Law of parallelogram of forces, Principle of the transmissibility of force, Deductions, Resultant of forces $m \cdot \vec{OA}$ and $n \cdot \vec{OB}$, Components and Resolved parts, the algebraic sum of resolved parts of two forces, To find the magnitude and direction of the resultant of any number of coplanar forces acting at a point, Resultant of parallel forces.

2. Equilibrium of Forces acting on a Particle:

Triangle law of forces, Converse of the triangle law of forces, Polygon of forces, Lami's theorem, Conditions of equilibrium of forces acting on a particle.

3. Forces acting on a Rigid Body:

Introduction, Moment of a force, Sum of vector moments of two like parallel forces, Couples, Conditions of equilibrium of forces acting on a rigid body, Trigonometrical Theorems.

4. Centre of Gravity:

Centroid of weighted points, Centre of gravity, Centre of gravity of some uniform bodies.

Recommended Text Book:

V. Tulsani, T. V. Warhekar and N. N. Saste : *Mechanics and Differential Geometry*: S. Chand and Co. (Pvt) Ltd, New Delhi (Second Edition) – 1987

Scope: Part (I): Statics

Ch. (1) : Complete

Ch. (2) : Complete

Ch. (3) : Complete

Ch. (4) : Articles 4.1 to 4.7

References :

1. B. R. Thakur, G. P. Shrivastava : *Mechanics* : Ram Prasad and Sons, Agra – 3.

2. M. L. Khanna : *Dynamics* : Kedarnath Ramnath Prakashan, Meerut.

3. S. L. Loney : *An Elementary Treatise on Statics* : A. I. T. B. S. Publishers and Distributors, New Delhi.

B. A. & B. Sc. (Second Year)(Fourth Semester)(Mathematics)
Paper No. MAT – 401: (Numerical Methods) (Max. Marks : 50)

1. Solution of Algebraic and Transcendental Equations:

Introduction, Bisection method, Method of false position, Newton-Raphson method, Generalized Newton's method.

2. Interpolation:

Introduction, Finite differences, Forward differences, Backward differences, Central differences, Symbolic relations and separation of symbols, Differences of a polynomial, Newton's formulae for interpolation, Interpolation with unevenly spaced points, Lagrange's interpolation formula, Hermite's interpolation formula, Divided differences and their properties, Newton's general interpolation formula.

3. Curve Fitting and Approximations:

Introduction, Least-Squares curve fitting procedures, fitting a straight line, nonlinear curve fitting, Approximations of functions, Chebyshev polynomials, Economization of power series.

4. Solution of Linear System of Equations:

Solution of Linear Systems-direct methods, Gaussian elimination method, Method of factorization, Solution of Linear Systems-iterative methods, The Eigenvalue problem, Householder's method, Eigenvalues of a symmetric tridiagonal matrix, The QR method

5. Numerical Solution of Ordinary Differential Equations:

Introduction, Solution by Taylor's series method, Picard's method of successive approximations, Euler's method, Runge Kutta methods

Recommended Text Book:

S. S. Sastry : Introductory Methods of Numerical Methods : Third Edition, Prentice Hall India, New Delhi.

Scope:

Chapter 2: Articles 2.1, 2.2, 2.4, 2.5, 2.5.1

Chapter 3: Articles 3.1, 3.3, 3.3.1 to 3.3.4, 3.5, 3.6, 3.9, 3.9.1, 3.9.3, 3.11, 3.11.1

Chapter 4: Articles 4.1, 4.2, 4.2.1, 4.2.2, 4.6, 4.6.1, 4.6.2

Chapter 6: Articles 6.3, 6.3.2, 6.3.4, 6.4, 6.5, 6.5.1 to 6.5.3

Chapter 7: Articles 7.1, 7.2, 7.3, 7.4, 7.5

Reference Books:

1). H.C.Saxena: Finite Differences and Numerical Analysis, S.Chand and Co.Pvt. Ltd, New Delhi

2). M.K.Jain, S.R.K. Iyengar, R.K.Jain: Numerical Methods for Scientific and Engineering Computation, New Age International Publishers, New Delhi.

B. A. & B. Sc. (Second Year)(Fourth Semester)(Mathematics)
Paper No. MAT - 402: (Partial Differential Equations) (Max. Marks : 50)

1. Prerequisites:

Derivation of a Partial Differential Equation by the elimination of arbitrary constants, Derivation of a Partial Differential Equation by the elimination of arbitrary functions,

2. Partial Differential Equations of Order One (Linear Equations) :

Definition of Partial Differential Equations, Lagrange's Linear Partial Differential Equation, Geometrical interpretation of the Lagrange's Linear Partial Differential Equation $Pp + Qq = R$.

3. Non-linear Partial Differential Equations of Order One:

Complete and Particular Integrals, General Integral, Singular Integral, Special method, Standard form I, Standard form II, Standard form III, Standard form IV, Charpit's method, Non-linear Partial Differential Equations of order one with three or more independent variables, Jacobi's method.

4. Linear Partial Differential Equations:

Definitions, Linear Homogeneous Partial Differential Equations with constant coefficients, Non-Homogeneous Linear Partial Differential Equations, Equations reducible to Linear form with constant coefficients.

5: Partial Differential Equations of Second Order:

Equations that can be integrated by inspection, Monge's method to solve the equation $Rr + Ss + Tt = V$, Method of Transformations (Canonical Forms)

Recommended Text Book:

P.P. Gupta, G.S.Malk, S.K.Mittal : Partial Differential Equations (Second Revised Edition - 2003) Pragati Prakashan, Meerut, ISBN-81-7556-518-7

Note: Questions on Prerequisite may not be asked

- Scope:
- Chapter 4: Articles 4.1, 4.4-4.5
 - Chapter 5: Complete Chapter (5.1-5.10)
 - Chapter 6: Articles 6.1- 6.4
 - Chapter 7: Articles 7.1, 7.2, 7.3, 7.5, 7.6

Reference Books:

- 1. H.K.Dass : *Advanced Engineering Mathematics* : S. Chand and Co. Ltd, New Delhi.
- 2. N. Ch. S. N. Iyengar : *Differential Equations* : Anmol Publications Pvt. Ltd, New Delhi.
- 3. M. L. Khanna : *Partial Differential Equations* : Kedar Nath and Ram Nath Prakashan, Meerut.

B.Sc. (Second Year)(Fourth Semester)(Mathematics)
Paper No. MAT – 403 : (Mechanics – II) (Max. Marks : 50)

1. Kinematics and Dynamics of a Particle in Two Dimensions:
Introduction, Definitions, Velocity and acceleration in terms of vector derivatives, Tangent and unit vector along the tangent, Rate of change of unit vector moving in a plane, Curvature principal normal, Tangential and normal components of velocity and acceleration, Angular speed and angular velocity, Radial and transverse components of velocity and acceleration, Areal speed and areal velocity.

2. Kinetics of a Particle:
Introduction, Newton's law of motion, Matter, Linear momentum, Angular momentum, An Impulsive force and its impulse, Conservation of linear momentum, Impact of two bodies, Work, Energy, Scalar point function, Vector point function, Field of force, Conservative field of force.

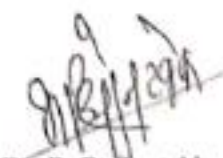
3. Motion of a Projectile and Motion in a Resisting Medium:
Rectilinear Motion, Motion under gravity, Projectile, Motion of projectile, Range on an inclined plane, Parabola of Safety, Projectile to pass through a given point, Motion in a resisting medium, Motion of a body moving under gravity and in a medium whose resistance varies as velocity.

4. Central Orbits:
Definitions, Areal velocity in Central Orbit, Differential equation of central orbit, Apses, Law of Force, Pedal equation of some curves

Recommended Text Book:
V. Tulsani, T. V. Warhekar and N. N. Saste : Mechanics and Differential Geometry:
S. Chand and Co. (Pvt) Ltd, New Delhi (Second Edition) – 1987

- Scope: Part (I): Dynamics of a Particle**
Ch. (1) : Complete
Ch. (2) : Complete
Ch. (3) : Complete
Ch. (4) : Articles 4.01 to 4.10

References :
1. B. R. Thakur, G. P. Shrivastava : *Mechanics* ; Ram Prasad and Sons, Agra – 3.
2. M. L. Khanna : *Statics* ; Kedarnath Ramnath Prakashan, Meerut.
3. S. L. Loney : *An Elementary Treatise on Dynamics of a particle and of Rigid Bodies* ; A. I. T. B. S. Publishers and Distributors, New Delhi.


Dr. B. R. Sontakke
Chairman,
B. O. S. in Mathematics

श्री. बाबासाहेब आंबेडकर महाराष्ट्र विद्यापीठ, औरंगाबाद

परिपत्रक क्रमांक/एस.यू./विज्ञान/अभ्यासक्रम/७४/२०१४

या परिपत्रकाद्वारे सर्व संबंधिताना सुचित करण्यात येते की, विज्ञान विद्याशाखेने शिफारस केलेल्यानुसार बी. एससी. / एम. एससी. प्रथम व द्वितीय वर्षाच्या सुधारित अभ्यासक्रमास आणि बी. एससी. प्रथम वर्षाच्या अभ्यासक्रमात किफकोड बदल करण्यास विद्यापरिषदेच्या बलीने मा. कुलगुरु यांनी, त्यांना प्राप्त असलेल्या विशेष अधिकार महाराष्ट्र विद्यापीठ अधिनियम-१९९४ कलम १४(७) अन्वये मान्यता दिलेली आहे. त्या अनुषंगाने सुधारित तयार केलेल्या अभ्यासक्रमाची प्रत या परिपत्रकासोबत आपल्या पुढील कार्यवाहीसाठी पाठविण्यात येत आहे.

[1]	B.Sc. Physics	Semester-III & IV,
[2]	B.Sc. Chemistry	Semester-III & IV,
[3]	B.Sc. Botany	Semester-III & IV,
[4]	B.Sc. Zoology with minor changes	Semester-I & II,
[5]	B.Sc. Zoology	Semester-III & IV,
[6]	B.Sc. Fisheries	Semester-III & IV,
[7]	B.Sc. Electronics (Opt.)	Semester-III & IV,
[8]	B.A./B.Sc. Mathematics	Semester-III & IV,
[9]	B.Sc. Computer Science	Semester-I & II,
[10]	B.Sc. Information Technology	Semester-I & II,
[11]	B.C.A.	Semester-I & II,
[12]	B.Sc. Computer Science(Opt.)	Semester-I & II,
[13]	B.Sc. Information Technology(Opt.)	Semester-I & II,
[14]	B.Sc. Computer Application(Opt.)	Semester-I & II,
[15]	B.Sc. Computer Maintenance(Opt.)	Semester-I & II,
[16]	B.Sc. Biotechnology (Progressively)	Semester-I to VI,
[17]	B.Sc. Biotechnology (Opt.) (Progressively)	Semester-I to IV,
[18]	B.Sc. Sericulture Technology	Semester-I & II,
[19]	B.Sc. Networking Multimedia	Semester-III & IV,
[20]	B.Sc. Bioinformatics	Semester-I & II,
[21]	B.Sc. Hardware & Networking	Semester-I & II,
[22]	B.Sc. Animation	Semester-I & II,
[23]	B.Sc. Dairy Science & Technology	Semester-III & IV,
[24]	B.Sc. Biochemistry	Semester-III & IV,
[25]	B.Sc. Analytical Chemistry	Semester-III & IV,
[26]	B.Sc. Textile & Int. Decoration with minor changes	Semester-I & II,
[27]	B.Sc. Textile & Int. Decoration	Semester-III & IV,
[28]	B.Sc. Home Science with minor changes	Semester-I & II,
[29]	B.Sc. Home Science	Semester-III & IV,
[30]	B.Sc. Agro.Chem. & Fertilizers	Semester-III & IV,

S-29 Nov., 2013 AC after Circulars from Circular No.55 & onwards

- 42 -

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[31]	B.Sc. Geology	Semester-III & IV,
[32]	B.A. Statistics with minor changes	Semester-I & II,
[33]	B.A. Statistics	Semester-III & IV,
[34]	B.Sc. Statistics with minor changes	Semester-I & II,
[35]	B.Sc. Statistics	Semester-III & IV,
[36]	B.Sc. Industrial Chemistry	Semester-III & IV,
[37]	B.Sc. Horticultural	Semester-I & II,
[38]	B.Sc. Dry land Agriculture	Semester-I & II,
[39]	B.Sc. Microbiology	Semester-III & IV,
[40]	M.Sc. Computer Science	Semester-I to IV,
[41]	M.Sc. Information Technology	Semester-I to IV.

हा सुधारीत व नवीन तयार केलेल्या अभ्यासक्रमाचा आराखडा शैक्षणिक वर्ष २०१४-१५ करिता मर्यादित असेल व विद्यापरिषदेच्या अंतिम मान्यतेनंतर हे परिपत्रक नियमित ठेवण्याबाबत या कार्यालयाद्वारे नवीन परिपत्रक पारीत करण्यात येईल. तसेच सुधारीत व नवीन तयार केलेल्या अभ्यासक्रमाची प्रत विद्यापीठाच्या संकेतस्थळावर उपलब्ध आहे.

करिता, या परिपत्रकाची सर्व संबंधितांनी नोंद घ्यावी.

विद्यापीठ प्रांगण,
औरंगाबाद-४३१ ००४.
संदर्भ क्र.एस.यु./सा.शा./सववि /२०१३-१४/
६५९९-७०२
दिनांक :- २७-०५-२०१४.

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संचालक,
महाविद्यालये व विद्यापीठ
विकास मंडळ.

या परिपत्रकाची एक प्रत :-

- १) मा. परिक्षा नियंत्रक, परिक्षा विभाग,
 - २) मा. प्राचार्य, सर्व संलग्नीत महाविद्यालये,
 - ३) संचालक, युनिक यांना विनंती करण्यात येते की, सदरील अभ्यासक्रम विद्यापीठाच्या संकेतस्थळावर उपलब्ध करून देण्यात यावेत.
 - ४) संचालक, ई-सुविधा केंद्र, विद्यापीठ परिसर,
 - ५) जनसंपर्क अधिकारी, मुख्य प्रशासकीय इमारत,
 - ६) कक्ष अधिकारी, पात्रता विभाग, मुख्य प्रशासकीय इमारत,
 - ७) कक्ष अधिकारी, बी.ए. / बी.एससी. / बी.सी.एस./एम.एससी. विभाग, परीक्षा भवन,
 - ८) अभिलेख विभाग, मुख्य प्रशासकीय इमारती मागे.
- डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद.

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.



REVISED SYLLABUS

OF

B.A./ B.Sc. Mathematics
SECOND YEAR
[Optional]

Third & Fourth Semester

[Effective for - June, 2014-15]

Dr. Babasaheb Ambedkar University, Aurangabad

Revised Syllabus

For

B.Sc. (Second Year) MATHEMATICS

WITH EFFECT FROM JUNE - 2014

Semester Third :

- | | |
|------------------------|-----------------------|
| 1. Paper No. MAT - 301 | : Number Theory |
| 2. Paper No. MAT - 302 | : Integral Transforms |
| 3. Paper No. MAT - 303 | : Mechanics - I |

Semester Fourth :

- | | |
|------------------------|----------------------------------|
| 1. Paper No. MAT - 401 | : Numerical Methods |
| 2. Paper No. MAT - 402 | : Partial Differential Equations |
| 3. Paper No. MAT - 403 | : Mechanics - II |

B.A. (Second Year) MATHEMATICS

WITH EFFECT FROM JUNE - 2014

Semester Third :

- | | |
|------------------------|-----------------------|
| 1. Paper No. MAT - 301 | : Number Theory |
| 2. Paper No. MAT - 302 | : Integral Transforms |

Semester Fourth :

- | | |
|------------------------|----------------------------------|
| 1. Paper No. MAT - 401 | : Numerical Methods |
| 2. Paper No. MAT - 402 | : Partial Differential Equations |

(With Effect from June - 2014)

B. A. & B.Sc. (Second Year)(Third Semester)(Mathematics)
Paper No. MAT – 301: (Number Theory) (Max. Marks : 50)

1. Divisibility Theory in the Integers:

The Division Algorithm, The greatest common divisor, The Euclidean algorithm, The Diophantine equation $ax + by = c$.

2. Primes and their Distribution:

The Fundamental Theorem of Arithmetic

3. The Theory of Congruences:

Basic Properties of congruences, Linear congruences

4. Fermat's Theorem:

Fermat's Factorization Theorem, The little Theorem, Wilson's Theorem.

5. Number-Theoretic Functions:

The functions τ and σ , The Mobius inversion formula

6. Euler's Generalization of Fermat's Theorem:

Euler's Phi-function, Euler's Theorem, Some properties of Phi function

Recommended Text Book:

David M. Burton: Elementary Number Theory: (Second Edition) – 1987

Scope: Ch. (2) : Complete

Ch. (3) : Article 3.1

Ch. (4) : Articles 4.2, 4.4

Ch. (5) : Articles 5.2, 5.3, 5.4

Ch. (6) : Articles 6.1, 6.2, 6.3

Ch. (7) : Articles 7.2, 7.3

References:

- 1) Ivan Niven, Herbert Zuckerman: *An Introduction to the theory of Numbers*: Wiley Eastern Ltd. New Delhi.
- 2) S. G. Telang: *Number theory*: Tata McGraw Hills, New Delhi.
- 3) C. Y. Hsiung: *Elementary theory of Numbers*: Allied publishers Ltd, New Delhi.
- 4) S. B. Malik: *Basic Number Theory*:
- 5) Hari Kishan: *Theory of Numbers*: Krishna Prakshan Meerut.
- 6) Ajay Chaudhari: *Introduction to theory of Numbers*: New Central book Agency(P) Ltd. Calcutta.
- 7) Ivan Niven, Herbert Zuckerman H. L. Montgomery: *An introduction to the theory of Numbers*: John Wiley and Sons New Delhi.
- 8) Pundir, Pundir: *Theory of Numbers* Pragati Prakashan Meerut.
- 9) G. E. Andrews: *Number Theory*: Hindustan Publishing Corporation, New Delhi.

B. A. & B.Sc. (Second Year)(Third Semester)(Mathematics)
Paper No. MAT – 302: (Integral Transforms) (Max. Marks : 50)

1. Beta and Gamma Functions:

Euler's Integrals - Beta and Gamma functions, Elementary properties of Gamma Function, Transformation of Gamma Function, Another form of Beta Function, Relation between beta and Gamma functions, Other Transformations. [1]

2. Laplace Transform:

Piece-wise or sectional continuity, function of exponential order, Function of class A , The transform concept, Laplace Transform, Notation, Some Standard results. [2]

3. Inverse Laplace Transform:

Definition, Null function, Uniqueness of inverse Laplace transform, partial fractions, Heaviside's expansion formula, the complex inversion formula

4. Applications to Differential Equations:

Differential Equation, Notations (Problems related to Ordinary Differential Equations only) [2]

5. Fourier Transform:

Infinite Fourier sine transform of $F(x)$, Finite Fourier cosine transform of $F(x)$, Infinite Fourier transform of $F(x)$, Relationship between Fourier transform and Laplace transform, Finite Fourier sine transform, Finite Fourier cosine transform, Fourier Integral Theorem [2]

Recommended Text Books:

1. J. N. Sharma, A. R. Vasishtha : *Real Analysis* : Krishna Prakashan media Pvt. Ltd. Meerut.

Scope : Ch. (14) : Art. 9, 10, 11, 12, 13, 14, 15, 16, 17

2. J. K. Goyal, K. P. Gupta : *Laplace And Fourier Transforms* : Pragati Prakashan, Meerut – Twentieth Edition 2007

Scope: Ch. (1) : Part – I : 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.5, 1.6,

Part – II : 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.5

Part – III : 1.0, 1.1.

Ch. (2) : Part – I : 2.0, 2.1, 2.2, 2.3,

Part- II : 2.0, 2.1

References:

1. B.J.Beerends, etl : *Fourier and Laplace Transforms* : Cambridge University Press – 2003.

2. Lokenath Bebnath, Dambaru Bhatta : *Integral Transforms and their Applications* : Chapman and Hall/CRC-2007.

3. E.J.Watson : *Laplace Transforms and Applications* : Van Nostrand Reinhold Company.

4. J. Williams : *Laplace Transforms* : George Allen and Unwin Ltd, London -1973.

5. Joe L. Schiff : *The Laplace Transform: Theory and Applications* : Springer-Verlag New York – 1999.

6. M.D.Raisinghania : *Integral Transforms* : S.chand and Company, New Delhi.

7. M.D.Raisinghania : *Laplace and Fourier Transforms* : S.chand and Company, New Delhi.

8. Goyal, Gupta: *Integral Transforms*: Pragati Prakashan Meerut.

B.Sc. (Second Year) (Third Semester)(Mathematics)
Paper No. MAT – 303 : (MECHANICS – I) (Max. Marks : 50)

1. Forces acting on a Particle:

Particle, Rigid body, Force, The force as a vector, Equilibrium, An axiom for equilibrium of two forces, Statics, Resultant of forces, Law of parallelogram of forces, Principle of the transmissibility of force, Deductions, Resultant of forces $m \cdot \vec{OA}$ and $n \cdot \vec{OB}$, Components and Resolved parts, the algebraic sum of resolved parts of two forces, To find the magnitude and direction of the resultant of any number of coplanar forces acting at a point, Resultant of parallel forces.

2. Equilibrium of Forces acting on a Particle:

Triangle law of forces, Converse of the triangle law of forces, Polygon of forces, Lami's theorem, Conditions of equilibrium of forces acting on a particle.

3. Forces acting on a Rigid Body:

Introduction, Moment of a force, Sum of vector moments of two like parallel forces, Couples, Conditions of equilibrium of forces acting on a rigid body, Trigonometrical Theorems.

4. Centre of Gravity:

Centroid of weighted points, Centre of gravity, Centre of gravity of some uniform bodies.

Recommended Text Book:

V. Tulsani, T. V. Warhekar and N. N. Saste : Mechanics and Differential Geometry:
S. Chand and Co. (Pvt) Ltd, New Delhi (Second Edition) – 1987

Scope: Part (I): Statics

Ch. (1) : Complete

Ch. (2) : Complete

Ch. (3) : Complete

Ch. (4) : Articles 4.1 to 4.7

References :

1. B. R. Thakur, G. P. Shrivastava : *Mechanics* : Ram Prasad and Sons, Agra – 3.
2. M. L. Khanna : *Dynamics* : Kedarnath Ramnath Prakashan, Meerut.
3. S. L. Loney : *An Elementary Treatise on Statics* : A. I. T. B. S. Publishers and Distributors, New Delhi.

B. A. & B. Sc. (Second Year)(Fourth Semester)(Mathematics)
Paper No. MAT – 401: (Numerical Methods) (Max. Marks : 50)

1. Solution of Algebraic and Transcendental Equations:

Introduction, Bisection method, Method of false position, Newton-Raphson method, Generalized Newton's method.

2. Interpolation:

Introduction, Finite differences, Forward differences, Backward differences, Central differences, Symbolic relations and separation of symbols, Differences of a polynomial, Newton's formulae for interpolation, Interpolation with unevenly spaced points, Lagrange's interpolation formula, Hermite's interpolation formula, Divided differences and their properties, Newton's general interpolation formula.

3. Curve Fitting and Approximations:

Introduction, Least-Squares curve fitting procedures, fitting a straight line, nonlinear curve fitting, Approximations of functions, Chebyshev polynomials, Economization of power series.

4. Solution of Linear System of Equations:

Solution of Linear Systems-direct methods, Gaussian elimination method, Method of factorization, Solution of Linear Systems-iterative methods, The Eigenvalue problem, Householder's method, Eigenvalues of a symmetric tridiagonal matrix, The QR method

5. Numerical Solution of Ordinary Differential Equations:

Introduction, Solution by Taylor's series method, Picard's method of successive approximations, Euler's method, Runge Kutta methods

Recommended Text Book:

S. S. Sastry : Introductory Methods of Numerical Methods : Third Edition, Prentice Hall India, New Delhi.

Scope:

Chapter 2: Articles 2.1, 2.2, 2.4, 2.5, 2.5.1

Chapter 3: Articles 3.1, 3.3, 3.3.1 to 3.3.4, 3.5, 3.6, 3.9, 3.9.1, 3.9.3, 3.11, 3.11.1

Chapter 4: Articles 4.1, 4.2, 4.2.1, 4.2.2, 4.6, 4.6.1, 4.6.2

Chapter 6: Articles 6.3, 6.3.2, 6.3.4, 6.4, 6.5, 6.5.1 to 6.5.3

Chapter 7: Articles 7.1, 7.2, 7.3, 7.4, 7.5

Reference Books:

1). H.C.Saxena: Finite Differences and Numerical Analysis, S.Chand and Co.Pvt. Ltd, New Delhi

2). M.K.Jain, S.R.K. Iyengar, R.K.Jain: Numerical Methods for Scientific and Engineering Computation, New Age International Publishers, New Delhi.

B. A. & B. Sc. (Second Year)(Fourth Semester)(Mathematics)
Paper No. MAT – 402: (Partial Differential Equations) (Max. Marks : 50)

1. Prerequisites:

Derivation of a Partial Differential Equation by the elimination of arbitrary constants, Derivation of a Partial Differential Equation by the elimination of arbitrary functions,

2. Partial Differential Equations of Order One (Linear Equations) :

Definition of Partial Differential Equations, Lagrange's Linear Partial Differential Equation, Geometrical interpretation of the Lagrange's Linear Partial Differential Equation $Pp + Qq = R$.

3. Non-linear Partial Differential Equations of Order One:

Complete and Particular Integrals, General Integral, Singular Integral, Special method, Standard form I, Standard form II, Standard form III, Standard form IV, Charpit's method, Non-linear Partial Differential Equations of order one with three or more independent variables, Jacobi's method.

4. Linear Partial Differential Equations:

Definitions, Linear Homogeneous Partial Differential Equations with constant coefficients, Non-Homogeneous Linear Partial Differential Equations, Equations reducible to Linear form with constant coefficients.

5: Partial Differential Equations of Second Order:

Equations that can be integrated by inspection, Monge's method to solve the equation $Rr + Ss + Tt = V$, Method of Transformations (Canonical Forms)

Recommended Text Book:

P.P. Gupta, G.S.Malik, S.K.Mittal : Partial Differential Equations (Second Revised Edition – 2003) Pragati Prakashan, Meerut, ISBN-81-7556-518-7

Note: Questions on Prerequisite may not be asked

Scope:

- Chapter 4: Articles 4.1, 4.4-4.5
- Chapter 5: Complete Chapter (5.1-5.10)
- Chapter 6: Articles 6.1- 6.4
- Chapter 7: Articles 7.1, 7.2, 7.3, 7.5, 7.6

Reference Books:

- 1. H.K.Dass : *Advanced Engineering Mathematics* : S. Chand and Co. Ltd, New Delhi.
- 2. N. Ch. S. N. Iyengar : *Differential Equations* : Anmol Publications Pvt. Ltd, New Delhi.
- 3. M. L. Khanna : *Partial Differential Equations* : Kedarnath and Ramnath Prakashan, Meerut.

B.Sc. (Second Year)(Fourth Semester)(Mathematics)
Paper No. MAT – 403 : (Mechanics – II) (Max. Marks : 50)

1. Kinematics and Dynamics of a Particle in Two Dimensions:

Introduction, Definitions, Velocity and acceleration in terms of vector derivatives, Tangent and unit vector along the tangent, Rate of change of unit vector moving in a plane, Curvature principal normal, Tangential and normal components of velocity and acceleration, Angular speed and angular velocity, Radial and transverse components of velocity and acceleration, Areal speed and areal velocity.

2. Kinetics of a Particle:

Introduction, Newton's law of motion, Matter, Linear momentum, Angular momentum, An Impulsive force and its impulse, Conservation of linear momentum, Impact of two bodies, Work, Energy, Scalar point function, Vector point function, Field of force, Conservative field of force.

3. Motion of a Projectile and Motion in a Resisting Medium:

Rectilinear Motion, Motion under gravity, Projectile, Motion of projectile, Range on an inclined plane, Parabola of Safety, Projectile to pass through a given point, Motion in a resisting medium, Motion of a body moving under gravity and in a medium whose resistance varies as velocity.

4. Central Orbits:

Definitions, Areal velocity in Central Orbit, Differential equation of central orbit, Apses, Law of Force, Pedal equation of some curves

Recommended Text Book:


V. Tulsani, T. V. Warhekar and N. N. Saste : Mechanics and Differential Geometry;
S. Chand and Co. (Pvt) Ltd, New Delhi (Second Edition) – 1987

Scope: Part (I): Dynamics of a Particle

- Ch. (1) : Complete
- Ch. (2) : Complete
- Ch. (3) : Complete
- Ch. (4) : Articles 4.01 to 4.10

References :

- 1. B. R. Thakur, G. P. Shrivastava : *Mechanics* : Ram Prasad and Sons, Agra – 3.
- 2. M. L. Khanna : *Statics* : Kedarnath Ramnath Prakshnan, Meerut.
- 3. S. L. Loney : *An Elementary Treatise on Dynamics of a particle and of Rigid Bodies* : A. L. T. B. S. Publishers and Distributors, New Delhi.


Dr. B. R. Sontakke
Chairman,
B. O. S. in Mathematics

B-30th May, 2015 AC after Circulare from Circular No. 1 & onwards

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY**CIRCULAR NO.ACAD/SU/Sci./B.Sc. & M.Sc. Syll./5/2015**

It is hereby notified for information to all the concerned that, on the recommendation of the Faculty of Science the Academic Council at its meeting held on 30-05-2015 has accepted the revised semester wise syllabi as mentioned against their names in the Faculty of Science as under :-

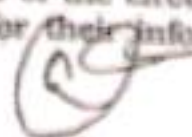
Sr. No.	Name of the Subject	Semester
[1]	B.Sc. Computer Science Degree Course	III & IV
[2]	B.Sc. Information Technology Degree Course	III & IV
[3]	B.C.A. Science Degree Course	III & IV
[4]	B.Sc. Animation Degree Course	III & IV
[5]	B.Sc. Bioinformatics Degree Course	III & IV
[6]	B.Sc. Computer Science [Optional]	III & IV
[7]	B.Sc. Information Technology [Optional]	III & IV
[8]	B.Sc. Computer Applications [Optional]	III & IV
[9]	B.Sc. Computer Maintenance [Optional]	III & IV
[10]	B.Sc. Environmental Science [Optional]	V & VI
[11]	B.Sc. Bio-Chemistry [Optional]	V & VI
[12]	B.Sc. Forensic Science Degree Course	V & VI
[13]	B.Sc. Industrial Chemistry [Optional]	V & VI
[14]	B.Sc. Electronics [Optional]	V & VI
[15]	B.Sc. Zoology [Optional]	V & VI
[16]	B.Sc. Microbiology [Optional]	V & VI
[17]	B.Sc. Instrumentation Practice [Optional]	V & VI
[18]	B.Sc. Statistics [Optional]	V & VI
[19]	B.A. Statistics [Optional]	V & VI
[20]	B.A. / B.Sc. Mathematics [Optional]	V & VI
[21]	B.Sc. Home Science Degree Course	V & VI
[22]	B.Sc. Textile Interior Decoration Degree Course	V & VI
[23]	B.Sc. Fishery Science [Optional]	V & VI
[24]	B.Sc. Dairy Science & Technology [Optional]	V & VI
[25]	B.Sc. Botany [Optional]	V & VI
[26]	B.Sc. Physics [Optional]	V & VI
[27]	M.Sc. Computer Science	III & IV
[28]	M.Sc. I.T.	III & IV

This is effective from the Academic Year 2015-16 & onwards as appended herewith.

All concerned are requested to note the contents of the circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/SCI./
2015/3761-4160
Date:- 16-06-2015.

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Director,
Board of College and
University Development.

S-30th May, 2015 AC after Circulars from Circular No.1 & onwards

- 7 -

:: 2 ::

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned colleges,
Dr. Babasaheb Ambedkar Marathwada University

Copy to :-

- 1] The Controller of Examinations,
- 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 3] The Superintendent, [B.Sc. Unit],
- 4] The Superintendent, [M.Sc. Unit],
- 5] The Programmer [Computer Unit-1] Examinations,
- 6] The Programmer [Computer Unit-2] Examinations,
- 7] The Record Keeper.

S*/-160615/-

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.



**Syllabus of B. A. / B. Sc. Third
year (Mathematics) (Optional)
With Effect from June - 2015**

Handwritten signature

**DR . BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD
BOARD OF STUDIES IN MATHEMATICS
REVISED SYLLABUS FOR THIRD YEAR B.Sc. (MATHEMATICS)
(With Effect From June -2015)**

Semester V

Compulsory Papers:

Paper – MAT 501: Real Analysis – I

Paper – MAT 502: Abstract Algebra – I

Optional Papers (Any One):

Paper – MAT 503: Mathematical Statistics – I

Paper – MAT 504: Ordinary Differential Equations – I

Paper – MAT 505: Programming in C – I

Semester VI

Compulsory Papers:

Paper – MAT 601: Real Analysis – II

Paper – MAT 602: Abstract Algebra – II

Optional Papers (Any One):

Paper – MAT 603: Mathematical Statistics – II

Paper – MAT 604: Ordinary Differential Equations – II

Paper – MAT 605: Programming in C – II

REVISED SYLLABUS FOR THIRD YEAR B.A. (MATHEMATICS)
(With Effect From June -2015)

Semester V

Main Papers:

Paper – MAT 501: Real Analysis – I

Paper – MAT 502: Abstract Algebra – I

Subsidiary Papers:

Paper – MAT 503: Mathematical Statistics – I

Paper – MAT 504: Ordinary Differential Equations – I

Semester VI

Main Papers:

Paper – MAT 601: Real Analysis – II

Paper – MAT 602: Abstract Algebra – II

Subsidiary Papers:

Paper – MAT 603: Mathematical Statistics – II

Paper – MAT 604: Ordinary Differential Equations – II

B.Sc. (Third Year)(Mathematics)(Fifth Semester)
Paper – MAT 501: Real Analysis – I

Periods : 60

Marks : 50

1) Prerequisite:

Sets and elements, Operations on sets.

2) Functions:

Functions, Real-valued functions, Equivalence, Countability, Real numbers, Least upper bounds. [1]

3) Sequences of Real Numbers:

Definition of sequence and subsequence, Limit of a sequence, Convergent sequences, Divergent sequences, Bounded sequences, Monotone sequences, Operations on convergent sequences, Operations on divergent sequences, Limit superior and limit inferior, Cauchy sequences. [1]

4) Series of Real Numbers:

Convergence and divergence, Series with non-negative terms, Alternating series, Conditional convergence and convergence, Test for absolute convergence. [1]

5) Jacobians:

Definitions, Case of function of functions, Jacobian of implicit functions, Necessary and sufficient condition for a Jacobian to vanish. [2]

Recommended books:1] R. R. Goldberg : *Methods of Real Analysis* : Oxford and IBH Publishing Co. Pvt. Ltd. NewDelhi.**Scope:****Chapter 1** : 1.3(A, B, C, D, E, F, G, H, I), 1.4(A, B, C, D, E), 1.5(A, B, C, D, E, F, G, H, I), 1.6(A, B, C, D, E), 1.7(A, B, C, D, E).**Chapter 2** : 2.1(A, B, C, D), 2.2(A, B), 2.3(A, B, C, D), 2.4(A, B, C), 2.5(A, B), 2.6(A, B, C, D, E), 2.7(A, B, C, D, E, F, G, H, I, J), 2.8(A, B, C, D), 2.9(A, B, C, D, E, F, G, I, J, K, L, M), 2.10(A, B, C, D, E), 2.12(A, B).**Chapter 3** : 3.1(A, B, C, D), 3.2(A, B, C, D, E), 3.3(A, B), 2.4(A, B, C), 3.6 (A, B, C, D, E, F, G, H, I)2] J. N. Sharma and A. R. Vashistha : *Real Analysis* : Krishna Prakashan Media (P), Ltd. Meerut.**Scope:****Chapter 13** : Articles 1, 2, 3, 4, 5, 6, 7**References:**1) D. Somasundaram and B. Choudhary : *A first Course in Mathematical Analysis* : Narosa Publishing House, New Delhi.2) Hari Kishan : *Real Analysis* : Pragati Prakashan, Meerut.3) S. K. Mittal and S. K. Pundir : *Real Analysis* : Pragati Prakashan, Meerut.**Note** : Questions on prerequisite should not be asked.

4

B.Sc. (Third Year)(Mathematics)(Fifth Semester)
Paper – MAT 502: Abstract Algebra – I

Periods : 60
 Marks : 50

1) Prerequisite:
 Sets, Functions, Integers.

2) Group Theory:
 Definition of a group, Some examples of groups, Some preliminary lemmas Subgroups, A counting Principle, Normal subgroups and quotient groups Homomorphism, Automorphism. [1]

3) Ring Theory:
 Definition and examples of rings Some special classes of ring, Ideals and quotient rings More ideals and quotient rings, Polynomial ring. [1]

Recommended books:

1) I. N. Herstein : *Topics in Algebra* : Willey Eastern Pvt. Ltd., NewDelhi.

Scope:

Chapter 2 : 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7(Cauchy's Theorem for Abelian Groups and Cauchy's Theorem for Abelian Groups are without proof), 2.8.

Chapter 3 : 3.1, 3.2, 3.3, 3.5, 3.9(Omit Theorem 3.9.1)

References:

- 1) A. R. Vasishtha : *Modern Algebra* : Krishna Prakashan Media Pvt. Ltd. Meerut.
- 2) M. L. Khanna : *Modern Algebra* : Jai Prakash Nath and Co, Meerut.
- 3) Vijay K. Khanna and S. K. Bhambri : *A course in Abstract Algebra* : Vikas Publishing House Pvt.Ltd. New Delhi.
- 4) Surjeet Singh and Qazi Zamceruddin : *Modern Algebra* : Vikas Publishing House Pvt. Ltd. New Delhi.
- 5) Bhupendra Singh : *Advanced Abstract Algebra* : Pragati Prakashan Meerut.
- 6) Shanti Narayan and Sat Pal : *A Text book of Modern Abstract Algebra* : S. Chand and Co. Ltd. New Delhi.
- 7) I. N. Herstein : *Abstract Algebra (Third Edition)*: Prentice-Hall, Upper Saddle River, New Jersey 07458.
- 8) Joseph A. Gallian : *Contemporary Abstract Algebra (Seventh Edition)* : Brooks/Cole 10 Davis Drive Belmont, CA 94002 - 3098 USA.
- 9) Goyal J. K. and K. P. Gupta : *Advanced course in Abstract Algebra* : Pragati Prakashan, Meerut.
- 10) J. N. Kapoor and K. R. Kalra : *Modern Algebra (Volume I and II)*: R. Chand and Co. New Delhi.
- 11) S. Nanda : *Topics in Algebra*: Allied publishers Pvt. Ltd., New Delhi.

Note : Questions on prerequisite should not be asked.

Optional Papers (any ONE)
B.Sc. (Third Year)(Mathematics)(Fifth Semester)
Paper - MAT 503: Mathematical Statistics - I

Periods - 60

Marks - 50

1) Frequency Distribution and Measures of Central Tendency:

Frequency distribution, Continuous frequency distribution, Graphical representation of a frequency distribution, Histograms, Frequency Polygon, Measures of Central Tendency, Arithmetic mean, Properties of arithmetic mean, merits and demerits of Arithmetic mean, Weighted mean, Median, Merits and demerits of Median, Mode Merits and demerits of mode, Geometric mean, Merits and demerits of Geometric mean, Harmonic mean, partition [1]

2) Measures of Dispersion Skewness and Kurtosis:

Dispersion, Characteristic for an ideal measure of dispersion, Measures of dispersion, Range, Quartile deviation, Mean deviation, Standard deviation and root mean square deviation, Relation between and σ , Different formulae for calculating variance, Variance of the combined series, Coefficient of dispersion, Coefficient of variations, Moments, Relation between moments about mean in terms of moments about any point and vice versa, Effect of change of Origin and scale on moments, Pearson's β_1 and β_2 coefficients, Skewness and kurtosis. [1]

3) Theory of Probability:

Introduction, Definition of various terms, Mathematical or Classical Probability, Statistical Probability, Axiomatic approach to probability, Random experiments, Sample space, Events, Some illustrations, Algebra of events, Probability - Mathematical Notion, Probability function, Theorems on Probability of events, Law of addition of Probability, Multiplication law of probability and conditional probability, Independent events, Pairwise independent events, Conditions for mutual independence of n events. [1]

4) Random Variables and Distribution Functions:

Random Variable, Distribution function, Properties of distribution function, Discrete random variables, Probability mass function, Discrete distribution function, Continuous random variable, Probability density function, Various measures of Central tendency, Continuous distribution function. [1]

Recommended Book:

1) S. C. Gupta and V. K. Kapoor : *Fundamentals of Mathematical Statistics* (Ninth Edition) : Sultan Chand and Sons, New Delhi.

Scope:

- Ch - 2: 2.1, 2.1.1, 2.2, 2.2.1, 2.2.2, 2.3, 2.4, 2.5, 2.5.1, 2.5.1, 2.5.2, 2.5.3, 2.6, 2.6.1, 2.7, 2.7.1, 2.8, 2.8.1, 2.9, 2.9.1, 2.11.
- Ch - 3: 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.7.1, 3.7.2, 3.7.3, 2.8, 2.8.1, 3.9, 3.9.1, 3.9.2, 3.10, 3.13, 3.14.
- Ch - 4: 4.1, 4.3, 4.3.1, 4.3.2, 4.5, 4.5.1, 4.5.1, 4.5.2, 4.5.3, 4.5.4, 4.6, 4.6.1 (omit Thm 4.1), 4.6.2, 4.7, 4.7.2, 4.7.3, 4.7.4, 4.7.5
- Ch - 5: 5.1, 5.2, 5.2.1, 5.3, 5.3.1, 5.3.2, 5.4, 5.4.1, 5.4.2, 5.4.3

B.Sc. (Third Year)(Mathematics)(Fifth Semester)
Paper – MAT 504: Ordinary Differential Equations – I

Periods : 60

Marks : 50

Prerequisite: Complex numbers

1) Preliminaries:

Introduction, Functions, Polynomials, Complex series and the exponential function, Determinants. [1]

2) Linear Equations of First Order:

Introduction, Differential Equations, Problems associated with differential equations, Linear equations of the first order, The equation $y' + ay = 0$, The equation $y' + ay = b(x)$, The general linear equation of the first order. [1]

3) Linear Equations with Constant Coefficients:

Introduction, The second order homogeneous equation, Initial value problems for second order equations, Linear dependence and independence, A formula for Wronskian, The non-homogeneous equation of order two. [1]

Recommended Book:

1) Earl A. Coddington : *An Introduction to Ordinary Differential Equations* : Prentice Hall of India Learning Private Limited, New Delhi-110001, (2009)

Scope:

Chapter 0. - Article 1, 3, 4, 5, 6

Chapter 1. - Article 1, 2, 3, 4, 5, 6, 7

Chapter 2. - Article 1, 2, 3, 4, 5, 6

Reference Books:

1) E.A.Coddington and Levinson Norman : *Theory of Ordinary Differential Equations* : McGraw Hill New York, (1955)

2) A.H.Siddiqi and P. Manchanda : *A First Course in Differential Equations with Applications* : Macmillan India Ltd., (2006)

3) D.G.Zill and M.R.Cullen : *Advanced Engineering Mathematics* (Second Edition) : Jones and Bartlett Publishers, (2000)

B.Sc. (Third Year)(Mathematics)(Fifth Semester)
Paper – MAT 505: Programming in C – I

Periods : 45

Marks : 40

1) Overview of C :

Introduction, Importance of c, Sample C Programs, Basic structure of C programs, programming style, Executing a C program. [1]

2) Constants, Variables and Data Types :

Introduction, Character set, C tokens, Keywords and identifiers, Constants, variables, Data types, Declaration of Variables, Storage class Assigning values to variables, Defining symbolic constants, case studies. [1]

3) Operators and Expressions:

Introduction, Arithmetic of operators , Relational operators, Logical operators, Assignment operators, Increment and decrement operators, Conditional operators, Bitwise operators, Special operators, Arithmetic expression, Evaluation of expressions, Precedence of arithmetic operators, Some computational problems, Type conversions in expression, Operators precedence and Associativity, mathematical functions. [1]

4) Managing Input and Output Operators:

Introduction, Reading a character, Writing a character, Formatted input, Formatted output. [1]

Recommended Book :

1) E. Balagurusamy : *Programming in ANSI C* (Fourth Edition) :Tata McGraw Hill

Scope:

Ch.1 : 1.1,1.2, 1.3,1.4,1.5,1.6, 1.8 to 1.10

Ch.2 : 2.1,2.2,2.3,2.4,2.5,2.6,2.7,2.8,2.9,2.10, 2.11

Ch.3 : 3.1 to 3.16

Ch.4 : 4.1 to 4.5

References:

- 1) Y.P. Kanetkar : *Let us C* :BPB Publication
- 2) Gottfried : *Programming in C* : Schaum's Series
- 3) Moolish Kooper : *Spirit of "C"*
- 4) D. Ravichandran : *Programming in C* : New-Age International Publisher
- 5) J.B.Dixit : *Mastering C Programs*
- 6) Pradip D Y and Manas Ghosh : *Fundamentals of Computing and Programming in C*
- 7) V.Rajaraman : *Computer Programming in C* : PHI Pvt Ltd, New Delhi(2005)

**B.Sc. (Third Year)(Mathematics)(Fifth Semester)
Practical Paper – MAT-PR- 505(Based on MAT 505)**

Periods : 15

Marks : 10

List of Experiments/Programs:

1. Program to find Maximum between two numbers using conditional operator.
2. Program to convert Temperature in Farad into Celsius. ($C=0.5(F-32)$)
3. Program to find addition of two numbers.
4. Program to find square root of a number using *sqrt()* function.
5. Program to find m^n using *pow()* function.
6. Program to find simple interest ($Si=(p+n+r)/100$).
7. Program to find Area of Circle ($A=\pi r^2$)
8. Program to find Circumference of Rectangle ($C= 2(\text{length}+\text{breadth})$)
9. Program to find root of Quadratic Equation $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
10. Program to find Area of Rectangle ($A = w \times h$)
11. Program to find circumference of circle
12. Program to find Area of Triangle. ($A= \frac{1}{2} \times b \times h$)
13. Program to find Area of Square ($A = a^2$)
14. Program to find Area of Sphere ($A = 4 \pi r^2$)
15. Program to Find Area of Cone ($A= \pi r (r + 2+r2)$)

Note: University Practical Examination will be conducted annually.

- 11 - 9

**B.Sc. (Third Year)(Mathematics)(Sixth Semester)
Paper – MAT 601: Real Analysis – II**

Periods : 60

Marks : 50

1) Limits in Metric Spaces:

Metric spaces, Limits in metric spaces. [1]

2) Continuous Functions on Metric Spaces:

Functions continuous on metric spaces, open sets, Closed sets. [1]

3) Connectedness, Completeness and Compactness:

More about open sets, connected sets, bounded sets and totally bounded sets, Complete metric spaces, Compact metric spaces, Continuous functions on compact metric spaces, Uniform continuity. [1]

4) Calculus:

Sets of measure zero, Definition of Riemann Integral, Existence of Riemann Integral, Fundamental Theorem of Calculus. [1]

5) Fourier Series:

Introduction. [2]

Recommended books:1] R. R. Goldberg : *Methods of Real Analysis* : Oxford and IBH Publishing Co. Pvt. Ltd. NewDelhi.**Scope:****Chapter 4** : 4.2(A, B, C), 4.3(A, C, D).**Chapter 5** : 5.3(A, B, C, D, E, F, G, H), 5.4(A, B, C, D, E, F, G), 5.5(A, B, C, D, E, F, G, H, I, J, L, M).**Chapter 6** : 6.1(A, B), 6.2(A, B), 6.3(A, B, C, D, E), 6.4(A, B, C, D, E, F), 6.5 (A, B, C, D, E), 6.6(A, B, C, D), 6.8(A, B, C, D, E)**Chapter 7** : 7.1(A, B, C, D), 7.2(A, B, C, D, E, F, G), 7.3(Theorem and Lemma are without Proof), 7.4(A, B, C, D, E, F), 7.8(A, B, C, D, E, F, G)2] D. Somasundaram and B. Choudhary : *A first Course in Mathematical Analysis* : Narosa Publishing House, New Delhi.**Scope:****Chapter 10** : Articles 10.1**References:**

- 1) J. N. Sharma and A. R. Vashistha : *Real Analysis* : Krishna Prakashan Media (P), Ltd. Meerut.
- 2) Hari Kishan : *Real Analysis* : Pragati Prakashan, Meerut.
- 3) S. K. Mittal and S. K. Pundir : *Real Analysis* : Pragati Prakashan, Meerut.

B.Sc. (Third Year)(Mathematics)(Sixth Semester)
Paper – MAT 602: Abstract Algebra – II

Periods : 60

Marks : 50

1) Vector Spaces and Modules:

Elementary basic concepts, Linear independence and bases, Dual Spaces, Inner product spaces, Modules. [1]

Recommended books:

1] I. N. Herstein : *Topics in Algebra* : Willey Eastern Pvt. Ltd., NewDelhi.

Scope:

Chapter 4 : 4.1, 4.2, 4.3, 4.4, 4.5

References:

- 1) A. R. Vasishtha : *Modern Algebra* : Krishna Prakashan Media Pvt. Ltd. Meerut.
- 2) M. L. Khanna : *Modern Algebra* : Jai Prakash Nath and Co. Meerut.
- 3) Vijay K. Khanna and S. K. Bhambri : *A course in Abstract Algebra* : Vikas Publishing House Pvt.Ltd. New Delhi.
- 4) Surjeet Singh and Qazi Zameeruddin : *Modern Algebra* : Vikas Publishing House Pvt. Ltd. New Delhi.
- 5) Bhupendra Singh : *Advanced Abstract Algebra* : Pragati Prakashan Meerut.
- 6) Shanti Narayan and Sat Pal : *A Text book of Modern Abstract Algebra* : S. Chand and Co. Ltd. New Delhi.
- 7) P. N. Chatterjee : *Linear Algebra* : Prentice-Hall, Upper Saddle River, New Jersey 07458.
- 8) Joseph A. Gallian : *Contemporary Abstract Algebra* (Seventh Edition) : Brooks/Cole 10 Davis Drive Belmont, CA 94002 – 3098 USA.
- 9) Goyal J. K. and K. P. Gupta : *Advanced course in Abstract Algebra* : Pragati Prakashan, Meerut.
- 10) J. N. Kapoor and K. R. Kalra : *Modern Algebra (Volume I and II)*: R. Chand and Co. New Delhi.
- 11) S. Nanda : *Topics in Algebra*: Allied publishers Pvt. Ltd., New Delhi.

Optional Papers (any ONE)
B.Sc. (Third Year)(Mathematics)(Sixth Semester)
Paper - MAT 603: Mathematical Statistics - II

Period: 60

Marks: 50

1) Mathematical Expectation, Generating Functions:

Mathematical expectation, Expectation of a function of a random variable, Additive theorem of expectation, Multiplication theorem of expectation, Expectation of linear combination of random variables, Covariance, Correlation coefficient, Variance of a linear combination of random variables. [1]

2) Theoretical Discrete Probability Distributions:

Binomial distribution, moments, Recurrence relation for the moments of Binomial distribution, Moment generating function of Binomial distribution, Additive property of Binomial distribution, Cumulants of Binomial distribution, Recurrence relation for cumulants of Binomial distribution, Poisson distribution, Moments of Poisson distribution, Recurrence relation for moments of Poisson distribution, Moment generating function of Poisson distribution, cumulants of Poisson distribution, Additive property of independent Poisson variates, Geometric distribution, Lack of memory, Moment of geometric distribution, Moment generating function of Geometric distribution. [1]

3) Theoretical Continuous Distributions:

Rectangular or Uniform distribution, Moments of rectangular distribution, Moment generating function of rectangular distribution, Normal distribution, Normal distribution as a limiting case of a binomial distribution, Mode of Normal distribution, Median of Normal distribution, moment generating function of Normal distribution, Cumulant generating function of Normal distribution, moments of Normal distribution, Gamma distribution, Moment generating function of Gamma distribution, Cumulant generating function of Gamma distribution, additive property of Gamma distribution, Exponential distribution, Moment generating function of exponential distribution. [1]

4) Correlation and Regression:

Bivariate distribution, Correlation, Scatter diagram, Karl Pearson's coefficient of correlation, limits for correlation coefficient, Assumptions underlying Karl Pearson's correlation, Regression, Lines of regression, regression curves, Properties of regression coefficients, Angle between two lines of regression. [1]

Recommended Book:

[1] S. C. Gupta and V. K. Kapoor : *Fundamentals of Mathematical Statistics* (Ninth Edition) : Sultan Chand and Sons, New Delhi.

Scope:

Ch - 6: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.6.1, 6.7

Ch - 7: 7.2, 7.2.1, 7.2.2, 7.2.6, 7.2.7, 7.2.9, 7.2.10, 7.3, 7.3.2, 7.3.4, 7.3.5, 7.3.7, 7.3.8, 7.5, 7.5.1, 7.5.2, 7.5.2

Ch - 8: 8.1, 8.1.1, 8.1.2, 8.2, 8.2.1, 8.2.3, 8.2.4, 8.2.5, 8.2.6, 8.2.7, 8.3, 8.3.1, 8.3.2, 8.3.3, 8.6, 8.6.1

Ch - 10: 10.1, 10.2, 10.3, 10.3.1, 10.3.2, 10.7, 10.7.1, 10.7.2, 10.7.3, 10.7.4, 10.7.5

orig. 2015-2016.
B.Sc. III year.
Chemistry

31.S-[F]NPW-02 June-2015-16 All Syllabus Science S.L. B.Sc. Chemistry IIIrd Yr. Sem.V & VI - 1 -

B-300: May, 2015 AC after Circulars from Circular No.1 & onwards+ - 32 -

DR. BABASAHEB AMBEDKAR MARATHIWADA UNIVERSITY

CIRCULAR NO.SU/Sci./B.Sc. Syll./31/2015

It is hereby notified for information to all the concerned that, on the recommendation of the various Board of Studies, Ad-hoc Boards & Committees the Hon'ble Vice-Chancellor has accepted the revised semester-wise syllabi in the Faculty of Science as under on behalf of the Academic Council under Section-14[7] of the Maharashtra Universities Act, 1994 :-

Sr. No.	Name of the Subject	Semester
[1]	B.Sc. Automobile Technology IIrd Year, [Three Year Degree Course].	III & IV
[2]	B.Sc. Horticulture IIrd Year, [Optional].	III & IV
[3]	B.Sc. Chemistry IIIrd Year, [Optional].	V & VI
[4]	B.Sc. Analytical Chemistry IIIrd Year, [Optional].	V & VI
[5]	B.Sc. Agrochemical & Fertilizer IIIrd Year, [Optional].	V & VI
[6]	B.Sc. Geology IIIrd Year, [Optional].	V & VI
[7]	B.Voc. Multimedia & Animation, [Three Year Degree Course].	I to IV
[8]	B.Voc. [1] Industrial Automation, [2] Automobile & [3] Travel & Tourism, [Three Year Degree Course].	I to VI
[9]	B.Voc. Jewellery Design & Gemology, IIrd Year [Three Year Degree Course].	III & IV
[10]	Diploma in Industrial Automation for Community College at University Campus.	

This is effective from the Academic Year 2015-16 & onwards as appended herewith.

All concerned are requested to note the contents of the circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/SCI/
2015/6860-7259
Date:- 08-07-2015.

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Director,
Board of College and
University Development.

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- 2] The Principals, affiliated concerned colleges,
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- 1] The Controller of Examinations,
 - 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
 - 3] The Superintendent, [B.Sc. Unit],
 - 4] The Superintendent, [B.C.S. Unit],
 - 5] The Programmer [Computer Unit-1] Examinations,
 - 6] The Programmer [Computer Unit-2] Examinations,
 - 7] The Record Keeper.
- Dr. Babasaheb Ambedkar Marathwada University.

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

SYLLABUS

B.Sc. (Chemistry)

THIRD YEAR

SEMESTER SYSTEM

FIFTH / SIXTH SEMETER

[Effective from – June- 2015 onwards]

DR. BARASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGBAD

B.Sc. (Chemistry)

**IN SEMESTER PATTERN FOR THREE YEAR
DEGREE**

YEAR	SEMESTER	PAPER NUMBER	PAPER TITLE	Hours	MARKS
First	I	Paper - I	Inorganic Chemistry	45	50
		Paper - II	Organic Chemistry	45	50
		Paper - III	Lab Course I	45	50
	II	Paper - IV	Physical Chemistry	45	50
		Paper - V	Inorganic Chemistry	45	50
		Paper - VI	Lab. Course - II	45	50
Second	III	Paper - VII	Organic Chemistry	45	50
		Paper - VIII	Physical Chemistry	45	50
		Paper - IX	Lab. Course-III	90	100
	IV	Paper - X	Inorganic Chemistry	45	50
		Paper - XI	Physical Chemistry	45	50
		Paper - XII	Lab. Course-IV	90	100
Third	V	Paper - XIII	Physical Chemistry	45	50

		Paper – XIV	Organic Chemistry	45	50
		Paper – XV	Lab. Course-V	90	100
	VI	Paper – XVI	Inorganic Chemistry	45	50
		Paper – XVII	Organic Chemistry	45	50
		Paper – XVIII	Lab. Course-VI	90	100

B.Sc. CHEMISTRY

(Three Year Degree Course)

THIRD YEAR

Paper XIII	Physical Chemistry	Fifth Semester
		(45hrs)
		3 Hrs/ Week
I. Elementary Quantum Mechanics		10 Hrs.
II. Spectroscopy		10 Hrs.
III. Photochemistry		08 Hrs.
IV. Physical Properties and Molecular Structure		10 Hrs.
V. Nano Material		07 Hrs.
Paper XIV	Organic Chemistry	Fifth Semester
		(45hrs)
		3 Hrs/ Week
I. Spectroscopy		16 Hrs.
II. Organometallic Compounds		08 Hrs.
III. Organic Synthesis via Enolates		13 Hrs.
IV. Fats, Oils and Detergents		08 Hrs.
Paper – XV	Lab. Course V	Organic Chemistry and
		(45 Hrs)
		Inorganic Chemistry
		(45 Hrs)

B.SC. CHEMISTRY

(Three Year Degree Course)

THIRD YEAR

Paper XVI	Inorganic Chemistry	Sixth Semester
		(45hrs)
		3 Hrs/ Week
I. Metal-ligand Bonding in Transition Metal Complexes		12 Hrs.
II. Electron Spectra of Transition Metal Complexes		07 Hrs.
III. Organometallic Chemistry		10 Hrs.
IV. Bioinorganic Chemistry		10 Hrs.
V. Chromatography		06 Hrs.
Paper XVII	Organic Chemistry	Sixth Semester
		(45hrs)
		3 Hrs/ Week
I. Heterocyclic Compounds		13 Hrs.
II. Carbohydrates		10 Hrs.
III. Synthetic Polymers		07 Hrs.
IV. Synthetic Dyes and Drugs		15Hrs.
Paper - XVIII	Lab. Course VI	Organic Chemistry &
		(45 Hrs)
		Physical Chemistry
		(45 Hrs)

B. SC. THIRD YEAR

Paper XIII

Physical Chemistry [Vth Semester]

45 Hrs. (3 Hrs/week)

I Elementary Quantum Mechanics

10 Hrs.

Black body radiation, Planck's radiation law, photoelectric effect, Bohr's model of hydrogen atom (no derivation) and its defects. Compton effect. De Broglie Hypothesis, the Heisenberg's uncertainty principles, Hamiltonian operator, Schrödinger wave equation and its importance, physical interpretation of the wave function, postulates of quantum mechanics. Schrödinger wave equation for H-atom, separation into three equations (without derivation), quantum numbers and their importance.

II Spectroscopy

10 Hrs.

Introduction - Electromagnetic radiation, regions of the spectrum, basic features of different spectrometers, statement of the Born-Oppenheimer approximation. Rotational Spectrum - Diatomic molecules, energy levels of a rigid rotor (semi classical principles), selection rule, rotational spectra of rigid diatomic molecule, determination of bond length, numerical problems.

III Photochemistry

08 Hrs.

Introduction of radiation with matter, difference between thermal and photochemical processes. Laws of photochemistry, Grothus - Drapper law, Stark-Einstein law, Jablonski diagram qualitative description of fluorescence, phosphorescence, non-radiative processes (Internal conversion, Intersystem crossing), quantum yield, photosensitized reactions.

IV Physical properties and molecular structure

10 Hrs.

Optical activity and its measurement, dipole moment and its measurement by temperature change method, magnetic property and its measurement by Gouy

balance method, Applications of optical activity, dipole moment and magnetic property for determination of structure of molecule.

V Nano Material

07 Hrs.

Introduction to nano-materials Methods of Synthesis - i) High energy ball milling, ii) Physical vapour deposition (PVD) iii) Chemical vapour deposition (CVD) iv) Micro emulsion. Synthesis using micro-organisms and plant extract.

B. SC, THIRD YEAR

Paper XIV Organic Chemistry [Vth Semester]

45 Hrs. (3 Hrs/week)

I Spectroscopy 16 Hrs.

Nuclear magnetic resonance (NMR) spectroscopy. Proton magnetic resonance (¹H NMR) spectroscopy, nuclear shielding and deshielding, chemical shift and molecular structure, spin-spin splitting and coupling constants, areas of signals, interpretation of PMR spectra of simple organic molecules such as ethyl bromide, ethanol, acetaldehyde, 1, 1, 1 tribromoethane, ethyl acetate, toluene and Acetophenone. Problems pertaining to the structure elucidation of simple organic compounds using UV, IR and PMR spectroscopic techniques. (Combine and single λ max using woodwardfischer rule)

II Organometallic Compounds 08 Hrs.

Organomagnesium - compounds: Alkyl Magnesium halides-ethyl magnesium bromide formation, structure and chemical reactions. Organozinc compound-dialkyl zinc formation and chemical reactions, organolithium compound- n-butyl lithium formation and chemical reactions.

III Organic Synthesis via Enolates. 13 Hrs.

Definition, Active methylene compounds, Preparation of Aceto acetic ester, (Claisen condensation with Mechanism), Acidity of alpha hydrogen, properties and reactions involving formation of mono, di and unsaturated carboxylic acids, also synthesis of ketone, di ketone, 4-methyl uracil from acetoacetic ester, keto-enol tautomerism. Preparation of diethyl malonate, properties and reactions involved in alkylation, formation of mono, di and unsaturated carboxylic acids, and also synthesis of aminoacid and barbituric acids from diethyl malonate.

IV Fats, oils and detergents 08 Hrs.

Natural fats, edible and industrial oils of vegetable origin, manufacture of soyabean oil by solvent extraction method and isolation and uses of essential oils.

Types of animals fats and oils and definition of saponification value, iodine value, and acid value. Detergents: Definition, Introduction and preparation of sodium alkyl sulphonate, alkyl benzene sulphonate, and amide sulphonate, (one example each), Cleansing action of detergent.

B. SC. THIRD YEAR

Semester V

Paper XV

Organic Chemistry

Lab Course: V

Marks: 50

Binary Mixture:

Separation and Identification of both components

- i) Benzoic Acid + β -naphthol
- ii) Salicylic Acid + P- nitro aniline
- iii) β -naphthol + Acetanilide
- iv) m-nitroaniline + Naphthalene
- v) α -naphthol + O-nitroaniline
- vi) Cinnamic Acid + Naphthalene
- vii) Salicylic Acid + Naphthalene
- viii) β -naphthol + m-dinitrobenzene
- ix) Cinnamic Acid + P- nitro aniline
- x) Salicylic Acid + β -naphthol

Inorganic Chemistry

Lab Course: V

Marks : 50

1 Inorganic Qualitative Analysis (Semi-Micro Analysis)

(Atleast five mixtures)

2. Separation of calcium and Barium and estimation of Ca-volumetrically .
3. Separation of Cu and Ni from binary mixture solution and estimation of Cu-volumetrically .
4. Estimation of oxalic acid and H_2SO_4 in a given mixture Solution using NaOH and $KMnO_4$ solution.
5. Estimation of Fe by potassium dichromate using diphenyl ammine indicator.
6. Estimation of available chlorine in the given sample of bleaching powder.
7. Separation of calcium and Barium and estimation of Ba-gravimetrically.
8. Separation of Cu and Ni from binary mixture solution and estimation of Ni-gravimetrically

B. SC. THIRD YEAR

Paper XVI Inorganic Chemistry [VIth Semester]

45 Hrs. (3 Hrs/week)

- 1. Metal-Ligand Bonding in Transition Metal Complexes 12 Hrs**
- Limitations of Valence Bond Theory
 - An Elementary idea of Crystal Field Theory
 - Crystal Field Splitting in Octahedral, Tetrahedral and Square Planar Complexes
 - Factors affecting Crystal Field Parameters
- 2. Electronic Spectra of Transition Metal Complexes 7 Hrs**
- Types of Electronic Transitions
 - Selection rules for $d-d$ transitions
 - Spectro-chemical series
 - Orgel Energy level diagram for d^1 , d^5 and d^9
 - Electronic Spectrum of $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$ complex ion.
- 3. Organometallic Compounds 10 Hrs**
- Definition, Nomenclature and classification of Organometallic Compounds
 - Preparation, Properties, Bonding and Applications of alkyls and aryls of - Li, Al, Hg, Sn and Ti.
 - A Brief account of metal - ethylenic Complexes
 - Nature of bonding in metal carbonyls.

4. Bioinorganic Chemistry

10 Hrs

Essential and trace elements in biological processes

Metalloporphyrins with special reference to hemoglobin and myoglobin

Biological role of alkali (Na^+ , K^+) and alkaline earth metal ions (Mg^{2+} , Ca^{2+}).

Nitrogen fixation

5. Chromatography

06 Hrs

Definition and classification of chromatography

Paper and Thin Layer Chromatography

Method of Development (Ascending, Descending Chromatography)

Locating Technique (UV-light / Chemicals)

R f value

Comparison between paper and TLC

Applications.

B. SC. THIRD YEAR

Paper XVII Organic Chemistry [VIth Semester]

45 Hrs. (3 Hrs/week)

1. Heterocyclic Compounds

13 Hrs.

Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine, Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine. Comparison of basicity of pyridine, piperidine and pyrrole. Condensed Heterocycles: Introduction, Preparation of Quinoline (Skraups Synthesis), Isoquinoline (Bischler - Napierlanski) and Indole (Fischer indole Synthesis).

2. Carbohydrates

10 Hrs.

Defination, Introduction and Classification.

Monsaccharides-Interconversion of Glucose and Fructose, chain lengthening, chain shortening of aldoses. Conversion of Glucose in to mannose. Determination of openchain structure of glucose & pyranose ring structure of glucose . Mechanism of Mutarotation and Introduction to disaccharides (maltose, sucrose and lactose) and

Polysaccharides (Starch and cellulose) without involving structure determination.

3. Synthetic Polymers.

07 Hrs.

Introduction, Classification based on nature of synthesis (without mechanism) with examples. (Addition and condensation polymers). Properties, uses and synthesis of polyvinyl chloride, polyvinyl acetate, polystyrene, polyacrylonitrile, Nylon 6, Nylon 66. Introduction to synthetic and natural rubber, properties, uses and synthesis of Buna N., Neoprene and silicon rubber.

4. Synthetic Dyes and Drugs

15 Hrs.

Synthetic Dyes - Definition, colour and constitution (electronic concept) of dyes, classification based on chemical constitution, synthesis of methyl orange, Congo red, malachite green, crystal violet, Alizarin and indigo dyes.

Synthetic Drugs - Definition, introduction, classification of drugs. Properties of ideal drug. Synthesis of chloramphenicol, paracetamol, phenacetin,

sulphaguanidine.

orig. 2015-2016.
B.Sc. III year
Physics

9.30th May, 2015 AC after Circulation from Circular No. 1 to members

DR. BABASAHEB AMBEDKAR MARATHIWADA UNIVERSITY
CIRCULAR NO.ACAD/SU/Bot./B.Sc. & H.Sc. ByR./5/2015

It is hereby notified for information to all the concerned that, on the recommendation of the Faculty of Science the Academic Council at its meeting held on 30-05-2015 has accepted the revised semester-wise syllabi as mentioned against their names in the Faculty of Science as under :-


Sl. No.	Name of the Subject	Semester
[1]	B.Sc. Computer Science Degree Course	III & IV
[2]	B.Sc. Information Technology Degree Course	III & IV
[3]	B.C.A. Science Degree Course	III & IV
[4]	B.Sc. Animation Degree Course	III & IV
[5]	B.Sc. Bioinformatics Degree Course	III & IV
[6]	B.Sc. Computer Science [Optional]	III & IV
[7]	B.Sc. Information Technology [Optional]	III & IV
[8]	B.Sc. Computer Applications [Optional]	III & IV
[9]	B.Sc. Computer Maintenance [Optional]	III & IV
[10]	B.Sc. Environmental Science [Optional]	V & VI
[11]	B.Sc. Bio-Chemistry [Optional]	V & VI
[12]	B.Sc. Forensic Science Degree Course	V & VI
[13]	B.Sc. Industrial Chemistry [Optional]	V & VI
[14]	B.Sc. Electronics [Optional]	V & VI
[15]	B.Sc. Zoology [Optional]	V & VI
[16]	B.Sc. Microbiology [Optional]	V & VI
[17]	B.Sc. Instrumentation Practice [Optional]	V & VI
[18]	B.Sc. Statistics [Optional]	V & VI
[19]	B.A. Statistics [Optional]	V & VI
[20]	B.A. / B.Sc. Mathematics [Optional]	V & VI
[21]	B.Sc. Home Science Degree Course	V & VI
[22]	B.Sc. Textile Interior Decoration Degree Course	V & VI
[23]	B.Sc. Fishery Science [Optional]	V & VI
[24]	B.Sc. Dairy Science & Technology [Optional]	V & VI
[25]	B.Sc. Botany [Optional]	V & VI
[26]	B.Sc. Physics [Optional]	V & VI
[27]	M.Sc. Computer Science	III & IV
[28]	M.Sc. I.T.	III & IV

This is effective from the Academic Year 2015-16 & onwards as appended herewith.

All concerned are requested to note the contents of the circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/SCI/
2015/3761-4160
Date:- 16-06-2015.

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University Development.

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S-30th May, 2015 AC after Circulars from Circular No.1 & onwards

- 7 -

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**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad**

PHYSICS SYLLABUS

B. Sc. III Year

Semester V & VI

Effective from academic year 2015-16

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
B. Sc. IIIrd year Physics Syllabus
(Semester-V and VI)
Revised syllabus from June 2015

Semester	Course Code	Paper	Title of Paper	Periods	Marks
V	301	XV	Classical & Quantum Mechanics	45	50
V	302	XVI	Electrodynamics	45	50
V	303	XVII	Practical	45	50
V	304	XVIII	Practical	45	50
VI	305	XIX	Atomic, Molecular Physics & Laser	45	50
VI	306	XX	Non-conventional energy sources and Optical fiber	45	50
VI	307	XXI	Practical	45	50
VI	308	XXII	Practical	45	50

Scheme of practical examination and marks

Practical examination will be conducted annually

Practical : paper XVII+XVIII based on theory paper XV & XVI (50+50= 100 Marks)

Practical : paper XXI + XXII based on theory paper XIX & XX (50+50= 100 Marks)

Experiment : Paper XVII+XVIII – Experiment 75 marks + Viva-Voce 15 Marks + Record Book/Journals 10 Marks + = 100 Marks

Experiment : Paper XXI + XXII - Experiment 70 marks + Viva-Voce 10 Marks + Record Book/Journals 10 Marks + Submission of project report 10 Marks = 100 Marks

B.Sc. IIIrd year Physics (Semester-V)
Classical and Quantum Mechanics
Course code PHY-301
Paper-XV

Period-45

Marks-50

Chapter 1. Classical Mechanics

[11]

Mechanics of Particle, Mechanics of system of particles Constraints, Classification of Constraints, Virtual Work, D'Alembert's principle, Lagrange's equation, Simple application of Lagrangian formulation -Simple Pendulum, Particle in space, Linear Harmonic Oscillator, Atwood's Machine .

Chapter 2. Origin of Quantum theory

[12]

Introduction, Failure of Classical mechanics, Black body Radiation (Distribution of Energy), Plank's Quantum theory-Plank's Quantum postulates, linear momentum of photon in terms of wave vector, Plank's radiation law-Wein's law and Rayleigh's law, Einstein's equation: Quantum theory of photoelectric effect, Quantum effect.

Chapter 3. Wave Particle duality

[12]

Introduction, de-Broglie's hypothesis for matter waves, de-Broglie's wavelength in terms of energy and temperature, de-Broglie phase velocity and particle velocity (relation between them), Group velocity, Relation between group velocity and phase velocity, Davisson-Germer Experiment, Heisenberg uncertainty principle, Applications of Heisenberg uncertainty principle (1) Nonexistence of electrons in nucleus (2) Binding energy of an electron in an atom.

Chapter 3. The Schrodinger Equation and its applications

[10]

Wave Function (Ψ) of a moving particle, Time dependent Schrodinger's wave equation, Expectation value, Operators, Time independent Schrodinger equation (steady state form), particle in one dimensional box, Quantization of energy and momentum.

Reference Books

- 1) Classical Mechanics- H- Goldstein
- 2) Classical Mechanics - N.C. Rana and P.S. Joag
- 3) Classical Mechanics - Gupta, Kumar and Sharma
- 4) Introduction of Classical Mechanics - R.G. Takwale & P.S. Puranik.
- 5) Physics for degree student - C.L. Arora, P.S. Hemne (1st edition S. Chand Publication).
- 6) Quantum Chemistry- Donald Allan Macquarie (Viva-Books Pvt. Ltd.).
- 7) Mathematics for Chemistry- Donald Allan Macquarie (Viva Books Pvt. Ltd.).
- 8) Concepts of Modern Physics - Arthur Beiser, ShobhitMahajan, S. RaiChoudhary (VIth Edition- Mc- Graw Hill).
- 9) Perspective of Modern Physics - Arthur Beiser.

B.Sc. IIIrd year Physics (Semester-V)**Electrodynamics**Course code **PHY-302**Paper-**XVI**Period-**45**Marks-**50****Chapter 1. Electrostatics****[12]**

Introduction : Electric field lines , electric flux and Gauss law, the divergence of E, Curl of E, Application of Gauss law: i) Electric field due to a uniform charged sphere ii) Electric field due to charged cylinder, Gaussian pillbox, Poisson's equation, Laplace's equation, Uniqueness theorem (First and Second)

Chapter 2. Time varying field**[10]**

Faraday's Law of Electromagnetic induction, Lenz's law, Self-Induction, Mutual Induction, equation of continuity, Maxwell's displacement current, Maxwell's equation (Derivation, Differential form)

Chapter 3. Electromagnetic waves III**[15]**

Origin of electromagnetic waves, characteristics of electromagnetic wave, electromagnetic wave equations in a conducting medium, transverse nature of electromagnetic wave, plane polarized electromagnetic wave, The Poynting Vector, Poynting theorem, Polarization of Electromagnetic waves

Chapter 4. Interaction of Electromagnetic waves with matter**[08]**

Boundary condition for the electromagnetic field vector $-B, E, D$ and H at the interface between the two media, reflection and refraction at the boundary of two non conducting media.

Reference Books:

1. Introduction to Electrodynamics-David J. Griffiths, Third Edition.
2. Mechanics and Electrodynamics - Brijlal N. Subrahmanyam, JivanSeshan
3. Classical Electrodynamics – S.P. Pure
4. Electrodynamics- B.B. Laud
5. Electrodynamics-Gupta, Kumar and Singh, Pragati Prakashan, Meerut
6. Electromagnetic waves and fields –R.N.Singh

B.Sc. IIIrd year Physics (Semester-V)

Practical

Course code PHY-303

Paper-XXI

Period-45

Marks-50

List of experiments

1. Measurement of the focal length of a given convex lens using laser
2. Spectral response of photoconductor (LDR)
3. Diffraction of grating using laser beam
4. e by Millikan's oil drop method
5. Study of thermocouple (Fe-Cu) and to find inversion temperature
6. Refractive Index R.I. of Optical fiber
7. constant of B.G. by standard condenser method
8. study of absorption spectra of iodine and determination of its wavelength using grating

Note :- At least Six experiments should be performed.

B.Sc. IIIrd year Physics (Semester-V)

Practical

Course code PHY-304

Paper-XXII

Marks-50

List of experiments

1. Beam divergence of a diode laser
2. Determination of the diameter of a thin wire using laser
3. To study the interference of light using optical fibers
4. Determination of wavelength of He-Ne laser by transmission grating and reflection grating
5. γ by Koenig's method
6. Edser's A pattern
7. e/m by Thomson methods by Excel
8. Surface tension by Ripple's method

Note :- At least Six experiments should be performed.

B.Sc. IIIrd year Physics (Semester-VI)
Atomic, Molecular Physics and LASER
Course code PHY-305
Paper-XIX

Period-45

Marks-50

- Chapter 1. The Atom model** [10]
Introduction, Thomson atom model, the Rutherford nuclear atom model, drawbacks of Rutherford atomic model, the Bohr's atom model, Bohr's theory of origin of spectral lines, diagrammatic representation of the series spectrum of the H-atom in the light of Bohr's theory.
- Chapter 2. Vector Atom Model** [15]
Introduction-vector atom model, Quantum numbers associated with the vector atom model, L-S coupling, j-j coupling, The Pauli's exclusion principle, Selection rules, Intensity Rules, Interval Rule, Normal Zeeman effect, Anomalous Zeeman effect, Stark effect and its experimental study.
- Chapter 3. Molecular spectra** [15]
Introduction, origin of pure rotational spectrum of a molecule, origin of vibration-rotation spectrum of a molecule, Rayleigh's law of scattering, Raman effect-Discovery, experimental study, Applications of Raman effect-molecular structure, Nature of liquids, Crystal Physics, Nuclear Physics, Chemical effects.
- Chapter 4. LASER** [10]
Introduction, induced absorption, spontaneous emission, stimulated emission, population inversion, properties of laser beam, laser pumping, Types of laser-Ruby laser, He-Ne laser, carbon dioxide (CO₂) laser, Applications of laser-Biological, medical and industrial.

Reference Books

1. Atomic Physics – J.B. Rajam, S. Chand & Company Ltd.
2. Physics for degree students – C.L. Arora, Dr. P.S. Hemne, S. Chand Publication
3. Modern Physics – R. Murugesan, Er. KiruthigaSivaprasath, S. Chand Publication
4. Introduction of Atomic Spectra-white.
5. Fundamentals of Molecular Spectroscopy- C.N. Banwell and E.M. McCash (McGraw Hill International Edition)

B.Sc. IIIrd year Physics (Semester-VI)
Non-conventional energy sources and Optical fiber
Course code PHY-306
Paper-XX

Period-45

Marks-50

- Chapter 1. Non-conventional energy sources (12)**
Introduction, Biomass, wind energy, tidal energy/Ocean energy, geothermal energy, biogas hydro energy, wind energy, solar energy
Biogas plant-fixed dome type
Wind energy: Introduction to wind energy, terms and definition: wind, wind farm, wind turbine, vertical axis wind turbine (VAWT), horizontal axis wind turbine (HAWT), propeller (wheel), wind mill, types of wind turbines generator units, monoblade HAWT, twin blade HAWT, merits and limitation of wind energy.
- Chapter 2. Solar Photovoltaic Systems: (10)**
Introduction to photovoltaic systems, Solar Cell fundamentals: i) Semiconductor, ii) P-N junction, iii) Generation of electron-hole pair by photon absorption, iv) I_v characteristics of solar cell
Electrical storage: Lead acid battery, basic battery theory
- Chapter 3. Introduction of optical fiber (10)**
Introduction, importance of optical fiber, classification of optical fiber- stepped index fiber, stepped index monomode fiber, Disadvantages of monomode fiber, plastic fiber, latest developed types of optical fibers- HPSUV; HPSIR; Halide; Tapered.
- Chapter 4. Fiber cables and fabrication (13)**
Fiber fabrication: Classification of fiber fabrication techniques; external chemical vapour deposition (external CVD), axial vapour deposition (AVD), internal chemical vapour deposition (internal CVD)
Fiber Cables: Construction, Strength members, cable tensile loading, minimum bend radius losses incurred during installation of cables or during subscriber service testing of cable, selection criteria, optical cable fiber laying in telephone.

References:

- 1) Optoelectronics; R. A. Barapate (Tech-Max Publication, Pune)
- 2) Principles of Solar Cells, LEDs and Diodes: The role of the PN junction; ADRIAN KITAI (2011 John Wiley & Sons, Ltd)
- 3) Light Sources: Technologies and Applications; Spiros Kitsinelis (CRC Press Taylo & Francis Group, FL 33487-2742) - 2011
- 4) Energy technology (non-conventional, renewable, and conventional) - S. Rao, Dr. B.B. Parulekar, Khanna Publishers.
- 5) Non-conventional energy resources- B.H. Khan, G.D. Rai, R.P. Khare, IInd edition, McGraw Hill Education (India) Private Limited, New Delhi.
- 6) Non-conventional Energy Sources- G.D. Rai, Khanna Publisher
- 7) Solar energy and Rural development- S.H. Pawar, C.D. Lokhande & R.N. Patil
- 8) Solar energy, Fundamentals and applications- Garg, Prakash Tata McGraw Hill
- 9) Fiber Optics and Optoelectronics - R.P. Khare, Oxford University Press.

B.Sc. IIIrd year Physics (Semester-VI)

Practical

Course code PHY-307

Paper-XVII

Marks-50

List of experiments

1. Thermal conductivity by Forb's method
2. Rydberg constant
3. B-H curve using magnetometer
4. Determination of Debye's temperature (e.g. Tin)
5. Determination of dielectric constant of liquid/solid
6. Resistance measurement of semiconductor by Vaders Pau's method
7. I-H Curve by Excel
8. Rydberg constant Excel

Note:- At least Six experiments should be performed.

B.Sc. IIIrd year Physics (Semester-VI)

Practical

Course code PHY-308

Paper-XVIII

Marks-50

List of experiments

1. Temperature coefficient of resistance of semiconductor
2. Measurement of thickness of thin film by gravimeter/optical/electrical method
3. Temperature of sodium flame
4. Hartmann's dispersion formula
5. Maxwell's bridge (measurement of inductance using impedance at different frequency)
6. λ by grating (normal incidence)
7. Transistorized Regulated power supply using Zener diode.
8. Bridge Rectifier

Note:- At least Six experiments should be performed.

Compulsory Activities

Organize a visit / study tour to Thermoelectric / Hydroelectric Power station, Wind mill, Solar farm and submit project report along with a photograph during the final practical examination.

OR

Organize study tour to industry / Research centre and submit a report at the time of final practical examination.

QUESTION PAPER PATTERN
B.Sc.F.Y.(I & II Semester)
PHYSICS

Time : 2.30 Hours

Max.Marks :50

Note:-1.All questions carry equal marks

2.Use of logarithmic table and electronic pocket calculator is allowed.

Q.1.Chapt. I (Long question)

10 Marks

OR

Chapt.II (Long question)

Q.2.Chapt.III (Long question)

10 Marks

OR

Chapt.IV (Long question)

Q.3. a)Chapt. I (Short question)
b)Chapt.II(Short question)

10 Marks

OR

a)Chapt.III (Short question)
b)Chapt.IV (Short question)

Q.4.Attempt any two

10 Marks

- a)Chapter I Problem
- b)Chapter II Problem
- c)Chapter III problem
- d)Chapter IV oproblem

Q.5. MCQ

10 Marks

Ten MCQ's having four alternatives based on theory and numerical (Minimum two MCQ's from each chapter)

orig. 2015-2016.
B.Sc. At year.
Zoology.

S-30th May, 2015 AC after Circulars from Circular No.1 & onwards - 6 -
DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
CIRCULAR NO.ACAD/SU/Sci./B.Sc. & M.Sc. Syll./5/2015

It is hereby notified for information to all the concerned that, on the recommendation of the Faculty of Science the Academic Council at its meeting held on 30-05-2015 has accepted the **revised semester-wise syllabi as mentioned against their names in the Faculty of Science as under :-**

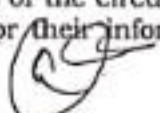
Sr. No.	Name of the Subject	Semester
[1]	B.Sc. Computer Science Degree Course	III & IV
[2]	B.Sc. Information Technology Degree Course	III & IV
[3]	B.C.A. Science Degree Course	III & IV
[4]	B.Sc. Animation Degree Course	III & IV
[5]	B.Sc. Bioinformatics Degree Course	III & IV
[6]	B.Sc. Computer Science [Optional]	III & IV
[7]	B.Sc. Information Technology [Optional]	III & IV
[8]	B.Sc. Computer Applications [Optional]	III & IV
[9]	B.Sc. Computer Maintenance [Optional]	III & IV
[10]	B.Sc. Environmental Science [Optional]	V & VI
[11]	B.Sc. Bio-Chemistry [Optional]	V & VI
[12]	B.Sc. Forensic Science Degree Course	V & VI
[13]	B.Sc. Industrial Chemistry [Optional]	V & VI
[14]	B.Sc. Electronics [Optional]	V & VI
[15]	B.Sc. Zoology [Optional]	V & VI
[16]	B.Sc. Microbiology [Optional]	V & VI
[17]	B.Sc. Instrumentation Practice [Optional]	V & VI
[18]	B.Sc. Statistics [Optional]	V & VI
[19]	B.A. Statistics [Optional]	V & VI
[20]	B.A. / B.Sc. Mathematics [Optional]	V & VI
[21]	B.Sc. Home Science Degree Course	V & VI
[22]	B.Sc. Textile Interior Decoration Degree Course	V & VI
[23]	B.Sc. Fishery Science [Optional]	V & VI
[24]	B.Sc. Dairy Science & Technology [Optional]	V & VI
[25]	B.Sc. Botany [Optional]	V & VI
[26]	B.Sc. Physics [Optional]	V & VI
[27]	M.Sc. Computer Science	III & IV
[28]	M.Sc. I.T.	III & IV

This is effective from the Academic Year 2015-16 & onwards as appended herewith.

All concerned are requested to note the contents of the circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO.ACAD/SU/Sci./
2015/3761-4160
Date:- 16-06-2015.

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Director,
Board of College and
University Development.

:: 2 ::

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned colleges,
Dr. Babasaheb Ambedkar Marathwada University

Copy to :-

- 1] The Controller of Examinations,
- 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 3] The Superintendent, [B.Sc. Unit],
- 4] The Superintendent, [M.Sc. Unit],
- 5] The Programmer [Computer Unit-1] Examinations,
- 6] The Programmer [Computer Unit-2] Examinations,
- 7] The Record Keeper.

Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad.



विद्यया ऽ मृतमश्नुते
विद्यायाः शक्तिः सत्यं परमं धर्मम्

B.Sc. (Zoology) Semester System

Third Year (Optional)
(Fifth Semester and Sixth Semester 2015-2016)

put below
AC
→ 15/15



Dr. S.S. Shinde

15.10.15 Chairman

Zoology

B. Sc. III Year Zoology

V	ZOL-501	Paper -XV	Ecology	50	
	ZOL-502	Pape XVI (Elective)	A	Fishery sciences -I	50
			B	Animal culture -I	
			C	Entomology-I	
			D	Parasitic protozoa & helminthes-I	
			E	Computer Application & Laboratory Technology-I	
			F	Biotechnology-I	
			G	Dairy sciences -I	
			H	Poultry Sciences -I	
	ZOL-503	Paper XVII	Practical based upon Paper XV	50	
ZOL-504	Paper XVIII	Practical based upon Paper XVI	50		
VI	ZOL-601	Paper XIX	Evolution		
	ZOL-602	Paper XX	A	Fishery sciences -II	50
			B	Animal culture -II	
			C	Entomology-II	
			D	Parasitic protozoa & helminthes-II	
			E	Computer Application & Laboratory Technology-II	
			F	Biotechnology-II	
			G	Dairy sciences -II	
			H	Poultry Sciences -II	
	ZOL-603	Paper XXI	Practical based upon Paper XIX	50	
ZOL-604	Paper XXII	Practical based upon Paper XX	50		

B.Sc. V Semester
Course Code - ZOL- 501
PAPER: XV
ECOLOGY

- | | |
|---|----|
| 1. Introduction :- | 02 |
| > Definition, basic concept, terminology used in ecology. | |
| 2. Abiotic environmental factors. | 08 |
| > Temperature; Concept, temperature fluctuation in different environment. Range of temperature tolerance, effect of temperature on animals, Thermal adaptation. | |
| > Light-Concept, Light variation in different environment, effect of light on animals. | |
| > Adaptation to salinity and moisture | |
| 3. Biotic environmental factors :- | 08 |
| > Competition: - Definition, types, intraspecific and interspecific composition. | |
| > Predation: - Definition, characteristics of predation. | |
| > Commensalisms: - Definition and types with examples. | |
| > Mutualism: - Definition and example. | |
| > Parasitism: - Definition and types with examples. | |
| 4. Population :- | 06 |
| > Definition and basic concepts | |
| > Characteristics of population; Density, Natality, Mortality, Dispersion and Age distribution. | |
| > Population growth. | |
| > Population regulation. | |
| 5. Community :- | 06 |
| > Definition, basic concept and types. | |
| > Structure of community; producer, consumers and decomposers. | |
| > Characters; ecological niche, diversity, abundance, dominance, ecotone, edge effect. | |
| > Community succession; example of succession and climax | |
| 6. Ecosystem :- | 15 |
| > Definition, concept and types. | |
| > Components of ecosystem, | |
| > Dynamics of ecosystem: - primary production, secondary production, food chain, food web, trophic level, energy of flow, ecological pyramids. | |
| > Brief introduction to major ecosystems: - Marine ecosystem, Pond ecosystem, Forest ecosystem and Desert ecosystem. | |

Total Periods 45



B.Sc. V Semester
Course Code - ZOL- 502
PAPER: XVI - A
FISHERY SCIENCE – I
(Elective Paper)

CAPTURE FISHERIES IN INDIA

1.	Introduction Definition and history General characters and classification Concept of blue revolution Importance of fishes.	05
2.	Freshwater fisheries. Status of freshwater fisheries, past, present and future Freshwater capture fisheries, cat fishes, rout. Effect of aquatic pollution on fisheries.	10
3.	Revering and reservoir fisheries. Major river systems of India Important fisheries of Indian rivers system Major reservoirs of Maharashtra Reservoir fisheries and its management. Exploitation of reservoir fisheries	10
4.	Brackish water fisheries Principle fisheries of brackish water, milkfish, mullet, tilapia. Fisheries of the chilka, pulicat and Kolleru Lake	08
5.	Marine water fisheries. Oil-sardine Mackeal Ribbon fish fisheries. Bombay-duck Pomfret-fishery	08
6.	Application of remote sensing technique in pelagic fisheries.	04
	Total periods	45



B.Sc. V Semester

Course Code - ZOL- 502

PAPER: XVI - B

**ANIMAL CULTURE - I
(Elective Paper)**

APICULTURE

1.	Introduction and history	02
2.	Status, problems and prospects of Bee-keeping practices	02
3.	Systematic position and distribution of different honey bees.	06
	a) Wild species	
	b) Domesticated species	
	c) Brief account of honey production	
4.	Organization in colony and polymorphism in Wild species	06
	Caste differentiation	
	Division of work	
5.	Life cycle of honey bees	06
	Morphology of queen, worker and drone	
6.	Behavior of domesticated bees	08
	a) Nesting behavior	
	b) Swarming and colony production	
	c) Communication	
	d) Defense, foraging	
	e) Mating	
	f) Comb construction	
	g) Humidity and temperature control	
7.	Food plants and plant -bee relations.	04
	a) Pollination by honey bees.	
8.	Disease, pests, parasites and predators of bees and their control.	08
	a) Protozoan diseases-Nosemd	
	Bacterial disease- American and European foul brood	
	Viral disease- sac brood	
	Fungal disease- chalk brood and stone brood	
	b) External mites and dipterans, internal mites	
	c) Bats -was math	
	d) predators- wasps, brinks, rats, lizard, mantis, bears etc.	
	e) Poisoning and pestisidal hazards in bees	
9	bee products and their uses	03
	Total periods	45



B.Sc. V Semester

Course Code - ZOL- 502

PAPER: XVI - C

**ENTAMOLOGY-I
(Elective Paper)**

ECONOMIC ENTAMOLOGY

I	Introduction to Economic entamology.	03
II	Methods of collection and preservation of insect.	05
III	Type study of grasshopper- systematic position, external morphology, digestive, nervous, reproductive system including development.	08
IV	Insect –orders (general characters)	12
	Thysanura	
	Collembella	
	Lepidoptera	
	Diptera	
	Coeloptera	
	Hymenoptera	
V	House hold and Human insect pest:-	06
	Bed bugs, Mosquito, Rat Flea, and House fly, Cockroach, Pediculus.	
VI	Metamorphosis in insect, types of metamorphosis with example.	05
VII	Insect Culture (gross study) Apiculture, Sericulture and lac culture	06
	Total periods	45



B.Sc. V Semester

Course Code - ZOL- 502

PAPER: XVI - D

PARASITIC PROTOZOA AND HELMINTHES - I
(Elective Paper)

A- PARASITIC PROTOZOA

1. Introduction to parasitology :- Definition-Parasite & host, Parasitism, Types of parasites, host-parasite relationship	05
2. Classification of protozoan parasites.	02
3. Structure, life cycle, Pathogenicity and control measure of the following:	
> <i>Entamoeba coli</i>	03
> <i>Entamoeba gingivalis</i>	03
> <i>Giardia intestinalis</i>	03
> <i>Trichomonas vaginalis</i>	04
> <i>Trypanosoma gambiense</i>	04
> <i>Balantidium coli</i>	03
> <i>Plasmodium vivax</i>	04
> <i>Plasmodium falciparum</i>	04
> <i>Plasmodium ovale</i>	04
> <i>Plasmodium malariae</i>	03
> <i>Eimeria tenella</i>	03
Total Periods	45



B.Sc. V Semester

Course Code - ZOL- 502

PAPER: XVI - E

COMPUTER APPLICATION AND MEDICAL LABORATORY TECHNOLOGY-I
(Elective Paper)

A- COMPUTER APPLICATION

1. History of computer and their application to biology.	03
2. Operating systems DOS, WINDOWS: Windows XP, Windows 7, and UNIX	07
3. System Units: Mother board, Microprocessor and memory.	05
4. Storage Devices, Input/ output devices.	04
5. Microsoft office (2007): MS-word, MS-Power point, MS- Excel, MS- Publisher.	05
6. Internet: Basics, Internet services, WWW services, E-mail services, Search engines.	05
7. Demonstration of web utilities in biology.	05
8. The introduction to programming.	01
9. Programming using 'C'.	02
10. 'C' Data types.	03
11. Simple programs using C.	05
Total Periods	45



B.Sc. V Semester

Course Code - ZOL- 602

PAPER: XVI - F

**BIOTECHNOLOGY - I
(Elective Paper)**

1. Introduction to biotechnology Definition and concept Old and new biotechnology Scope and importance, Biotechnology in India.	03
2. Genetic engineering Concept and definition Steps involved in gene cloning Application	04
3. Isolation & amplification of desired gene Isolation of DNA from cell Genomic library, cDNA library In vitro synthesis of gene Polymerase chain reaction	04
4. Enzymes in gene cloning Restriction enzymes (Nomenclature, type) DNA Ligase, taq polymerase, alkaline phosphates Polymerase etc	04
5. Cloning vectors Plasmid, bacteriophage, cosmid YAC, BAC, shuttle vector, Agro bacterium etc	04
6. Gene transfer methods Transformation, conjugation, Electrophoration, transfection Liposome mediated gene transfer, Gene gun, microinjection etc	05
7. Screening of cloned gene Direct selection, Insertional inactivation method Immunological assay, Autoradiography Colony and plaque blotting	05
8. Problems and solutions for gene cloning	02
Total periods	45



B.Sc. V Semester

Course Code - ZOL- 502

PAPER: XVI - G

DAIRY TECHNOLOGY – I
(Elective Paper)

1. Milk:-Definition, Composition, Factors affecting composition of milk	05
> Food and Nutritive value of milk	
> Physico-chemical properties of milk.	
2. Microbiology of milk:-Introduction	05
> Growth and Destruction of microorganisms	
> Classification of microorganism.	
3. Milk and public health: Introduction	03
Safe guarding of milk supply	
> Clean milk production.	
4. Buying and collection of milk :-	04
> Introduction , Method of buying, Method of collection	
> Cooling of milk	
> Transportation of milk.	
5. Manufacture, Packaging and storage of Pasteurized milk :-	09
> Introduction., Milk reception operation, Standardization	
> Pasteurization, Homogeuration.	
> Packing and storage of milk.	
6. Judging and grading of milk:-Introduction	06
> Importance and procedures.	
7. Indian dairy products :-	04
> Introduction	
> Importance and Classification	
8. Khoa :-	
> Introduction, definition classification and Composition.	
> Food and Nutritive Value.	
> Methods of production and defects of khoa.	
9. Channa :-	04
> Introduction, definition and Composition.	
> Channa Based sweets, Food and Nutritive Value.	
> Methods of production.	
10. Dahi :-	04
> Introduction, definition and Composition.	
> Channa Based sweets, Food and Nutritive Value.	
> Methods of production.	
	Total Periods 45

B.Sc. V Semester

Course Code - ZOL- 502

PAPER: XVI - H

**POULTRY SCIENCE- I
(Elective Paper)**

1. Introduction to poultry science.	02
2. Classification of poultry breeds;	08
> American	
> Asiatic	
> English	
> Mediterranean.	
3. Digestive, circulatory, Respiratory and Male and female reproductive system of poultry.	15
4. Formation, structure and nutritive value of eggs.	06
5. Breeding of poultry;	10
> Selection	
> Objective	
> Methods of Selection	
> Mating system.	
6. Management of incubators	02
7. Hatching of eggs.	02
Total Periods	45



B.Sc. V Semester

Course Code - ZOL- 503

PAPER: XVII

ECOLOGY (PRACTICAL)

-
1. Estimation of productivity of pond ecosystem using white and dark bottle method. 02
 2. Determine the following parameters of soil. 04
 - ▷ pH
 - ▷ Alkalinity
 - ▷ Chlorinity
 - ▷ Salinity
 3. Analysis of DO, CO₂, Salinity, Chlorinity of water sample. 04
 4. Study of animal association ship with example (Charts/photo) -Competition, mutualism, parasitism, predation and commensalisms. 01
 5. Estimation of population density by Quadrate method on field and by Simulation method. 04
 6. Preparation of permanent slides of following
Spirogyra, Verticella, Odogonium, Daphnia, Cyclops, Mysis, Cypris, keretella
 7. Project report: - Forest or fresh water ecosystem.

Total practical periods: - 15

B.Sc. V Semester

Course Code - ZOL- 504

PAPER: XVIII - A

**FISHERY SCIENCE - I (PRACTICAL)
(Elective Paper)**

- | | | |
|----|---|----|
| 1. | Study of freshwater fishes.
Major carps
Other carps.
Cat fishes
Clupoides | 03 |
| 2. | Study of brackish water fishes.

<i>Hilsa hilsa, Chanos chanos (milkfish), Lates calcarifer, Tilapia</i> | 02 |
| 3. | Study of marine ware fishes.
Oil sardine
Mackerel
Ribbon -fish
Bombay-duck
Pomfret
Sole
Polynemus | 03 |
| 4. | Water analysis | 05 |
| 5. | Visit to local or any reservoir and marine fish landing centre and student should be submit a project report at the time of practical examination | 02 |

Total practical periods: - 15



B.Sc. V Semester

Course Code - ZOL- 504

PAPER: XVIII - B

ANIMAL CULTURE - I (PRACTICAL)
(Elective Paper)

1.	Identification of members of bee family	03
2.	study of bee hive	02
3.	study of different types of bees.	02
4.	mounting of mouth parts and sling apparatus of honey colony.	04
5.	Identification of different types of hives and equipment used in apiculture.	04

Total practical periods: - 15



B.Sc. V Semester

Course Code - ZOO- 504

PAPER: XVIII - C

ENTOMOLOGY - I (PRACTICAL)
(Elective Paper)

1. Collection and preservation of insects	02
2. Dissection - grasshopper- Digestive system, Nervous system, Reproductive system.	03
3. Mounting - Mouth parts of Grasshopper, Mosquito, Housefly, Cockroach.	02
4. Museum study- five Human insect pest and representatives of orders: Lepidoptera, coleopteran, Odonata, Hymenoptera, Orthoptera, with examples.	04
5. Collection of insects (at least 15 specimens should be collected and submitted at the time of examination by students)	04
Total practical periods	15



B.Sc. V Semester

Course Code - ZOO- 504

PAPER: XVIII - D

PARASITIC PROTOZOA AND HELMINTHES – I (PRACTICAL)
(Elective Paper)

Parasitic protozoa

- | | |
|--|----|
| 1. Study of microscopic structure of the following: | 03 |
| • <i>Entamoeba coli</i> | |
| • <i>Entamoeba histolytica</i> | |
| • <i>Opalina</i> | |
| • <i>Nyctotherus</i> | |
| • <i>Balantidium coli</i> | |
| • <i>Trichomonas</i> species | |
| • <i>Trypanosoma</i> species | |
| • <i>Plasmodium</i> species | |
| • <i>Eimeria</i> species. | |
| 2. Smear preparation:- Rat/ Fish blood smear (Giemsa stain) | 04 |
| 3. Flagellate parasite from rectum of frog and Calotes with giemsa stain. | 04 |
| 4. Ciliate parasite from rectum of frog, smear with iron haematoxyline or tungesto phosphoric acid for <i>Balantidium Nyctotherus</i> and <i>Opalina</i> . | 04 |

Total practical periods: - 15



B.Sc. V Semester

Course Code – ZOO - 504

PAPER: XVIII – E

**COMPUTER APPLICATION AND MEDICAL LABORATORY TECHNOLOGY- I (Practical)
(Elective Paper)**

- | | |
|---|----|
| 1. Demonstration of the use of the following devices:-
Visual Display Unit (VDU), Key board, Mouse, Light pen, Joystick, Printers,
Plotters, Disks, CD-Rom. | 03 |
| 2. Use of DOS and windows- manipulating files | 02 |
| 3. Use of internet, demonstration of various web sites related to biology. | 05 |
| 4. Introduction to programming, editing files, programming in 'C'. | 05 |

Total practical periods: - 15

B.Sc. V Semester

Course Code – ZOO - 504

PAPER: XVIII – F

**BIOTECHNOLOGY – I (PRACTICAL)
(Elective Paper)**

A) Principle and application of following equipments	04
1) gel electrophoresis	
2) column chromatography	
3) high pressure liquid chromatography	
4) centrifuge	
5) laminar flow	
6) spectrophotometer	
B) Estimation of total DNA from animal tissue using Diphenylamine method.	02
C) Estimation of total RNA from animal tissue using orcinol method	02
D) Isolation of messenger RNA from animal source using affinity chromatography	02
E) Isolation of total DNA from tissue	01
F) DNA electrophoresis by agarose gel	02
G) Demonstration of Animinated methods of following	02
• Gene cloning	
• Restriction digestion of DNA	
• Southern blotting techniques	
• Northern blotting technique	

Total practical periods 15



B.Sc. V Semester

Course Code - ZOO-504

PAPER: XVIII – G

DAIRY TECHNOLOGY- I (PRACTICAL)
(Elective Paper)

1. Study of steps for clean and safe milk production.	01
2. Sampling of milk	01
3. Platform test for judging the quality of milk;	01
✓ Organoleptic test	
✓ Temperature	
✓ COB test	
✓ Alcohol test	
✓ Sediment test.	
4. Determination of fat of milk.	01
5. Determination of SNF and TS of milk.	01
6. Determination of Specific gravity of milk	01
7. Determination of acidity and ph of milk.	01
8. Staining of Bacteria.	02
9. Methylene blue reduction test (MBR) for milk.	01
10. Standard plate count (SPC) of milk. Detection of adulterants and preservative in milk.	01
11. Preparation of khoa.	01
12. Preparation of Chhans	01
13. Preparation of Dahi.	02
Total practical periods	15

B.Sc. V Semester

Course Code – ZOO - 504

PAPER: XVIII – H

**POULTRY SCIENCE- I (PRACTICAL)
(Elective Paper)**

1. To study American Class poultry breeds.	01
2. To study Asiatic Class poultry breeds	01
3. To study English Class poultry breeds.	01
4. To study Mediterranean Class poultry breeds.	01
5. To Study the Circulatory system of Poultry.	02
6. To Study the Respiratory system of Poultry.	02
7. To Study the Digestive system of Poultry.	02
8. To Study the Reproductive (Male and Female) system of Poultry	02
9. To Study Formation of egg.	02
10. To Study Structure of egg.	01
Total practical periods	15

Pattern of Question Paper
B.Sc. V Semester
Course Code - ZOL- 501
PAPER: XV
ECOLOGY

Time: 02:00 hours

Max. Marks: 50

- N.B. 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram.

-
- | | |
|---|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 to 3
OR
Based on chapter 1 to 3 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 4 & 5
OR
Based on chapter 4 & 5 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 6
OR
Based on chapter 6 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Multiple choice questions:
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |

Pattern of Question Paper
B.Sc. V Semester
Course Code - ZOL- 502
PAPER: XVI - A
FISHERY SCIENCE - I (Elective Paper)

Time: 02:00 hours

Max. Marks: 50

- N.B. 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram.

-
- | | |
|--|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 & 2
OR
Based on chapter 1 & 2 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 3 & 4
OR
Based on chapter 3 & 4 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 5 & 6
OR
Based on chapter 5 & 6 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Questions: (Answer in One Sentence)
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |

Pattern of Question Paper
B.Sc. V Semester
Course Code - ZOL- 502
PAPER: XVI - B
ANIMAL CULTURE - I (Elective Paper)

Time: 02:00 hours

Max. Marks: 50

N.B. 1) Attempt all questions.

2) All question carry equal marks.

3) Illustrate your answer with suitable labeled diagram.

- | | |
|--|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 to 3
OR
Based on chapter 1 to 3 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 4 & 5
OR
Based on chapter 4 & 5 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 6 & 7
OR
Based on chapter 6 & 7 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Questions: (Answer in One Sentence)
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |

Pattern of Question Paper
B.Sc. V Semester
Course Code - ZOL- 502
PAPER: XVI - C
ENTAMOLOGY - I (Elective Paper)

Time: 02:00 hours

Max. Marks: 50

- N.B.** 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram.

-
- | | |
|--|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 to 3
OR
Based on chapter 1 to 3 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 4 & 5
OR
Based on chapter 4 & 5 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 6 & 7
OR
Based on chapter 6 & 7 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Questions: (Answer in One Sentence)
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |

Pattern of Question Paper
B.Sc. V Semester
Course Code - ZOL- 502
PAPER: XVI - D

PARASITIC PROTOZOA AND HELMINTHS - I (Elective Paper)

Time: 02:00 hours

Max. Marks: 50

- N.B. 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram.

- | | |
|--|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 & 2
OR
Based on chapter 1 & 2 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 3
OR
Based on chapter 3 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 3
OR
Based on chapter 3 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Questions: (Answer In One Sentence)
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |

Pattern of Question Paper
B.Sc. V Semester
Course Code - ZOL- 502
PAPER: XVI - E

COMPUTER APPLICATION & LAB. TECHNOLOGY- I (Elective Paper)

Time: 02:00 hours

Max. Marks: 50

- N.B. 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram

- | | |
|--|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 to 4
OR
Based on chapter 1 to 4 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 5 to 7
OR
Based on chapter 5 to 7 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 8 to 11
OR
Based on chapter 8 to 11 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Questions: (Answer in One Sentence)
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |

Pattern of Question Paper
B.Sc. V Semester

Course Code - ZOL- 502

PAPER: XVI - F

BIOTECHNOLOGY - I (Elective Paper)

Time: 02:00 hours

Max. Marks: 50

- N.B.** 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram.

- | | |
|--|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 to 3
OR
Based on chapter 1 to 3 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 4 & 5
OR
Based on chapter 4 & 5 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 6 to 8
OR
Based on chapter 6 to 8 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Questions: (Answer in One Sentence)
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |

Pattern of Question Paper
B.Sc. V Semester
Course Code - ZOL- 502
PAPER: XVI - G
DAIRY TECHNOLOGY- I (Elective Paper)

Time: 02:00 hours

Max. Marks: 50

- N.B. 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram.

-
- | | |
|--|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 to 3
OR
Based on chapter 1 to 3 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 4 to 6
OR
Based on chapter 4 to 6 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 7 to 10
OR
Based on chapter 7 to 10 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Questions: (Answer in One Sentence)
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |

Pattern of Question Paper
B.Sc. V Semester
Course Code - ZOL- 502
PAPER: XVI - H
POULTRY SCIENCE - I (Elective Paper)

Time: 02:00 hours

Max. Marks: 50

- N.B. 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram.

- | | |
|--|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 & 2
OR
Based on chapter 1 & 2 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 3
OR
Based on chapter 3 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 4 to 7
OR
Based on chapter 4 to 7 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Questions: (Answer in One Sentence)
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |

B.Sc. VI Semester
Course Code – ZOL - 601
PAPER: XIX
EVOLUTION

1. Concept of organic evolution :- > Definition and concept. > Theories of organic evolution in brief. Preformation theory, Bear's Law, Biogenetic law, catastrophism, Lamarckism, Darwinism and Germplasm theory.	06
2. Origin of Life :- > Definition, Abiogenesis, Biogenesis. > Chemical evolution of life.	03
3. Evidences of Organic Evolution :- > Anatomical evidences. > Embryological evidences.	04
4. Darwinism :- > Introduction :- Natural selection theory. > Artificial selection theory and sexual selection theory.	05
5. Elemental forces of evolution :- > Mutation: - Concept and role in evolution. > Recombination: - Concept and role in evolution. > Natural selection: - Concept and role in evolution. > Isolation: - Concept and role in evolution. > Genetic Drift. : - Concept and role in evolution.	07
6. Basic patterns of evolution :- > Sequential and divergent evolution. > Microevolution: - Concept, silent features and mechanism with example. > Macro evolution: - Concept, silent features and mechanism with example. > Mega evolution: - Concept, silent features and mechanism with example.	09
7. Species and speciation:- > Species: - Morphological concept, Genetical concept, biological concept of species > Speciation: - Definition, concept, mechanism of speciation. > Allopatric, Sympatric and Parapatric speciation.	07
8. Fossils :- > Definition , fossil formation > Types of fossils.	04
Total Periods	45



B.Sc. VI Semester
Course Code - ZOL- 602
PAPER: XX - A
FISHARY SCIENCE – II
(Elective Paper)

FISH CULTURE AND FISH TECHNOLOGY

A. fish culture	
1. Introduction	15
a) Types of freshwater ponds-perennial and seasonal.	
b) Different types of ponds-nursery, rearing and stoking ponds.	
c) Design, contruction and maintenance of nursery, rearing and stocking ponds.	
d) Productivity of ponds	
e) principles of fish collection	
f) Fish culture methods	
g) Culture – cat fisheries	
h) Sewage fed fisheries	
2. Fish crop production (fish diseases)	06
Protozoan, fungal, bacterial, viral worms diseases	
3. Breeding of fishes	08
a) Natural spawning of carps	
c) Artificial breeding by hypophysation	
d) Common carp breeding	
B. fish technology	
4. Fish preservation and processing	08
a) Fish processing methods	
b) Fish –spoilage	
c) Value added products	
d) Sanitation and HACCP	
5. Crafts and gears	08
a) Different types of gears	
b) Different types of crafts	
c) Preservation of gears	
Total Periods	45



B.Sc. VI Semester
Course Code - ZOL- 602
PAPER: XX - B
ANIMAL CULTURE - II (Elective Paper)

SERICULTURE

1. History and general account of sericulture industry	02
Status, scope and problems of sericulture industry in India and Maharashtra.	02
1. Different types of silkworms, their systematic position and distribution.	03
2. life cycle of mulberry silk worm	
3. Morphology of different stages of B. mori. - Egg and types, larva, pupa, adult.	03
4. structure and working of silk gland	02
5. Food plants.	10
Brief account of food plants required for non -mulbabary silk worms.	
Systematic position and morphology of mulberry plant.	
Selection of variety, preparation of planting material	
Agro climate condition required for plantation	
Methods of plantation (mulberry cultivation)	
Maintenance of mulberry garden (irrigation and rainfed)	
Common diseases and pest of mulberry and their control.	
Harvesting and preservation of leaves	
6. Silk worm rearing	10
Rearing house, model rearing house and others.	
Rearing equipments and their uses.	
Disinfection of rearing house and equipments	
Egg incubation, buck boding and its importance.	
Hatching and brushing of larvae, methods of brushing	
Feeding and its schedule	
Bed cleaning, methods of bed cleaning	
Role of environmental conditions in rearing	
Moulting, care taken during moulting	
Spacing and its schedule	
Moulting spinning, harvesting of cocoon	
Transportation and marketing of cocoon.	
7. Important diseases, pest of silk worm and their control:-	04
Bacterial, fungal, viral, protozoan	
Pest predators- beetle, mites, ants, lizards, birds, rats etc	02
10. Introduction to post harvesting technology (reeling)	06
Cocoon stifing, methods of stifing.Preservation and storage of cocoons.Cocoon cooking, methods of cocoon coking	
Reeling- country charkha, filature.	
11. Sericulture as agro cottage, employment generating village industry.	01
12. Economics of sericulture.	01
Total Periods	45

B.Sc. VI Semester
Course Code - ZOL- 602
PAPER: XX - C
ENTAMOLOGY - II
(Elective Paper)

PEST MANAGEMENT

I	Pest -Definition, types of pest, agricultural, veterinary and medical pest.	06
II	Study of major crop pest - Classification, Characters. Jawar- Stem borer, Midge flies Cotton- Red cotton bug, pink bollworm Groundnut-White grub, pod sucking bug Sugarcane- Pyrilla, Stem borer.	12
III	Study of Stored grain pests: Rice weevil, pulse beetle	08
IV	Control measures of insect pest. Methods of control measures-Chemical, Biological, integrated pest management.	08
V	Migration of insect.	03
VI	Insecticides and plant protection appliances like Hand compression spray, Hand rotating duster, bucket pump	08
	Total Periods	45



B.Sc. VI Semester
Course Code - ZOL- 602
PAPER: XX - D
PARASITIC PROTOZOA AND HELMINTHES – II
(Elective Paper)

B- PARASITIC HELMINTHES

1. General characters and classification of helminthes	02
2. Structure ,life history, pathogenecity and control measure of the following;	
➤ <i>Schistosoma haematobium</i>	03
➤ <i>Amphilina</i>	02
➤ <i>Taenia Saginata</i>	02
➤ <i>Echinococcus granulossus</i>	02
➤ <i>Trichinella spiralis</i>	03
➤ <i>Enterobius vrmicularis</i>	03
➤ <i>Ancylostoma duodenale</i>	02
➤ <i>Wuchereria bancroftii</i>	03
➤ <i>Dracunculus medinensis</i> .	01
3. Gross morphology of Trematoda Cestoda and Nematode.	06
4. Reproductive organs of Trematodes Cestodes and Nematodes.	06
5. Body wall of Trematodes Cestodes and Nematodes.	06
Total periods: -	45



B.Sc. VI Semester

Course Code – ZOL - 602

PAPER: XX - E

COMPUTER APPLICATION AND MEDICAL LABORATORY TECHNOLOGY - II (ELECTIVE PAPER)

B-MEDICAL LABORATORY TECHNOLOGY

1. Basic Laboratory principles and procedure.

08

Introduction

Laboratory management system.

Responsibility of laboratory worker.

Laboratory safety and aids and Training of technician.

2. Basic requirement of Laboratory.

12

Glassware, solution and reagent, equipment and instruments.

(Autoclave, Hot air oven, Incubator, Water bath Centrifuge, Colorimeter, PH meter, Haemoglobometer, Micrometer, Glucometer.)

3. Routine examination of body fluids.

10

Collection and examination procedure /method with special reference to clinical significance.

Blood, HB percentage, WBC, RBC count, Homeostasis (mechanism of blood coagulation).

Urine- Physical examination (Color and Odour), Chemical examination

(Protein, Glucose, Bilurubin, Uroblinogene Blood, Ketone bodies, Acetone bodies)

Sputum- Microscopic examination.

Semen- Microscopic examination, Sperm count, Sperm motility, Sperm morphology, Examination for the presence of semen.

4. Basic histopathological techniques.

10

Collection, fixation, preparation of tissue for section

Staining and observations with critical comments.

5. Scope and importance of laboratory technique in clinical field of medical science.

05

Total Periods: - 45

B.Sc. VI Semester Course

Code - ZOL - 602

PAPER: XX - F

BIOTECHNOLOGY - II

(Elective paper)

1. Animal cell culture	06
Basic requirements, Culture media & sterilization	
Contamination and sterilization of laboratory.	
Application and limitations of cell culture	
2. Manipulation of reproduction and transgenic animals	05
Invitro fertilization, nuclear transplantation (Dolly sheep)	
Transgenic animals -methods	
(Retroviral vector method, microinjection and ES cell methods)	
3. Protein engineering	06
Site-directed mutagenesis (Cassette mutagenesis oligonucleotide directed)	
Applications of mutagenesis, Hybridoma technology	
Commercial production of enzymes	
4. Gene therapy and DNA fingerprinting	06
Introduction, ex vivo, in vivo gene therapy	
Antigene & antisense gene therapy	
DNA fingerprinting	
5. Human disease-diagnosis using biotechnology	02
6. Applications of biotechnology	06
Agriculture	
Medicine	
Industry	

Total Periods: - 45



B.Sc. VI Semester
Course Code - ZOL- 602
PAPER: XX - G
DAIRY TECHNOLOGY – II
(Elective paper)

1. Concentrated indigenous dairy products :-	08
> Definition, Composition, Methods of production and yield of Peda, Burfi, Rabdi, Basundi and Gulabjamun.	
2. Fermented indigenous dairy product: -	05
> Definition, Composition, Methods of production and yield of Chakka, Shrikhand and Shrikhand wadi.	
3. Frozen indigenous dairy product: -	06
> Definition Composition, Methods of production and yield of Kulfi, Malai ka Barf.	
4. Fat rich indigenous dairy product: -	06
> Definition Composition, Methods of production and yield of Butter and Ghee.	
5. Special milk :-	10
> Definition Composition and Methods of production of Milk Shake, Flowered milk, Toned milk, Fortified milk, Recombined milk and Soya milk.	
6. Study of microbial toxins in dairy products	05
7. Role of dairy industry as an entrepreneur for development of small scale industry.	05

Total Periods 45



B.Sc. VI Semester
Course Code - ZOL- 602
PAPER: XX - H
POULTRY SCIENCE - II
(Elective Paper)

1. Poultry Management ;	10
> Brooder management..- Housing, sanitation&hygiene,litter, Temperature space	
> Grower management.	
> Layer management.	
> Rising of Broilers.	
2. Housing for poultry;	14
> selection site for poultry form	
> Free range or extensive system.	
> Semi intensive system.	
> Intensive system.	
> Folding System	
3. Feeding of poultry.	05
Requirement of poultry feed, feed ingredients, Conventional and nonconventional poultry feed	
4. Processing of poultry products. Preservation of poultry products.	05
5. Marketing of poultry products.	03
6. Poultry diseases;	08
Parasitic, Protozoan	
Bacterial, Fungal.	
Total Periods	45



B.Sc. VI Semester
Course Code - ZOL - 603
PAPER: XXI
EVOLUTION (PRACTICAL)

1. Embryological evidences of evolution with the help of slide/chart/pictures.	02
2. Adaptive modification in feet of birds and mouth parts of insects	02
3. Study of successive stages of evolution with the help of models/charts > Horse > Human	02
4. Discussion on patterns of speciation with the help of charts /pictures. > Allopatric speciation > Sympatric speciation.	02
5. Study the homologous and analogous organs.	04
6. Study of natural selection using <i>E.coli</i> bacteria against antibiotics (Tetramycin/ Penicillin)	01
7. Study of geographical era.	02
Total Practical periods	15



B.Sc. VI Semester Course
Code - ZOL- 604
PAPER: XXII - A
FISHARY SCIENCE - II (PRACTICAL)
(Elective Paper)

1.	Primary productivity of ponds (plankton studies).	02
2.	Identification, classification and culturable significance of following Catla, rohu, mrigal, catfishes, exotic caroi	03
3.	Collection and identification of fish parasites and worms.	04
4.	Removal of fish pituitary gland and preparation of pituitary extract	02
5.	Identification of crafts and gears. Gill net, Rampanni, Satpalli, Machwa, Catamaran.	02
6.	A visit to fish farm and fish processing centre is compulsory.	02
Total Practical Periods		15



B.Sc. VI Semester Course
Code - ZOL- 604
PAPER: XXII – B
ANIMAL CULTURE – II (PRACTICAL)
(Elective Paper)

1.	Different stages of silk worm from egg to adult. stages (egg, sheet diff. ages of the larvae, pupa and adult.)	03
2.	Dissection of the silkworm to study the internal anatomy and mounting the silk glands, mounting of mouth parts spinner ate spiracle etc.	02
3.	Study of disease causing pests of larvae, pupa and adult.	03
4.	Equipment needed in silkworm rearing centre.	02
5.	mulberry leaves and utilization and study of mulberry varieties.	02
6.	Preparation of model of life cycle of <i>bombex mori</i> and submission at the time of Examination.	03
Total Practical Periods		15



B.Sc. VI Semester Course
Code - ZOL - 604
PAPER: XXII - C
ENTOMOLOGY - II (PRACTICAL)
(Elective Paper)

1	Collection, preservation and identification of Major crop pests (any five)	05
	Jawar- Stem borer, Midge flies,	
	Cotton- Red cotton bug, pink bollworm	
	Groundnut-White grub, pod sucking bug	
	Sugarcane- Pyrilla,	
2.	Identification of common stored grain pests.	02
	A- Rice Weevil	
	B- Rice beetle	
	C- Grain moths	
3.	Study of common plant protection appliances like Sprayers and dusters.	02
4.	Collection of major crop pests in locality and submission at the time of examination.	04
5.	Visit of an agricultural Field and field study report.	02
	Total Practical Periods	15



B.Sc. VI Semester Course

Code - ZOL - 604

PAPER: - XXII - D

PARASITIC PROTOZOA AND HELMINTHES - II (PRACTICAL)
(Elective Paper)

B-PARASITIC HELMINTHES

1. Study of microscopic structure of the following: 03
 - ✓ *Schistosoma* Species
 - ✓ *Fasciola hepatica*
 - ✓ Redai larva
 - ✓ Cercaria larva
 - ✓ V.S. Body wall of Fasciola.
 - ✓ *Mehrorchis*
 - ✓ *Ganeo*
 - ✓ *Tremorchis*
 - ✓ *Paramphistomum*
 - ✓ *Taenia Saginata*
 - ✓ *Echinococcus granulosus*
 - ✓ Scolex of *Taenia solium* and *Taenia saginata*.
 - ✓ Mature proglottids
 - ✓ Gravid proglottids
 - ✓ Hexacanth Larva
 - ✓ Body wall of tape worm
 - ✓ *Enterobius vermicularis*
 - ✓ *Ascaris lumbricoides* (Specimen)
 - ✓ T.S. of Body wall of *Ascaris*
 - ✓ T.S. of *Ascaris* Male and Female
 - ✓ *Ancylostoma* W.M.
 - ✓ *Microfilaria* W.M.
 - ✓ *Trichinella spiralis*
2. Collection preservation staining and identification of the Trematode parasite from the rectum of frog. 04
3. Collection preservation staining and identification of the Cestode parasite from the chick intestine 04
4. Collection, preservation, mounting and identification of the Nematode parasite from the vertebrate. 04

Total Practical periods: - 15



B.Sc. VI Semester Course
Code - ZOL- 604
PAPER: XXII - E
COMPUTER APPLICATION AND MEDICAL LABORATORY TECHNOLOGY – II
(PRACTICAL)
(Elective Paper)

MEDICAL LABORATORY TECHNOLOGY

- | | |
|---|----|
| 1. Study of laboratory equipments. | 02 |
| Autoclave, hot air oven, incubator water bath,
Centrifuge, refrigerator, colorimeter, PH meter,
Haemoglobinometer, microtome, and Glucometer. | |
| 2. Preparation of various reagents and fixatives. | 02 |
| 3. Histological techniques: preparation of biological material,
Fixing, embedding sectioning, staining, and mounting. | 02 |
| 4. Study of blood pressure apparatus, stethoscope. | 03 |
| 5. Blood analysis- Hb percentage
, Counting of WBC and RBC, Homeostasis. | 03 |
| 6. Urine analysis- Protein, Glucose, Bilurubin, Blood,
Ketone bodies, Acetone bodies,
Or any other normal and abnormal constituent. | 03 |

Total Practical periods: - 15



B.Sc. VI Semester Course
Code - ZOL- 604
PAPER: XXII – F
BIOTECHNOLOGY- II (PRACTICAL)
(Elective Paper)

A- Sterilization of glassware and chemicals in tissue culture	03
B- Preparation of culture media and sterilization	02
C- Assay of cell viability using dye.	02
D- Effect of pH on acid phosphatase activity	02
E- Study of chromosomal aberration	01
F- Pure Culture of airborne/water bacteria.	02
G- Study of antibiotic resistant /susceptibility of bacterial culture.	01
H- Demonstration of Animated methods of following Nuclear transplantation Hybridoma technique DNA fingerprinting Bt- cotton	02
Total Practical Periods	15

B.Sc. VI Semester Course
Code - ZDL- 604
PAPER: XIII - G
DAIRY TECHNOLOGY- II (PRACTICAL)
(Elective Paper)

1. Preparation of Peda.	01
2. Preparation of Burfi.	01
3. Preparation of Rabdi.	01
4. Preparation of Bastundi.	01
5. Preparation of Gulab Jamun.	01
6. Preparation of Chakka.	01
7. Preparation of Shrikhand.	02
8. Preparation of Shrikhandwadi.	01
9. Preparation of Kuli.	01
10. Preparation of Butter (Makhan).	01
11. Preparation of Ghee.	01
12. Preparation of Milk Shake.	01
13. Flavored milk.	01
14. Soya Milk.	01

Total Practical Periods 15



B.Sc. VI Semester
Course Code - ZOL- 604
PAPER: XXII - II
POULTRY SCIENCE - II (PRACTICAL)
(Elective Paper)

1. To study Poultry housing system.	03
2. To identify and study feed ingredients	02
3. To preservation of eggs.	02
4. To study Protozoan diseases	01
5. To study parasitic diseases.	01
6. To study Bacterial diseases.	01
7. To study fungal diseases.	01
8. to compute ration for chicken	01
9. to identify equipments in poultry farm	01
10. visit to poultry farm	01

Total Practical Periods 15



Pattern of Question Paper
B.Sc. VI Semester
Course Code - ZOL- 601
PAPER: XIX
EVOLUTION

Time: 02:00 hours

Max. Marks: 60

- N.B. 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram.

- | | |
|---|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 to 4
OR
Based on chapter 1 to 4 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 5 to 6
OR
Based on chapter 5 to 6 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 7 to 8
OR
Based on chapter 7 to 8 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Multiple choice questions:
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |



Pattern of Question Paper
B.Sc. VI Semester
Course Code - ZOL- 602
PAPER: XX - A
FISHARY SCIENCE - II (Elective Paper)

Time: 02:00 hours

Max. Marks: 60

- N.B. 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram.

- | | |
|---|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1
OR
Based on chapter 1 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 2 & 3
OR
Based on chapter 2 & 3 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 4 & 5
OR
Based on chapter 4 & 5 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Question (Answer in One Sentence):
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |



Pattern of Question Paper
B.Sc. VI Semester
Course Code - ZOL- 602
PAPER: XX - B
ANIMAL CULTURE - II (Elective Paper)

Time: 02:00 hours

Max. Marks: 60

- N.B. 1) Attempt all questions.
2) All question carry equal marks
3) Illustrate your answer with suitable labeled diagram.

- | | |
|---|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 to 7
OR
Based on chapter 1 to 7 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 8 to 10
OR
Based on chapter 8 to 10 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 11 to 13
OR
Based on chapter 11 to 13 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Question (Answer in One Sentence).
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |



Pattern of Question Paper
B.Sc. VI Semester
Course Code - ZOL- 602
PAPER: XX - C
ENTAMOLOGY - II (Elective Paper)

Time: 02:00 hours

Max. Marks: 50

- N.B. 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram.

- | | |
|---|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 & 2
OR
Based on chapter 1 & 2 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 3 & 4
OR
Based on chapter 3 & 4 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 5 & 6
OR
Based on chapter 5 & 6 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Question (Answer in One Sentence):
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |



Pattern of Question Paper

B.Sc. VI Semester

Course Code - ZO - 602

PAPER: XX - D

PARASITIC PROTOZOA & HELMINTHS - II (Elective Paper)

Time: 02:00 hours

Max. Marks: 50

- N.B. 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram.

- | | |
|---|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 & 2
OR
Based on chapter 1 & 2 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 2
OR
Based on chapter 2 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 3 to 5
OR
Based on chapter 3 to 5 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Question (Answer in One Sentence):
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |



Pattern of Question Paper
B.Sc. VI Semester
Course Code - ZOL- 602
PAPER: XX - E

COMPUTER APPLICATION & LABORATORY TECHNOLOGY - II (Elective Paper)

Time: 02:00 hours

Max. Marks: 50

- N.B. 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram.

- | | |
|---|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 & 3
OR
Based on chapter 1 & 3 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 2
OR
Based on chapter 2 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 4 & 5
OR
Based on chapter 4 & 5 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Question (Answer in One Sentence):
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |

Pattern of Question Paper
B.Sc. VI Semester
Course Code - ZOL- 602
PAPER: XX - F
BIOTECHNOLOGY - II (Elective Paper)

Time: 02:00 hours

Max. Marks: 50

- N.B. 1) Attempt all questions.
 2) All question carry equal marks.
 3) Illustrate your answer with suitable labeled diagram.

- | | |
|---|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 & 2
OR
Based on chapter 1 & 2 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 3 & 4
OR
Based on chapter 3 & 4 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 5 & 6
OR
Based on chapter 5 & 6 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Question (Answer in One Sentence):
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |



Pattern of Question Paper
B.Sc. VI Semester
Course Code - ZOL- 602
PAPER: XX - G
DAIRY SCIENCE - II (Elective Paper)

Time: 02:00 hours

Max. Marks: 50

- N.B. 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram.

- | | |
|---|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1 & 2
OR
Based on chapter 1 & 2 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 3 & 4
OR
Based on chapter 3 & 4 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 5 to 7
OR
Based on chapter 5 to 7 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Question (Answer in One Sentence):
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |



Pattern of Question Paper
B.Sc. VI Semester
Course Code - ZOL- 602
PAPER: XX - H
POULTRY SCIENCE-II (Elective Paper)

Time: 02:00 hours

Max. Marks: 50

- N.B. 1) Attempt all questions.
2) All question carry equal marks.
3) Illustrate your answer with suitable labeled diagram.

- | | |
|---|--|
| Q1. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 1
OR
Based on chapter 1 |
| Q2. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 2 & 5
OR
Based on chapter 2 & 5 |
| Q3. Long answer question.
OR
Short Notes on:
a)
b) | Based on chapter 3, 4 & 6
OR
Based on chapter 3, 4 & 6 |
| Q4. Long answer question.
OR
Short Notes on:
a)
b) | Based on all chapters
OR
Based on all chapters |
| Q5. Short Question (Answer in One Sentence):
1)
2)
3)
4)
5)
6)
7)
8)
9)
10) | Based on all chapters |



B.Sc. V + VI Semester
Course Code - ZOL- 503 + 603
PAPER: XVII + XXI
ECOLOGY + EVOLUTION (PRACTICAL)

Time: - 4:00 hrs

Total marks:-100

Q.1	Estimation ofof water sample. (DO/ CO ₂ /salinity/Chorinity) OR Estimation of primary productivity of pond water OR Estimation ofof Soil sample. (Alkalinity / Chlorinity / Salinity)	20
Q.2	study of natural selection of E.coli against.....antibiotics OR Comment on successive stages of evolution of Horse/ man	20
Q.3	Calculate the population density of given sample using Quadrat method. OR Identify and comment on homologous organs and analogous organs. (Any two)	10
Q.4	Identify the given spots and comment on it. (Embryological evidence -01, Adaptive modification- 02, Animal associationship- 02)	25
Q.5	submission of permanent slides (At least five)	10
Q.6	Record book	10
Q.7	Vivo-vice	05

Skeleton of question paper
B.Sc. V+VI Semester
Course Code - ZOL-504+604
PAPER: XVIII - A + XXII - A
FISHERY SCIENCES-I & II (PRACTICAL)
(Elective Paper)

Time: - 4:00 hrs

Total marks:-100

- | | | |
|-----|---|----|
| Q.1 | Estimation offrom given water sample.
(DO, Alkalinity, chlorinity, Hardness, etc.) | 15 |
| Q.2 | Identify any four primary producers from given sample
OR
Dissection offish to expose its pituitary gland. | 15 |
| Q.3 | Collection and Identification ofparasites from fish.
OR
Identify and comments on crafts and gars. | 15 |
| Q.4 | Identify and comments on given Spots.
(Major carp-03, brackish water-02, Marine water-03 culturable -02) | 30 |
| Q.5 | submission of project report | 10 |
| Q.6 | record book | 10 |
| Q.7 | Vivo-vice | 05 |



Skeleton of question paper
B.Sc. V+VI Semester
Course Code - ZOL-50 4+ 604
PAPER: XVIII - B + XXII - B
ANIMAL CULTURE -I& II (PRACTICAL)
(Elective Paper)

Time: - 4:00 hrs

Total marks:-100

- | | | |
|-----|---|----|
| Q.1 | Identify the types of bee hives and equipments used in apiculture. | 15 |
| | OR | |
| | Identify and comments on bee hive. | |
| Q.2 | Dissection of silkworm so as to expose its silk gland | 15 |
| Q.3 | Mounting of supplied material and write procedure followed. | 10 |
| Q.4 | Identification of given pests of silkworm and write their consequences. | 10 |
| Q.5 | Identify the given spots and comments on it | 25 |
| | (Equipments in apiculture-02, silkworm stages-01, types of bee -02) | |
| Q.6 | submission of model | 10 |
| Q.7 | record book | 10 |
| Q.8 | Vivo-vice | 05 |

Skeleton of question paper
B.Sc. V+VI Semester
Course Code - ZOL-504 + 604
PAPER: XVIII - C + XXII - C
ENTAMOLOGY - I & II (PRACTICAL)
(Elective Paper)

Time: - 4:00 hrs

Total marks:-100

-
- | | | |
|-----|--|----|
| Q.1 | Dissection of -----system of grasshopper. Leave the well labeled Diagram of the same. | 15 |
| Q.2 | study of major crop pest | 15 |
| Q.3 | Mounting / temporary preparation of supplied material | 10 |
| Q.4 | Identify and describe (any five)
(Stored grain pest-03, plant protection appliances-02) | 15 |
| Q.5 | Identify and comment on given spots.
(Insect specimen-03, human insect pest-02) | 20 |
| Q.6 | submission of collected insect and agricultural and field report | 10 |
| Q.7 | record book | 10 |
| Q.8 | vivo-vice | 05 |



Skeleton of question paper
B.Sc. V+VI Semester
Course Code - ZOL-504 + 604
PAPER: XVIII - D + XXII - D
PARASITIC PROTOZOA & HELMINTHS - I & II (PRACTICAL)
(Elective Paper)

Time: - 4:00 hrs

Total marks:-100

- | | | |
|-----|---|----|
| Q.1 | collect and identifyprotozoan from rectum of | 25 |
| | OR | |
| | Prepare the blood Smear and identify parasitic protozoa from it. | |
| Q.2 | Dissectand identify helminthes
(Frog rectum /chick intestine). | 20 |
| | OR | |
| | Dissect the given fish and identify the Helminthes from it. | |
| Q.3 | Identify the given helminthes larvae and comment on it. | 10 |
| Q.4 | identify the given spots and comments on it | 30 |
| Q.5 | record book | 10 |
| Q.6 | vivo-vice | 05 |



Skeleton of question paper
B.Sc. V+VI Semester
Course Code - ZOL- 504 + 604
PAPER: XVIII – E + XXII – E
COMPUTER APPLICATION AND
LABOLATORY TECHNIQUES –I & II (PRACTICAL)
(Elective Paper)

Time: - 4:00 hrs

Total marks:-100

- | | | |
|-----|--|----|
| Q.1 | Demonstrates any five DOS commands on computer and writes their syntax.
OR
Demonstrate and use of any two window commands | 20 |
| Q.2 | Give WBC/ RBC count of given blood sample write the procedure
OR
Find out the constitute of given urine sample and write the procedure | 20 |
| Q.3 | prepare the data sheet of given data on Excel sheet
OR
Search..... on internet and show to Examiner.
(Keyword related to zoology like ecosystem, urine formation, gene etc) | 10 |
| Q.4 | preparation of given solutions /fixative and write procedure followed for it.
OR
Preparation of block of given tissue for microtome | 10 |
| Q.5 | Identify the given Spots and comments on it.
(Computer hard-were - 03/ lab. Instruments -2) | 25 |
| Q.6 | Record book | 10 |
| Q.7 | Vivo-vice | 05 |

Skeleton of question paper
B.Sc. V+VI Semester
Course Code - ZOL-504+504
PAPER: XVIII - P + XXII - P
BIOTECHNOLOGY - I & II (PRACTICAL)
(Elective Paper)

Time: - 4:00 hrs

Total marks: 100

Q.1	Estimation of total DNA from tissue of OR Isolation of messenger RNA from tissue of	25
	OR Isolation of total DNA from tissue of	
Q.2	preparation of culture media for animal culture OR Sterilization of for tissue culture and write procedure. (Chemical / glassware/ lab) OR Effect of pH on acid phosphatase activity and Record the observation	25
Q.3	writes principle and application of..... OR Assay of cell viability using.....dye. OR Observation of susceptibility/resistant of..... antibiotic to bacterial stain.	20
Q.4	study of chromosomal aberration	15
Q.5	Record book	10
Q.6	Vivo-vice	05



Skeleton of question paper
B.Sc. V+VI Semester
Course Code - ZOL-504+504
PAPER: XVIII - G + XXII - G
DAIRY SCIENCES - I & II (PRACTICAL)
(Elective Paper)

Time: - 4:00 hrs

Total marks: 100

- | | | |
|-----|---|----|
| Q.1 | Insure the quality of given milk sample using methods
(At least two methods) | 25 |
| | OR | |
| | Determine the amount of fat in given milk sample. | |
| Q.2 | Prepare from milk | 20 |
| Q.3 | Determine the of milk (any one)
(Acidity, TS, SNF, MBR, SPC) | 10 |
| | OR | |
| | Prepare from milk. | |
| Q.4 | Identify and comments on following spots. (Milk products) | 30 |
| Q.5 | Record book | 10 |
| Q.7 | vivo-vicon. | 05 |



Skeleton of question paper
B.Sc. V+VI Semester
Course Code - ZOL-504 + 604
PAPER: XVIII - H + XXII - H
POULTRY SCIENCES -I & II (PRACTICAL)

Time: - 4:00 hrs

Total marks:-100

- | | | |
|-----|---|----|
| Q.1 | Identify and comment of given poultry breed | 20 |
| | OR | |
| | Identify and comment onsystem of poultry. | |
| | Leave the well labeled diagram of it. | |
| Q.2 | Identify and comment on equipments in poultry farm. | 20 |
| Q.3 | Identify the Stages of egg formation and comment on it. | 15 |
| | OR | |
| | Explain the poultry house system. | |
| Q.4 | Identify the given spots and comment on it. | 30 |
| | (Food ingredients-05/disease causing agents-05) | |
| Q.5 | Record book | 10 |
| Q.6 | vivo-vice | 05 |

RECOMMENDED BOOKS

ECOLOGY

- Chapman – Ecology- Cambridge low prize Edition.
- Verma and Agarwal- Principles of ecology
- Koromondy, E.J. Concepts of ecology. Prentice Hall, New Delhi.
- Clarke, G.L. Elements of Ecology. John Wiley & Sons, New York.
- Odum, E.P. -Fundamentals of Ecology. W.B. Saunders, Philadelphia.
- Krebs, C.J. -Ecology. Harper & Row, New York.
- Jorgensen, S.E.- Fundamentals of Ecological modelling. Elsevier, New York.
- P.D. Sharma- Ecology and Environment
- Dutta –Fundamentals of Ecology

EVOLUTION

- Dobzhansky, Th. Genetics and origin of Species. Colombia University Press
- Dobzhansky, Th., F.J. Ayala. G.L. Stebbens and J.M. Valentine.
- Evolution, Surjeet Publication, Delhi.
- Futuyama, D.J. Evolutionary Biology. Sinauer Associates, INS Publishers, Sunderland
- Jha, A.P. Genes and Evolution, John Publication, New Delhi
- King, M. Species Evolution – the role of chromosomal change.
- The Cambridge University Press, Cambridge.
- Merrel, D.J. Evolution and genetics. Oxford University Press, New York
- Strikberger, M.W. Evolution. Jones and Bartett Publishers, Boston, London.
- Moody –An Introduction to evolution
- Lull organic evolution
- P.K.Gupta- Ecology, genetics and Evolution
- Savage- Evolution
- Tomer and Singh – organic evolution, Rastogi Publication, merrut

FISHERY SCIENCES-I AND II

- Fish and fisheries of India – V.G Jhingran, Hindustan pub. Cor.india.
- Tropica fish farming- D.K.Belsare, Environmental publication, karad.
- Aquaculture – J.E.Bardach, J.H. Ryther,W.O. McLarney, Wiley Inter science A science of John Wiley and sons INC, New York.
- Text book of Fish Culture – Breeding and Cultivation of Fish- Marcel Huet, Fishing News books ltd. Farhman, Survey, England.

- Fish Farming Hand Book- E.E. Brown and J.B. graatzek. VI Pub.
- Freshwater fish pond culture and management – M. Chakroff Scientific Publisher Jodhpur.
- A text book of aquaculture-M.S. Reddy, Discovery publication house New Delhi.
- Encyclopedia of Fishes and Fisheries in India –A.K. Pandey, G.S. Sandu.Vol.IV Anmol publication ,New Delhi
- Freshwater Aquaculture- R.K.Rathi, Scientific Publisher Jodhpur.
- A Hand Book of fish farming- S.C. Agarwal, Narendra publication house, New Delhi.
- Methods of physico chemical analysis of water- Gottermanet.al.
- Induced breeding of carps – H. Choudhary and S.B.Singh.
- An introduction to fishes- S.S.Khana, central book depot. Allahabad.
- Manual of Methods in Fish Biology- S.P. Biswas, South Asian Publ. new, Delhi.
- Diseases of fish- Van Duiten Jr. Jitte book Landan.

ANIMAL CULTURE [APICULTURE]

- Beekeeping in India – khadi and village industries board gov. of maharashtra
- Techniques of bee keeping- CBR and training institute, pune.
- Invertebrate zoology –kotpal
- Anatomy of honeybee- syodross.R.E.

ANIMAL CULTURE [SERICULTURE]

- Hand book of practical sericulture-Narshihannu and Ullal
- Agro cottage industry – sericulture – C.J.Hiware.
- Tropical sericulture – tazima
- Sericulture manuals- 1st to 4th FAO publication.
- Bulletins of CSR and IT, Mysore




BIOTECHNOLOGY I&II

- Primrose, S. B. and Twyman, R. M., -Principles of Gene Manipulation and Genomics, (7th Ed. 2006), Blackwell Publishing, West Sussex, UK
- Bernard R. and Jack- Molecular Biotechnology: Principles and application of recombinant DNA, ASM Press, Herndon, USA
- R.C.Dubey & Maheshori - Biotechnology, S.Chand Publication
- B.D.Singh- Biotechnology-Himalaya publication
- Verma & Agarwal -Genetic engineering-S.Chand Publication
- Click Molecular Biotechnology
- Mayer R.A.-Molecular biology and Biotechnology
- satyanarayana-biotechnology.-

DAIRY TECHNOLOGY I&II

- S.K.De – outline of Dairy technology
- R.P. Aneja And et.al-Indian milk products,
- P.R.Gupta – Dairy Indian yearbook.(2007)


Dr. S. S. Shinde.
B.O.S. Chairman
Zoology

B.Sc. III year.
Botany.

8-30th May, 2015 AC after Circulars from Circular No.1 & onwards

DR. BABASAHEB AMBEDKAR MARATHIWADA UNIVERSITY

CIRCULAR NO.ACAD/SU/Sci./B.Sc. & M.Sc. Syll./5/2015

It is hereby notified for information to all the concerned that, on the recommendation of the Faculty of Science the Academic Council at its meeting held on 30-05-2015 has accepted the revised semester-wise syllabi as mentioned against their names in the Faculty of Science as under :-

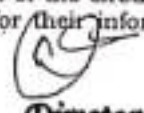
Sr. No.	Name of the Subject	Semester
[1]	B.Sc. Computer Science Degree Course	III & IV
[2]	B.Sc. Information Technology Degree Course	III & IV
[3]	B.C.A. Science Degree Course	III & IV
[4]	B.Sc. Animation Degree Course	III & IV
[5]	B.Sc. Bioinformatics Degree Course	III & IV
[6]	B.Sc. Computer Science [Optional]	III & IV
[7]	B.Sc. Information Technology [Optional]	III & IV
[8]	B.Sc. Computer Applications [Optional]	III & IV
[9]	B.Sc. Computer Maintenance [Optional]	III & IV
[10]	B.Sc. Environmental Science [Optional]	V & VI
[11]	B.Sc. Bio-Chemistry [Optional]	V & VI
[12]	B.Sc. Forensic Science Degree Course	V & VI
[13]	B.Sc. Industrial Chemistry [Optional]	V & VI
[14]	B.Sc. Electronics [Optional]	V & VI
[15]	B.Sc. Zoology [Optional]	V & VI
[16]	B.Sc. Microbiology [Optional]	V & VI
[17]	B.Sc. Instrumentation Practice [Optional]	V & VI
[18]	B.Sc. Statistics [Optional]	V & VI
[19]	B.A. Statistics [Optional]	V & VI
[20]	B.A. / B.Sc. Mathematics [Optional]	V & VI
[21]	B.Sc. Home Science Degree Course	V & VI
[22]	B.Sc. Textile Interior Decoration Degree Course	V & VI
[23]	B.Sc. Fishery Science [Optional]	V & VI
[24]	B.Sc. Dairy Science & Technology [Optional]	V & VI
[25]	B.Sc. Botany [Optional]	V & VI
[26]	B.Sc. Physics [Optional]	V & VI
[27]	M.Sc. Computer Science	III & IV
[28]	M.Sc. I.T.	III & IV

This is effective from the Academic Year 2015-16 & onwards as appended herewith.

All concerned are requested to note the contents of the circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REP.No.ACAD/SU/Sci./
2015/3761-4160
Date:- 16-06-2015.

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Director,
Board of College and
University Development.

S-30th May, 2015 AC after Circulars from Circular No.1 & onwards

- 7 -

:: 2 ::

Copy forwarded with compliments to:-

- 1] The Principals, affiliated concerned colleges,
Dr. Babasaheb Ambedkar Marathwada University

Copy to :-

- 1] The Controller of Examinations,
- 2] The Director, [E-Suvidha Kendra], in-front of Registrar's Quarter,
Dr. Babasaheb Ambedkar Marathwada University,
- 3] The Superintendent, [B.Sc. Unit],
- 4] The Superintendent, [M.Sc. Unit],
- 5] The Programmer [Computer Unit-1] Examinations,
- 6] The Programmer [Computer Unit-2] Examinations,
- 7] The Record Keeper.

S*/-160615/-

DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.



REVISED SYLLABUS

OF

B.Sc. Botany

THIRD YEAR

Fifth & Sixth Semester
[Effective from - June, 2015-16 & onwards]

DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD
Faculty of Science
B.Sc. III YEAR SYLLABUS
Subject- BOTANY
Semester- V AND VI

	Paper No.	Title of Paper	Lectures	Marks
B.Sc. III		SEMESTER - V		
	XV	Cell Biology and Molecular Biology	45	50
	XVI(A)	Diversity of Angiosperms - I	45	50
		OR		
XVI (B)	Plant Breeding and Seed Technology			
	OR			
	XVI (C)	Plant Pathology		
		OR		
		Biotechnology		

XVI(D)			
XVII	Practical based on Paper - XV	45	50
XVIII	Practical based on Paper - XVI	45	50
	SEMESTER - VI		
XIX	Genetics and Biotechnology	45	50
XX (A)	Diversity of Angiosperms - II		
	OR		
XX (B)	Economic Botany		
	OR		
XX (C)	Microbiology and Disease Management	45	50
	OR		
XX (D)	Bioinformatics		
XXI	Practical based on Paper - XIX	45	50
XXII	Practical based on Paper - XX	45	50

B.Sc. III Botany (Theory)
Semester -V
Paper XV
(Cell Biology & Molecular Biology)

(45L)

Unit-1

1. Cell:

Structure of Prokaryotic cell (Bacterial cell) and Eukaryotic cell
(plant cell)

(02)

2. Cell wall and cell organelles:

Structure and functions of cell wall and Cell organelles – Golgi complex,
Endoplasmic reticulum, Lysosomes

(08)

3. Nucleus:

Ultra structure, (nuclear membrane, nucleolus, chromatin material,
nucleoplasm), Functions of nucleus.

(05)

Unit-2

1. Cell division:

(06)

a) Cell cycle -G1 phase, S phase, G2 phase and M phase

b) Mitosis – definition, process and significance.

c) Meiosis-definition, process and significance.

(09)

2. Nucleic acids:

a. DNA: Definition, structure, chemical composition (nitrogenous bases, purines,

- pyrimidines, nucleosides, nucleotides, phosphate and sugars) Watson and Crick's model, Z - DNA, B - DNA, functions of DNA
- b. Replications of DNA – conservative, semi conservative and dispersive.
 - c. RNA: Structure, types and functions

Unit-3

1) Chromosome:

(07)

Definition, morphology-size, shape, number, Ultra structure – chromatid, chromonema, chromomere, centromere, kinetochore, secondary constriction, satellite, telomere, heterochromatin, euchromatin, Nucleosome model (Woodlock 1973), chemical composition, Functions of chromosome, Giant chromosomes-polytene and lampbrush chromosome.

2) Chromosomal aberrations :

(08)

- a) Structural-deletion, duplication, inversion and translocation
- b) Numerical: – euploidy and aneuploidy

B.Sc. III Year (Theory)

Semester – V

Paper XVI (A)

(Diversity of Angiosperms-I)

(45 L)

Unit: 1

1. Biodiversity

(03)

Definition, concept, origin and evolution

2. Types of biodiversity:

(05)

Species, genetic, ecological, cropland and agricultural diversity;
biodiversity in India; endemism and hot spots; threatened species,
threats to biodiversity

3. Conservation of biodiversity:

(07)

Major causes for loss of biodiversity, listing of threatened biodiversity;
threatened categories – extinct, endangered, vulnerable, rare and indeterminate.
Conservation measures: – ex-situ, and in-situ; biodiversity conservation in India.

Unit -2

Phytotaxonomy:

(08)

Classification of Angiosperms with special reference to Linnaeus,
A. P. de Candolle, Bentham and Hooker.

Study of diversity following families with reference to the system
of classification of Bentham and Hooker

(22)

- | | |
|--------------------|------------------|
| 1. Magnoliaceae | 2. Nymphaeaceae |
| 3. Papveraceae . | 4. Brassicaceae |
| 5. Capparidaceae . | 6. Rutaceae |
| 7. Rhamnaceae | 8. Combretaceae |
| 9. Lythraceae | 10.Cucurbitaceae |
| 11. Apiaceae | |

B. Sc. III Year (Theory)

Semester -V

Paper: XVI (B))

(Plant Breeding and Seed Technology) (45L)

Unit -1

Plant Breeding :

1. Introduction, history, aims and objectives (02)
2. Domestication, plant introduction and acclimatization (02)
3. Hybridization – history, hybridization procedure. (03)
4. Selection methods -mass selection, pureline selection and clonal selection (04)
5. Hybridization in self pollinating plants (03)
6. Hybridization in cross pollinating plants (03)
7. Heterosis and hybrid vigour (02)
8. Mutation in crop improvement (02)
9. Hybridization programme in Jowar and Cotton (06)
10. Experimental designs and biometrical techniques in plant breeding - Randomized block design, Latin square design, Analysis of variance, Assessment of variability, Simple measures of variability (03)

Unit -2

Seed Technology :

1. Seed technology -history, aims and objectives (01)
2. Morphology and anatomy of seed (monocot and dicot seed , endospermic and non endospermic seed) (02)
3. Stages of seed multiplication - (04)
 - a. nucleus seed
 - b. breeders seed
 - c. foundation seed
 - d. certified seed

e. registered seed

f. truthful seed

4. Seed certification process (02)
5. Stagewise multiplication of foundation and certified seed in Jowar and Cotton (02)
6. Seed processing – drying, cleaning, dressing, bagging, tagging, storage and marketing (02)
7. New techniques in seed technology (02)

B.Sc. III Year (Theory)

Semester -V

Paper XVI (C)

(Plant Pathology)

(45L)

Unit-1

Fundamentals of plant pathology:

1. Plant pathology – history, scope, losses due to pathogens, importance and need to study plant pathology (02)
2. Classification of plant diseases on the basis of symptoms and causal organisms – animate and inanimate (03)
3. Plant pathological institutes – IARI (Indian Agricultural Research Institute), ICRISAT(International Crop Research Institute for Semi Arid Tropics) (02)
4. Seed pathology – concept and importance of seed pathology, seed borne pathogens, methods to study seed borne pathogens (03)
5. Study of air borne pathogens: methods and applications (03)
6. Field and laboratory diagnosis of plant disease - Koch's postulates (02)

Unit-2

Plant diseases:

Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management:

- 1) Cereals: a. Black stem rust of wheat (05)
b. Grain smut of jowar
c. Ergot of bajra
- 2) Pulses: a. Wilt of pigeon pea (04)
b. Yellow vein mosaic of bean
- 3) Vegetables: a. Late blight of potato (05)
b. Little leaf of brinjal
c. Black rot of onion (*Aspergillus*) (04)
- 4) Oil seeds: a. Tikka disease of groundnut
b. Damping off of mustard
- 5) Cash crops: a. Grassy shoot of sugarcane (06)
b. Downy mildew of grapes
c. Angular leaf spot of cotton d. Citrus canker
- 6) Ornamentals: a. Powdery mildew of rose (02)
- 7) Weeds: a. Rust of Euphorbia (02)

B. Sc. III Year (Theory)

Semester- V

Paper XVI (D)

(Biotechnology)

(45L)

Unit- 1

Biotechnology:

1. Introduction:
 - a. Definition, scope and multidisciplinary nature (05)
 - b. Biotechnology in India
2. DNA structure, replication and recombination: (05)
 - a. Structure of DNA
 - b. Replication of DNA, Role of DNA polymerase
 - c. Denaturation and renaturation of DNA
 - d. Recombination
3. Recombinant DNA technology: (15)
 - a. Introduction, principles and procedure
 - b. Enzymes involved in recombinant DNA technology
 - c. Vectors
 - d. Southern and Northern blotting technique
 - e. Techniques in gene mapping
 - f. DNA fingerprinting g. PCR
 - h. DNA sequencing i. Genomics and DNA libraries
4. Genetic engineering: (05)
 - a. Introduction to transgenic plants
 - b. Vectors for gene deliveries
 - c. Marker and reporter genes
 - d. Role of agriculture in crop biotechnology
 - e. Achievements in plant biotechnology

Unit-2

1. Plant tissue culture: (10)
 - a. Principles of tissue culture
 - b. Terminology in tissue culture
 - c. Cellular differentiation and totipotency
 - d. Organogenesis and embryogenesis
 - e. Protoplast isolation and culture
 - f. Meristem culture
 - g. Anther culture
 - h. Applications of tissue culture
2. Research projects: (05)

- a. Human genome project b. Plant genome project
- c. DBT, Ministry of Science and Technology.

B.Sc. III Botany (Practical)

Semester -V

Paper XVII

(Cell Biology & Molecular Biology)

(45 L)

Unit-1

1. Study of the cell structure from onion leaf or *Tradescantia* leaf
2. Preparation of cytological (AA, FAA etc.) fixatives and stains
(acetocarmine, aceto-orcein).
3. Study of electron micrographs of viruses, bacteria and cyanobacteria
4. Study of electron micrographs of eukaryotic cell and different cell organelles
5. Preparation of slides for the study of mitosis (root tips of onion)
6. Preparation of slides for the study of meiosis (*Rhoeo*, *Aloe* or onion flower buds)
7. Preparation of idiogram from the given micrograph of karyotype
8. Observation of giant chromosomes in *Chironomous* larvae
9. Preparation of wool models of mitosis, meiosis, cell structure,
Chromosome, DNA and RNA.

B.Sc. III Year (Practical)
Semester - V
Paper XVIII (A)
(Diversity of Angiosperms-I)

(45 L)

Unit 1

1. Study of herbarium
2. Study of analytical characters
3. Preparation of indented and bracketed keys
4. Study of following families:
 1. Magnoliaceae
 2. Nymphaeaceae
 3. Papaveraceae
 4. Brassicaceae
 5. Capparidaceae
 6. Rutaceae,
 7. Rhamnaceae
 8. Combretaceae
 9. Lythraceae
 10. Cucurbitaceae
 11. Apiaceae.
5. Mounting of pollen grains (acetolysis method)

Note: Students should undertake excursion to ecologically different areas for plant study and submission of list and photographs of wild plants at the

time

B. Sc. III Year (Practical)
Semester -V
Paper: XVIII (B)
(Plant Breeding and Seed Technology)

Unit -1

(45 L)

Plant breeding:

1. Study of floral biology of jowar and cotton
2. Demonstration of male sterility in jowar
3. Artificial emasculation and pollination in jowar and cotton
4. Demonstration of hybridization techniques in jowar and cotton
5. Designing of field experiments
6. Visit to plant breeding centre

Seed technology:

1. Study of morphology and anatomy of monocot, dicot, endospermic and non endospermic seeds
2. Study of seed germination – observation of normal and abnormal seedlings, germination percentage
3. Blotter test
4. Method of breaking seed dormancy
5. Study of various seed processes – drying, cleaning, dressing, bagging, tapping and marketing
6. Preparation of seed certification tag
7. Viability test (Tetrazolium test)
8. Visit to various seed farms and research centres

B.Sc. III Year (Practical)
Semester -V
Paper XVIII (C)
(Plant Pathology)

(45L)

Unit-1

1. Study of Koch's postulates – isolation, inoculation and disease development
2. Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management
 - 1) Cereals:
 - a. Black stem rust of wheat
 - b. Grain smut of jowar
 - c. Ergot of bajra
 - 2) Pulses:
 - a. Wilt of pigeon pea
 - b. Yellow vein mosaic of bean
 - 3) Vegetables:
 - a. Late blight of potato
 - b. Little leaf of brinjal
 - c. Black rot of onion (*Aspergillus*)
 - 4) Oil seeds:
 - a. Tikka disease of groundnut
 - b. Damping off of mustard
 - 5) Cash crops:

- a. Grassy shoot of sugarcane
 - b. Downy mildew of grapes
 - c. Angular leaf spot of cotton
 - d. Citrus canker
- 6) Ornammentals:
Powdery mildew of rose
- 7) Weeds:
Rust of Euphorbia
- 8) Trees:
Cercospora on *Albizzia* fruits

B. Sc. III Year (Practical)
Semester- V
Paper XVIII (D)
(Biotechnology)

(45L)

Unit- 1

1. Principle and working of instruments in biotechnology laboratory - Autoclave / Pressure Cooker, Centrifuge, Hot plate, Water bath, Laminar Air flow, Oven, Microscope, pH Meter, Refrigerator, Magnetic Stirrer, Shaker, Agarose Gel Electrophoresis, Green House etc.
2. Sterilization of glasswares
3. Preparation of sterile media, nutrient broth, PDA, M.S. medium, B5 medium, White medium
4. Isolation of bacteria and fungi from air
5. Demonstration of meristem culture
6. Demonstration of anther culture
7. Separation of amino acids by gel electrophoresis

- i. Introduction -G.J. Mendel
- ii. Mendelian principles –Law of Dominance , law of segregation, law of independent assortment, back cross and test cross

2. Interaction of genes:

- i. Allelic interaction: incomplete dominance, co dominance, lethal genes and blood group inheritance (07)
- ii. Non allelic and non epistatic -comb shapes in fowls
- iii. Non allelic and epistatic:
 - a) Complementary genes or duplicate recessive epistasis (9:7)
 - b) Supplementary genes or recessive epistasis (9:3:4)
 - c) Dominant epistatic genes or dominant epistasis (12:3:1)
 - d) Duplicate genes or duplicate dominant epistasis (15:1)

3. Sex determination:

- i. Chromosomal theory of sex determination (04)
- ii. Mechanism of sex determination in man (xx -xy), *Drosophila* (xx and xy), birds (zz-zw), grasshopper (xx-xo) and genic balance theory in *Drosophila*
- iii. Sex determination in plants – *Melandrium*

Unit : 2

1. Sex linked inheritance:

X, XY and Y linked inheritance:

- i) Colourblindness and hemophilia in man ii) Holandric genes
- iii) White eye colour in *Drosophila* iv) Gynandromorphs

2. Structure and function of gene:

- i. Fine structure of gene (Seymour Benzer)
- ii. One gene one enzyme hypothesis
- iii. Genes and related diseases – phenylketonuria, and alkaptonuria
- iv. Detection of genetic diseases –amniocentesis Genetic counseling

Unit: 3

B.Sc. III Year (Theory)
Semester - VI
Paper XX (A)
(Diversity of Angiosperms-II)

(45 L)

Unit: 1

Plant identification: keys, herbaria and botanical gardens

(04)

Origin of angiosperms: origin and evolution, Bennettitalean,

Ranalian and Caytonial theory

(05)

Binomial nomenclature: Principles and rules

(03)

Modern trends in taxonomy:

(03)

Cytotaxonomy, chemotaxonomy, and numerical taxonomy

Unit: 2

1. Phytotaxonomy:

(10)

Study of Engler & Prantle, Hutchinson, Takhtajan system of classification

2.Study of diversity of families:

(20)

- a. Asclepiadaceae
- b. Scrophulariaceae
- c. Oleaceae
- d. Convolvulaceae
- e. Verbenaceae
- f. Amaranthaceae
- g. Euphorbiaceae
- h. Orchidaceae
- i. Liliaceae
- j Commelinaceae

B. Sc. III Year (Theory)

Semester- VI

Paper: XX (B)

(Economic Botany)

(45L)

Unit -1

Origin, morphology, production, cultivation practices, harvesting and uses of crop plants.

- a) Cereals: Maize, Pearl millet and Rice
- b) Pulses: Bengal gram, Black gram and Pigeon pea
- c) Oil seed crops: Soybean, Mustard and Castor

Unit -2.

- a) Fibre crops: Jute, Sunhemp and Cotton
- b) Horticultural crops: Banana, Orange and Mango
- c) Ornamentals: Rose, Orchids and *Chrysanthemum*

Unit -3.

- a) Beverages: Tea and Coffee

- b) Forage crops: Cowpea, Jowar and Lucerne
- c) Vegetable crops: Brinjal, Potato, Tomato and Onion
- d) Condiments and Spices: Cardamom, Black pepper and Chillies

B.Sc. III Year (Theory)
Semester -VI
Paper XX (C)
(Microbiology and Disease Management)

(45L)

Unit-1

1. Microbiology

Microorganisms in biological world, their classification and features of different groups

2. Microbial techniques:

- a. Microscopy – simple, compound and electron microscope
- b. Micrometry – Principle, working and uses
- c. Staining – common stains used in pathology, their preparation and significance, (cotton blue and Gram's Stain)
- d. Sterilization of glass wares and media

(03)

3. Culture media for isolating plant pathogen

Industrial application of microorganisms - organic acids, alcohol, milk products, antibiotics and bio pesticides

(06)

(06)

Unit-2

Disease management:

1. Preventive methods: field sanitation, use of clean planting material, crop rotation, trap crops, time of sowing, planting distance and tillage

(02)

2. Control methods –

- a. Seed treatment: concept, objective, traditional and modern methods of seed treatment

(02)

- b. Soil sterilization: concept, objectives and methods

(02)

- c. Fungicides: Definition, classification and ideal characteristics of fungicides, study of fungicides with respect to active ingredients, formulations, methods of application, mode of action and uses

(08)

- i. Sulphur fungicides – Inorganic – Wettable sulphur, Organic – Thiram

- ii. Copper fungicides

- iii. Mercuric chloride – Agrosan – GN

- iv. Heterocyclic nitrogenous compounds – Captan

- v. Benzene compounds – Dexon

- vi. Antibiotics – Streptomycin and Aureofungin (01)
 - vii. Systemic – Bavistin and Vitavax (01)
 - d. Pesticides: Nicotin,Neem and pyrethrum (01)
 - e. Rhodenticides – Zinc phosphoid (01)
 - f. Nematicides- Nemagon, Propoxar (02)
 - g Weedicides- 2,4-D (01)
 - h. Biological control- definition, need, examples and role (02)
- Plant quarantine (01)
3. Control measures and environment: pollution due to chemicals, residual effects, toxicity, safe measures, colour code, antidote, symptoms of poisoning, precautions in using pesticides (03)
4. Pesticide application equipments: principle and working –pneumatic air pump knapsack sprayer, mist blower and duster, types of nozzles (03)
5. Plant clinic: Concept, objective and need (01)
6. Recent techniques in plant pathology: Genetically modified organisms (GMO's), B. T. Cotton, Pheromones (02)

B. Sc. III Year (Theory)
Semester- VI
Paper XX (D)
(Bioinformatics)
(45L)

Unit- 1

1. Introduction to bioinformatics and its applications (03)
2. Sampling, sample size, sampling techniques (03)
3. Data collection and presentation: (05)
 - a. Types of data
 - b. Methods of data collection
 - c. Data presentation - line chart, bar chart, histogram, polygon, ogive curve, pie diagram
4. Measures of central tendency: (04)
 - a. Mean
 - b. Median
 - c. Mode ,

Unit - 2

1. Measures of variability: (05)
 - a. Mean deviation,
 - b. Standard deviation
 - c. Coefficient of variation
 - d. Standard error
2. Probability, chi-square test, t - test (05)
3. Introduction to computer basics- general characters, types of computer (03)
4. Hardware-input and output devices, CPU, storage devices (02)

Unit - 3

1. Software - MSDOS, Windows, Linux, concept of files and folders and directories,

(08)

Application software - Word processor, Spread sheet, Presentation, MS-access, html document

2. Networking technology - LAN, WAN, Arpanet, Internet, Web browsing and servers - Netscape navigator, Internet explorer, search engines like yahoo,

B.Sc. III Year (Practical)
Semester – VI
Paper XXII (A)
(Diversity of Angiosperms-II)

(45 L)

1 . Study of following families:

1. Oleaceae
 2. Asclepiadaceae
 3. Convolvulaceae
 4. Scrophulariaceae
 5. Verbenaceae
 6. Amaranthaceae
 7. Euphorbiaceae
 8. Orchidaceae
 9. Liliaceae
 10. Commelinaceae
2. Mounting of pollen grains (acetolysis method) and measurement of pollen size.
 3. Study of different types of stomata and epidermal structures
(Trichome)
 4. Identification of plants up to species by using flora (Flora of Bombay
Presidency/ Flora of Marathwada)
 5. Students should undertake excursion to ecologically different areas for plant

B. Sc. III Year (Practical)
Semester- VI
Paper: XXII (B)
(Economic Botany)

(45L)

Economic Botany:

1. Study of morphology, structure and simple histochemical tests of food storing tissues in Maize, Rice, Jowar, Gram, Pigeon pea, Potato
2. Study of histochemical tests of lignin and cellulose (Jute, Cotton, Sunhemp)
3. Hand section of Groundnut, Sunflower and staining of oil droplets
4. Study of plantation crops (Tea and Coffee)
5. Study of condiments and spices (Cardamom, Black Pepper and Chillies)
6. Study of horticultural crops (Banana, Orange and Mango)
7. Study of Vegetable crops (Brinjal, Potato, Onion, Tomato)
8. Study of ornamental plants (Rose and *Chrysanthemum*)

B.Sc. III Year (Practical)
Semester -VI
Paper XXII (C)
(Microbiology and Disease Management)

(45L)

1. Study of fungicides as per theory syllabus
2. Preparation of Bordeaux mixture, burgundy mixture and Bordeaux paste
3. Study of insecticides with respect to active ingredient, colour code, formulation, mode of action, antidote and uses
4. Study of *Trichoderma* culture
5. Study of plant protection equipments -pneumatic air pump, knapsack sprayer, mist blower cum duster
6. Principle and working of autoclave, laminar air flow, Tilak air sampler
7. Use of aerobiological techniques to study fungal spora (gravity slide method, Tilak air sampler)
8. Calibration of microscope and measurement of fungal spores
9. Sketching of fungal spore by camera lucida technique
10. Detection of organic acids from healthy and infected leaves by circular paper chromatography
11. Detection of Amino acids from healthy and infected leaves by circular paper chromatography
12. Study of pathogens in fruits from local market
13. Study of fungi from locally available seed samples
14. Preparation of sterile media - nutrient agar, potato dextrose agar
15. Preparation of stains and mounting media - cotton blue, lacto phenol and gram stain

B. Sc. III Year (Practical)
Semester- VI
Paper XXII (D)
(Bioinformatics)

(45L)

1. Use of operating system and creation of a job from word processor, spread sheet, presentation and data base
2. Creating files, folders and directories
3. Internet browsing and downloading information with special reference to biological literature
4. Creating an e - mail account, sending and receiving e - mail
5. Graphical presentation of data
6. Computer based statistical techniques
7. Frequency table of single discrete variable
8. Computation of mean, median, and mode
9. Computation of mean deviation, standard deviation, coefficient of variation, variance, and standard error
10. Computation of chi- square test, and t - test
11. Students should undertake a visit biotechnology industry, biotechnology research laboratory
