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Botany B.Sc. Bio Group (UG)

I YEAR

I Semester: Course code-BOT-UG-CC01

Diversity of Plant kingdom

II Semester: Course code-BOT-UG-CC02

Cell Biology, Molecular Biology and Genetics

II YEAR

III Semester: Course code-BOT-UG-CC03

Microbiology and Plant Pathology

IV Semester: Course code-BOT-UG-CC04

Plant Taxonomy and Economic Botany

III YEAR

V Semester: Course code-BOT-UG-CC05

Plant Biochemistry and Physiology

VI Semester: Course code-BOT-UG-CC06

Angiosperms Anatomy and Embryology

IV YEAR

VII Semester: Course code-BOT-UG-CC07

Ecology and Conservation Biology

VIII Semester: Course code-BOT-UG-CC08

Plant Biotechnology

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Zoology B.Sc. Bio Group (UG)

1st Semester

Animal Diversity

2nd semester

Comparative Anatomy and Developmental Biology of vertebrates

3rd semester

Update soon

4th semester

Update soon

B.Sc. part III

Paper I – Structure and functions of chordate type

Paper II – Ecology, Environmental Biology and Evolution

Paper III – Applied Zoology, Ethology and Biostatistics.

Laboratory Exercises

Demonstration and Tutorials

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Chemistry B.Sc. Bio./Mathes Group (UG)

B.Sc. Chemistry

1st semester

- → Structure bonding, Mathematical concept and States of matter
- → practical based on paper

2nd semester

→ Reaction mechanism, stereochemistry, aromatic hydrocarbon and chemical

kinetics

→ practical based on paper

3rd year

- → paper 1. Inorganic chemistry
- → paper 2. Organic chemistry
- → paper 3. Physical chemistry
- → practical based on paper

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Physics B.Sc. Mathes Group (UG)

1st Semester
Mechanics and oscillation
Practical based on paper

2nd Semester Electromagnetism

Practical based on paper

3rd Semester
Optics
Practical based on paper

4th Semester
Thermodynamics and Statistical Physics
Practical based on paper

3rd Year

paper 1. Quantum mechanics and Spectroscopy

paper 2. Nuclear Physics

paper 3. Solid State Physics

Practical based on paper

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Geography B.Sc./B.A.Group (UG)

B.A./B.SC.

I Semester

Physical Geography - I

Practical

II Semester

Human Geography

Practical

B.A./B.Sc. Part-II

Paper-I Resources Geography

Paper-II Human Geography

Practical

B.A./B.Sc. Part-III

Paper I. World Regional Geography

Paper-II Geography of India

Practical

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DEPARTMENT OF BOTANY M.SC. PREVIOUS/FINAL

PREVIOUS

Paper-I:CELL AND MOLECULAR BIOLOGY

Paper-II:CYTOLOGY, GENETICS AND CYTOGENETICS

Paper-III:BIOLOGY & DIVERSITY OF LOWER PLANTS: CRYPTOGAMS

Paper-IV:TAXONOMY AND DIVERSITY OF SEED PLANTS

Paper-V:PLANT PHYSIOLOGY & METABOLISM

Paper-VI:MICROBIOLOGY AND PLANT PATHOLOGY

Suggested Laboratory Exercise:

Based on theory papers- BOOK: BENDRE AND KUMAR (VOL.I & II)

Suggested Readings:

Paper-I-COOPER,KARP,LODISH,WATSON

Paper-III-BENJAMIN AND GARDNER

Paper-III-P C VASISTHA, H C DUBEY, SINGH PANDEY JAIN

Paper-IV: GURUCHARAN SINGH, A K MONDEL, S.S. BHOJWANI &

BHATNAGAR, SINGH PANDEY JAIN

Paper-V:TEIZ & ZEIGER, SALISBURY AND ROSS

Paper-VI:PRESSCOTTS, PELCZAR, DUBEY & MAHESWARI, PD SHARMA, RS

SINGH

M.SC. FINAL EXAMINATION-

Paper-VII:PLANT MORPHOLOGY, DEVELOPMENT ANATOMY AND

REPRODUCTIVE BIOLOGY

Paper-VIII:PLANT ECOLOGY

Paper-IX:PLANT RESOURCE UTILIZATION & CONSERVATION

Paper-X:BIOTECHNOLOGY & GENETIC ENGINEERING OF PLANTS AND

MICROBES

Paper-XI(a):ELECTIVE-I: (ADVANCED PLANT PATHOLOGY-I)

Paper-XII(a): ELECTIVE-II: (ADVANCED PLANT PATHOLOGY-II)

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Suggested Laboratory Exercise:

Based on theory papers- BOOK: BENDRE AND KUMAR (VOL.I & II)

Suggested Readings:

Paper-VII:S S BHATNAGAR, TEIZ & ZEIGER, FAHN, V RAGHWAN

Paper-VIII: PATHFINDER, ODUM, S S LAL, P D SHARMA

Paper-IX: S L KOCHAR

Paper-X: B D SINGH, H S CHAWLA,T A BROWN Paper-XI:R S SINGH, AGRIOS, P D SHARMA

Paper-XII: B P PANDEY

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DEPARTMENT OF ZOOLOGY

M.Sc. Zoology Previous/FINAL (Annual Scheme)

Previous

Paper -I

Biosystematics and Taxonomy

Paper-II

Structure & Function of Invertebrates

Paper-III

Molecular Biology and Biotechnology

Paper - IV

General Physiology

Paper - V

Biochemistry

Paper-VI

Biostatistis and Population Genetics

M.Sc. (Zoology) FINAL

Paper I

Biology of Chordates

Paper II

Environmental Biology and Ethology

Paper III

Genes and Differentiation

Paper IV

Tools and techniques in Biology



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Paper V Special Paper

Paper VI Special Paper

(Entomology/Environmental Science)
Laboratory Exercises
Demonstration and Tutorials
SEMINAR

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DEPARTMENT OF CHEMISTRY

M.Sc. PREVIOUS/FINAL (Chemistry Annual Scheme)

PREVIOUS

- Paper 1. Inorganic chemistry
- Paper 2. Organic chemistry
- Paper 3. Physical chemistry
- Paper 4. Spectroscopy and diffraction methods
- Paper 5. Green and sustainable chemistry
- Paper 6. Analytical techniques

Practical based on paper

- Inorganic chemistry practical
- Organic chemistry practical
- Physical chemistry practical

FINAL

- Paper 1. Applications of spectroscopy, Photochemistry and Solid-state Chemistry
- Paper 2. Bio inorganic chemistry, bio-organic chemistry and biophysical chemistry
- Paper 3. Environmental chemistry
- Paper 4. Elective paper 1
- Paper 5. Elective paper 2
- Paper 6. Elective paper 3
- Paper 7. Elective paper 4

Group 1

A. Organo transition metal chemistry



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- B. Bio inorganic and supramolecular chemistry
- C. Photo inorganic chemistry
- **D. Polymers**

Group 2

- A. Organic synthesis I
- B. Organic synthesis II
- C. Heterocyclic chemistry
- D. Chemistry of natural products

Group 3

- A. Analytical chemistry
- B. Physical organic chemistry
- C. Chemical dynamics
- D. Electrochemistry

Practical based on paper

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DEPARTMENT OF PHYSICS

M.Sc. Previous (Annual Scheme)

- Paper 1. Classical Mechanics and Mathematical Methods in Physics
- Paper 2. Classical Electrodynamics
- Paper 3. Quantum Mechanics, Atomic and Molecular Physics
- Paper 4. Electronics, Numerical Methods and Computer Programming

Practical based on paper

M.Sc. Final(Annual scheme)

- Paper 5. Advanced Quantum Mechanics and Introductory Quantum Field
- Paper 6. Nuclear Physics
- Paper 7. Statistical and Solid-State physics
- Paper 8. Microwave Electronics

Or

Plasma Physics

Practical based on paper

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DEPARTMENT OF MATHEMATICS

M.Sc. Previous Mathematics/FINAL (Annual Scheme)

M.SC.Previous

Paper 1st - Advanced Abstract Algebra

Paper 2nd - Real Analysis and Topology

Paper 3rd - Differential Equations and Special Functions

Paper 4th - Differential Geometry and Tensor Analysis

Paper 5th - Mechanics

M.Sc. Final

COMPULSORY PAPER

Paper 1st - Analysis and Advanced Calculus

Paper 2nd - Viscous Fluid Dynamics

OPTIONAL PAPER

Paper 3rd - Integral Transforms and Integral Equations

Paper 4th - Relativity and Cosmology

Paper 5th - Advanced Numerical Analysis

Paper 6th - Continuum Mechanics

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DEPARTMENT OF GEOGRAPHY

GEOGRAPHY Previous/Final (Annual Scheme)

M.A./M.Sc.Previous

I Evolution of Geographical thought

II Physical Basis of Geography.

III Principles and Theory of Economic Geography

IV Man and Natural Environment.

Practical

M.A./M.Sc. Final

I Advanced Geography of India

II Agricultural Geography

OR

Industrial Geography

III Climatology and Oceanography

IV Geography of water resources, their management and utilization.

Practical

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DEPARTMENT OF COMMERCE

(Undergraduate Syllabus)

B.Com Semester- I

ABST – Financial Accounting

EAFM-Business Economics

BADM-Principal of Business management

2nd Semester – ABST-Business Statistics EAFM -Indian Banking and Financial System BADM-Business Law

3rd Semester –
ABST-Cost Accounting
EAFM-Element of Financial Management
BADM-Company law

4th Semester
ABST-Income Tax Law and Practice
EAFM- Indian Economy
BADM-Fundamental of Entrepreneurship

3rd year
ABST
Paper-1 Auditing and Management Accounting
Paper-2 Advance Accounting

Paper-1 Rural Development and Cooperation Paper -2 Business Budgeting

EAFM

BADM
Paper-1 functional Management
Paper-2 Advertisement and Sales Management

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P.G. Dept. of Commerce SUBJECT--ABST

M.Com-ABST(Previous)

CP1 DIRECT TAXES

CP2 ADVANCED COST ACCOUNTING

CP3 RESEARCH METHODOLOGY AND ADVANCED BUSINESS STATISTICS

OP6 COST MANAGEMENT AUDIT

M.Com-ABST (Final)

CP4 GOODS AND SERVICE TAX (GST)

CP5 ADVANCED ACCOUNTING

CP6 MANAGEMENT ACCOUNTIN AND FINANCIAL REPORTING

OP1 TAX PLANNING

CP4 COST ANALYSIS AND COST CONTROL

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P.G. Dept. of Commerce

SUBJECT--EAFM

M.Com. Previous

A candidate will be required to offer two compulsory and two optional papers.

(Two compulsory papers in previous)

Paper -1 Economics Analysis

Paper -2 Financial Management and Control

(You can choose two optional papers from the list of papers)

Paper-3 Business Budgeting

Paper -4 Public Finance

M.Com. (Final)

Three compulsory papers in final

Paper -1 Economic Administration & policy

Paper-2 Cooperative sector Management

Paper -3 Indian Banking System

Two optional papers from the list of papers.

Paper-4 Development Economics

Paper-5 Economics Environment in India

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P.G. Dept. of Commerce SUBJECT--BADM

M.Com. Previous

PAPER-I GENERAL MANAGEMENT

PAPER-II BUSINESS ENVIROMENT

PAPER- III MANAGEMENT ECONOMICS AND MANAGEMENT ACCOUTANCY

PAPER-IV MANAGEMENT THINKERS

M.Com. (Final)

9135-I HUMAN RESOURCE MANAGEMENT

9135-II MARKETING MANAGEMENT

9137 MANAGEMENT OF PUBLIC ENTERPRISES

9147 TOURISM MANAGEMENT

9149 HUMAN RESOURCE DEVELOPMENT

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DEPARTMENT OF GEOGRAPHY

M.A./M.Sc. Previous/Final (Annual Scheme)

M.A.//M.Sc. Previous

I Evolution of Geographical thought

II Physical Basis of Geography.

III Principles and Theory of Economic Geography

IV Man and Natural Environment.

Practical

M.A./M.Sc. Final

I Advanced Geography of India

II Agricultural Geography

OR

Industrial Geography

III Climatology and Oceanography

IV Geography of water resources, their management and utilization.

Practical

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DEPARTMENT OF HISTORY M.A. PREVIOUS/FINAL

M.A.PREVIOUS

- 1.THEORIES, METHODS AND VISIONS OF HISTORY
- 2.MAIN CURRENTS OF MORDEN WORLD HISTORY UPTO 1900 A.D.
- 3.TWENTIETH CENTURY WORLD (1900-2000 A.D)
- 4 GROUP-A: ANCIENT INDIAN HISTORY (EARLIEST TIME TO C.200 B.C)

M. A. Final

- 1. ANCIENT INDIAN HISTORY (200 B.C to 750 A.D)
- 2. SOCIAL AND ECONOMICS LIFE IN ANCIENT INDIA
- 3. RELIGIONS OF ANCIENT INDIA
- 4. INDIAN NATIONAL MOVEMENT AND THOUGHT
- 5. MAIN TRENDS IN THE HISTORY AND CULTURE OF RAJASTHAN

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DEPARTMENT OF POLITICAL SCIENCE

M.A. PREVIOUS/FINAL POLITICAL SCIENCE

M.A.PREVIOUS

PAPER 1. WESTERN POLITICAL THOUGHT

PAPER 2. INDIAN POLITICAL THOUGHT

PAPER 3. INTERNATIONAL POLITICS

PAPER 4. THEORY AND PRACTICE OF PUBLIC ADMINISTRATION

M.A FINAL

PAPER 5. MODERN POLITICAL THEORY AND COMPARATIVE POLITICS

PAPER 6. INDIAN GOVERNMENT POLITICS

PAPER 7. RESEARCH METHODOLOGY

OPTIONAL PAPER

MODERN INDIAN POLITICAL THOUGHT

GANDHIAN POLITICAL THOUGHT

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DEPARTMENT OF HINDI

M.A. PREVIOUS/FINAL Hindi Literature

पूर्वार्द्ध —

प्रथम प्रश्न पत्र — हिन्दी साहित्य का इतिहास

द्वितीय प्रश्न पत्र — मध्यकालीन काव्य

तृतीय प्रश्न पत्र — साहित्य शास्त्र (भारतीय तथा पाश्चात्य)

चतुर्थ प्रश्न पत्र — हिन्दी गद्य (उपन्यास, कहानी एवं अन्य गद्य विधाएँ)

उत्तरार्द्ध —

प्रथम प्रश्न पत्र — हिन्दी गद्य (नाटक, निबंध एवं आलोचना)

द्वितीय प्रश्न पत्र — प्राचीन एवं निर्गुण काव्य

तृतीय प्रश्न पत्र — भाषा विज्ञान

चतुर्थ प्रश्न पत्र — आधुनिक काव्य

पंचम प्रश्न पत्र — विशिष्ट अध्ययन (कोई एक)

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DEPARTMENT OF ENGLISH

M.A. Previous/Final English

PREVIOUS

Paper-1

Modern English Usage, Phonetics and Language.

Paper-2

Elizabethans and Augustans.

Paper-3

Pre – Romantics and Romantics.

Paper-4

Victorian Literature.

FINAL

Paper-1

Literary Theory.

Paper-2

Twentieth Century Literature: Poetry and Drama.

Paper-3

Twentieth Century Literature: Prose and Fiction.

Paper-4

Indian Writing in English and in translation.

Paper-5

American Literature OR Postcolonial Literature.

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DEPARTMENT OF ARTS(U.G.)

(POLITICAL SCIENCE)

SEMESTER I

PAPER - FOUNDATION OF POLITICAL SCIENCE

SEMESTER II

PAPER I - INDIAN POLITICAL THOUGHT

B.A. PART II

PAPER I- SELECTED POLITICAL SYSTEM

PAPER II - INDIAN POLITICAL SYSTEM

B.A. PART III

PAPER I - WESTERN POLITICAL THOUGHT

PAPER II - INTERNATIONAL RELATIONS

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DEPARTMENT OF ARTS(U.G.)

(HISTORY)

B.A Semester 1st

History of India (From the beginning to 1200 A.D.)

Semester 2nd

History of Modern World

SEMESTER III/IV

Update soon

B.A. 2nd Year

paper 1: History of Medieval India

paper 2: Main Trends in The Cultural History of India

B. A. 3rd year

Paper 1: History of Modern India

Paper 2: History of Modern World

SUBJECT LIST OF HISTORY

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DEPARTMENT OF ARTS(U.G.)

B.A. Hindi Literature

सामान्य हिंदी -

I st semester – सामान्य हिंदी व्याकरण

II nd semester – सामान्य हिंदी साहित्य

हिंदी साहित्य -

I st semester – आदिकाव्य एवं भक्तिकाव्य काव्य

II nd semester – कहानी एवं उपन्यास

III rd semester – रीतिकाल

IV th semester – नाटक, एकांकी तथा कथेतर विधाएं

BA- III rd year -

प्रथम प्रश्न पत्र- आधुनिक काव्य

द्वितीय प्रश्न पत्र — भाषा, काव्य शास्त्र एवं निबंध

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DEPARTMENT OF ARTS(U.G.)

English Literature

BA SEMESTER-1

Poetry and Drama-I

BA SEMESTER-2

Prose and Fiction-I

BA SEMESTER-III & IV

Update Soon

B.A. - III

Paper – 1 (Poetry and Drama)

Paper - 2 (Prose and Fiction)

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DEPARTMENT OF ARTS(U.G.)

B.A./B.SC. (Geography)

Semester- I

Physical Geography - I

Practical

Semester- II

Human Geography

Practical

B.A./B.SC Part-III/IV

Update soon

B.A/BSc.-II(Annual)

Paper-I Resources Geography

Paper-II Human Geography

Practical

B.A./B.SC. Part-III

Paper I. World Regional Geography

Paper-II Geography of India

Practical

MA/M.Sc. Geography Previous

Paper-

I. Evolution of Geographical thought

II Physical Basis of Geography.

III Principles and Theory of Economic Geography

IV Man and Natural Environment.

Practical

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DEPARTMENT OF ARTS(U.G.)

(Pub. Admin)

SEMESTER I

AN INTRODUCTION TOPUBLIC ADMINISTRATION

SEMESTER II

- INDIAN GOVERNMENT AND ADMINISTRATION INTRODUCTION
- 2. B.A. PART II

PAPER I

ADMINISTRATION INSTRUCTIONS IN INDIA

PAPER II

- STATE ADMINISTRATION IN INDIA
- 3. B.A. PART III

PAPER I

COMPARATIVE ADMINISTRATION SYSTEM

PAPER II

LOCAL ADMINISTRATION

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DEPARTMENT OF ARTS(U.G.)

Physical Education

B.A. Semester-I

Paper - History of Physical Education

Writer- Dr. Ajmer Singh, Dr. Jagdish Bais, Dr. Jagtar Singh Gill,

Dr. Rachhpal Singh Barad (Kalyani Publication)

B.A. Semester-II

Paper - Foundation of Physical Education

Writer- Dr. Ajmer Singh, Dr. Jagdish Bais, Dr. Jagtar Singh Gill,

Dr. Rachhpal Singh Barad (Kalyani Publication)

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DEPARTMENT OF ARTS (U.G.)

Subject--Sociology

B.A. Semester-I

Paper - Exploring Sociology

B.A. Semester-II

Paper - Basic Concept of Sociology

B.A.-II

Paper I-Social Research

Paper II- Rural Sociology

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DEPARTMENT OF ARTS(U.G.)

HOME-SCIENCE

SEMESTER-1

PAPER-Family Resource Management

SEMESTER-2

PAPER—FOODS AND NUTRITION

SEMESTER-3

UPDATE SOON