



Dr. Bhimrao Ambedkar University, Agra

A State University of Uttar Pradesh (Formerly: Agra University, Agra)

www.dbrau.ac.in

Highlighted New Courses

Dr. Bhimrao Ambedkar University, Agra

National Education Policy-2020

Common Minimum Syllabus for all U.P. State Universities

Semester-wise Titles of the Papers in B.Sc. (Statistics)

| Year | Sem. | Course Code | Paper Title | Theory/Practical | Credits |
|------|------|-------------|--|------------------|---------|
| I | I | B060101T | Descriptive Statistics (Univariate) and Theory of Probability | Theory | 04 |
| | | B060102P | Descriptive Data Analysis Lab (Univariate) | Practical | 02 |
| | II | B060201T | Descriptive Statistics (Bivariate) and Probability Distributions | Theory | 04 |
| | | B060202P | Descriptive Data Analysis Lab (Bivariate) | Practical | 02 |
| II | III | B060301T | Theory of Estimation and Sampling Survey | Theory | 04 |
| | | B060302P | Sampling Survey Lab | Practical | 02 |
| | IV | B060401T | Testing of Hypothesis and Applied Statistics | Theory | 04 |
| | | B060402P | Test of Significance and Applied Statistics Lab | Practical | 02 |
| III | V | B060501T | Multivariate Analysis and Nonparametric Methods | Theory | 04 |
| | | B060502T | Analysis of Variance and Design of Experiment | Theory | 04 |
| | | B060503P | Non-parametric Methods and DOE Lab | Practical | 02 |
| | VI | B060601T | Statistical Computing and Introduction to Statistical Software | Theory | 04 |

| | | | | | |
|--|--|-----------------|---|-----------|----|
| | | B060602T | Operations Research | Theory | 04 |
| | | B060603P | Operations Research and Statistical Computing Lab | Practical | 02 |

Semester-wise Titles of the Papers in B.Sc. (Physics)

| SEMESTER-WISE TITLES OF THE PAPERS IN UG PHYSICS COURSE | | | | | |
|--|------------|-----------------|--|--------------------|----------|
| YEAR | SEME-STER | COURSE CODE | PAPER TITLE | THEORY / PRACTICAL | CREDIT |
| CERTIFICATE -IN BASIC PHYSICS & SEMICONDUCTOR DEVICES | | | | | |
| FIRST YEAR | I | B010101T | Mathematical Physics & Newtonian Mechanics | Theory | 4 |
| | | B010102P | Mechanical Properties of Matter | Practical | 2 |
| | II | B010201T | Thermal Physics & Semiconductor Devices | Theory | 4 |
| | | B010202P | Thermal Properties of Matter & Electronic Circuits | Practical | 2 |
| DIPLOMA - IN APPLIED PHYSICS WITH ELECTRONICS | | | | | |
| SECOND YEAR | III | B010301T | Electromagnetic Theory & Modern Optics | Theory | 4 |
| | | B010302P | Demonstrative Aspects of Electricity & Magnetism | Practical | 2 |
| | IV | B010401T | Perspectives of Modern Physics & Basic Electronics | Theory | 4 |
| | | B010402P | Basic Electronics Instrumentation | Practical | 2 |
| DEGREE -IN BACHELOR OF SCIENCE | | | | | |
| THIRD YEAR | V | B010501T | Classical & Statistical Mechanics | Theory | 4 |
| | | B010502T | Quantum Mechanics & Spectroscopy | Theory | 4 |
| | | B010503P | Demonstrative Aspects of Optics & Lasers | Practical | 2 |
| | VI | B010601T | Solid State & Nuclear Physics | Theory | 4 |
| | | B010602T | Analog & Digital Principles & Applications | Theory | 4 |
| | | B010603P | Analog & Digital Circuits | Practical | 2 |

SUBJECT: MATHEMATICS

| SEMESTER WISE TITLES OF THE PAPER IN UG MATHEMATICS COURSE | | | | | |
|--|--------------------------|----------------|--|----------------------|------------|
| YEAR | SE M ES TE R | COURSE CODE | PAPER TITLE | THEORY/P RACTICAL | CREDI T |
| CERTIFICATE COURSE IN APPLIED MATHEMATICS | | | | | |
| FIRST YEAR | I | B030101T | Differential Calculus & Integral Calculus | THEORY | 4 |
| | | B030102P | PRACTICAL | PRACTICAL | 2 |
| | II | B030201T | Matrices and Differential Equations & Geometry | THEORY | 6 |
| DIPLOMA IN MATHEMATICS | | | | | |
| SECON D YEAR | III | B030301T | Algebra & Mathematical Methods | THEORY | 6 |
| | IV | B030401T | Differential Equation & Mechanic | THEORY | 6 |
| DEGREE IN MATHEMATICS | | | | | |
| THIRD YEAR | V | B030501T | Group and Ring Theory & Linear Algebra | THEORY | 5 |
| | | B030502T | Any One of The Following (i) Number Theory & Game Theory (ii) Graph Theory & Discrete Mathematics (iii) Differential Geometry & Tensor Analysis | THEORY | 5 |
| | VI | B030601T | Metric Space & Complex Analysis | THEORY | 4 |
| | | B030602T | Numerical Analysis & Operations Research | THEORY | 4 |
| | | B030603P | PRACTICAL | PRACTICAL | 2 |

Semester wise titles of the papers for B.Sc. (Microbiology)

| Year | Semester | Course Code | Paper Title | Theory /Practical | Credits |
|------|----------|-------------|--|-------------------|---------|
| 1 | I | B080101T | General Microbiology | Theory | 04 |
| | | B080102P | Experiments in Basic Microbiology | Practical | 02 |
| | II | B080201T | Agriculture and Environmental Microbiology | Theory | 04 |
| | | B080202P | Experiments in Agriculture and Environmental Microbiology | Practical | 02 |
| 2 | III | B080301T | Basic Biochemistry and Microbial Physiology | Theory | 04 |
| | | B080302P | Experiments in Basic Biochemistry and Microbial Physiology | Practical | 02 |
| | IV | B080401T | Molecular Biology and Microbial Genetics | Theory | 04 |
| | | B080402P | Experiments in Molecular Biology and Microbial Genetics | Practical | 02 |
| 3 | V | B080501T | Medical Microbiology | Theory | 04 |
| | | B080502T | Immunology | Theory | 04 |
| | | B080503P | Experiments in Medical Microbiology & Immunology | Practical | 02 |
| | VI | B080601T | Food Microbiology | Theory | 04 |
| | | B080602T | Industrial Microbiology | Theory | 04 |
| | | B080603P | Experiments in Food & Industrial Microbiology | Practical | 02 |

BA (History)

Semester-wise Titles of the Papers in BA (History)

| Year | Sem. | Course Code | Paper Title | Theory / Practical | Credits |
|------|------|-------------|---|--------------------|---------|
| 1 | I | A050101T | Ancient and Early Medieval India (Till 1206 A.D.) | Theory | 6 |
| 1 | II | A050201T | History of Medieval India (1206 A.D.-1757 A.D.) | Theory | 6 |
| 2 | III | A050301T | History of Modern India (1757 A.D. – 1950 A.D.) | Theory | 6 |
| 2 | IV | A050401T | History of Modern World (1453A.D. – 1950 A.D.) | Theory | 6 |
| 3 | V | A050501T | Nationalism in India. | Theory | 5 |

| | | | | | |
|---|----|----------------------|---|---------|---|
| 3 | V | A050502T Optional | History of Modern World (1453 A.D. – 1815A.D.) | Theory | 5 |
| | | A050503T Optional | Socio-Cultural and Economic History of Medieval India (1200A.D.- 1700 A.D.) | Theory | 5 |
| | | A050504T Optional | Ethics in History | Theory | 5 |
| 3 | V | A050501R | Project 1 | Project | 3 |
| 3 | VI | A050601T | Era of Gandhi and Mass Movement. | Theory | 5 |
| 3 | VI | A050602T Optional | History of Modern World (1815A.D.- 1945A.D.) | Theory | 5 |
| | | A050603T Optional | Socio-Cultural and Economic History of Modern India (1700A.D.- 1900 A.D.) | Theory | 5 |
| | | A050604T Optional | History and its Professional Utility | Theory | 5 |
| 3 | VI | A050601R | Project 2 | Project | 3 |

PROPOSED STRUCTURE OF BA HINDI SYLLABUS

| वर्ष | सेमेस्टर | कोर्स कोड | प्रश्नपत्र का शीर्षक | लिखित/प्रयोगात्मक | क्रेडिट्स |
|--------------------|----------|-----------|---|-------------------|-----------|
| बी०ए० प्रथम वर्ष | प्रथम | A010101T | हिन्दी काव्य | लिखित | 06 |
| बी०ए० प्रथम वर्ष | द्वितीय | A010201T | कार्यालयी हिन्दी और कम्प्यूटर | लिखित | 06 |
| बी०ए० द्वितीय वर्ष | तृतीय | A010301T | हिन्दी गद्य | लिखित | 06 |
| बी०ए० द्वितीय वर्ष | चतुर्थ | A010401T | हिन्दी अनुवाद | लिखित | 06 |
| बी०ए० तृतीय वर्ष | पंचम | A010501T | साहित्यशास्त्र और हिन्दी आलोचना | लिखित | 05 |
| बी०ए० तृतीय वर्ष | पंचम | A010502T | हिन्दी का राष्ट्रीय काव्य | लिखित | 05 |
| बी०ए० तृतीय वर्ष | षष्ठ | A010601T | भाषा विज्ञान, हिन्दी भाषा तथा देवनागरी लिपि | लिखित | 05 |
| बी०ए० तृतीय वर्ष | षष्ठ | A010602T | लोक साहित्य एवं लोक संस्कृति | लिखित | 05 |

Semester-wise Titles of the Papers in BA (Geography)

| Year | Sem. | Course Code | Paper Title | Theory/Practical | Credits |
|------|------|-------------|---|------------------|---------|
| 1 | I | A110101T | Physical Geography | Theory | 4 |
| 1 | I | A110102P | Elements of Map and Surveying | Practical | 2 |
| 1 | II | A110201T | Human Geography | Theory | 4 |
| 1 | II | A110202P | Thematic Mapping and Surveying | Practical | 2 |
| 2 | III | A110301T | Environment, Disaster Management and Climate Change | Theory | 4 |
| 2 | III | A110302P | Statistical Techniques and Surveying | Practical | 2 |
| 2 | IV | A110401T | Economic Geography | Theory | 4 |
| 2 | IV | A110402P | Weather Maps, Geological Maps and Surveying | Practical | 2 |
| 3 | V | A110501T | Regional Geography | Theory | 4 |
| 3 | V | A110502T | Basics of Remote Sensing and GIS | Theory | 4 |
| 3 | V | A110503R | Tour and Tour report | Practical | 2 |
| 3 | V | A110504R | Project Report-1 | Practical | 3 |
| 3 | VI | A110601T | Geography of India | Theory | 4 |
| 3 | VI | A110602T | Evolution of Geographical Thoughts | Theory | 4 |
| 3 | VI | A110603P | Remote Sensing and GIS | Practical | 2 |
| 3 | VI | A110604R | Project Report-2 | Practical | 3 |

Semester-wise Titles of the Papers in BA (Fine Art)

| Year | Sem. | Course Code | Paper Title | Theory/ Practical | Credits |
|------|------|-------------|--|-------------------|---------|
| 1 | I | A140101T | History of Indian Art- 1 | Theory | 4 |
| 1 | I | A140102P | Drawing and color studies | Practical | 2 |
| 1 | II | A140201T | Fundamentals of Art | Theory | 4 |
| 1 | II | A140202P | Drawing and Sketching | Practical | 2 |
| 2 | III | A140301T | History of Indian Sculpture Art | Theory | 4 |
| 2 | III | A140302P | Still Life with Colour | Practical | 2 |
| 2 | IV | A140401T | Aesthetics | Theory | 4 |
| 2 | IV | A140402P | Photography | Practical | 2 |
| 3 | V | A140501T | History of Indian Architecture | Theory | 4 |
| 3 | V | A140502T | History of Indian art- 2 | Theory | 4 |
| 3 | V | A140503P | Head Study with pencil and colour both | Practical | 2 |
| 3 | V | A140504R | Copy & Study from old Masters | Practical | 3 |
| 3 | VI | A140601T | Renaissance period in Indian art | Theory | 4 |
| 3 | VI | A140602T | Modern Indian Art and artist | Theory | 4 |
| 3 | VI | A140603P | Composition | Practical | 2 |
| 3 | VI | A140604P | Land Scape | Practical | 3 |

Semester-wise Titles of the Papers in BA (English)

| Year | Sem. | Course Code | Paper Title | Theory/ Practical | Credits |
|--------|------|-------------|--|----------------------|---------|
| B.A. 1 | I | A040101T | <i>By higher body of NEP suggested to be changed</i> English Prose and Writing Skills <i>English Prose and other Prose writings and writing skills</i> | Theory | 06 |
| B.A. 1 | II | A040201T | English Poetry | Theory | 06 |
| B.A. 2 | III | A040301T | British and American Drama | Theory | 06 |
| B.A. 2 | IV | A040401T | Indian Literature in Translation | Theory | 06 |
| B.A. 3 | V | A040501T | Classical Literature & History of English Literature | Theory | 05 |
| B.A. 3 | V | A040502T | Fiction | Theory | 05 |
| B.A. 3 | VI | A040601T | Indian & New Literatures in English | Theory | 05 |
| B.A. 3 | VI | A040602T | Any one of the following: • Literature in Films & Media Studies • Media and Journalistic Writing | Theory | 05 |
| | | A040603T | | Theory | |

Semester-wise Titles of the Papers in BA (Education)

| Year | Sem. | Course Code | Paper Title | Theory/Practical | Credits |
|------|------|--------------|--|------------------|---------|
| 1 | I | E01010 1T | Conceptual Framework of Education | Theory | 4 |
| 1 | I | E01010 2P | Practical: Read the Preamble of Indian Constitution, understand and analyse its basic ideas of Justice, Equality, Liberty and Fraternity. Prepare a report and present what you have conceptualized. | Practical | 2 |
| 1 | II | E01020 1T | Development and challenges of Indian Education System | Theory | 4 |
| 1 | II | E01020 2P | Prepare a profile of any School (Class 6 th - 12 th) - Government / aided / Private. | Practical | 2 |
| 2 | III | E01030 1T | Philosophical- Sociological- Political-Economic Perspectives of Education | Theory | 4 |
| 2 | III | E01030 2P | Practical: Review a book written by prominent educational thinkers included in the course II. | Practical | 2 |
| 2 | IV | E01040 1T | Psychological Perspectives of Education | Theory | 4 |
| 2 | IV | E01040 2P | Course Title: Practical: Case study of a Special Child | Practical | 2 |
| 3 | V | E01050 1T | Course Title: Educational Assessment | Theory | 4 |
| 3 | V | E01050 2T | Course Title: Educational Statistics | Theory | 4 |
| 3 | V | E01050 3P | Administration and Interpretation of Score of a psychological test- Achievement/Intelligence/Personality/Aptitude | Practical | 2 |

| | | | | | |
|---|----|-----------|--|-----------|---|
| 3 | V | E010501R | Collection of Data related to Education, application of suitable statistical methods, analysis and interpretation of result. OR | Project | 3 |
| | | | Visit to any type of University: A.It's profile preparation. B.Report on its administrative structure. | | |
| 3 | VI | E01060 1T | Educational Administration and Management | Theory | 4 |
| 3 | VI | E01060 2T | Milestones and New Dimensions of Indian Education | Theory | 4 |
| 3 | VI | E01060 3P | I. Visit to an Anganwadi Centre and report preparation. II. Write and submit an article on any trending Socio-Cultural Environmental Issue. | Practical | 2 |
| 3 | VI | E010601R | Visit any Distance Education center. Interview its administrator and five students. Compare the Distance Education and Regular Education and prepare report. OR For Understanding Social disadvantages, Interview an working child/ a child who has experienced natural calamity or war or Terrorist Attack/ Orphan/ Urban or rural poor child/ a child who does not go to school/ or a person who got married as a child. | Project | 3 |

Semester-wise Titles of the Papers in BA(Economics)

| Year | Sem. | Course Code | Paper Title | Theory/Practical | Credits |
|------|------|-----------------------|---|------------------|---------|
| 1 | I | A080101T | Principle of Micro Economics | Theory | 6 |
| 1 | II | A080201T | Principles of Macro Economics | Theory | 6 |
| 2 | III | A080301T | History of Economic Thought | Theory | 6 |
| 2 | IV | A080401T | Money, Banking and Public Finance | Theory | 6 |
| 3 | V | A080501T | Economic Growth and Development | Theory | 5 |
| 3 | V | A080502T/ A080503T | Optional Paper(Any 1) Environmental Economics Or International Economics | Theory | 5 |
| 3 | V | A080504R | Elementary Statistics based Project | Practical | 3 |
| 3 | VI | A080601T | Indian Economy & Economy of Uttar Pradesh | Theory | 5 |
| 3 | VI | A080602T/ A080603T | Optional Paper(Any 1) Agriculture Economics Or Elementary Mathematics | Theory | 5 |
| 3 | VI | A080604R | Dissertation/Project On the Local Issues with Economic Focus plus Presentation on Ppt of the Dissertation | Project | 3 |

Year wise Structure of B.Sc. (Computer Science)

| Year | Sem. | Course Code | Paper Title | Theory/Practical | Credits |
|------|------|-------------|---------------------------------|------------------|---------|
| 1 | I | B070101T | Problem Solving using Computer | Theory | 4 |
| 1 | I | B070102P | Software Lab using Python | Practical | 2 |
| 1 | II | B070201T | Database Management Systems | Theory | 4 |
| 1 | II | B070202P | Database Management Systems Lab | Practical | 2 |

| | | | | | |
|---|-----|----------|--|-----------|---|
| 2 | III | B070301T | Operating Systems | Theory | 4 |
| 2 | III | B070302P | Operating Systems Lab | Practical | 2 |
| 2 | IV | B070401T | Computer System Architecture | Theory | 4 |
| 2 | IV | B070402P | Computer System Architecture Lab | Practical | 2 |
| 3 | V | B070501T | Analysis of Algorithms and Data Structures | Theory | 4 |
| 3 | V | B070502T | Soft Computing | Theory | 4 |
| 3 | V | B070503P | Lab on Algorithms and Data Structures with C++ | Practical | 2 |
| 3 | V | B070504R | Research Project-I | Project | 3 |
| 3 | VI | B070601T | Data Communication and Computer Networks | Theory | 4 |
| 3 | VI | B070602T | Cyber Security & Cyber Laws | Theory | 4 |
| 3 | VI | B070603P | Lab on Computer Networks | Practical | 2 |
| 3 | VI | B070604R | Research Project-II | Project | 3 |

Semester-wise Titles of the Papers in B.Sc. Chemistry

| Year | Sem. | Course Code | Paper Title | Theory/Practical | Credits |
|---|------|-------------|--|------------------|---------|
| Certificate in Bioorganic and Medicinal Chemistry | | | | | |
| 1 | I | B020101T | Fundamentals of Chemistry | Theory | 4 |
| | | B020102P | Quantitative Analysis | Practical | 2 |
| | II | B020201T | Bioorganic and Medicinal Chemistry | Theory | 4 |
| | | B020202P | Biochemical Analysis | Practical | 2 |
| Diploma in Chemical Dynamics and Analytical Techniques | | | | | |
| 2 | III | B020301T | Chemical Dynamics & Coordination Chemistry | Theory | 4 |
| | | B020302P | Physical Analysis | Practical | 2 |
| | IV | B020401T | Quantum Mechanics and Analytical Techniques | Theory | 4 |
| | | B020402P | Instrumental Analysis | Practical | 2 |
| Degree in Bachelor of Science | | | | | |
| 3 | V | B020501T | Organic Synthesis-A | Theory | 4 |
| | | B020502T | Rearrangements and Chemistry of Group Elements | Theory | 4 |
| | | B020503P | Qualitative Analysis | Practical | 2 |

| | | | | |
|----|----------|---|-----------|---|
| | B020504R | Research Project | Project | 3 |
| VI | B020601T | Organic Synthesis-B | Theory | 4 |
| | B020602T | Chemical Energetics and Radiochemistry | Theory | 4 |
| | B020603P | Analytical Methods | Practical | 2 |
| | B020604R | Research Project | Project | 3 |

DEPARTMENT OF BIOCHEMISTRY
B.Sc. (in Faculty of Life Science)
(Based on Choice Based Credit System)
SUBJECT: BIOCHEMISTRY
SYLLABUS
Under NEP-2020

SEMESTER WISE PAPER TITLES WITH DETAILS

| Sem. | Course Code | Papertitle | CIE | End Semester Examination | Total | Credits | Teachinghours |
|---|-------------|---|-----|--------------------------|-------|---------|---------------|
| B. SC. 1ST YEAR OR CERTIFICATE COURSE IN CLINICAL BIOCHEMISTRY | | | | | | | |
| I | BCB101T | Fundamentals of Biochemistry | 25 | 75 | 100 | 4 | 60 |
| | BCB102P | Biosafety Measures, Preparation of Solutions and Qualitative Analysis of Biomolecules | 25 | 75 | 100 | 2 | 60 |
| II | BCB201T | Human Physiology and Clinical Biochemistry | 25 | 75 | 100 | 4 | 60 |
| | BCB202P | Clinical Biochemistry Lab | 25 | 75 | 100 | 2 | 60 |
| B. SC. 2ND YEAR OR DIPLOMA IN TOOLS AND TECHNIQUES IN BIOCHEMISTRY | | | | | | | |
| III | BCB301T | Tools and Techniques in Biochemistry | 25 | 75 | 100 | 4 | 60 |
| | BCB302P | Biochemical Tools and Techniques Lab. | 25 | 75 | 100 | 2 | 60 |
| IV | BCB401T | Enzymology and Immunology | 25 | 75 | 100 | 4 | 60 |
| | BCB402P | Enzymes and Immunological Techniques Lab | 25 | 75 | 100 | 2 | 60 |
| B. SC. 3RD YEAR OR Degree in Bachelor of Science (in Faculty of Life Science) | | | | | | | |
| V | BCB501T | Bioenergetics and Metabolism | 25 | 75 | 100 | 4 | 60 |
| | BCB502T | Fundamentals of Microbiology | 25 | 75 | 100 | 4 | 60 |
| | BCB503P | Microbial Techniques and Metabolism Lab | 25 | 75 | 100 | 2 | 60 |
| | BCB601T | Cell, Molecular | 25 | 75 | 100 | 4 | 60 |

| | | | | | | | |
|----|---------|--|----|----|-----|---|----|
| VI | | Biology and Genetic Engineering | | | | | |
| | BCB602T | Biostatistics, Bioinformatics and computer application in Biochemistry | 25 | 75 | 100 | 4 | 60 |
| | BCB603P | Genetic Engineering and Bioinformatics Lab | 25 | 75 | 100 | 2 | 60 |

1

DEPARTMENT OF BOTANY
B.Sc. (in Faculty of Life Science)
(Based on Choice Based Credit System)
SUBJECT: BOTANY
SYLLABUS
Under NEP-2020

SEMESTER WISE PAPER TITLES WITH DETAILS

| Sem. | Course Code | Paper title | CIE | End Semester Examination | Total | Credits | Teaching hours |
|---|------------------|---|----------|--------------------------|------------|---------|----------------|
| B. SC. 1ST YEAR OR Certificate Course In Microbial Technology & Applied Botany | | | | | | | |
| I | BOTB101T | Microbiology & Plant Pathology | 25 | 75 | 100 | 4 | 60 |
| | BOTB102P | Techniques in Microbiology & Plant Pathology | 25 | 75 | 100 | 2 | 60 |
| II | BOTB201T | Archegoniates & Plant Architecture | 25 | 75 | 100 | 4 | 60 |
| | BOTB202P | Land Plants Architecture | 25 | 75 | 100 | 2 | 60 |
| B. SC. 2ND YEAR OR Diploma in Plant Identification, Utilization & Ethnomedicine | | | | | | | |
| III | BOTB301T | Flowering Plants Identification & Aesthetic Characteristics | 25 | 75 | 100 | 4 | 60 |
| | BOTB302 P | Plant Identification technology | 25 | 75 | 100 | 2 | 60 |
| IV | BOTB401T | Economic Botany, Ethnomedicine & Phytochemistry | 25 | 75 | 100 | 4 | 60 |
| | BOTB402 P | Commercial Botany & Phytochemical Analysis | 25 25 | 75 75 | 100 100 | 2 | 60 |
| B. SC. 3RD YEAR OR Degree in Bachelor of Science (in Faculty of Life Science) | | | | | | | |
| V | BOTB501 T | Plant Physiology, Metabolism & Biochemistry | 25 | 75 | 100 | 4 | 60 |
| | BOTB502T | Molecular Biology & Bioinformatics | 25 | 75 | 100 | 4 | 60 |
| | BOTB503P | Experiments in physiology, Biochemistry & | 25 | 75 | 100 | 2 | 60 |

| | | | | | | | |
|----|-----------------|---|----|----|-----|---|----|
| | | molecular biology | | | | | |
| VI | BOTB601T | Cytogenetics, Plant Breeding & Nanotechnology | 25 | 75 | 100 | 4 | 60 |
| | BOTB602T | Ecology & Environment | 25 | 75 | 100 | 4 | 60 |
| | BOTB603P | Cytogenetics, Conservation Environment management & | 25 | 75 | 100 | 2 | 60 |

BACHELOR OF HOTEL MANAGEMENT & CATERING TECHNOLOGY**(B.H.M.C.T.)****COURSE STRUCTURE****FIRST YEAR****FIRST SEMESTER**

| Course Code | Paper / Subject Name | External / Term Exam Max. Marks | Internal Assessment Max. Marks | Total Max. Marks |
|--|---|---------------------------------------|--------------------------------------|------------------------|
| BHM-101 | Introduction to Hospitality, Hotel and Hoteliering | 70 | 30 | 100 |
| BHM-102 | Growing Dimensions of Travel and Tourism | 70 | 30 | 100 |
| BHM-103 | Introduction to Computers Application | 70 | 30 | 100 |
| BHM-104 | Principles of Management | 70 | 30 | 100 |
| BHM-105 | Basics of Communication | 70 | 30 | 100 |
| BHM-106 | Conceptual Framework of Marketing | 70 | 30 | 100 |
| BHM-107 | Contemporary Ecological and Environmental Issues | 70 | 30 | 100 |
| Total Marks of Ist Semester | | | | 700 |
| Industrial Visit: | | | | |
| After their First Semester Examinations, shall be required to undertake a weeklong orientation trip to hotel / resort properties located at multiple destinations / Tourist Center(s). They will be accompanied by one of the faculty members of the Department. | | | | |

BACHELOR OF HOTEL MANAGEMENT & CATERING TECHNOLOGY**(B.H.M.C.T.)****COURSE STRUCTURE****FIRST YEAR****SECOND SEMESTER**

| Course Code | Paper / Subject Name | External / Term Exam Max. Marks | Internal Assessment Max. Marks | PRACTICAL | | Total Max. Marks |
|---------------------------------------|---|---------------------------------|--------------------------------|-----------|-----|------------------|
| | | | | INT | EXT | |
| BHM-201 | Front Office Operations - I | 70 | 30 | 30 | 70 | 200 |
| BHM-202 | Food Production Operations – I | 70 | 30 | 30 | 70 | 200 |
| BHM-203 | Food and Beverage Services Operations – I | 70 | 30 | 30 | 70 | 200 |
| BHM-204 | Housekeeping Operations – I | 70 | 30 | 30 | 70 | 200 |
| BHM-205 | Hygiene and Sanitation | 70 | 30 | -- | -- | 100 |
| BHM-206 | Hotel Accounting - I | 70 | 30 | -- | -- | 100 |
| Total Marks of SECOND Semester | | | | | | 1000 |

BACHELOR OF HOTEL MANAGEMENT & CATERING TECHNOLOGY**(B.H.M.C.T.)****COURSE STRUCTURE****SECOND YEAR****THIRD SEMESTER**

| Course Code | Paper / Subject Name | External / Term Exam Max. Marks | Internal Assessment Max. Marks | PRACTICAL | | Total Max. Marks |
|--------------------------------------|---|---------------------------------|--------------------------------|-----------|-----|------------------|
| | | | | INT | EXT | |
| BHM-301 | Front Office Operations – II | 70 | 30 | 30 | 70 | 200 |
| BHM-302 | Food Production Operations – II | 70 | 30 | 30 | 70 | 200 |
| BHM-303 | Food and Beverages Services Operations – II | 70 | 30 | 30 | 70 | 200 |
| BHM-304 | Housekeeping Operations - II | 70 | 30 | 30 | 70 | 200 |
| BHM-305 | Nutrition and Food Science | 70 | 30 | -- | -- | 100 |
| BHM-306 | Hotel Accounting - II | 70 | 30 | -- | -- | 100 |
| Total Marks of THIRD Semester | | | | | | 1000 |

BACHELOR OF HOTEL MANAGEMENT & CATERING TECHNOLOGY**(B.H.M.C.T.)****COURSE STRUCTURE****SECOND YEAR****FOURTH SEMESTER**

| Course Code | Paper / Subject Name | External / Term Exam Max. Marks | Internal Assessment Max. Marks | PRACTICAL | | Total Max. Marks |
|--|---|---------------------------------|--------------------------------|-----------|-----|------------------|
| | | | | INT | EXT | |
| BHM-401 | Front Office Operations – III | 70 | 30 | 30 | 70 | 200 |
| BHM-402 | Food Production Operations – III | 70 | 30 | 30 | 70 | 200 |
| BHM-403 | Food and Beverage Service Operations- III | 70 | 30 | 30 | 70 | 200 |
| BHM-404 | Housekeeping Operations – III | 70 | 30 | 30 | 70 | 200 |
| BHM-405 | Ethical Legal and Regulatory Aspects of Hoteliering | 70 | 30 | -- | -- | 100 |
| BHM-406 | Organizational Behavior | 70 | 30 | -- | -- | 100 |
| Total Marks of FOURTH Semester | | | | | | 1000 |
| <p>Ten Weeks' Preliminary Industrial Training:</p> <p>As per the course requirement, incumbent students have to go on a preliminary industrial training in a leading hotel/resorts property, duly approved by the Department. Though the Department may help the incumbent students in arranging their training in suitable institutions, the sole responsibility, in this context, will rest on the students. They will have to submit a comprehensive training report along with the logbook, on the formats prescribed by the Department, at least one month before commencement of the fifth semester examinations. The report and logbook shall stand for 50 marks each.</p> | | | | | | |

BACHELOR OF HOTEL MANAGEMENT & CATERING TECHNOLOGY**(B.H.M.C.T.)****COURSE STRUCTURE****THIRD YEAR****FIFTH SEMESTER**

| Course Code | Paper / Subject Name | External / Term Exam Max. Marks | Internal Assessment Max. Marks | PRACTICAL | | Total Max. Marks |
|--------------------------------------|---|---------------------------------|--------------------------------|-----------|-----|------------------|
| | | | | INT | EXT | |
| BHM-501 | Front Office Operations-IV | 70 | 30 | 30 | 70 | 200 |
| BHM-502 | Food Production Operations-IV | 70 | 30 | 30 | 70 | 200 |
| BHM-503 | Food and Beverage Services Operations -IV | 70 | 30 | 30 | 70 | 200 |
| BHM-504 | Housekeeping Operations-IV | 70 | 30 | 30 | 70 | 200 |
| BHM-505 | Material Management | 70 | 30 | -- | -- | 100 |
| BHM-506 | Hotel Engineering | 70 | 30 | -- | -- | 100 |
| BHM-507 | Training Report + Log Book (50 + 50) | -- | -- | -- | -- | 100 |
| Total Marks of FIFTH Semester | | | | | | 1000 |

BACHELOR OF HOTEL MANAGEMENT & CATERING TECHNOLOGY**(B.H.M.C.T.)****COURSE STRUCTURE****THIRD YEAR****SIXTH SEMESTER**

| Course Code | Paper / Subject Name | External / Term Exam Max. Marks | Internal Assessment Max. Marks | PRACTICAL | | Total Max. Marks |
|--------------------------------------|---|---------------------------------|--------------------------------|-----------|-----|------------------|
| | | | | INT | EXT | |
| BHM-601 | Front Office Operations-V | 70 | 30 | 30 | 70 | 200 |
| BHM-602 | Food production Operations-V | 70 | 30 | 30 | 70 | 200 |
| BHM-603 | Food and Beverage Services Operations-V | 70 | 30 | 30 | 70 | 200 |
| BHM-604 | Housekeeping Operations-V | 70 | 30 | 30 | 70 | 200 |
| BHM-605 | Research Methodology | 70 | 30 | -- | -- | 100 |
| BHM-606 | Human Resource Management | 70 | 30 | -- | -- | 100 |
| Total Marks of SIXTH Semester | | | | | | 1000 |

Immediately on the commencement of sixth semester studies, an applied research topic/problem, under the supervision of one of the faculty members of the department shall be assigned to the incumbent students. It is advised and expected that students should take the problem according to their area of interest, *vis a vis* the specialization areas they intend to opt for their studies in the seventh semester. The dissertation shall stand for 200 marks (150 for evaluation of Dissertation and remaining 50 for viva voce examination). The dissertation, as per norms, is to be submitted latest by May 15 (or, next working day if May 15 is a holiday) of the concerning academic year. No dissertation shall be entertained for evaluation without a clear certification from the supervisor that 'the work is original based on actual research findings'.

BACHELOR OF HOTEL MANAGEMENT & CATERING TECHNOLOGY**(B.H.M.C.T.)****COURSE STRUCTURE****FOURTH YEAR****SEVENTH SEMESTER**

| Course Code | Paper / Subject Name | External / Term Exam Max. Marks | Internal Assessment Max. Marks | PRACTICAL | | Total Max. Marks |
|---|------------------------------|---------------------------------|--------------------------------|-----------|-----|------------------|
| | | | | INT | EXT | |
| BHM-701 | Elective – I | 70 | 30 | 30 | 70 | 200 |
| BHM-702 | Elective – II | 70 | 30 | 30 | 70 | 200 |
| BHM-703 | Hotel Marketing | 70 | 30 | -- | -- | 200 |
| BHM-704 | Entrepreneurship Development | 70 | 30 | -- | -- | 200 |
| BHM-705 | Financial Management | 70 | 30 | -- | -- | 100 |
| BHM-706 | Event Management | 70 | 30 | -- | -- | 100 |
| BHM-707 | Business Communication | 70 | 30 | -- | -- | 100 |
| BHM-708 | Facility Planning | 70 | 30 | -- | -- | 100 |
| Total Marks of SEVENTH Semester | | | | | | 1000 |
| <p style="text-align: center;">Extensive on the job training (Twenty Two Weeks') and Training Report:</p> <p>Immediacy after the Seventh Semester Examinations, the Students shall be required to undertake a Twenty-Two weeks' extensive on the job training in a leading hotel/resort property, duly approved by the Department. The training reports submitted by the students on the prescribed format, will be evaluated by an external expert, while viva voce examination based on the report shall be conducted jointly by external and internal expert. Maximum marks for on-the job training shall be 200 (150 marks for report evaluation and 50 marks for viva voce examination). <i>Last date for submission of the report shall be May 15 (or, next working day if May 15 is a holiday) of the concerned academic year</i></p> | | | | | | |
| <p style="text-align: center;">Log Book:</p> <p>While on the extensive on the training, the trainees shall have to systematically maintain a Log Book in the format prescribed by the Department. The Logbook, incorporating the day- to- day training inputs shall realistically indicate the training exposure vis a vis the professional aptitude and sincerity of the professional in making. The Log Book, to be submitted along with the training report, will be evaluated by the panel of experts (One internal and one external). Maximum marks for Log Book shall be 200 (150 for evaluation of Logbook and remaining 50 for viva voce examination). Last date for submission for submission of the Log Book shall be May 15 (or, next working day if May 15 is a holiday)of the concerned academic year.</p> | | | | | | |

BACHELOR OF HOTEL MANAGEMENT & CATERING TECHNOLOGY**(B.H.M.C.T.)****COURSE STRUCTURE****FOURTH YEAR****EIGHT SEMESTER**

| Course Code | Paper / Subject Name | Evaluation of Report / Log Book/ Dissertation | Viva –Voce | Total Max. Marks |
|--------------------------------------|----------------------------|---|------------|------------------|
| BHM-801 | On the Job Training Report | 150 | 50 | 200 |
| BHM-802 | Log Book Evaluation | 150 | 50 | 200 |
| BHM-803 | Dissertation | 150 | 50 | 200 |
| Total Marks of EIGHT SEMESTER | | | | 600 |

Semester VIII has been designed to expose the students to real life perspectives of the profession. Alongside undertaking the 23 week' on-the-job training, they will also have to maintain the training logbook, while also working on their training report and dissertation/mini research. Combination of these activities will provide opportunities to the students for self-assessment and self-realization. This in turn will also help them to perceive their interest and aptitude for specific area where they can effectively carve-out successful career niche for themselves.

Semester-wise Titles of the Papers in B.Sc (Zoology)

| Year | Sem. | Course Code | Paper Title | Theory/Practical | Credits |
|------|------|-------------|---|----------------------|---------|
| 1 | I | B050101T | Cytology, Genetics and Infectious Diseases | Theory | 04 |
| | | B050102P | Cell Biology and Cytogenetics Lab | Practical | 02 |
| | II | B050201T | Biochemistry and Physiology | Theory | 04 |
| | | B050202P/R | Physiological, Biochemical & Hematology Lab | Practical/Field work | 02 |
| 2 | III | B050301T | Molecular Biology, Bioinstrumentation & Biotechniques | Theory | 04 |
| | | B050302P | Bioinstrumentation & Molecular Biology Lab | Practical | 02 |
| | IV | B050401T | Gene Technology, Immunology and Computational Biology | Theory | 04 |
| | | B050402P/R | Genetic Engineering and Counselling Lab | Practical/Field work | 02 |
| 3 | V | B050501T | Diversity of Non-Chordates, Parasitology and Economic Zoology | Theory | 04 |
| | | B050502T | Diversity of Chordates and Comparative Anatomy | Theory | 04 |
| | | B050503P | Lab on Virtual Dissection, Anatomy, Economic Zoology and Parasitology | Practical | 02 |
| | VI | B050601T | Evolutionary and Developmental Biology | Theory | 04 |
| | | B050602T | Ecology, Ethology, Environmental Science and Wildlife | Theory | 04 |
| | | B050603P | Lab on Environmental Science, Behavioral Ecology, Developmental Biology, Wildlife, Ethology | Practical | 02 |

SEMESTER-WISE TITLES OF THE PAPERS IN UG PHYSICS COURSE

| YEAR | SEME-STER | COURSE CODE | PAPER TITLE | THEORY / PRACTICAL | CREDIT |
|--|-----------|-------------|--|--------------------|--------|
| CERTIFICATE -IN BASIC PHYSICS & SEMICONDUCTOR DEVICES | | | | | |
| FIRST YEAR | I | B010101T | Mathematical Physics & Newtonian Mechanics | Theory | 4 |
| | | B010102P | Mechanical Properties of Matter | Practical | 2 |
| | II | B010201T | Thermal Physics & Semiconductor Devices | Theory | 4 |
| | | B010202P | Thermal Properties of Matter & Electronic Circuits | Practical | 2 |
| DIPLOMA - IN APPLIED PHYSICS WITH ELECTRONICS | | | | | |
| SECOND YEAR | III | B010301T | Electromagnetic Theory & Modern Optics | Theory | 4 |
| | | B010302P | Demonstrative Aspects of Electricity & Magnetism | Practical | 2 |
| | IV | B010401T | Perspectives of Modern Physics & Basic Electronics | Theory | 4 |
| | | B010402P | Basic Electronics Instrumentation | Practical | 2 |
| DEGREE -IN BACHELOR OF SCIENCE | | | | | |
| THIRD YEAR | V | B010501T | Classical & Statistical Mechanics | Theory | 4 |
| | | B010502T | Quantum Mechanics & Spectroscopy | Theory | 4 |
| | | B010503P | Demonstrative Aspects of Optics & Lasers | Practical | 2 |
| | VI | B010601T | Solid State & Nuclear Physics | Theory | 4 |
| | | B010602T | Analog & Digital Principles & Applications | Theory | 4 |
| | | B010603P | Analog & Digital Circuits | Practical | 2 |

| SEMESTER WISE TITLES OF THE PAPER IN UG MATHEMATICS COURSE | | | | | |
|--|----------|-------------|--|------------------|--------|
| YEAR | SEMESTER | COURSE CODE | PAPER TITLE | THEORY/PRACTICAL | CREDIT |
| CERTIFICATE COURSE IN APPLIED MATHEMATICS | | | | | |
| FIRST YEAR | I | B030101T | Differential Calculus & Integral Calculus | THEORY | 4 |
| | | B030102P | PRACTICAL | PRACTICAL | 2 |
| | II | B030201T | Matrices and Differential Equations & Geometry | THEORY | 6 |
| DIPLOMA IN MATHEMATICS | | | | | |
| SECOND YEAR | III | B030301T | Algebra & Mathematical Methods | THEORY | 6 |
| | IV | B030401T | Differential Equation & Mechanic | THEORY | 6 |
| DEGREE IN MATHEMATICS | | | | | |
| THIRD YEAR | V | B030501T | Group and Ring Theory & Linear Algebra | THEORY | 5 |
| | | B030502T | Any One of The Following (i) Number Theory & Game Theory (ii) Graph Theory & Discrete Mathematics (iii) Differential Geometry & Tensor Analysis | THEORY | 5 |
| | VI | B030601T | Metric Space & Complex Analysis | THEORY | 4 |
| | | B030602T | Numerical Analysis & Operations Research | THEORY | 4 |
| | | B030603P | PRACTICAL | PRACTICAL | 2 |

Semester-wise Titles of the Papers in B.Sc (Zoology)

| Year | Sem. | Course Code | Paper Title | Theory/Practical | Credits |
|------|------|-------------|---|----------------------|---------|
| 1 | I | B050101T | Cytology, Genetics and Infectious Diseases | Theory | 04 |
| | | B050102P | Cell Biology and Cytogenetics Lab | Practical | 02 |
| | II | B050201T | Biochemistry and Physiology | Theory | 04 |
| | | B050202P/R | Physiological, Biochemical & Hematology Lab | Practical/Field work | 02 |
| 2 | III | B050301T | Molecular Biology, Bioinstrumentation & Biotechniques | Theory | 04 |
| | | B050302P | Bioinstrumentation & Molecular Biology Lab | Practical | 02 |
| | IV | B050401T | Gene Technology, Immunology and Computational Biology | Theory | 04 |
| | | B050402P/R | Genetic Engineering and Counselling Lab | Practical/Field work | 02 |
| 3 | V | B050501T | Diversity of Non-Chordates, Parasitology and Economic Zoology | Theory | 04 |
| | | B050502T | Diversity of Chordates and Comparative Anatomy | Theory | 04 |
| | | B050503P | Lab on Virtual Dissection, Anatomy, Economic Zoology and Parasitology | Practical | 02 |
| | VI | B050601T | Evolutionary and Developmental Biology | Theory | 04 |
| | | B050602T | Ecology, Ethology, Environmental Science and Wildlife | Theory | 04 |
| | | B050603P | Lab on Environmental Science, Behavioral Ecology, Developmental Biology, Wildlife, Ethology | Practical | 02 |

M.A. (Education)
(Course Curriculum Under CBCS and NEP-2020)
Semester I

Core Courses (Compulsory)

| S.No. | Course No. | Course Title | Credits | L : T : P | External | Internal | Total |
|-------|------------|--|---------|-----------|----------|----------|-------|
| 1. | ED-101 | Philosophical Foundations of Education | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 2. | ED-102 | Psychology of Learning | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 3. | ED-103 | Methods of Educational Research | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 4. | ED-104 | Principles, Methods and Techniques of Guidance | 5 | 3 : 2 : 0 | 75 | 25 | 100 |

Minor from Other Faculty (Any One)

| S.No. | Course No. | Course Title | Credits | L : T : P | External | Internal | Total |
|-------|------------|--|---------|-----------|----------|----------|-------|
| 5. | CSR-101 | Fundamentals of CSR | 4 | 3 : 1 : 0 | 75 | 25 | 100 |
| 6. | RD-101 | Rural Development—Concept and Strategies | 4 | 3 : 1 : 0 | 75 | 25 | 100 |
| 7. | PA-102 | Introduction to Public Policy and Governance | 4 | 3 : 1 : 0 | 75 | 25 | 100 |
| 8. | HR-301 | Human Resource Development | 4 | 3 : 1 : 0 | 75 | 25 | 100 |
| 8. | DM-101 | Introduction to Disaster Management | 4 | 3 : 1 : 0 | 75 | 25 | 100 |

Practical

| S.No. | Course No. | Course Title | Credits | L : T : P | External | Internal | Total |
|-------|------------|--|---------|-----------|----------|----------|-------|
| 9. | ED-105 | Field Visit Reports Preparation/Presentation | 2 | 0 : 0 : 2 | — | 50 | 50 |

M.S. A. Begam *Dr. Bhatnagar* *Dr. Singh* *Dr. Sharma* *Dr. Singh* *Dr. Singh* *Dr. Singh*

Semester II

Core Courses (Compulsory)

| S.No. | Course No. | Course Title | Credits | L : T : P | External | Internal | Total |
|-------|------------|---------------------------------------|---------|-----------|----------|----------|-------|
| 1. | ED-201 | Sociological Foundations of Education | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 2. | ED-202 | Inclusive Education | 5 | 3 : 2 : 0 | 75 | 25 | 100 |

Elective (Any Two)

| S.No. | Course No. | Course Title | Credits | L : T : P | External | Internal | Total |
|-------|------------|---|---------|-----------|----------|----------|-------|
| 3. | ED-203 | Measurement and Evaluation | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 4. | ED-204 | Basic Statistics in Education | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 5. | ED-205 | Non-Formal and Adult Education in India | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 6. | ED-206 | Problems of Secondary Education | 5 | 3 : 2 : 0 | 75 | 25 | 100 |

Practical

| S.No. | Course No. | Course Title | Credits | L : T : P | External | Internal | Total |
|-------|------------|--|---------|-----------|----------|----------|-------|
| 7. | ED-207 | Field Visit Reports Preparation/Presentation | 2 | 0 : 0 : 2 | — | 50 | 50 |
| 8. | ED-208 | Comprehensive Viva-Voce | 4 | 0 : 0 : 4 | 100 | — | 100 |

M. S. P. D. S. P.
Pradyumn
Pradyumn
Pradyumn
Pradyumn
Pradyumn
Pradyumn

Semester III

Core Courses (Compulsory)

| S.No. | Course No. | Course Title | Credits | L : T : P | External | Internal | Total |
|-------|------------|--|---------|-----------|----------|----------|-------|
| 1. | ED-301 | History of Education in Modern India-I | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 2. | ED-302 | Educational Psychology : Psychology of Development, Personality and Intelligence | 5 | 3 : 2 : 0 | 75 | 25 | 100 |

Elective (Any Two)

| S.No. | Course No. | Course Title | Credits | L : T : P | External | Internal | Total |
|-------|------------|------------------------------------|---------|-----------|----------|----------|-------|
| 3. | ED-303 | Foundations of Curriculum Planning | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 4. | ED-304 | Educational Technology | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 5. | ED-305 | Environmental Education | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 6. | ED-306 | Teacher Education | 5 | 3 : 2 : 0 | 75 | 25 | 100 |

Practical

| S.No. | Course No. | Course Title | Credits | L : T : P | External | Internal | Total |
|-------|------------|--|---------|-----------|----------|----------|-------|
| 7. | ED-307 | Field Visit Reports Preparation/Presentation | 2 | 0 : 0 : 2 | — | 50 | 50 |

M. S. Singh
Sharma

Sharma

Sharma

Sharma

Sharma

Sharma

Sharma

Sharma

Semester IV

Core Courses (Compulsory)

| S.No. | Course No. | Course Title | Credits | L : T : P | External | Internal | Total |
|-------|------------|---|---------|-----------|----------|----------|-------|
| 1. | ED-401 | History of Education in Modern India-II | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 2. | ED-402 | Educational Psychology : Psychology of Learning, Motivation and Cognition | 5 | 3 : 2 : 0 | 75 | 25 | 100 |

Elective (Any Two)

| S.No. | Course No. | Course Title | Credits | L : T : P | External | Internal | Total |
|-------|------------|---------------------------------|---------|-----------|----------|----------|-------|
| 3. | ED-403 | Women Education | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 4. | ED-404 | Higher Education in India | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 5. | ED-405 | Secondary School Administration | 5 | 3 : 2 : 0 | 75 | 25 | 100 |
| 6. | ED-406 | Educational Administration | 5 | 3 : 2 : 0 | 75 | 25 | 100 |

Practical

| S.No. | Course No. | Course Title | Credits | L : T : P | External | Internal | Total |
|-------|------------|--|---------|-----------|----------|----------|-------|
| 7. | ED-407 | Field Visit Reports Preparation/Presentation | 2 | 0 : 0 : 2 | — | 50 | 50 |
| 8. | ED-408 | Comprehensive Viva-Voce | 4 | 0 : 0 : 4 | 100 | — | 100 |

BACHELOR OF COMPUTER APPLICATION

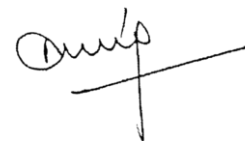
(B.C.A.)

COURSE STRUCTURE

FIRST YEAR

I SEMESTER

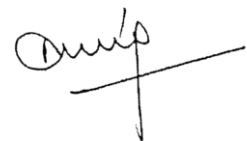
| Paper Code | Paper Name | Term Exam Max./Min. Marks | Internal Assessment Max./Min. Marks | Total Max./Min. Marks |
|---------------------------|--|---------------------------------|--|--------------------------|
| C-101 | Computer Fundamentals and MS-Office | 50/20 | 50/20 | 100/40 |
| C-102 | Introduction to Programming using C | 50/20 | 50/20 | 100/40 |
| C-103 | Business Communication and Soft Skill | 50/20 | 50/20 | 100/40 |
| C-104 | Introduction to HTML- CSS-XML | 50/20 | 50/20 | 100/40 |
| C-105 | Mathematics- I | 50/20 | 50/20 | 100/40 |
| C-106 | Practical based on above Papers | | | 100/40 |
| Total marks of I Semester | | | | 600/300 |



BACHELOR OF COMPUTER APPLICATION
(B.C.A.)
COURSE STRUCTURE
FIRST YEAR

II SEMESTER

| Paper Code | Paper Name | Term Exam Max./Min. Marks | Internal Assessment Max./Min. Marks | Total Max./Min. Marks |
|----------------------------|---------------------------------|------------------------------|---|-----------------------------|
| C-201 | JAVA Programming | 50/20 | 50/20 | 100/40 |
| C-202 | Data Base Management System | 50/20 | 50/20 | 100/40 |
| C-203 | Data Structure using 'C' | 50/20 | 50/20 | 100/40 |
| C-204 | Principles of Management | 50/20 | 50/20 | 100/40 |
| C-205 | Numerical Methods | 50/20 | 50/20 | 100/40 |
| C-206 | Practical based on above Papers | | | 100/40 |
| Total marks of II Semester | | | | 600/300 |



BACHELOR OF COMPUTER APPLICATION

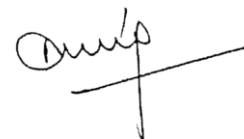
(B.C.A.)

COURSE STRUCTURE

SECOND YEAR

III SEMESTER

| Paper Code | Paper Name | Term Exam Max./Min. Marks | Internal Assessment Max./Min. Marks | Total Max./Min. Marks |
|-----------------------------|---------------------------------------|---------------------------------|---|-----------------------------|
| C-301 | Digital Electronics | 50/20 | 50/20 | 100/40 |
| C-302 | Python Programming | 50/20 | 50/20 | 100/40 |
| C-303 | Software Engineering | 50/20 | 50/20 | 100/40 |
| C-304 | Computer Network | 50/20 | 50/20 | 100/40 |
| C-305 | Statistical Method and Application | 50/20 | 50/20 | 100/40 |
| C-306 | Practical based on above Papers | | | 100/40 |
| Total marks of III Semester | | | | 600/300 |



BACHELOR OF COMPUTER APPLICATION

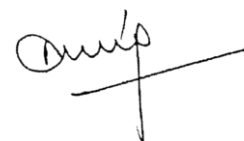
(B.C.A.)

COURSE STRUCTURE

SECOND YEAR

IV SEMESTER

| Paper Code | Paper Name | Term Exam Max./Min. Marks | Internal Assessment Max./Min. Marks | Total Max./Min. Marks |
|----------------------------|--|---------------------------------|---|-----------------------------|
| C-401 | Web Technology with PHP & MySQL | 50/20 | 50/20 | 100/40 |
| C-402 | Operating System | 50/20 | 50/20 | 100/40 |
| C-403 | Cloud Computing | 50/20 | 50/20 | 100/40 |
| C-404 | Computer Organization and Architecture | 50/20 | 50/20 | 100/40 |
| C-405 | Optimization Techniques | 50/20 | 50/20 | 100/40 |
| C-406 | Practical based on above Papers | | | 100/40 |
| Total marks of IV Semester | | | | 600/300 |



BACHELOR OF COMPUTER APPLICATION

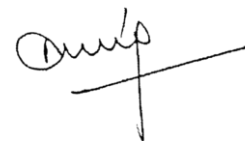
(B.C.A.)

COURSE STRUCTURE

THIRD YEAR

V SEMESTER

| Paper Code | Paper Name | Term Exam Max./Min. Marks | Internal Assessment Max./Min. Marks | Total Max./Min. Marks |
|---------------------------|------------------------------------|------------------------------|---|-----------------------------|
| C-501 | Network Security | 50/20 | 50/20 | 100/40 |
| C-502 | Visual Basic .NET | 50/20 | 50/20 | 100/40 |
| C-503 | Computer Graphics | 50/20 | 50/20 | 100/40 |
| C-504 | Artificial Intelligence | 50/20 | 50/20 | 100/40 |
| C-505 | Design & Analysis of Algorithms | 50/20 | 50/20 | 100/40 |
| C-506 | Practical based on above Papers | | | 100/40 |
| Total marks of V Semester | | | | 600/300 |



BACHELOR OF COMPUTER APPLICATION

(B.C.A.)

COURSE STRUCTURE

THIRD YEAR

VI SEMESTER

| Paper Code | Paper Name | Term Exam Max./Min. Marks | Internal Assessment Max./Min. Marks | Total Max./Min. Marks |
|----------------------------|---------------|---------------------------------|---|--------------------------|
| C-601 | Major Project | | | 400/160 |
| Total marks of VI Semester | | | | 400/160 |

First Semester

600 Marks

Second Semester

600 Marks

Third Semester

600 Marks

Fourth Semester

600 Marks

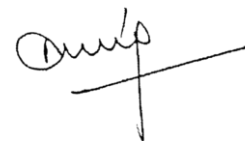
Fifth Semester

600 Marks

Sixth Semester

400 Marks

Total Marks =3400

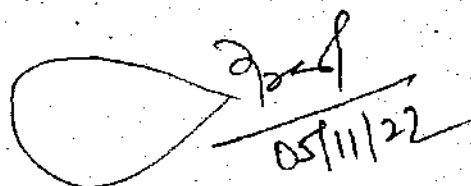


NATIONAL EDUCATION POLICY-2020
Dr. B.R. AMBEDKAR UNIVERSITY, AGRA
PAPER CODING AND CREDIT DISTRIBUTION
M.A. (ANCIENT HISTORY & CULTURE)

| S.No. | Name of Degree | SEMESTER | TITLE OF PAPER | CREDITS | CODE NUMBER |
|---|--|----------|---|----------|-------------|
| 1 | Bachelor (Research) of Arts Ancient History and Culture | VII | POLITICAL HISTORY OF INDIA UP TO 319 A.D. | 5 | A150701T |
| | | | CULTURAL HERITAGE | 5 | A150702T |
| | | | PALEOGRAPHY AND EPIGRAPHY | 5 | A150703T |
| | | | STATE IN INDIA (INDIAN POLITY) | 5 | A150704T |
| 2 | | VIII | POLITICAL HISTORY OF INDIA 319 TO 650 A.D. | 5 | A150801T |
| | | | SOCIAL AND ECONOMIC LIFE UPTO GUPTA PERIOD | 5 | A150802T |
| | | | NUMISMATICS | 5 | A150803T |
| | | | ART AND ARCHITECTURE (UP TO 1000 A.D.) | 5 | A150804T |
| | RESEARCH PROJECT(DISSERTATION/VIVA-VOCE) | | 8 | A150805R | |
| One Minor Paper to be selected from OTHER FACULTY in VII or VIII Semester | | | | 2/5/6 | |
| 3 | Master of Arts in Ancient History and Culture | IX | SOCIAL AND ECONOMIC LIFE UPTO GUPTA PERIOD | 5 | A150901T |
| | | | TEMPLE ARCHITECTURE, PAINTINGS IN ANCIENT INDIA | 5 | A150902T |
| | | | HISTORY OF INDIA RELIGION AND PHILOSOPHY | 5 | A150903T |
| | | | POLITICAL HISTORY OF INDIA FROM 650 A.D. TO 1206 A.D. | 5 | A150904T |
| | | | RESEARCH PROJECT(DISSERTATION/VIVA-VOCE) | | |
| 4 | | X | INDIA'S CULTURAL CONTACTS WITH SOUTH EAST & CENTRAL ASIA OR HISTORIOGRAPHY CONCEPT AND METHOD | 5 | A151001T |
| | | | ARCHAEOLOGY (GROUP A- ARCHEOLOGICAL METHODS AND TECHNIQUES) OR (ELEMENTS OF INDIAN ARCHAEOLOGY: PROTO HISTORY AND HISTORICAL ARCHAEOLOGY) | 5 | A151002T |
| | | | ANCIENT CIVILIZATIONS | 5 | A151003T |
| | | | ICONOGRAPHY | 5 | A151004T |
| | | | RESEARCH PROJECT(DISSERTATION/VIVA-VOCE) | 8 | A151005R |

Students may choose MINOR paper from Faculty of Science/Commerce/Languages/Fine Art and Performing Art/Education/Rural Science.

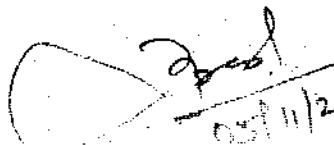
* NOTE - VIVA - VOCE IS BASED ON DISSERTATION


05/11/22

M.A. (ANCIENT INDIAN HISTORY AND CULTURE)

(SEMESTER-WISE) SYLLABUS (NEP)

| | |
|--|------------------|
| Semester VII | 500 MARKS |
| A150701T: POLITICAL HISTORY OF INDIA UP TO 319 A.D. | 100 Marks |
| A150702T: CULTURAL HERITAGE | 100 Marks |
| A150703T: PALEOGRAPHY AND EPIGRAPHY | 100 Marks |
| A150704T: STATE IN INDIA (INDIAN POLITY) | 100 Marks |
| • MINOR SUBJECT FROM OTHER FACULTY | 100 Marks |
| Semester VIII | 500 MARKS |
| A150801T: POLITICAL HISTORY OF INDIA 319 TO 650 A.D. | 100 Marks |
| A150802T: SOCIAL AND ECONOMIC LIFE UPTO GUPTA PERIOD | 100 Marks |
| A150803T: NUMISMATICS | 100 Marks |
| A150804T: ART AND ARCHITECTURE (UP TO 1000 A.D.) | 100 Marks |
| A150805R RESEARCH PROJECT : (DISSERTATION /VIVA VOCE BASED ON DISSERTATION) | 100 Marks |
| Semester IX | 400 MARKS |
| A150901T : SOCIAL AND ECONOMIC LIFE AFTER GUPTA PERIOD | 100 Marks |
| A150902T : TEMPLE ARCHITECTURE, PAINTINGS IN ANCIENT INDIA | 100 Marks |
| A150903T: HISTORY OF INDIAN RELIGION AND PHILOSOPHY | 100 Marks |
| A150904T: POLITICAL HISTORY OF INDIA FROM 650 A.D. TO 1206 A.D. | 100 Marks |
| Semester X | 500 MARKS |
| A151001T: INDIA'S CULTURAL CONTACTS WITH SOUTH EAST & CENTRAL ASIA. OR HISTORIOGRAPHY | 100 Marks |
| A151002T: ARCHAEOLOGY (GROUP A- ARCHEOLOGICAL METHODS AND TECHNIQUES) OR (GROUP B- ELEMENTS OF INDIAN ARCHAEOLOGY : PROTO HISTORY AND HISTORICAL ARCHAEOLOGY) | 100 Marks |
| A151003T: ANCIENT CIVILIZATIONS | 100 Marks |
| A151004T: ICONOGRAPHY | 100 Marks |
| A151005R: RESEARCH PROJECT: (DISSERTATION /VIVA VOCE BASED ON DISSERTATION) | 100 Marks |


05/11/22

M.A. (ANCIENT INDIAN HISTORY AND CULTURE)

VII SEMESTER

A150701T:

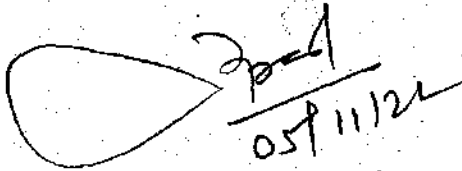
Max Marks: 100 (EXTERNAL 75+ INTERNAL 25)

POLITICAL HISTORY OF INDIA UP TO 319 A.D.

- Unit 1 : Sources of Ancient Indian History
Unit 2 : Janpadas and Mahajanpadas,
Unit 3 : Rise of Magadha up to the Nandas and Mauryas.
Unit 4 : Indo -Greek, sung
Unit 5 : satvahana, kushana.

BOOKS RECOMMENDED:

- | | |
|---------------------------------|---|
| Smith, V.A. | Early History of India. |
| Ray Chaudhary H.C. | Political history of Ancient India. |
| Ray, H.C. | Dynastic history of north India Vol 1&2. |
| Srivastava K.C. | Prachin Bharat ka Itihas, Allahabad. |
| Pandey V.C. | Prachin Bharat ka Rajnaitiac tatha Sanskritik Itihas. |
| Gopalachari, R.S. | History of Pallavas of Kanchi. |
| Bhandarkar, R.D. | Ashoka. |
| Chaudhary, H.C.R. | Political History of Ancient India |
| Thapar, Romila | Prachin Bharat. |
| Thapar, Romila | Ashoka & Decline of the Mauryan Empire. |
| Pandey, C.B. | Andhra satvahana samrajya ka Itihas. |
| Mookerjee, R.K. | Chandragupta Maurya and His Times. |
| Barua, B.M. | Ashoka and his inscriptions. |
| Mazumdar, R.C. & Altekar, A. S. | The Vakataka Gupta Age. |
| Puri B.N. | India under the Kushanas. |


05/11/22

NATIONAL EDUCATION POLICY-2020
Dr. B.R. AMBEDKAR UNIVERSITY, AGRA
PAPER CODING AND CREDIT DISTRIBUTION
M.A. (History)

| S.No. | Name of Degree | SEMESTER | TITLE OF PAPER | CREDITS | CODE NUMBER | | |
|---|--|----------|--|--|-------------|--|--|
| 1 | Bachelor (Research) of Arts in History | VII | Historiography, Concept & Methods | 5 | A050701T | | |
| | | | Choose ANY ONE GROUP (A/B/C) | | | | |
| | | | Group A | | | | |
| | | | Political History of India 320BC-319AD | 5 | A050702T | | |
| | | | Political History of India 320AD-650AD | 5 | A050703T | | |
| | | | Group B | | | | |
| | | | Political History of India 1205AD-1526AD | 5 | A050704T | | |
| | | | Political History of India 1526AD-1605AD | 5 | A050705T | | |
| | | | Group C | | | | |
| | | | Political History of India 1740AD-1805AD | 5 | A050706T | | |
| | | | Political History of India 1805AD-1857AD | 5 | A050707T | | |
| | | | Europe Since Renaissance to Nineteenth Century | 5 | A050708T | | |
| | | | RESEARCH PROJECT | | | | |
| | | | 2 | Bachelor (Research) of Arts in History | VIII | Choose the Group same selected in Semester VII | |
| Group A | | | | | | | |
| Political History of India 650AD-1200AD | 5 | A050801T | | | | | |
| Economic History of Ancient India | 5 | A050802T | | | | | |
| Social History of Ancient India | 5 | A050803T | | | | | |
| Group B | | | | | | | |
| Political History of India 1605AD-1707AD | 5 | A050804T | | | | | |
| Economic History of Medieval India | 5 | A050805T | | | | | |
| Social History of Medieval India | 5 | A050806T | | | | | |
| Group C | | | | | | | |
| Political History of India 1858AD-1947 | 5 | A050807T | | | | | |
| Economic History of Modern India | 5 | A050808T | | | | | |
| Social History of Modern India | 5 | A050809T | | | | | |
| Twentieth Century World | 5 | A050810T | | | | | |
| RESEARCH PROJECT | 8 | A050811R | | | | | |
| One Minor Paper to be selected from OTHER FACULTY in VII or VIII Semester | | | 4/5/6 | | | | |

Dr. Nisha Rathore, Convenor

Nisha Pal

| S.No. | Name of Degree | SEMESTER | TITLE OF PAPER | CREDITS | CODE NUMBER | |
|--|---------------------------|----------|---|---|-------------|-------------------------|
| 3 | Master of Arts in History | IX | Group A: Religion and Culture in Ancient India | Choose the Group same selected in Semester VII and VIII | 5 | A050901T |
| | | | Group B: Religion and Culture in Medieval India | | 5 | A050902T |
| | | | Group C: Religion and Culture in Modern India | | 5 | A050903T |
| | | | Indian National Movement | | 5 | A050904T |
| | | | Historical Application in Tourism | Choose ANY ONE | 5 | A050905T |
| | | | History of Marathas | | 5 | A050906T |
| | | | History of Awadh | Choose ANY ONE | 5 | A050907T |
| | | | History of Bihar | | 5 | A050908T |
| | | | RESEARCH PROJECT | | | |
| | | | 4 | Master of Arts in History | X | Women in Indian History |
| Gandhian Philosophy | | 5 | | | | A051002T |
| History of Sikhs | Choose ANY ONE | 5 | | | | A051003T |
| History of Asia | | 5 | | | | A051004T |
| History of Indian Constitutional Development | Choose ANY ONE | 5 | | | | A051005T |
| Science and Technology in Colonial India | | 5 | | | | A051006T |
| RESEARCH PROJECT | | 8 | | | | A051007R |

Students may choose MINOR paper from Faculty of Science/Commerce/Languages/Fine Art and Performing Art/Education/Rural Science.

Dr. Nisha Rathore convenor — Nisha Pal

To

Date: 21/06/2022

The Coordinator (University Admission)

Department of Computer Science

Khandari, Agra

Subject: New Courses introduced in Institute of Home Science from 2022

Respected Sir,

In reference to your letter number admission – 2022/24/2022 dated on 20/06/2022,
I am hereby sending the required information. Kindly find the enclosure.


21.6.2022
Director

for Institute of Home Science

Khandari, Agra

DIRECTOR
Institute of Home Science
AGRA

Institute of Home Science

[New Courses]

Name of the Course: M.A. (Home Science)

Max. Marks: 100 marks per subject

Min Marks: 36 Marks per subject

Total Credits: 100

Bachelor (Research) in Faculty

Semester VII

| Paper No | Subject | Course Type | Credits | CIE | UE | Total |
|----------|---|-----------------|---------|-----|-----|-------|
| C1 | Resource Management | Theory Major | 4 | 25 | 75 | 100 |
| C2 | Guidance and Counseling Across the Lifespan | Theory Major | 4 | 25 | 75 | 100 |
| C3 | Fundamentals of Nutrition and Food Science | Theory Major | 4 | 25 | 75 | 100 |
| C4 | Development Communication | Theory Major | 4 | 25 | 75 | 100 |
| C5 | Internship | Practical Major | 4 | 25 | 75 | 100 |
| C6 | Other Faculty * | Minor | 4 | 25 | 75 | 100 |
| C7 | Research Project | Project | 4 | 25 | 75 | 100 |
| | | | 28 | 175 | 525 | 700 |

Semester VIII

| Paper No | Subject | Course Type | Credits | CIE | UE | Total |
|----------|--|-----------------|---------|-----|-----|-------|
| C 8 | Research Methodology | Theory Major | 4 | 25 | 75 | 100 |
| C 9 | Advanced Food Science | Theory Major | 4 | 25 | 75 | 100 |
| C 10 | Theories of Human Development | Theory Major | 4 | 25 | 75 | 100 |
| C 11 | Traditional Textiles and Apparel Designing | Theory Major | 4 | 25 | 75 | 100 |
| C 12 | Surface Ornamentation on Textile | Practical Major | 4 | 25 | 75 | 100 |
| C 13 | Research Project | Project | 4 | 25 | 75 | 100 |
| | | | 24 | 150 | 450 | 600 |

*Faculty of Linguistic, Faculty of Computer, Faculty of Management, Faculty of Basic Science

MA (Home Science)

Semester IX

| Paper No | Subject | COURSE TYPE | CREDIT | CIE | UE | TOTAL |
|----------|---|-----------------|--------|-----|-----|-------|
| C 14 | Advanced Apparel Designing & Production | Theory Major | 4 | 25 | 75 | 100 |
| C 15 | Women Studies | Theory Major | 4 | 25 | 75 | 100 |
| C 16 | Applied Nutrition-Health and Fitness | Theory Major | 4 | 25 | 75 | 100 |
| C 17 | Sustainable Development | Theory Major | 4 | 25 | 75 | 100 |
| C 18 | Computer Application in Designing | Practical Major | 4 | 25 | 75 | 100 |
| C 19 | Research Project | Project | 4 | 25 | 75 | 100 |
| | | | 24 | 150 | 450 | 600 |

Semester X

| Paper No | Subject | COURSE TYPE | CREDIT | CIE | UE | TOTAL |
|----------|----------------------------------|-----------------|--------|-----|-----|-------|
| C 20 | Ergonomics | Theory Major | 4 | 25 | 75 | 100 |
| C 21 | Study of Family and Society | Theory Major | 4 | 25 | 75 | 100 |
| C 22 | Training and Management | Theory Major | 4 | 25 | 75 | 100 |
| C 23 | Food Processing and Preservation | Theory Major | 4 | 25 | 75 | 100 |
| C 24 | Food Preservation Techniques | Practical Major | 4 | 25 | 75 | 100 |
| C 25 | Research Project | Project | 4 | 25 | 75 | 100 |
| | | | 24 | 150 | 450 | 600 |

Name of the Course: PG Diploma in Nutrition & Dietetics

Max. Marks: 100 marks per subject

Min Marks: 36 Marks per subject

Total Credits: 40

I SEMESTER

| Paper No. | Subject | Credits | External (Theory) | Internal (Practical) | TOTAL |
|-----------|---------------------------------|---------|-------------------|----------------------|-------|
| I | Nutritional Biochemistry-I | 5 | 60 | 40 | 100 |
| II | Food and Meal Management | 5 | 60 | 40 | 100 |
| III | Food Service Management | 5 | 60 | 40 | 100 |
| IV | Food Microbiology & Food Safety | 5 | 60 | 40 | 100 |
| | Total | | 240 | 160 | 400 |

II SEMESTER

| Paper No. | Subject | Credits | External (Theory) | Internal (Practical) | TOTAL |
|-----------|------------------------------------|---------|-------------------|----------------------|-------|
| V | Public Health Nutrition | 5 | 60 | 40 | 100 |
| VI | Advanced Physiology | 5 | 60 | 40 | 100 |
| VII | Clinical Nutrition | 5 | 60 | 40 | 100 |
| VIII | Internship and Report Presentation | 5 | - | 100 | 100 |
| | Total | | 180 | 220 | 400 |

Name of the Course: Certificate Course in Food Processing and Preservation

Max. Marks: 100 marks per subject

Min Marks: 36 Marks per subject

Total Credits: 20

| SEMESTER | PAPER NUMBER | COURSE TITLE | Credit | External (Theory) | Internal (Practical) | Total |
|----------|--------------|------------------------------|--------|-------------------|----------------------|-------|
| I | I | Fundamentals of Food Science | 5 | 60 | 40 | 100 |
| | II | Food Processing Technology | 5 | 60 | 40 | 100 |
| | III | Food Preservation | 5 | 60 | 40 | 100 |
| | IV | Bakery & Confectionery | 5 | 60 | 40 | 100 |
| | Total | | | 240 | 160 | 400 |

Deeper Understanding of Yoga: To make students understand the classical nature of Yoga & giving them the in-depth knowledge of its various components.

Prevention: To introduce yoga as therapy, its principles and practices of yoga for prevention of various lifestyles, non-communicable and psychosomatic disorders.

Promotion of positive health: To prepare them for giving talks and offer techniques to promote healthy yogic life style.

Scheme of Teaching & Examination

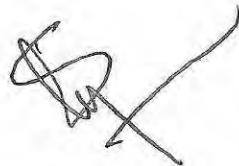
| S.N. | Subject Code | Subject Title | Periods per week | | | Evaluation Scheme | | | | Subject Total |
|--------------------|--------------|--|------------------|---|---|-------------------|--------------|----|-----|---------------|
| | | | | | | Seasonal | | | SEE | |
| | | | L | T | P | Credit | CT | TA | | |
| I Year | | | | | | | | | | |
| Semester I | | | | | | | | | | |
| 1 | MA 101 | Fundamentals of Yoga | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 2 | MA 102 | Principles of Hath Yoga | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 3 | MA 103 | Introduction To Shrimad BhagavadGeeta and Samkhya karika | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 4 | MA 104 | Human Biology I | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 5 | MA 105 | Yoga Practicum | 0 | 0 | 8 | 4 | 20 | 10 | 70 | 100 |
| 6 | MA 106 | Human Biology Practicum | 0 | 0 | 8 | 4 | 20 | 10 | 70 | 100 |
| 7 | MA CE 01 | Communicative English(Non Credit) | 3 | 1 | 0 | 0 | 20 | 10 | 70 | 100 |
| 36 Hrs | | | | | | 24 | Total | | | 600 |
| Semester II | | | | | | | | | | |

| | | | | | | | | | | |
|-----------------------|----------|--|---|---|---|---------------|-----------|--------------|----|------------|
| 1 | MA 201 | Patanjal Yoga Darshan | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 2 | MA 202 | Indian Philosophy & Culture | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 3 | MA 203 | Yoga Psychology | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 4 | MA 204 | Human Biology-II | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 5 | MA 205 | Yoga Practicum | 0 | 0 | 8 | 4 | 20 | 10 | 70 | 100 |
| 6 | MA 206 | Human Biology Practicum-II | 0 | 0 | 8 | 4 | 20 | 10 | 70 | 100 |
| 7 | MA CE 02 | Communicative English (Non Credit) | 3 | 1 | 0 | 0 | 20 | 10 | 70 | 100 |
| | | | | | | 36 Hrs | 24 | Total | | 600 |
| II Year | | | | | | | | | | |
| Semester – III | | | | | | | | | | |
| 1 | MA 301 | Methods of Teaching Yoga and Value Education | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 2 | MA 302 | Introduction to Ayurveda | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 3 | MA 303 | Research & Statistical Methods | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 4 | MA 304 | Naturopathy | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 5 | MA 305 | Yoga Practicum | 0 | 0 | 8 | 4 | 20 | 10 | 70 | 100 |
| 6 | MA 306 | Naturopathy Practicum | 0 | 0 | 8 | 4 | 20 | 10 | 70 | 100 |
| 7 | MA CE 03 | Communicative English(Non Credit) | 3 | 1 | 0 | 0 | 20 | 10 | 70 | 100 |
| | | | | | | 36 Hrs | 24 | Total | | 600 |




| Semester- IV | | | | | | | | | | |
|--------------------------------|----------|---|---|---|---|---------------|-----------|--------------------|----|-------------|
| 1 | MA 401 | Hygiene, Diet & Nutrition | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 2 | MA 402 | Yoga Therapy | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 3 | MA 403 | Complementary & Alternative Therapy (CAT) | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 4 | MA 404 | Dissertation/Field Training | 3 | 1 | 0 | 4 | 20 | 10 | 70 | 100 |
| 5 | MA 405 | Yoga Practicum | 0 | 0 | 8 | 4 | 20 | 10 | 70 | 100 |
| 6 | MA 406 | Complementary & Alternative Therapy Practicum | 0 | 0 | 8 | 4 | 20 | 10 | 70 | 100 |
| 7 | MA CE 04 | Communicative English(Non Credit) | 3 | 1 | 0 | 0 | 20 | 10 | 70 | 100 |
| | | | | | | 36 Hrs | 24 | Total | | 600 |
| Total number of Credits | | | | | | | 96 | Total Marks | | 2400 |

L - Lecture, T-Tutorial, P-Practical (practice/ field), CT- Cumulative Tests,
 TA - Teachers Assessment, SEE - Semester Examination




DEPARTMENT OF LIBRARY & INFORMATION SCIENCE

Dr. Bhimrao Ambedkar University, Agra 282004 (U.P.)
(Formerly: Agra University, Agra)

SCHEME OF PAPERS FOR MASTER OF LIBRARY & INFORMATION SCIENCE (CBCS AND AFFILIATED COLLEGE)

SEMESTER: I

| Paper Code | Nomenclature of Papers | Lecture-Credits | Tutorial-Credits | Practical-Credits | Total-Credits | Allocation | Maximum Marks |
|----------------------------------|--|-----------------|------------------|-------------------|---------------|------------|---------------|
| | CORE PAPERS | | | | | | |
| LIS-201 | MARKETING OF INFORMATION PRODUCTS AND SERVICES (Theory) | 2 | 1 | 1 | 4 | 80:20 | 100 |
| LIS-202 | INFORMATION SYSTEMS MANAGEMENT | 3 | 1 | 0 | 4 | 80 : 20 | 100 |
| LIS-203 | ADVANCED ICT APPLICATIONS in LIS (Theory) | 2 | 0 | 2 | 4 | 80 :20 | 100 |
| LIS-204 | KNOWLEDGE ORGANIZATION AND PROCESSING (PRACTICAL: U.D.C AND AACR-2) | 2 | 0 | 2 | 4 | 80 : 20 | 100 |
| ELECTIVE PAPERS : Any One | | | | | | | |
| LIS-205 | UNIVERSITY & COLLEGE LIBRARY SYSTEM | 3 | 1 | 0 | 4 | 80 : 20 | 100 |
| LIS-206 | PUBLIC LIBRARY SYSTEM | 3 | 1 | 0 | 4 | 80 : 20 | 100 |
| LIS-207 | RESEARCH & TECHNICAL LIBRARY SYSTEM | 3 | 1 | 0 | 4 | 80 : 20 | 100 |
| | Total | 12 | 03 | 05 | 20 | 500 | 500 |

SEMESTER: II

| Paper Code | Nomenclature of Papers | Lecture-Credits | Tutorial-Credits | Practical-Credits | Total-Credits | Allocation | Maximum Marks |
|----------------------------------|--|-----------------|------------------|-------------------|---------------|------------|---------------|
| | CORE PAPERS | | | | | | |
| LIS-208 | RESEARCH METHODS & STATISTICAL TECHNIQUES | 3 | 1 | 0 | 4 | 80 : 20 | 100 |
| LIS-209 | INFORMATION RETRIEVAL (Theory) | 2 | 1 | 1 | 4 | 80 : 20 | 100 |
| LIS-210 | ADVANCED ICT APPLICATIONS in LIS (Practical) | 2 | 0 | 2 | 4 | 80 : 20 | 100 |
| LIS-211 | PROJECT REPORT | 0 | 2 | 4 | 6 | 80 : 20 | 100 |
| ELECTIVE PAPERS : Any One | | | | | | | |
| LIS-212 | SOCIAL SCIENCE INFORMATION SYSTEM | 3 | 1 | 0 | 4 | 80 : 20 | 100 |
| LIS-213 | BUSINESS INFORMATION SYSTEM | 2 | 1 | 1 | 4 | 80 : 20 | 100 |
| LIS-214 | HEALTH SCIENCE INFORMATION SYSTEM | 2 | 1 | 1 | 4 | 80 : 20 | 100 |
| Total | | 10/09 | 05/04 | 08 | 22 | 500 | 500 |

NOTE:

1. Assignments, Case Studies, Seminars, Discussions and Round Tables, all shall be Covered under Tutorials.
2. Conversion of Marks Obtained in Each Paper/Semester to Letter Grade and Grade Points shall be as following :

| Letter Grade | Grade Point | Marks |
|--------------------------|-------------|---------------------|
| O (Outstanding) | 10 | 85-100 |
| A+ (Excellent) | 9 | 75-84 |
| A (Very Good) | 8 | 65-74 |
| B+ (Good) | 7 | 55-64 |
| B (Above Average) | 6 | 50-54 |
| C (Average) | 5 | 41-49 |
| P (Pass) | 4 | 40 |
| F (Fail) | 0 | Less Than 40 |
| Abs | 0 | Absent |

Note-2 for Affiliated College / Non CBCS Course the division for BLIS and MLIS Examination, the division are awarded in the following manner:

1st Div.60% in aggregate

2nd Div.48% in aggregate

For BLIS and MLIS Examination, a Candidate needs to secure 36% marks in individual papers and 48% in total aggregate.

M.Sc. Biochemistry Syllabus
Under credit system at the Department of Biochemistry
Dr. Bhimrao. Ambedkar University, Agra

| Semester | Papers | Marks | | Total | Credit |
|-----------------------------|--|--------|-----------------------------|------------|-----------|
| Semester I Course Code | | CIE | End Semester examination | | |
| BC 101C | Plant Biochemistry | 25 | 75 | 100 | 4 |
| BC 102C | Cell Biology and Cell Signalling | 25 | 75 | 100 | 4 |
| BC 103C | Biomolecules and Bioinstrumentation | 25 | 75 | 100 | 4 |
| BC 104C | Biostatistics and Computer Applications | 25 | 75 | 100 | 4 |
| BC 105 | Practical | | | 100 | 4 |
| | Industrial Training/Survey/Research Project | | | | |
| Total | | | | 500 | 20 |
| Semester | Papers | Marks | | Total | Credit |
| Semester II Course Code | | CIE | End Semester examination | | |
| BC 201C | Essential of Molecular Biology | 25 | 75 | 100 | 4 |
| BC 202C | Immunology | 25 | 75 | 100 | 4 |
| BC 203C | Advanced Enzymology | 25 | 75 | 100 | 4 |
| BC 204C | Intermediary Metabolism | 25 | 75 | 100 | 4 |
| BC 205 | Practical | | | 100 | |
| | Industrial Training/ Survey/Research Project | | | 200 | 8 |
| | Minor | 25 | 75 | 100 | 4 |
| Total | | 800 32 | | | |
| Semester | Papers | Marks | | Total | Credit |
| Semester III Course Code | | CIE | End Semester examination | | |
| BC 301C | Microbial Physiology and Biochemistry | 25 | 75 | 100 | 4 |
| BC 302C | Nutritional Biochemistry | 25 | 75 | 100 | 4 |
| BC 303C | Clinical Biochemistry and Biosafety | 25 | 75 | 100 | 4 |
| BC 304E | Genetic Engineering | 25 | 75 | 100 | 4 |
| BC 305E | Pharmaceutical biochemistry | | | | |
| BC 305 | Practical | | 100 | 100 | 4 |
| | Industrial Training/ Survey/Research Project | | | | |
| Total | | | | 500 | 20 |
| Semester | Papers | Marks | | Total | Credit |
| Semester IV Course Code | | CIE | End Semester examination | | |
| BC 401C | Applied Biotechnology | 25 | 75 | 100 | 4 |
| BC 402C | Human Physiology | 25 | 75 | 100 | 4 |
| BC 403E | Environmental Biochemistry | 25 | 75 | 100 | 4 |
| BC 404E | Genomics and Proteomics | | | | |
| BC 405E | Gene Expression and Regulation | 25 | 75 | 100 | 4 |

Choice Based Credit System (CBCS)
Department of Biotechnology,
School of Life Sciences,
Dr. Bhimrao Ambedkar University, Agra

| Core Courses | Course Title M.Sc. Biotechnology I semester | Marks | | Total 100 | Credit | Course Mapping | | |
|--------------|---|-------|--------------------------|-------------|------------|----------------|-----|-----|
| | | CIE | End Semester Examination | | | EC | EPC | SDC |
| BT-C101 | Cell Biology | 25 | 75 | 100 | 4 | - | - | - |
| BT-C102 | Biomolecules and Basic Enzymology | 25 | 75 | 100 | 4 | - | - | - |
| BT-C103 | Microbial Physiology and Metabolism | 25 | 75 | 100 | 4 | | | |
| BT-C104 | Biostatistics and Computer Application | 25 | 75 | 100 | 4 | | | |
| BT-C105 | Practical | | 100 | 100 | 4 | | | |
| | Industrial training/Survey/Research Project | | | | | | | |
| | Total | | | 500 | 20 | | | |
| Core Courses | Course Title M.Sc. Biotechnology II semester | Marks | | Total | Credit | Course Mapping | | |
| | | CIE | End Semester Examination | | | EC | EPC | SDC |
| BT-C 201 | Molecular Biology | 25 | 75 | 100 | 4 | | | |
| BT-C202 | Instrumentation and Techniques in Biotechnology | 25 | 75 | 100 | 4 | | | |
| BT-C203 | Biology of the immune system | 25 | 75 | 100 | 4 | | | |
| BT-C204 | Genetics | 25 | 75 | 100 | 4 | | | |
| BT-C 205 | Practical | | 100 | 100 | 4 | | | |
| BT-C206 | Industrial training/Survey/Research Project | | 200 | 200 | 8 | | | |
| | Minor | 25 | 75 | 100 | 4 | | | |
| | Total | | | 800 | 32 | | | |
| Core Courses | Course Title M.Sc. Biotechnology III semester | Marks | | Total | Credit | Course Mapping | | |
| | | CIE | End Semester Examination | | | EC | EPC | SDC |
| BT-C301 | Animal Cell science and technology | 25 | 75 | 100 | 4 | | | |
| BT-C302 | Genetic engineering | 25 | 75 | 100 | 4 | | | |
| BT-C303 | Bioprocess engineering and Technology | 25 | 75 | 100 | 4 | | | |
| BT-E304 | Basic Bioinformatics | 25 | 75 | 100 | 4 | | | |
| BT-E305 | Basic Genomics and Proteomics | | | | | | | |
| BT-C306 | Practical | | 100 | 100 | 4 | | | |
| | Industrial training/Survey/Research Project | | | | | | | |
| | Total | | | 500 | 20 | | | |
| Core Courses | Course Title | Marks | | Total | Credit | Course Mapping | | |
| | | CIE | End Semester Examination | | | EC | EPC | SDC |
| BT-C401 | Plant Biotechnology | 25 | 75 | 100 | 4 | | | |
| BT-C402 | Environmental Biotechnology | 25 | 75 | 100 | 4 | | | |
| BT-E403 | Molecular Diagnostics | 25 | 75 | 100 | 4 | | | |
| BT-E404 | Stem Cell Biology | | | | | | | |
| BT-E405 | Food Biotechnology | 25 | 75 | 100 | 4 | | | |
| BT-E406 | Agricultural Biotechnology | | | | | | | |
| BT-C407 | Practical | | 100 | 100 | 4 | | | |
| BT-C408 | Industrial training/Survey/Research Project | | 200 | 200 | 8 | | | |
| | Total | | | 700 | 28 | | | |
| | Grand Total of 1st and 2nd year (I, II, III and IV semester) | | | 2500 | 100 | | | |

Note: The I and II semesters of the first year of the M. Sc. Biotechnology in Faculty of Life Science Programme will be Known as VII and VIII semester of the B. Sc. Research (in Faculty of Life Science).

* Courses Code having 'C' abbreviation is Core course and having 'E' abbreviation is Elective course.*

No. of Total Courses - 26,

Mapping of the course to employability/ Entrepreneurship/skill development :

*EC: Employability Courses *EPC: Entrepreneurship Courses *SDC: Skill Development Courses


Registrar
Dr. B.R.A. University, Agra

C-1**COMPUTERS FOR CHEMISTS****CREDITS-05**

After completion of this course successfully the students will be able to

CO1- acquire knowledge about the history and development of computer.

CO2- acquaint with the different softwares and the operating systems used in computer.

CO3- provide basic knowledge about the internet, networking.

CO4- aware about the tool used in chemistry.

CO5- acquire knowledge about the use of MS office, multimedia tool for presentation in chemistry.

C-2**INORGANIC CHEMISTRY****CREDITS-05**

After completion of this course successfully the students will be able to

CO1- understand the principle of various bonding theories and identify the structure and bonding of metal cluster and complex molecules.

CO2- have a firm foundation in the fundamental techniques and scientific theories in nuclear chemistry.

CO3- understand the bonding and structure in metal clusters and also the spatial arrangements of molecules with different oxidation state of metals.

CO4- learn the synthesis applications of macrocycles in biological system.

CO5- appreciate the existence and application of inorganic compounds.

C-3**ORGANIC CHEMISTRY****CREDITS-05**

After completion of this course successfully the students will be able to

CO1- acquaint with the basic ideas of chemical bonding, stability in molecules and obtain theoretical understanding of how reactive intermediates.

CO2- obtain theoretical understanding of how inorganic reaction take place in substitution reactions.

CO3- obtain theoretical understanding of stereochemistry of inorganic molecules of elimination reactions.

CO4- understand the reactions and mechanistic pathways of organic reactions.

CO5- explore about the reagents commonly used in organic synthesis.

C-4

PHYSICAL CHEMISTRY

CREDITS-05

After completion of this course successfully the students will, be able to

- CO1- get basic idea about fundamental of quantum chemistry.
- CO2- get exposure about the statistical thermodynamics.
- CO3- study the kinetics of different types of reactions and methodologies.
- CO4- impart knowledge of micelles and macromolecules.
- CO5- get the fundamentals and theories of electrochemistry.

C-5 ADULTERANTS (MINOR for other Faculty)

CREDITS-05

After completion of this course successfully the students will be able to

- CO1- get information about the different types of food and adulteration based on local and national needs.
- CO2- to study the detection of adulterants.
- CO3- analyze the adulterant in local materials commonly available in house hold products for employability.
- CO4- impart knowledge about the false labelling and fake products in food packets available nationally and internationally.
- CO5- get awareness about the food safety and standard and different standard laid down by the government.

C-6 GROUP THEORY AND SPECTROSCOPY

CREDITS-05

After completion of this course successfully the students will be able to

- CO1- understanding the basic concepts of molecular symmetry and to analyze the point group of chemical molecules.
- CO2- apply the applications of rotational and vibrational spectroscopy.
- CO3- On learning the course, students will be able to apply the concepts of electrostatic transitions in molecules.
- CO4- familiarize the importance of AAS in metal analysis.
- CO5- perform low cost, analysis of metals using flame photometry for local need.



C-7

BIO-INORGANIC CHEMISTRY

CREDITS-05

After completion of this course successfully the students will be able to

CO1- learn the transport mechanism of metal ions in biological systems.

CO2- familiarize with structure and functions of biomolecules.

CO3- impart knowledge of bio-inorganic pigments.

CO4- learn the concepts of biochemistry of metals as well as nitrogen fixation.

CO5- to study the fundamentals of toxicity of metals and also to learn the metals ions as chelating agent in medicine.

C-8

BIO-PHYSICAL CHEMISTRY

CREDITS-05

After completion of this course successfully the students will be able to

CO1- to understand the structure and theories of enzymes.

CO2- appreciate the importance and function of coenzymes.

CO3- study of the free energy in biochemical reactions.

CO4- learn the functions of transport of ion in cell membrane.

CO5- understand the different physical parameters in biological systems.

C-9

SPECTROSCOPIC METHODS OF ANALYSIS

CREDITS-05

After completion of this course successfully the students will be able to

CO1- understand the theories of absorption spectroscopy.

CO2- know the fundamentals of raman spectroscopy.

CO3- learn the fundamentals and applications of NMR spectroscopy.

CO4- understand the fragmentation takes in mass spectrometry.

CO5- know the fundamentals of electronic spin resonance spectroscopy.

C-10 M.Sc. CHEMISTRY PRACTICAL (Semester VIII)

CREDITS-04

After completion of this course successfully the students will be able to

CO1- analyze common chemical from their identity and composition

CO2- estimate different ions, and organic compounds quantitative and qualitatively.

CO3- gather experience on synthesis of inorganic materials and organic compounds.

CO4- analyze structure of organic compounds by use of spectra

CO5- have hand on experience / practical knowledge in performing physical experiments.

C-11

RESEARCH PROJECT

CREDITS-08

After completion of this course successfully the students will be able to

CO1- understand research problems.

CO2- execute literature search on a research topic.

CO3- design new experiments to address research problems.

CO4- conducts experiments in a scientific way.

CO5- analyze and interpretation of the results.

C-12 PHOTO AND STEREOCHEMISTRY

CREDITS-05

After completion of this course successfully the students will be able to

CO1- acquaint with the general principles involved in photochemistry.

CO2- understand the organic reactions involved in photochemistry and able to differentiate between photochemical and thermal reaction.

CO3- provide concept of chirality, various method for projection of chiral molecules, and effect of rotation on energy level.

CO4- learn the chiroptical properties and will able to analyze how a chiral compound is optical active.

CO5- get knowledge of separation of stereo organic compounds i.e., resolution of racemates and also how the organic compounds show selectivity based on functional group.

C-13

SOLID STATE CHEMISTRY, SURFACE

CREDITS-05

PHENOMENON AND CHEMICAL EQUILIBRIA

After completion of this course successfully the students will be able to

CO1- understand the basic knowledge of crystal structure.

CO2- provide understanding of crystal defects in solid state and the properties associated in solid.

CO3- impart knowledge of electronic properties of metal, insulators and semiconductors.

CO4- learn the concept of physical and spectral properties of the surface of solid.

CO5- study the fundamental physical properties of mixing of one and two component system.

C-14

COORDINATION CHEMISTRY

CREDITS-05

After completion of this course successfully the students will be able to

CO1- identify the bonding, structure and energy of selected coordination complexes.

CO2- perform applications of coordination compounds.

CO3- study the physical parameters of coordination compounds.

CO4- understanding the reaction mechanism in coordination compounds.

CO5- understanding the applications of spectral and magnetic properties of lanthanides and actinides.

C-15

BASIC ANALYTICAL CHEMISTRY

CREDITS-05

After completion of this course successfully the students will be able to

CO1- apply amperometry technique in the characterization of metal ion

CO2- apply colometry for the identification and characterization.

CO3- understand and apply the conductometry for the characterization of metal ion

CO4- estimate metal ion using polarographic technique

CO5- estimate metal ion through voltammetry

C-16

CHEMISTRY OF NATURAL PRODUCTS

CREDITS-05

After completion of this course successfully the students will be able to

CO1- understand the structure of selected plant pigments.

CO2- appreciate the importance of alkaloids.

CO3- understand the basic of terpenoids and carotenoids from local plants materials as natural products.

CO4- understand the isolation of steroids.

CO5- perform the synthesis of selected antibiotics and action of antibiotics as drugs.

C-17

INTERDISCIPLINARY TOPICS

CREDITS-04

After completion of this course successfully the students will be able to

CO1- appreciate the importance of nanoscience and technology.

CO2- understand the role of green chemistry in chemical science.

CO3- study the concept of supra molecular chemistry and its applications.

CO4- understand the environment and atmosphere and the role of greenhouse effect, acid rain, air pollution in the environment.

CO5- understand the role of aquatic pollution and also study the hydrosphere and soils.

C-18

SEPARATION TECHNIQUES

CREDITS-04

After completion of this course successfully the students will be able to

CO1- learn the applications of TLC and column chromatography in analysis of mixtures.

CO2- understand the principle, experimental setup and applications of partition.

CO3- acquaint the knowledge of GC in analysis of samples.

CO4- understand analyze and applications of HPLC and also applications of supercritical fluid and gel permeation chromatography.

CO5- learn the experimental setup and applications of solvent extraction.



C-19

ADVANCED ANALYTICAL METHODS

CREDITS-04

After completion of this course successfully the students will be able to

CO1- appreciate the importance of data analysis in chemistry.

CO2-analyze common metal using inductively coupled plasma spectroscopy.

CO3- familiarize with instrumentation and application of x-ray diffraction.

CO4-gather knowledge of scanning electron microscopy and transmission electron microscopy in analysis of samples.

CO5- study the fundamental applications of thermal gravimetric analysis of materials.

C-20 ADVANCED INORGANIC CHEMISTRY

CREDITS-04

After completion of this course successfully the students will be able to

CO1- advance learning of transition metal complexes in chemistry.

CO2-understanding of bio-inorganic metals in living system.

CO3- learning the role of metalloenzymes in biological system.

CO4- study the metal nucleic acid interaction as well as metal in biological systems.

CO5- known the excited states of metal complexes in coordination chemistry.

C-21 ADVANCED ORGANIC CHEMISTRY

CREDITS-04

After completion of this course successfully the students will be able to

CO1- learning the basic of heterocyclic chemistry.

CO2- getting an idea about the mechanistic pathway of various common organic rearrangements.

CO3- understanding the concept and applications of pericyclic reactions in advanced organic chemistry.

CO4- learning the concept of disconnection approach in the designing and synthesis of complexed molecules.

CO5- understanding the structure and used of some important drugs.



C-22 ADVANCED PHYSICAL CHEMISTRY

CREDITS-04

After completion of this course successfully the students will be able to

CO1- understanding and appreciate the advanced concepts of thin film and Langmuir-Blodgett films and liquid crystal.

CO2- advanced study of polymeric materials and its applications.

CO3- study ionic conductors its properties and applications.

CO4- developing skill in computational treatment of atoms and molecules.

CO5- studying of general properties of liquids.

C-23 POLYMER CHEMISTRY

CREDITS-04

After completion of this course successfully the students will be able to

CO1- understanding the basic importance of polymers.

CO2- developing skill in the polymer characterization.

CO3- evaluating the structure and various properties of crystalline polymer.

CO4- learning the process of polymerizations.

CO5- understanding the properties of commercial polymer and its applications.

C-24 INDUSTRIAL CHEMISTRY

CREDITS-04

After completion of this course successfully the students will be able to

CO1- understanding and apply of cement, ceramic and glass.

CO2- learning the basic of composites formation and its application.

CO3- understanding the different fertilizer and its specific application.

CO4- knowing the utilization and preparation of petrochemicals and lubricants.

CO5- knowledge of paints and its formulation.



C-25

MEDICINAL CHEMISTRY

CREDITS-04

After completion of this course successfully the students will be able to

CO1- understanding the advanced knowledge of drug design and developments of new drugs.

CO2- studying of various pharmacokinetics of drugs and its applications in drug developments.

CO3- learning pharmacodynamics of drugs in medicinal chemistry.

CO4- understanding the drugs used as antineoplastic.

CO5- understanding the drugs used as cardiovascular drugs.

C-26

M.Sc. CHEMISTRY PRACTICAL (SEMESTER X)

CREDITS-04

After completion of this course successfully the students will be able to

CO1- learn about the role of flame photometry in the analysis of metals.

CO2- learn about the spectroscopic and chromatographic technique in the analysis of substance.

CO3- evaluate the organic compound from natural resources.

CO4- learn the multistep and green synthesis of organic compounds.

CO5- utilization of thermodynamic spectroscopy, polarography in the analysis of sample.

C-27

RESEARCH PROJECT

CREDITS-08

After completion of this course successfully the students will be able to

CO1- understand research problems specific topic.

CO2- execute literature search on a research topic assigned to students.

CO3- design new experiments to address research problems based on the allotted research topics.

CO4- conducts experiments in a scientific way.

CO5- analyze and interpretation of the results.



**REVISED COURSES AND SYLLABI
OF
M.Sc. ENVIRONMENTAL SCIENCE**
Faculty of Life Science
BASED ON CHOICE BASED CREDIT SYSTEM (CBCS)
Department of Environmental Studies,
Dr.BhimraoAmbedkar University, Agra
UNDER NEP-2020

| Courses | M. Sc. Environmental Science I semester | Marks | | Total 100 | Credit |
|------------|--|-------|-----------------------------|--------------|------------|
| | Course Title | CIE | End Semester Examination | | |
| EnvSc-C101 | Ecology and Sustainable Development | 25 | 75 | 100 | 4 |
| EnvSc-C102 | Environmental Pollution | 25 | 75 | 100 | 4 |
| EnvSc-C103 | Energy and Environmental Policy | 25 | 75 | 100 | 4 |
| EnvSc-C104 | Biodiversity and Conservation | 25 | 75 | 100 | 4 |
| EnvSc-C105 | Practical | | 100 | 100 | 4 |
| | Industrial training/Survey/Research Project | | | | |
| | Total | | | 500 | 20 |
| Courses | M. Sc. Environmental Science II semester | Marks | | Total | Credit |
| | Course Title | CIE | End Semester Examination | | |
| EnvSc-C201 | Environmental Chemistry | 25 | 75 | 100 | 4 |
| EnvSc-C202 | Earth Processes and Soil Sciences | 25 | 75 | 100 | 4 |
| EnvSc-C203 | Environmental Techniques | 25 | 75 | 100 | 4 |
| EnvSc-C204 | Environmental Engineering | 25 | 75 | 100 | 4 |
| EnvSc-C205 | Practical | | 100 | 100 | 4 |
| EnvSc-C206 | Industrial training/Survey/Research Project | | 200 | 200 | 8 |
| | Minor (Other Faculty) | 25 | 75 | 100 | 4 |
| | Total | | | 800 | 32 |
| Courses | M. Sc. Environmental Science III semester | Marks | | Total | Credit |
| | Course Title | CIE | End Semester Examination | | |
| EnvSc-C301 | Water resources and Marine Environment | 25 | 75 | 100 | 4 |
| EnvSc-C302 | Solid and Hazardous Waste Management | 25 | 75 | 100 | 4 |
| EnvSc-C303 | Environmental Bio-statistics and Modelling | 25 | 75 | 100 | 4 |
| EnvSc-E304 | Meteorology: Tools And Techniques | 25 | 75 | 100 | 4 |
| EnvSc-E305 | Atmosphere And Global Climate Change | | | | |
| EnvSc-C306 | Practical | | 100 | 100 | 4 |
| | Industrial training/Survey/Research Project | | | | |
| | Total | | | 500 | 20 |
| Courses | M. Sc. Environmental Science IV semester | Marks | | Total | Credit |
| | Course Title | CIE | End Semester Examination | | |
| EnvSc-C401 | Environmental Impact and Risk Assessment | 25 | 75 | 100 | 4 |
| EnvSc-C402 | Environmental Management and Laws | 25 | 75 | 100 | 4 |
| EnvSc-E403 | Environmental Biotechnology | 25 | 75 | 100 | 4 |
| EnvSc-E404 | Environmental Instrumentation | | | | |
| EnvSc-E405 | Ecotoxicology And Environmental Health | 25 | 75 | 100 | 4 |
| EnvSc-E406 | Environmental Hazards | | | | |
| EnvSc-C407 | Practical | | 100 | 100 | 4 |
| EnvSc-C408 | Industrial training/Survey/Research Project | | 200 | 200 | 8 |
| | Total | | | 700 | 28 |
| | Total Marks and Credits | | | 2500 | 100 |

Course mapping to Global needs/Regional Needs/Local needs : Yellow color represents Global needs, Cyan color represents National needs Pink color represents Regional needs Orange Color represents Local needs Red color represent Employability Courses Green color represent Entrepreneurship Course Blue color Skill Development Course

Choice Based Credit System (CBCS)
Department of Microbiology,
School of Life Sciences,
Dr. B. R. Ambedkar University, Agra

M.Sc. Microbiology I semester

| Core Courses | Course Title | Marks | | Total 100 | Credit |
|--------------|--|-------|--------------------------|------------|-----------|
| | | CIE | End Semester Examination | | |
| MB -C101 | Mycology | 25 | 75 | 100 | 4 |
| MB -C102 | Virology | 25 | 75 | 100 | 4 |
| MB-C103 | Bacteriology | 25 | 75 | 100 | 4 |
| MB-C104 | Microbial Biochemistry and Basic Enzymology | 25 | 75 | 100 | 4 |
| MB-105 | Practical | | 100 | 100 | 4 |
| | Industrial training/Survey/Research Project | | | | |
| | Total | | | 500 | 20 |

II semester

| Core Courses | Course Title | Marks | | Total | Credit |
|--------------|--|-------|--------------------------|------------|-----------|
| | | CIE | End Semester Examination | | |
| MB-C201 | Molecular Biology | 25 | 75 | 100 | 4 |
| MB -C202 | Microbial Genetics | 25 | 75 | 100 | 4 |
| MB-C203 | Bioinstrumentation | 25 | 75 | 100 | 4 |
| MB-C204 | Immunology | 25 | 75 | 100 | 4 |
| MB-205 | Practical | | 100 | 100 | 4 |
| MB-206 | Industrial training/Survey/Research Project | | 200 | 200 | 8 |
| | Minor | 25 | 75 | 100 | 4 |
| | Total | | | 800 | 32 |

III semester

| Core Courses | Course Title | Marks | | Total | Credit |
|--------------|--|-------|--------------------------|------------|-----------|
| | | CIE | End Semester Examination | | |
| MB-C301 | Microbial Metabolism | 25 | 75 | 100 | 4 |
| MB-C302 | Biostatistics and Computer Application | 25 | 75 | 100 | 4 |
| MB-C303 | r DNA technology | 25 | 75 | 100 | 4 |
| MB-E304 | Computational biology | 25 | 75 | 100 | 4 |
| MB-E305 | Microbial Genomics and Proteomics | | | | |
| MB-306 | Practical | | 100 | 100 | 4 |
| | Industrial training/Survey/Research Project | | | | |
| | Total | | | 500 | 20 |

IV semester

| Core Courses | Course Title | Marks | | Total | Credit |
|--------------|--|-------|--------------------------|------------|-----------|
| | | CIE | End Semester Examination | | |
| MB-C 401 | Medical Microbiology | 25 | 75 | 100 | 4 |
| MB-C402 | Industrial Microbiology | 25 | 75 | 100 | 4 |
| MB -E403 | Food and dairy Microbiology | 25 | 75 | 100 | 4 |
| MBE-404 | Environmental Microbiology | | | | |
| MB 405 | Agricultural Microbiology | 25 | 75 | 100 | 4 |
| MB-E406 | Plant Pathology | | | | |
| MB- 405 | Practical | | 100 | 100 | 4 |
| MB-406 | Industrial training/Survey/Research Project | | 200 | 200 | 8 |
| | Total | | | 700 | 28 |

Note:

- Total number of credits in M.Sc. (Microbiology) I year/ B.Sc. research is 52 credits.
- Total number of credits in M.Sc. (Microbiology) II year 48 credits.
- Total credits required for M.Sc. (Microbiology) will be 52+48 = 100

SKILL, ENTREPRENEURSHIP, EMPLOYABILITY

DR. B. R. AMBEDKAR UNIVERSITY AGRA
SYLLABUS FOR MASTER OF COMMERCE IN ACCOUNTS AND LAW
AS PER NEP-2020 GUIDELINES (BASED ON CBC SYSTEM)

| Semester | S.N. | Code | Title | Status | Max Marks | | | Credit | Total Credit | |
|----------|------|--|---|---------------------------|------------|----------|-------|--------|--------------|-----|
| | | | | | External | Internal | Total | | | |
| VII | 1 | C020701T ✓ | Corporate Legal Framework | Compulsory | 75 | 25 | 100 | 5 ✓ | 24 | |
| | 2 | C020702T ✓ | Statistical Analysis | Compulsory | 75 | 25 | 100 | 5 ✓ | | |
| | 3 | C020703T ✓ | Research Methodology | Compulsory | 75 | 25 | 100 | 5 ✓ | | |
| | 4 | C020704T ✓ | Indian And Global Business Environment | Compulsory | 75 | 25 | 100 | 5 ✓ | | |
| | 5 | *One Minor Paper to be selected from OTHER FACULTY in VII or VIII Semester | | | Compulsory | 75 | 25 | 100 | | 4 ✓ |
| | 6 | Industrial Training/ Survey/ Research Project | | | Compulsory | | | 100 | | 4 ✓ |
| VIII | 1 | C020801T ✓ | Project Planning and Control | Compulsory | 75 | 25 | 100 | 5 ✓ | 28 | |
| | 2 | C020802T ✓ | Tax Planning and Management | Compulsory | 75 | 25 | 100 | 5 ✓ | | |
| | 3 | C020803T ✓ | Advanced Auditing | Compulsory | 75 | 25 | 100 | 5 ✓ | | |
| | 4 | C020804T | Choose Any One ✓ Business Law | Elective | 75 | 25 | 100 | 5 ✓ | | |
| | 5 | C020805T | | Strategic Management | Elective | 75 | 25 | 100 | | 5 ✓ |
| | 6 | C020806R | Industrial Training/ Survey/ Research Project | | Compulsory | | | 100 | | 8 |
| IX | 1 | C020901T ✓ | Accounting For Managerial Decision | Compulsory | 75 | 25 | 100 | 5 | 20 | |
| | 2 | C020902T ✓ | GST& Custom Law | Compulsory | 75 | 25 | 100 | 5 | | |
| | 3 | C020903T ✓ | Financial Institutions and Markets | Elective | 75 | 25 | 100 | 5 | | |
| | 4 | C020904T | Choose Any Two ✓ | Insurance Management | Elective | 75 | 25 | 100 | | 5 |
| | 5 | C020905T | | Advance Costing | Elective | 75 | 25 | 100 | | 5 |
| | 6 | C020906T ✓ | | Business Ethics | Elective | 75 | 25 | 100 | | 5 |
| | 7 | Industrial Training/ Survey/ Research Project | | | Compulsory | | | 100 | | 48 |
| X | 1 | C021001T ✓ | Corporate Financial Accounting | Compulsory | 75 | 25 | 100 | 5 | 28 | |
| | 2 | C021002T ✓ | Financial Management | Elective | 75 | 25 | 100 | 5 | | |
| | 3 | C021003T ✓ | Security Analysis and Portfolio Management | Elective | 75 | 25 | 100 | 5 | | |
| | 4 | C021004T | Choose Any Three ✓ | Human Resource Management | Elective | 75 | 25 | 100 | | 5 |
| | 5 | C021005T ✓ | | International Accounting | Elective | 75 | 25 | 100 | | 5 |
| | 6 | C021006T ✓ | | E-Business | Elective | 75 | 25 | 100 | | 5 |
| | 7 | C021007T ✓ | | Operational Research | Elective | 75 | 25 | 100 | | 5 |

Approved
05/11/2022
Convener, AEC Deptt.

| | | | | | | | | | | |
|--|---|--|------------|--|--|-----|---|--|--|--|
| | 8 | C021008R ✓ Industrial Training/ Survey/ Research Project | Compulsory | | | 100 | 8 | | | |
|--|---|--|------------|--|--|-----|---|--|--|--|

~~Sampled~~
05/11/2022
Conveyor AEL

DR. BHIM RAO AMBEDKAR UNIVERSITY, AGRA

M.COM. (APPLIED BUSINESS ECONOMICS)

SEMESTER SYSTEM

COURSE STRUCTURE

EIGHT SEMESTER

MARKS CREDITS

PAPER- C030801T Financial Analysis and Control (FAC) 100 MARKS 5

PAPER C030802T International Business Environment (IBE) 100 MARKS 5

OR

PAPER C030803T Industrial Economics (IE)

PAPER C030804T Tax Planning (TP) 100 MARKS 5

PAPER C030805T Modern Marketing - Strategies & Applications (MM-SA) 100 MARKS 5

OR

PAPER C030806T Consumer Behaviour and Marketing Research (CBMR)

PAPER C030807R RESEARCH PROJECT (RP) 100 MARKS 8

R. Agarwal

DR. BHIM RAO AMBEDKAR UNIVERSITY, AGRA

M.COM. (APPLIED BUSINESS ECONOMICS)

SEMESTER SYSTEM

COURSE STRUCTURE

| NINTH SEMESTER | | MARKS | CREDITS |
|-----------------------|---|--------------|----------------|
| PAPER –C030901T | Security Analysis and Portfolio Management (SAPM) | 100 | 5 |
| | OR | | |
| PAPER–C030902T | Financial Institutions and Markets (FIM) | 100 | 5 |
| PAPER –C030903T | International Marketing (IM) | 100 | 5 |
| | OR | | |
| PAPER –C030904T | Business Policy & Strategy(BPS) | | |
| PAPER –C030905T | Foreign Trade- Policy, Procedure and Documentation(FT-PPD) | 100 | 5 |
| PAPER –C030906T | Corporate Tax Planning & Management (CTPM) | 100 | 5 |

Agarwal

DR. BHIM RAO AMBEDKAR UNIVERSITY, AGRA

M.COM. (APPLIED BUSINESS ECONOMICS)

SEMESTER SYSTEM

COURSE STRUCTURE

| TENTH SEMESTER | | MARKS | CREDITS |
|-----------------------|---|--------------|----------------|
| PAPER -C031001T | Financial Services Marketing (FSM) | 100 | 5 |
| | OR | | |
| PAPER -C031002T | Customer Relationship Management(CRM) | | |
| PAPER -C031003T | Research Methodology (RM) | 100 | 5 |
| PAPER -C031004T | International Financial Management (IFM) | 100 | 5 |
| | OR | | |
| PAPER -C031005T | Indian Financial System(IFS) | | |
| PAPER -C031006T | Business Project Planning & Control (BPPC) | 100 | 5 |
| | OR | | |
| PAPER -C031007T | Economic Development and Rural Finance (EDRF) | | |
| PAPER -C031008R | RESEARCH PROJECT | 100 | |

R. Agarwal 18

NATIONAL EDUCATION POLICY-2020
Dr. B.R. AMBEDKAR UNIVERSITY, AGRA
PAPER CODING AND CREDIT DISTRIBUTION
M.Com. (BUSINESS ADMINISTRATION)

| No. | Name of Degree | SEMESTER | TITLE OF PAPER | CREDITS | CODE NUMBER | | |
|--|--|---|--|------------------------------|----------------------|----------|----------|
| 1 | Bachelor (Research) in Commerce (Business Administration) | VII | Organization Behaviour | 5 | C010701T | | |
| | | | Accounting For Managerial Decisions | 5 | C010702T | | |
| | | | Marketing Management | 5 | C010703T | | |
| | | | Statistical Analysis | 5 | C010704T | | |
| | | | Research Project | | | | |
| | | VIII | Financial Management | 5 | C010801T | | |
| | | | Human Resource Management | 5 | C010802T | | |
| | | | Managerial Economics | 5 | C010803T | | |
| | | | Group A: Consumer Behaviour and Marketing Research | Choose ANY ONE GROUP (A/B/C) | 5 | C010804T | |
| | | | Group B: Talent Management | | 5 | C010805T | |
| | | | Group C: Marketing Communication | | 5 | C010806T | |
| | | | Research Project | | 8 | C010807R | |
| | | One Minor Paper to be selected from OTHER FACULTY in VII or VIII Semester | | | | 4/5/6 | |
| | | 3 | Master in Commerce (Business Administration) | IX | Research Methodology | 5 | C010901T |
| | | | | | Strategic Management | 5 | C010902T |
| Group A: | To be continued with the Group Opted in Semester VIII | | | | | | |
| Marketing of Services and Retail Management | | | | | 5 | C010903T | |
| Logistics and Supply Chain Management | | | | | 5 | C010904T | |
| Group B: | | | | | | | |
| Organisation Development and Change Management | | | | | 5 | C010905T | |
| Industrial Relations and Labour Legislation | | | | | 5 | C010906T | |
| Group C: | | | | | | | |
| Advertising Management | | | | | 5 | C010907T | |
| Personal Selling and Salesmanship | | | | | 5 | C010908T | |
| Research Project | | | | | | | |

Students of Commerce Faculty may choose MINOR paper from Faculty of Science/ Arts, Humanities and Social Sciences/ Languages/Fine Arts and Performing Arts/Education/Rural Science.

[Signature]
[Signature]
DR. Ravi Maheswari

| S.No. | Name of Degree | SEMESTER | TITLE OF PAPER | CREDITS | CODE NUMBER | |
|-------|---|----------|---|---|-------------|----------|
| | Master in Commerce (Business Administration) | X | Project Management and Planning | 5 | C011001T | |
| | | | Group A: | To be continued with the Group Opted in Semester VIII | | |
| | | | Customer Relationship Management | | 5 | C011002T |
| | | | Digital Marketing and e-Commerce | | 5 | C011003T |
| | | | International Marketing | | 5 | C011004T |
| | | | Group B: | | | |
| | | | Training and Development | 5 | C011005T | |
| | | | Conflict Resolution and Strategic Negotiation | 5 | C011006T | |
| | | | Performance and Compensation Management | 5 | C011007T | |
| | | | Group C: | | | |
| | | | Sales Promotion and Public Relations | 5 | C011008T | |
| | | | Management of Sales Force | 5 | C011009T | |
| | | | Brand Management | 5 | C011010T | |
| | | | Research Project | 8 | C011011R | |

DR. BHIMRAO AMBEDKAR UNIVERSITY, AGRA

Syllabus Master of Commerce (M. Com.)

BUSINESS ADMINISTRATION

Two Years Programme (Four Semesters)

Based on Choice Based Credit System (CBCS) As per NEP 2020 Guidelines

| FIRST YEAR | | | | | |
|----------------------------|------------|-------------------------------------|------|---------|------|
| SEMESTER-VII | | | | | |
| SUBJECT | PAPER CODE | TITLE OF THE PAPER | TYPE | CREDITS | MARK |
| Business Administration | C010701T | Organization Behaviour | Core | 5 | 100 |
| | C010702T | Accounting for Managerial Decisions | Core | 5 | 100 |
| | C010703T | Marketing Management | Core | 5 | 100 |
| | C010704T | Statistical Analysis | Core | 5 | 100 |
| | | Research Project* | | | |
| Total credits per semester | | | | 20 | ---- |

| OTHER FACULTY (Choose any one paper from the following) | MINOR PAPER CODE | TITLE OF THE PAPER | CREDITS | MARK |
|--|------------------|-------------------------------------|---------|------|
| | C010701T | Organization Behaviour | 5 | 100 |
| | C010702T | Accounting for Managerial Decisions | 5 | 100 |
| | C010703T | Marketing Management | 5 | 100 |
| | C010704T | Statistical Analysis | 5 | 100 |

| FIRST YEAR | | | | | |
|--|---|---------------------------------------|----------|---------|------|
| SEMESTER-VIII | | | | | |
| SUBJECT | PAPER CODE | TITLE OF THE PAPER | TYPE | CREDITS | MARK |
| Business Administration | C010801T | Financial Management | Core | 5 | 100 |
| | C010802T | Human Resource Management | Core | 5 | 100 |
| | C010803T | Managerial Economics | Core | 5 | 100 |
| | C010804T OR C010805T OR C010806T OR | As per list of Elective papers given. | Elective | 5 | 100 |
| | C010807R | Research Project * | | 8 | 100 |
| Total credits per semester | | | | 28 | ---- |
| Total Credits (First Year) Annually (Semester VII + Semester VIII) | | | | 48 | ---- |

| SECOND YEAR | | | | | |
|----------------------------|----------------------|--|----------|---------|------|
| SEMESTER-IX | | | | | |
| SUBJECT | PAPER CODE | TITLE OF THE PAPER | TYPE | CREDITS | MARK |
| Business Administration | C010901T | Research Methodology | Core | 5 | 100 |
| | C010902T | Strategic Management | Core | 5 | 100 |
| | C010903T C010904T | As per list of elective papers given. OR | Elective | 5 | 100 |
| | C010905T C010906T | As per list of elective papers given. OR | Elective | 5 | 100 |
| | C010907T C010908T | As per list of elective papers given. OR | Elective | 5 | 100 |
| | | Research Project* | | | |
| Total credits per semester | | | | 20 | ---- |

| SECOND YEAR | | | | | |
|---|----------------------------------|--|----------|---------|------|
| SEMESTER-X | | | | | |
| GROUP | PAPER CODE | TITLE OF THE PAPER | TYPE | CREDITS | MARK |
| Business Administration | C011001T | Project Management and Planning | Core | 5 | 100 |
| | C011002T C011003T C011004T | As per list of elective papers given. OR | Elective | 5 | 100 |
| | C011005T C011006T C011007T | As per list of elective papers given. OR | Elective | 5 | 100 |
| | C011008T C011009T C011010T | As per list of elective papers given. OR | Elective | 5 | 100 |
| | C011011R | Research project* | | 8 | 100 |
| | Total credits per semester | | | | 28 |
| Total Credits (First Year) Annually (Semester VII + Semester X) | | | | 48 | |

Note:

- * Research Project will be done in both years of PG program and will be of 4 credits (4 hrs/week), in each semester.
- * Regarding Research Project, student shall submit report/ dissertation for evaluation at the end of the year, which will be therefore of 8 credits and 100 marks.
- * Research Project can be in the form of industrial training/ internship/ survey work etc.

List of Elective papers (Specialization Groups)

Note:

1. Every student will have to select one group of Elective Papers (Specialization Group) before start of II Semester.
2. Once the Specialisation Group has been selected with the consent of College Administration, no change in selected group will be allowed later.
3. Of the Specialisation Group selected, the student will study Paper 1 in II Semester, Papers 2&3 in III Semester and Papers 4,5&6 in IV Semester.

| Group A- Marketing | | | | |
|---------------------------|-----------------|-------------------|---|----------------|
| S. No | Semester | Paper Code | Title of the Paper | Credits |
| 1 | VIII | C010804T | Consumer Behaviour and Marketing Research | 5 |
| 2 | IX | C010903T | Marketing of Services and Retail Management | 5 |
| 3 | IX | C010904T | Logistics and Supply Chain Management | 5 |
| 4 | X | C011002T | Customer Relationship Management | 5 |
| 5 | X | C011003T | Digital Marketing and E-Commerce | 5 |
| 6 | X | C011004T | International Marketing | 5 |



Group B- Human Resource

| S.No | Semester | Paper Code | Title of the Paper | Credits |
|------|----------|------------|---|---------|
| 1 | VIII | C010805T | Talent Management | 5 |
| 2 | IX | C010905T | Organisation Development and Change Management | 5 |
| 3 | IX | C010906T | Industrial Relations and Labour Legislation | 5 |
| 4 | X | C011005T | Training and Development | 5 |
| 5 | X | C011006T | Conflict Resolution and Strategic Negotiation | 5 |
| 6 | X | C011007T | Performance and Compensation Management | 5 |

Group-C Communication and Management

| S. No | Semester | Paper Code | Title of the Paper | Credits |
|-------|----------|------------|---------------------------------------|---------|
| 1 | VIII | C010806T | Marketing Communication | 5 |
| 2 | IX | C010907T | Advertising Management | 5 |
| 3 | IX | C010908T | Personal Selling and Salesmanship | 5 |
| 4 | X | C011008T | Sales Promotion & Public Relations | 5 |
| 5 | X | C011009T | Management of Sales Force | 5 |
| 6 | X | C011010T | Brand Management | 5 |



Econ

NATIONAL EDUCATION POLICY-2020
Dr. B.R. AMBEDKAR UNIVERSITY, AGRA
PAPER CODING AND CREDIT DISTRIBUTION
M.A. (ECONOMICS)

| S.No. | Name of Degree | SEMESTER | TITLE OF PAPER | CREDIT S | CODE NUMBER | |
|-------|--|----------|--|----------------|-------------|----------|
| 1 | Bachelor (Research) of Arts in Economics | VII | Advanced Micro Economic Analysis-I | 5 | A080701T | |
| | | | Indian Economic Policy-I | 5 | A080702T | |
| | | | Demography-I | 5 | A080703T | |
| | | | Statistical Methods for Economics | Choose ANY ONE | 5 | A080704T |
| | | | Agricultural Economics | | 5 | A080705T |
| | | | Economics and Law | | 5 | A080706T |
| | | | Welfare Economics | | 5 | A080707T |
| | | | Economics of Social Sector and Environment | | 5 | A080708T |
| | | | Research Project | | | |
| 2 | | VIII | Advanced Micro Economic Analysis-II | 5 | A080801T | |
| | | | Indian Economic Policy-II | 5 | A080802T | |
| | | | Demography-II | 5 | A080803T | |
| | | | Research Methodology | Choose ANY ONE | 5 | A080804T |
| | | | Econometrics | | 5 | A080805T |
| | | | History of Economic Thought | | 5 | A080806T |
| | | | Economic of Health | | 5 | A080807T |
| | | | Research Project | | 8 | A080808R |
| | | | One Minor Paper to be selected from OTHER FACULTY in VII or VIII Semester. | | | 4/5/6 |
| 3 | Master of Arts in Economics | IX | Advanced Macro Economic Analysis-I | 5 | A080901T | |
| | | | Public Economics-I | 5 | A080902T | |
| | | | International Trade and Finance - I | 5 | A080903T | |
| | | | Industrial Economics | Choose ANY ONE | 5 | A080904T |
| | | | Economics of Insurance | | 5 | A080905T |
| | | | Financial Institutions and Markets | | 5 | A080906T |
| | | | Quantitative Methods in Economics | | 5 | A080907T |
| | | | Research Project | | | |
| 4 | | X | Advanced Macro Economic Analysis-II | 5 | A081001T | |
| | | | Public Economics-II | 5 | A081002T | |
| | | | International Trade and Finance-II | 5 | A081003T | |
| | | | Labour Economics | Choose ANY ONE | 5 | A081004T |
| | | | Economics of Growth and Development | | 5 | A081005T |
| | | | Economics of Gender and Development | | 5 | A081006T |
| | | | Economics of Infrastructure | | 5 | A081007T |
| | | | Computer Applications in Economic Analysis | | 5 | A081008T |
| | | | Research Project Work | | 8 | A081009R |

Students may choose MINOR paper from Faculty of Science/Commerce/Languages/Fine Art and Performing Art/Education/Rural Science.

Sh
5/11/23

DR. BHIMRAO AMBEDKAR UNIVERSITY
AGRA



SYLLABUS
FOR M.A. EDUCATION

As per the guidelines of National Education Policy- 2020
for The Semester Seventh to Semester Tenth

Bachelor Degree with Research / M.A. Education

Syllabus for Four Semesters
(Two Years)

DR. BHIMRAO AMBEDKAR UNIVERSITY, AGRA

Syllabus of Post-Graduation in Education

Supervising and advisory Committee for preparing syllabus for Dr. Bhimrao Ambedkar University, Agra

| S.N. | Name | Designation | Department | College/University |
|------|---|------------------------|--------------------|-------------------------------------|
| 1. | Dr. Nirbhay Singh (convenor) | Professor | Dept. of Education | BVM (PG) College, Bah, Agra |
| 2. | Dr. Shashi Prabha Varshney (Member) | Professor | Dept. of Education | B.D.K. Mahavidyalaya, Agra |
| 3. | Dr. Kalpana Bajpai (Member) | Associate Professor | Dept. of Education | R.C.A. College, Matura |
| 4. | Dr. Vinita Gupta (Member) | Professor | Dept. of Education | D.D.M. (PG) College, Firozabad |
| 5. | Dr. Shiwaji Singh (Member) | Associate Professor | Dept. of Education | Chitragupta PG College, Mainpuri |



Department of Higher Education

U.P. Government, Lucknow

National Education Policy 2020

Common Minimum Syllabus for Dr. B. R. Ambedkar University, Agra
Syllabus Development Guidelines (PG)

3.

| Year | Semester | Course Code | Paper Title | Theory/ Practical | Credits |
|--|----------|-------------|--|----------------------|---------|
| 4 | VII | E010701T | C1-Philosophical Foundation of Education (Major/Minor) | Theory | 5 |
| 4 | VII | E010702T | C2-Sociological Foundation of Education | Theory | 5 |
| 4 | VII | E010703T | C3 - Historical development of education in India. | Theory | 5 |
| 4 | VII | E010704T | C4-Research in Education-I | Theory | 5 |
| 4 | VII | | C5-Survey of any educational institute- Pre Primary/Primary/secondary/Higher Education | Research Survey | |
| 4 | VIII | E010801T | C6-Psychological foundation of Education (Major/Minor) | Theory | 4 |
| 4 | VIII | E010802T | C7-Educational Administration and Management | Theory | 5 |
| 4 | VIII | E010803T | C8-Inclusive Education. | Theory | 5 |
| 4 | VIII | E010804T | C9-Research in Education II | Theory | 5 |
| 4 | VIII | E010805R | C10- Community Visit Rural /Slums/Orphanage/Old Age homes and juvenile | Practical | 4 |
| 5 | IX | E010901T | C11 - Educational Technology | Theory | 5 |
| 5 | IX | E010902T | C12-Politics and Economics of Education. | Theory | 5 |
| ELECTIVE PAPERS:- ANY TWO OUT OF COURSE CODES - E010903T, E010904T, E010905T E010906T | | | | | |
| 5 | IX | E010903T | C13-Understanding Education | Theory | 5 |
| 5 | IX | E010904T | C14-Population Education | Theory | 5 |
| 5 | IX | E010905T | C15-Value Education | Theory | 5 |
| 5 | IX | E010906T | C16-Educational Measurement and Evaluation | Theory | 5 |
| 5 | X | | C17- Preparation of a Research Proposal | Practical | 4 |
| 5 | X | E011001T | C18-Teacher Education. | Theory | 5 |
| 5 | X | E011002T | C19-Guidance & Counseling | Theory | 5 |
| ELECTIVE PAPERS:- ANY TWO OUT OF COURSE CODES - E011003T E011004T E011005T, E011006T | | | | | |
| 5 | X | E011003T | C20-Gender Studies | Theory | 5 |
| 5 | X | E011004T | C21-Environmental Education | Theory | 5 |
| 5 | X | E011005T | C22-Yoga Education | Theory | 5 |
| 5 | X | E011006T | C23-Mental Health & Hygiene | Theory | 5 |
| 5 | X | E011007R | C24-Research Project | Research Project | 4 |

Course Code(R*) shall be examined by the Board of Examiners (Internal and External).

ELIGIBILITY:

Candidate seeking admission in M.A. (Education) Programme should have passed or should be appearing in Graduation Programme with Education as a subject in Final year of graduation three year programme of any UGC recognized university.

DISTRIBUTION OF COURSES:

Master Arts(Education) Programme is comprised of total twenty of four credits, each. In Third and Fourth semesters, First two courses are compulsory and students have choice to select any two out of four optional courses. Students from other Programmes may opt any one course out of these optional courses. Following is the distribution of courses;

| COURSE CODE | PAPER TITLE | CREDIT | PERIODS | INTERNAL MARKS | EXTERNAL MARKS | TOTAL |
|--|--|--------|---------|----------------|----------------|-------|
| E010701T | C1-Philosophical Foundation of Education (Major/Minor) | 5/4 | 75 | 25 | 75 | 100 |
| E010702T | C2-Sociological Foundation of Education | 5 | 75 | 25 | 75 | 100 |
| E010703T | C3 - Historical development of education in India. | 5 | 75 | 25 | 75 | 100 |
| E010704T | C4-Research in Education-I | 5 | 75 | 25 | 75 | 100 |
| | C5-Survey of any educational institute- Pre-Primary/Primary/secondary/Higher Education | | 60 | 25 | 75 | 100 |
| E010801T | C6-Psychological foundation of Education (Major/Minor) | 5/4 | 75 | 25 | 75 | 100 |
| E010802T | C7-Educational Administration and Management | 5 | 75 | 25 | 75 | 100 |
| E010803T | C8-Inclusive Education. | 5 | 75 | 25 | 75 | 100 |
| E010804T | C9-Research in Education II | 5 | 75 | 25 | 75 | 100 |
| E010805R | C10- Community Visit Rural /Slums/Orphanage/Old Age homes and juvenile | 4 | 60 | 25 | 75 | 100 |
| E010901T | C11 - Educational Technology | 5 | 75 | 25 | 75 | 100 |
| E010902T | C12-Politics and Economics of Education. | 5 | 75 | 25 | 75 | 100 |
| ELECTIVE PAPERS:- ANY TWO OUT OF COURSE CODES - E010903T, E010904T, E010905T E010906T | | | | | | |
| E010903T | C13-Understanding Education | 5 | 75 | 25 | 75 | 100 |
| E010904T | C14-Population Education | 5 | 75 | 25 | 75 | 100 |

| | | | | | | |
|---|--|---|----|----|----|-----|
| E010905T | C15-Value Education | 5 | 75 | 25 | 75 | 100 |
| E010906T | C16-Educational Measurement and Evaluation | 5 | 75 | 25 | 75 | 100 |
| | C17- Preparation of a Research Proposal | 4 | 60 | 25 | 75 | 100 |
| E011001T | C18-Teacher Education. | 5 | 75 | 25 | 75 | 100 |
| E011002T | C19-Guidance & Counseling | 5 | 75 | 25 | 75 | 100 |
| ELECTIVE PAPERS:- ANY TWO OUT OF COURSE CODES - E011003T E011004T E011005T, E011006T | | | | | | |
| E011003T | C20-Gender Studies | 5 | 75 | 25 | 75 | 100 |
| E011004T | C21-Environmental Education | 5 | 75 | 25 | 75 | 100 |
| E011005T | C22-Yoga Education | 5 | 75 | 25 | 75 | 100 |
| E011006T | C23-Mental Health & Hygiene | 5 | 75 | 25 | 75 | 100 |
| E011007R | C24-Research Project | 4 | 60 | 25 | 75 | 100 |


COURSE CODE SHALL BE EXAMINED BY THE BOARD OF EXAMINERS (INTERNAL AND EXTERNAL)

14/10/20

NATIONAL EDUCATION POLICY-2020
Dr. B.R. AMBEDKAR UNIVERSITY, AGRA
PAPER CODING AND CREDIT DISTRIBUTION
M.A. (HINDI)

| S.No. | Name of Degree | SEMESTER | TITLE OF PAPER | CREDITS | CODE NUMBER | |
|---|--------------------------------------|----------|--|----------------|-------------|-----------|
| 1 | Bachelor (Research) of Arts in Hindi | VII | हिंदी भाषा का उद्भव एवं विकास | 5 | A010701T | |
| | | | हिंदी साहित्य का इतिहास-1 (आदिकाल से शैतिकाल तक) | 5 | A010702T | |
| | | | आदिकालीन एवं निर्गुण भक्ति काव्यधारा | 5 | A010703T | |
| | | | सगुण भक्ति एवं शैतिकालीन काव्यधारा | 5 | A010704T | |
| | | | कंप्यूटर हिंदी भाषिक प्रयोजन (Minor-1 for OTHER FACULTY) | 5 | A010705T | |
| | | | हिंदी पत्रकारिता (Minor-2 for OTHER FACULTY) | 5 | A010706T | |
| 2 | | VIII | शोध परियोजना | | | |
| | | | हिंदी साहित्य का इतिहास-2 (आधुनिक काल) | 5 | A010801T | |
| | | | भारतीय काव्यशास्त्र | 5 | A010802T | |
| | | | पाश्चात्य काव्यशास्त्र | 5 | A010803T | |
| | आधुनिक काव्य-1 (छायावादपर्यन्त) | | 5 | A010804T | | |
| शोध परियोजना | 8 | A010805R | | | | |
| One Minor Paper to be selected from OTHER FACULTY in VII or VIII Semester | | | | 4/5/6 | | |
| 3 | Master of Arts in Hindi | IX | हिंदी नाटक | Choose ANY ONE | 5 | A010901T |
| | | | हिंदी एकांकी | 5 | A010902T | |
| | | | आधुनिक काव्य-2 छायावादोत्तर काव्य (प्रगतिवाद, प्रयोगवाद एवं नयी कविता) | 5 | A010903T | |
| | | | आधुनिक काव्य-3 (समकालीन हिंदी कविता) | 5 | A010904T | |
| | | | हिंदी कथा साहित्य-1 (हिंदी कहानी) | 5 | A010905T | |
| | | | शोध परियोजना | | | |
| 4 | Master of Arts in Hindi | X | हिंदी कथा साहित्य-2 (हिंदी उपन्यास) | 5 | A0101001T | |
| | | | हिंदी निबन्ध | 5 | A0101002T | |
| | | | रचनाकार का विशेष अध्ययन | Choose ANY ONE | 5 | A0101003T |
| | | | स्त्री विमर्श | 5 | A0101004T | |
| | | | रचना विशेष का अध्ययन | Choose ANY ONE | 5 | A0101005T |
| | | | प्रवासी साहित्य | 5 | A0101006T | |
| | | | शोध परियोजना | 8 | A0101007R | |

Students may choose MINOR paper from Faculty of Science/Commerce/Arts, Humanities and Social Sciences /Fine Art and Performing Art/Education/Rural Science.

(Convener)  (Dr. Sumita Rani)



**डॉ. भीमराव आंबेडकर विश्वविद्यालय,
आगरा**

सत्र-2022-23

स्नातकोत्तर पाठ्यक्रम

विषय - हिंदी

पाठ्यक्रम निर्माण समिति -

डॉ. सुनीता रानी (संयोजक), डॉ. अनुराधा गर्ग (सदस्य),
डॉ. ममता सिंह (सदस्य), डॉ. एम.सी.चौधरी (सदस्य),
डॉ. चंद्रशेखर शर्मा (सदस्य), डॉ. वंदना (सदस्य)

(डॉ. सुनीता रानी)
संयोजक

PROPOSED STRUCTURE OF MA HINDI SYLLABUS

| Programme | Year | Semester | Theory/ Practical/ Research Project | Compulsory/ Elective | Course Code | Course Title | Credits | Teaching Hours | Elective (For other Faculty/ Departm ents | |
|---|------------------------------------|--|--|---------------------------------------|--------------------------------|---|---------|-------------------|--|--|
| 1 | IV | सप्तम सत्र (Seventh Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | अनिवार्य प्रश्नपत्र-1 (Compulsory) | A010701T | हिंदी भाषा का उद्भव एवं विकास | 5 | 75 | ----- | |
| Bachelor (Research) of Arts in Hindi | IV | सप्तम सत्र (Seventh Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | अनिवार्य प्रश्नपत्र-2 (Compulsory) | A010702T | हिंदी साहित्य का इतिहास-1 (आदिकाल से रीतिकाल तक) | 5 | 75 | ----- | |
| | IV | सप्तम सत्र (Seventh Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | अनिवार्य प्रश्नपत्र-3 (Compulsory) | A010703T | आदिकालीन एवं निर्गुण भक्ति काव्यधारा | 5 | 75 | ----- | |
| | IV | सप्तम सत्र (Seventh Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | अनिवार्य प्रश्नपत्र-4 (Compulsory) | A010704T | सगुण भक्ति एवं रीतिकालीन काव्यधारा | 5 | 75 | ----- | |
| | IV | सप्तम सत्र (Seventh Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | * Minor/ Elective | A010705T | कंप्यूटर : हिंदी भाषिक प्रयोजन MINOR 1 | 5 | 75 | Elective (For other Faculty/ Departm ents | |
| | IV | सप्तम सत्र (Seventh Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | * Minor/ Elective | A010706T | हिंदी पत्रकारिता MINOR 2 | 5 | 75 | Elective (For other Faculty/ Departm ents | |
| | IV | सप्तम सत्र (Seventh Semester) | शोध परियोजना | | | | | | | |
| | IV | अष्टम सत्र (Eighth Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | अनिवार्य प्रश्नपत्र-5 (Compulsory) | A010801T | हिंदी साहित्य का इतिहास-2 (आधुनिक काल) | 5 | 75 | ----- | |
| | IV | अष्टम सत्र (Eighth Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | अनिवार्य प्रश्नपत्र-6 (Compulsory) | A010802T | भारतीय काव्यशास्त्र | 5 | 75 | ----- | |
| | IV | अष्टम सत्र (Eighth Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | अनिवार्य प्रश्नपत्र-7 (Compulsory) | A010803T | पार्श्यात्य काव्यशास्त्र | 5 | 75 | ----- | |
| | IV | अष्टम सत्र (Eighth Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | अनिवार्य प्रश्नपत्र-8 | A010804T | आधुनिक काव्य- 1 | 5 | 75 | ----- | |
| IV | अष्टम सत्र (Eighth Semester) | शोध परियोजना (Research) | अनिवार्य प्रश्नपत्र (Compulsory) | A010805R | छायावादपर्यन्त शोध परियोजना | 8 | 120 | ----- | | |

2
 (जॉ. सुनीता शर्मा)
 संचालक

| | | | | | | | | | |
|--|--|--|----------|--|--|--|--|--|--|
| | | | Project) | | | | | | |
|--|--|--|----------|--|--|--|--|--|--|

| Programme | Year | Semester | Theory/ Practical/ Research Project | Compulsory/ Elective | Course Code | Course Title | Cre dits | Teach ing Hours | Elective (For other Faculty/Dep artments) | |
|-------------------------------|------|----------------------------------|--|--|----------------|---|-------------|-----------------------|--|--|
| Master of Arts in Hindi | V | नवम् सत्र(Ninth Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | *अनिवार्य प्रश्नपत्र-9 विकल्प- 1(Compulsory) | A010901T | हिंदी नाटक | 5 | 75 | ----- | |
| | V | नवम् सत्र (Ninth Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | *अनिवार्य प्रश्नपत्र-9 विकल्प-2 (Compulsory) | A010902T | हिंदी एकांकी | 5 | 75 | --- | |
| | V | नवम् सत्र (Ninth Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | अनिवार्य प्रश्नपत्र -10 (Compulsory) | A010903T | आधुनिक काव्य-2 छायावादोत्तर काव्य (प्रगतिवाद, प्रयोगवाद, नयी कविता) | 5 | 75 | ----- | |
| | V | नवम् सत्र (Ninth Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | अनिवार्य प्रश्नपत्र -11 (Compulsory) | A010904T | आधुनिक काव्य-3 (समकालीन हिंदी कविता) | 5 | 75 | ----- | |
| | V | नवम् सत्र (Ninth Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | अनिवार्य प्रश्नपत्र -12 (Compulsory) | A010905T | हिंदी कथा साहित्य- 1 (हिंदी कहानी) | 5 | 75 | ----- | |
| | V | नवम् सत्र (Ninth Semester) | शोध परियोजना | | | | | | | |
| | V | दशम् सत्र (Tenth Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | अनिवार्य प्रश्नपत्र -13 (Compulsory) | A0101001T | हिंदी कथा साहित्य- 2 (हिंदी उपन्यास) | 5 | 75 | ----- | |
| | V | दशम् सत्र (Tenth Semester) | सैद्धांतिक प्रश्नपत्र (Theory) | अनिवार्य प्रश्नपत्र -14 (Compulsory) | A0101002T | हिंदी निबंध | 5 | 75 | ----- | |

| | | | | | | | | |
|---|------------------------------|------------------------------------|--|------------|-------------------------|---|-----|-------|
| V | दशम सत्र (Tenth Semester) | सैद्धान्तिक प्रश्नपत्र (Theory) | * अनिवार्य प्रश्नपत्र -15 विकल्प-1 (Compulsory Elective Paper 1) | A0101003T | रचनाकार का विशेष अध्ययन | 5 | 75 | ----- |
| V | दशम सत्र (Tenth Semester) | सैद्धान्तिक प्रश्नपत्र (Theory) | * अनिवार्य प्रश्नपत्र -15 विकल्प-2 (Compulsory Elective Paper 2) | A0101004 T | स्त्री विमर्श | 5 | 75 | ----- |
| V | दशम सत्र (Tenth Semester) | सैद्धान्तिक प्रश्नपत्र (Theory) | ** अनिवार्य प्रश्नपत्र -16 विकल्प-1 (Compulsory Elective Paper 1) | A0101005 T | रचना विशेष का अध्ययन | 5 | 75 | ----- |
| V | दशम सत्र (Tenth Semester) | सैद्धान्तिक प्रश्नपत्र (Theory) | ** अनिवार्य प्रश्नपत्र -16 विकल्प-2 (Compulsory Elective Paper 2) | A0101006T | प्रवासी साहित्य | 5 | 75 | ----- |
| V | दशम सत्र (Tenth Semester) | शोध परियोजना | अनिवार्य प्रश्नपत्र (Compulsory) | A0101007R | शोध परियोजना | 8 | 120 | ----- |

*MINOR में हिंदी विषय का चुनाव करने वाले विद्यार्थियों के लिए कंप्यूटर : हिंदी भाषिक प्रयोजन MINOR 1 अथवा हिंदी पत्रकारिता MINOR 2 में से किसी एक प्रश्नपत्र का अध्ययन करना अनिवार्य होगा।

*विद्यार्थियों के लिए अनिवार्य प्रश्नपत्र - 9 विकल्प (1) अथवा अनिवार्य प्रश्नपत्र - 9 विकल्प (2) में से किसी एक प्रश्नपत्र का अध्ययन करना अनिवार्य होगा।

तथा

*विद्यार्थियों के लिए अनिवार्य प्रश्नपत्र - 15 विकल्प (1) अथवा अनिवार्य प्रश्नपत्र - 15 विकल्प (2) में से किसी एक प्रश्नपत्र का अध्ययन करना अनिवार्य होगा।

** विद्यार्थियों के लिए अनिवार्य प्रश्नपत्र - 16 विकल्प (1) अथवा अनिवार्य प्रश्नपत्र - 16 विकल्प (2) में से किसी एक प्रश्नपत्र का अध्ययन करना अनिवार्य होगा।

Dr. C. S. Sunita Rani
संयोजक

NATIONAL EDUCATION POLICY-2020
Dr. B.R. AMBEDKAR UNIVERSITY, AGRA
PAPER CODING AND CREDIT DISTRIBUTION
M.A. (HOME SCIENCE)

| S. No. | Name of Degree | SEMESTER | TITLE OF PAPER | CREDITS | CODE NUMBER |
|---|-------------------------------------|----------|--|------------|-------------|
| 1 | BACHELOR (RESEARCH) IN Home Science | VII | RESOURCE MANAGEMENT | 4 | A130701T |
| | | | GUIDANCE AND COUNSELLING ACROSS THE LIFE PAN | 4 | A130702T |
| | | | FUNDAMENTALS OF NUTRITION AND FOOD SCIENCE | 4 | A130703T |
| | | | DEVELOPMENT COMMUNICATION | 4 | A130704T |
| | | | INTERNSHIP | 4 | A130705P |
| | | | RESEARCH PROJECT | | |
| 2 | | VIII | RESEARCH METHODOLOGY | 4 | A130801T |
| | | | ADVANCED FOOD SCIENCE | 4 | A130802T |
| | | | THEORIES OF HUMAN DEVELOPMENT | 4 | A130803T |
| | | | TRADITIONAL TEXTILES AND APPAREL DESIGNING | 4 | A130804T |
| | | | SURFACE ORNAMENTATION ON TEXTILE | 4 | A130805P |
| | | | RESEARCH PROJECT | 8 | A130806R |
| One Minor Paper to be selected from OTHER FACULTY in VII or VIII Semester | | | | 4/5/6 | |
| 3 | MASTER OF ARTS IN Home Science | IX | ADVANCED APPAREL DESIGNING & PRODUCTION | 4 | A130901T |
| | | | WOMEN STUDIES | 4 | A130902T |
| | | | APPLIED NUTRITION-HEALTH AND FITNESS | 4 | A130903T |
| | | | SUSTAINABLE DEVELOPMENT | 4 | A130904T |
| | | | COMPUTER APPLICATION IN DESIGNING | 4 | A130905P |
| | | | RESEARCH PROJECT | | |
| 4 | | X | ERGONOMICS | 4 | A131001T |
| | | | STUDY OF FAMILY AND SOCIETY | 4 | A131002T |
| | | | TRAINING AND MANAGEMENT | 4 | A131003T |
| | | | FOOD PROCESSING AND PRESERVATION | 4 | A131004T |
| | | | FOOD PRESERVATION TECHNIQUES | 4 | A131005P |
| | | | RESEARCH PROJECT | 8 | A131006R |
| 5 | P.G.D.R. | XI | THRUST AREAS OF HOME SCIENCE | 6 | A131101T |
| | | | ESSENTIALS OF ENTREPRENEURSHIP | 6 | A131102T |
| | | | RESEARCH METHODOLOGY | 4 | A131103T |
| | | | RESEARCH PROJECT | Qualifying | A131104R |

Students may choose MINOR paper from Faculty of Science/Commerce/Languages/Fine Art and Performing Art/Education/Rural Science.

dyh

M.A. (H.Sc.)

(2022)

(As per NEP-2020 guidelines)
Session- (2022-2023)

dit

Bachelor (Research) in Faculty

Semester VII

| Paper No | Subject | Course Type | Credits | CIE | UE | Total |
|----------|---|-----------------|---------|-----|-----|-------|
| C 1 | Resource Management | Theory Major | 4 | 25 | 75 | 100 |
| C 2 | Guidance and Counseling Across the Lifespan | Theory Major | 4 | 25 | 75 | 100 |
| C 3 | Fundamentals of Nutrition and Food Science | Theory Major | 4 | 25 | 75 | 100 |
| C 4 | Development Communication | Theory Major | 4 | 25 | 75 | 100 |
| C 5 | Internship | Practical Major | 4 | 25 | 75 | 100 |
| C 6 | Other Faculty * | Minor | 4 | 25 | 75 | 100 |
| C 7 | Research Project | Project | 4 | 25 | 75 | 100 |
| | | | 28 | 175 | 525 | 700 |

Semester VIII

| Paper No | Subject | Course Type | Credits | CIE | UE | Total |
|----------|--|-----------------|---------|-----|-----|-------|
| C 8 | Research Methodology | Theory Major | 4 | 25 | 75 | 100 |
| C 9 | Advanced Food Science | Theory Major | 4 | 25 | 75 | 100 |
| C 10 | Theories of Human Development | Theory Major | 4 | 25 | 75 | 100 |
| C 11 | Traditional Textiles and Apparel Designing | Theory Major | 4 | 25 | 75 | 100 |
| C 12 | Surface Ornamentation on Textile | Practical Major | 4 | 25 | 75 | 100 |
| C 13 | Research Project | Project | 4 | 25 | 75 | 100 |
| | | | 24 | 150 | 450 | 600 |

*Faculty of Linguistic, Faculty of Computer, Faculty of Management, Faculty of Basic Science

Dy

MA (Home Science)

Semester IX

| Paper No | Subject | COURSE TYPE | CREDIT | CIE | UE | TOTAL |
|----------|---|-----------------|--------|-----|-----|-------|
| C 14 | Advanced Apparel Designing & Production | Theory Major | 4 | 25 | 75 | 100 |
| C 15 | Women Studies | Theory Major | 4 | 25 | 75 | 100 |
| C 16 | Applied Nutrition-Health and Fitness | Theory Major | 4 | 25 | 75 | 100 |
| C 17 | Sustainable Development | Theory Major | 4 | 25 | 75 | 100 |
| C 18 | Computer Application in Designing | Practical Major | 4 | 25 | 75 | 100 |
| C 19 | Research Project | Project | 4 | 25 | 75 | 100 |
| | | | 24 | 150 | 450 | 600 |

Semester X

| Paper No | Subject | COURSE TYPE | CREDIT | CIE | UE | TOTAL |
|----------|----------------------------------|-----------------|--------|-----|-----|-------|
| C 20 | Ergonomics | Theory Major | 4 | 25 | 75 | 100 |
| C 21 | Study of Family and Society | Theory Major | 4 | 25 | 75 | 100 |
| C 22 | Training and Management | Theory Major | 4 | 25 | 75 | 100 |
| C 23 | Food Processing and Preservation | Theory Major | 4 | 25 | 75 | 100 |
| C 24 | Food Preservation Techniques | Practical Major | 4 | 25 | 75 | 100 |
| C 25 | Research Project | Project | 4 | 25 | 75 | 100 |
| | | | 24 | 150 | 450 | 600 |

2.4

PGDR (Home Science)

Semester XI

| Paper No | Subject | COURSE TYPE | CREDIT | CIE | UE | TOTAL |
|----------|----------------------------------|-------------|--------|-----|-----|-------|
| C 1 | Thrust areas of Home Science | Major | 6 | 25 | 75 | 100 |
| C 2 | Essentials of Entrepreneurship | Major | 6 | 25 | 75 | 100 |
| C 3 | Research Methodology | Major | 4 | 25 | 75 | 100 |
| | Research Project (Qualifying) | | | | | |
| | | | 16 | 75 | 225 | 300 |

Abbreviation:

CIE: Continuous Internal Evaluation

UE: University Exam

12/1/21

Programme Outcomes

The syllabus of M.A. (Political Science) programme has been designed in such a way as to enhance the literary, analytical, theoretical and research specific pedagogical skills among the students opting to pursue their career in the subject. The Core as well as Elective courses offered have been structured keeping in mind the coveted goal of encouraging the students to comprehend, dig deep into, appreciate and reflect on the various sub fields of the subject. Political Science is a subject that is popularly chosen by candidates appearing for the UPSC examinations and this syllabus has been designed with the requirement of various competitive examinations as well. To enable the students to meet the requirements of the integrative system of the New Education Policy, a research element has been woven into the programme which, it is hoped will help the students to pursue research as well as appear for the NET examinations

NATIONAL EDUCATION POLICY-2020
Dr. B.R. AMBEDKAR UNIVERSITY, AGRA
PAPER CODING AND CREDIT DISTRIBUTION
M.A. (POLITICAL SCIENCE)

| S.No. | Name of Degree | SEMESTER | TITLE OF PAPER | CREDITS | CODE NUMBER | |
|---|--|----------|---|----------------|-------------|----------|
| 1 | Bachelor (Research) of Arts in Political Science | VII | Constitutional Development and National Movement in India | 5 | A060701T | |
| | | | Indian Political System I | 5 | A060702T | |
| | | | Western Political Thought I | 5 | A060703T | |
| | | | Indian Political Thought I | 5 | A060704T | |
| | | | Research Project | | | |
| 2 | | VIII | Indian Political System II | 5 | A060801T | |
| | | | Western Political Thought II | 5 | A060802T | |
| | | | Indian Political Thought II | 5 | A060803T | |
| | | | Basic Research Methodology in Political Science | Choose ANY ONE | 5 | A060804T |
| | | | Contemporary World and Political Issues | | 5 | A060805T |
| | Research Project | | 8 | A060806R | | |
| One Minor Paper to be selected from OTHER FACULTY in VII or VIII Semester | | | 4/5/6 | | | |
| 3 | Master of Arts in Political Science | IX | Indian Administration | 5 | A060901T | |
| | | | Theory of Public Administration | 5 | A060902T | |
| | | | Theory of International Relations | 5 | A060903T | |
| | | | Contemporary Political Ideologies | 5 | A060904T | |
| | | | Research Project | | | |
| 4 | | X | Indian Foreign Policy | 5 | A061001T | |
| | | | Comparative Politics | 5 | A061002T | |
| | | | Federalism in India | Choose ANY ONE | 5 | A061003T |
| | | | Political Parties in India | | 5 | A061004T |
| | | | Local Government in India | | 5 | A061005T |
| | International Law | | Choose ANY ONE | 5 | A061006T | |
| International Organisations | 5 | A061007T | | | | |
| Research Project | 8 | A061008R | | | | |

Vinny Jain
Prof. Vinny Jain

Convener Board of Studies in Political Science
Dr. Bhimrao Ambedkar University, Agra

Psycho

SYLLABUS SUBMITTED TO
DR. BHIM RAO AMBEDKAR UNIVERSITY
OF
POST GRADUATE PROGRAM
IN
PSYCHOLOGY
(M.A. -SEMESTER WISE)
NEW EDUCATION POLICY
2022-23

Lawal
PO
S. S. S. S. S.
06/19/2022

Postgraduate Psychology Program
(Semester-Wise) Syllabus

M.M. 75+25=100

SEMESTER- I

| | |
|-------------------------------|--|
| <u>PAPER 101:</u> | <u>Systems & Background</u> |
| <u>PAPER 102:</u> | <u>Experimental Psychology (I)</u> <u>(Cognitive Processes)</u> |
| <u>PAPER-103 :</u> | <u>Psychological Statistics</u> |
| <u>PAPER-104 :</u> | <u>Personality</u> |
| <u>Minor Elective:</u> | <u>Psychology of Social Issues</u> |
| <u>PAPER-105 :</u> | <u>Practical</u> |

SEMESTER- II

| | |
|---------------------------|---|
| <u>PAPER-201:</u> | <u>Experimental Psychology (II) (Affective Psychology)</u> |
| <u>PAPER-202:</u> | <u>Physiological Psychology</u> |
| <u>PAPER-203:</u> | <u>Psychopathology</u> |
| <u>PAPER-204:</u> | OPTIONAL 204-A <u>Developmental Psychology</u> 204-B <u>Educational Psychology</u> |
| <u>PAPER-205 :</u> | <u>Practical</u> <u>Project Work/Survey/Field Study/Industrial Training/Internship</u> |

Lawal *PA* *Antanas* *panam*
(1) *06/01/2022*

SEMESTER- III

| | |
|-------------------|--|
| <u>PAPER-301:</u> | <u>Research Methodology</u> |
| <u>PAPER-302:</u> | <u>Psychological Measurement and Evaluation</u> |
| <u>PAPER-303:</u> | <u>Clinical Psychology I (Assessment & Diagnostics)</u> |
| <u>PAPER-304:</u> | <u>OPTIONAL</u> <u>304-A Psychology of Emotion</u> <u>304-B Environmental Psychology</u> |
| <u>PAPER-305:</u> | <u>Practical</u> |

SEMESTER- IV

| | |
|-------------------|--|
| <u>PAPER-401:</u> | <u>Clinical Psychology II (Therapeutic Interventions)</u> |
| <u>PAPER-402:</u> | <u>Organizational Psychology</u> |
| <u>PAPER-403:</u> | <u>OPTIONAL</u> <u>(I) 403-A- Indian Psychology</u> <u>(II) 403-B- Health Psychology</u> |
| <u>PAPER-404:</u> | <u>OPTIONAL</u> <u>(I) 404-A- Sports Psychology</u> <u>(II) 403-B- Guidance & Counseling</u> |
| <u>PAPER-405:</u> | <u>Practical</u> |

Project Work/Survey/Field Study/Industrial Training/Internship

Stawal-
fcs

Subakar
Kumar

(2)

06/9/2022