

वीरांगना रानी अवन्तीबाई लोधी राजकीय महिला महाविद्यालय,बरेली

Graduation first year is being conducted by New Education Policy (Semester system)

PROGRAMME OUTCOME/ PROGRAMME SPECIFIC OUTCOME/ COURSE OUTCOME

UNDERGRADUATE ARTS (B.A.)

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B.A. I [CERTIFICATE IN ENGLISH] PROGRAMME SPECIFIC OUTCOME (PSOS)

The learners will be able to:

- ➤ Understand the nuances of poetic language, structure and composition of idea in Indian English Prose.
- ➤ Develop their critical thinking skills & comprehend life skills through the study of prose/short fiction & develop their own creativity by enhancing their writing skills.
- ➤ Get enhanced/enriched vocabulary to demonstrate a significant modification in comprehensive skills and writing techniques.
- ➤ Be acquainted with the representative poets and writers from 16th century to 20th century
- > Develop an understanding of the philosophy of Romanticism and how it was impacted by the revolutions in Europe.
- Interpret the meaning of 'Victorian Compromise' and the 'Victorian paradox' and appraise the different aspects of the Age of Reason.
- ➤ Be familiar with the rules and procedures of Practical Criticism.
- ➤ Develop knowledge of literary, cultural, and historical contexts of 20th & 21st century literature in English.
- ➤ Be acquainted with the basic knowledge of Computer and general processing of various Microsoft applications.
- To investigate and understand the role of computers in developing students'

performance in English Language through computer assisted learning.

- Frame official letters like preparing CVs, filing FIRs, RTI and complaints.
- Create e-mails and navigate web browsers.
- > Get acquainted with the art of online writing.

SEMESTER 1

COURSE TITLE: ENGLISH PROSE AND 'COMPUTER & WRITING SKILLS'

COURSE OUTCOME

After completing this course, the students will be able to:

- Understand Indian English Writing as a new form of Indian culture and voice in which India converses regularly. They will be able to understand contributions of various authors in the growth of Indian English Writing.
- Understand the formal qualities of a text, intricacies of structure, stylistics and figurative elements found in the text.
- Learn the core elements of structure such as exposition, complication and resolution or denouement.
- Analyse the difference in the prose techniques of different writers like Addison, Lamb and Bacon.
- Make use of word choices, word order, figurative language and imagery to convey meaning/emotion.
- Identify the writings of classic prose and short story writers like Chekhov, Maupassant and O' Henry.
- Understand the prominence of logic and reason in the 18th century British literature.
- Describe the literary terms related to prose.
- Get a wide exposure of eminent writers like Kalam, Amartya Sen, Anita Desai, Woolf and M.R. Anand.
- Understand the social, historical and political backgrounds of the short story writers like Anton Chekhov through the elaborate and allegorical descriptions in the prescribed text.
- Identify the content, language, style, tone and structure of the essays and short story.
- Comprehend the culture, author's biography and historical context of the prescribed prose works.

- Do online communication like content writing and blogging.
- Do official communication by writing official letters/complaint letters.
- Practically explore their creative genius in creating blogs and personal websites for vocational purposes

SEMESTER 2

COURSE TITLE: READINGS IN ENGLISH POETRY

COURSE OUTCOME

After completing this course, the students will be able to:

- Understand the basic terminology and practical elements of poetry
- Comprehend the meaning of words, phrases and sentences in a given context
- Analyse the underlying meaning of a poem by using the elements of poetry
- Be acquainted with the representative poets and writers of 16th ,17th, 18th and 19th and 20th century
- Identify the devices used by the poet, the mood, the atmosphere, the voice, the stanza form, rhyme pattern and metre scheme
- Examine the difference between Shakespearean and Miltonic sonnet forms
- Comprehend the experimental poetry of Metaphysical age and the characteristics of Neoclassical poetry
- Reflect on didactic human values as virtually mirrored in Thomas Gray's poem
- Understand the concept of nature as stated by the romantic poets in literature
- Appreciate the simplicity and lucidity of expression of poets in romantic literature
- Understand the literary terms used by the Victorian poets
- Analyse the existing conflict between faith and doubt in Victorian society
- Discuss the significance of the literary period of the text by analysing the effects of the major events of that period
- Understand the difference between reason and imagination, literature and revolution
- Exposed to the trends in 20th century poetry of Eliot, Yeats and Larkin

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B.A. I [CERTIFICATE IN DRAWING AND PAINTING]

SEMESTER 1

COURSE TITLE: HISTORY OF ART-1 (THEORY)

COURSE OUTCOME

• Students will recognize and understand major monuments, artists, methods and

theories, and be able to assess the qualities of works of art and architecture in their

historical and cultural settings. How the then social problems should become subjects

of Art

COURSE TITLE: DRAWING AND COLOUR STUDIES (PRACTICAL)

COURSE OUTCOME

• Sketch and render objects (fruits, vegetables, leaf, geometrical shapes etc.) with

various medium like Pencil, Pen, ink, water colour, Poster colour, Oil Pastel colour,

Dry Pastel, Charcoal Pencil, Colour Pencils etc. Exhibit understanding of (properties

of s, wheel & value) and use it judicially in the creation of visual work.

SEMESTER 2

COURSE TITLE: FUNDAMENTALS OF ART (THEORY)

COURSE OUTCOME

• Students get information about Definition of art. The art language is based on

concepts called the ELEMENTS and PRINCIPLES of Design". Introduction to the

basics elements of art, 5 Elements of art: Line Shape Texture Value

COURSE TITLE: DRAWING AND SKETCHING (PRACTICAL)

COURSE OUTCOME

• Sketch and render objects (fruits, vegetables, leaf, geometrical shapes etc.) with

various medium like Pencil, Pen, ink, water, Poster, Oil Pastel, Dry Pastel, Charcoal

Pencil, Pencils etc. Exhibit understanding of (properties of s, wheel & value) and

use it judicially in the creation of visual work.

3.

B.A. I [CERTIFICATE IN FUNDAMENTALS OF HOME SCIENCE]

PROGRAM SPECIFIC OUTCOMES (PSOS)

At the end of program following outcomes are expected from students:

Learn about the discipline of Home Science as a holistic field of study covering multiple facets and requirements of human beings in day to day living, for example, achievement of appropriate milestones in personal development; awareness, need and use of family resources; access to adequate nutrition for wholesome development; clothing fundamentals. May have capabilities to start earning by enhancing their skills in the field of Nutrition and Textiles.

SEMESTER I HOME SCIENCE PAPER 1

COURSE TITLE: FUNDAMENTALS OF NUTRITION AND HUMAN DEVELOPMENT (THEORY)

COURSE OUTCOME

The student at the completion of the course will be able to:

- Prepare the students to understand physiology based courses
- Students will get familiar with different methods of cooking
- Acquaint students with practical knowledge of nutrient rich foods
- Explain the need and importance of studying human growth and development across life span
- Identify the biological and environmental factors affecting human development.
- Learn about the characteristics, needs and developmental tasks of infancy & early childhood years

SEMESTER I HOME SCIENCE PAPER 2

COURSE TITLE: COOKING SKILLS AND HEALTHY RECIPE DEVELOPMENT (PRACTICAL)

COURSE OUTCOME

- Students will get familiar with different methods of cooking
- Acquaint students with practical knowledge of nutrient rich foods

SEMESTER 2 HOME SCIENCE PAPER 1

COURSE TITLE: INTRODUCTION TO CLOTHING & TEXTILES & FAMILY RESOURCE MANAGEMENT (THEORY)

COURSE OUTCOME

- Learn about scope of textile and clothing
- Understanding why fabrics are different
- Learn how fabrics can be manufactured
- Understand basic clothing concepts and garment making
- Learn the family resource management as a whole.
- Understand the Decision making and use of resources throughout the Family life cycle.
- Gain knowledge about Time, Money & Energy as a Resource.
- Appreciate Household Equipments for work simplification

SEMESTER 2 HOME SCIENCE PAPER 2

CORSE TITLE: CLOTHING & TEXTILES (PRACTICAL)

COURSE OUTCOME

- Ability to identify fibers and fabrics
- Understanding why fabrics are different
- Learning basic Sewing skills
- Learn how garments are stitched

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B.A. I [CERTIFICATE IN SOCIOLOGY]

PROGRAMME SPECIFIC OUTCOMES (PSOs)

- This course will introduce students to new concepts of Sociology discipline.
- ➤ These concepts will enhance the conceptual learning and understanding of the basic concepts used in Sociology.
- ➤ This course will contribute in enriching the vocabulary and scientific temperament of the students.

- ➤ The course is designed to incorporate all the key concepts of sociology which would enable the learner to develop keen insights to distinguish between the commonsense knowledge and Sociological knowledge.
- ➤ This course provides comprehensive understanding of Indian society.

SEMESTER. I

COURSE TITLE: INTRODUCTION TO BASIC CONCEPTS OF SOCIOLOGY COURSE OUTCOME

• This paper will introduce students to new concepts of Sociology discipline. These concepts will enhance the conceptual learning and understanding of the basic concepts used in Sociology. This paper will contribute in enriching the vocabulary and scientific temperament of the students. The course is designed to incorporate all the key concepts of sociology which would enable the learner to develop keen insights to distinguish between the commonsense knowledge and Sociological knowledge.

SEMESTER II

COURSE TITLE: SOCIETY IN INDIA: STRUCTURE, ORGANIZATION & CHANGE. (THEORY)

COURSE OUTCOME

 This paper is designed in this manner, so that students are introduced to the concepts related to Indian Society. They are made familiar with the Indian Society, its linkages and continuity with past and present. It also gives insights to analyze contemporary Indian society. This paper provides comprehensive understanding of Indian society.

SEMESTER II

COURSE II (PRACTICAL)

COURSE TITLE: WRITING SKILL DEVELOPMENT ON TOPICS OF CONTEMPORARY SOCIOLOGICAL IMPORTANCE

COURSE OUTCOME

This is the practical paper introduced in the second semester of the certificate course
in order to develop writing skills among the students of Sociology. This would
enhance and inculcate the analytical skills among the students. The paper is designed

to enrich the conceptual vocabulary of the students, such that they are equipped with

the writing style in Sociology. This paper is presumably beneficial for the students

who are interested in the field of Media, Journalism, Essay writer, Column writer,

Psephology, Journalism

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B.A. I [CERTIFICATE IN MUSIC VOCAL]

PROGRAM SPECIFIC OUTCOMES (PSOS)

At the end of program following outcomes are expected from students:

Learn about the fundamental aspects of Indian Music.

Learn about the historical development of Indian Music and cultural

development of India.

> Students will be able to get acquainted with various Ragas and different

Taals. They will be able to get acquainted with other genres beside classical

and will also be able to perform.

May have capabilities to start earning by enhancing their skills in the field of

Music vocal and Indian Music.

SEMESTER 1

COURSE TITLE: INTRODUCTION TO INDIAN MUSIC (THEORY)

COURSE OUTCOME

• On the successful completion of Introduction to Indian Music students will develop a

strong foundation on the basic understanding of the Indian Music.

SEMESTER 1

COURSE TITLE: CRITICAL STUDY OF RAGAS AND TAALS (PRACTICAL)

COURSE OUTCOME

• This paper focuses on the practical fundamentals of perform a Raag on stage wirth

Vilambt and Drut Khayal. They will able to perform Tarana, Bhajan, Geet and gazal

also. Students will understand the concept of Lay and Layakari.

SEMESTER 11

COURSE TITLE: HISTORY OF INDIAN MUSIC (THEORY)

COURSE OUTCOME

• This paper focuses on the practical fundamentals of perform a Raag on stage wirth Vilambt and Drut Khayal. They will able to perform Tarana, Bhajan, Geet and gazal also. Students will understand the concept of Lay and Layakari

SEMESTER 1I

COURSE TITLE: CRITICAL STUDY OF RAAGAS AND TAALS (PRACTICAL)

COURSE OUTCOME

The focus of this paper is the student will have acquainted with rich cultural heritage
of Indian music. This course will help the students to know the rich history of Indian
music from the Vedic age.

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B.A. I [CERTIFICATE PHYSICAL EDUCATION]

PROGRAMME SPECIFIC OUTCOMES

Physical Education is a very wide subject in which biological, psychological, physical, health and functional aspects of sports and body are studied. It is noteworthy that it is such a subject with the help of which human body both internally and externally can be kept healthy. Students will definitely be able to discharge duties towards themselves and society through this subject. Under this subject, the students can demonstrate excellently their skills and perfection particularly in sports ability, management, leadership, health plan, event management, sports budgeting, physiology, teaching methods, sports psychology and research along with getting information regarding to the importance of Physical Education for DIVYANG

SEMESTER I

COURSE TITLE: ELEMENTALS OF PHYSICAL EDUCATION (THEORY) COURSE OUTCOME

 Physical education is very wide concept and this subject teaches about introduction and Sociological concept of Physical Education and this also teaches about historical development of physical education in India and other countries. Its introduce a general concept of good health and wellness. This program will also help a student to promote healthy way of living and they will also be able to make fitness and health plan.

SEMESTER I

COURSE TITLE: FITNESS AND YOGA (PRACTICAL)

COURSE OUTCOME

Yoga is very helpful in prevention of many diseases and students will learn about it.
 This subject deals with basic knowledge about and Aerobics and Gymnasium classes which will help students to excel in the fitness industry.

SEMESTER II

COURSE TITLE: SPORTS ORGANIZATION AND MANAGEMENT (THEORY) COURSE OUTCOME

 This course is designed to give real time exposure to students in the area of organising an event/ sports. The students will also learn about store management, purchasing and budget making.

SEMESTER II

COURSE TITLE: SPORTS EVENT AND TRACK & FIELD (PRACTICAL) COURSE OUTCOME

- To make a plan for organizing an event.
- To organize an Interclass Competition of any games with in the wall.
- To prepare a budget plane for interclass competition within the wall
- Make a Sample Time Table for college.
- Prepare the list of Consumable and Non-Consumable items.
- Prepare a Biodata/ Vita/ curriculum vitae.

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B.A. I [CERTIFICATE POLITICAL SCIENCE]

SEMESTER I

COURSE TITLE: INDIAN NATIONAL MOVEMENT & CONSTITUTION OF INDIA (THEORY)

COURSE OUTCOME

 Acquaintance to Indian National Movement & Constitution is indispensable for a student to make a sense of Indian Political System. The course is designed to provide a overview of Indian freedom Struggle and key concepts of the Indian constitution to the student, which would evolve him into a conscientious citizen.

SEMESTER I

COURSE TITLE: AWARENESS OF RIGHTS & LAWS (PRACTICAL)

COURSE OUTCOME

• This paper intends to arm the student with basic digital and legal awareness where by the student can leverage this in the job market. It also intends to make the student aware of his basic legal rights which would help him to stand up and help others.

SEMESTER II

COURSE TITLE: POLITICAL THEORY & CONCEPTS

COURSE OUTCOME

Understanding Political theory is integral and indispensable for a comprehensive and
critical study of political science. The course is designed to train a student in the
foundational issues of political theory, which is relevant for any in depth study and
research.

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B.A. I [CERTIFICATE IN PSYCHOLOGY]

PROGRAM SPECIFIC OUTCOMES

The learning outcomes that a student should be able to exhibit on completion of a degree level program in Psychology are as follows:

- ➤ Comprehension about the discipline, its research methods, related theories and models.
- ➤ Knack to link up theory with individual experiences and varied applied settings.
- ➤ Capacity to practice professional skills in the area of psychological testing, assessment and counselling.

Development of skills in specific areas related to specific specialization (e.g. psycho

diagnostics, counselling, learning disability, health, community mental health and

organizational behaviour).

A general understanding about how knowledge of psychology can be applied to

benefit the management and/or amendment of problems of mankind.

> Capability to articulate ideas in appropriate manner, with scientific writing and

authentic reporting.

> Sensitivity towards diverse contexts, ethnic groups, minorities, marginalized groups

and gender issues

> Development of skills and attributes of empathy, team work, coordination,

cooperation, conflict resolution, and congruence.

SEMESTER I

COURSE TITLE: BASIC PSYCHOLOGICAL PROCESSES (PAPER 1 THEORY)

COURSE OUTCOME

The students will learn about the fundamental processes and core psychological

concepts, models, classical theories, varied perspectives, and will be able to apply

them in their own and in others lives. It will also give the learner a clear

understanding of the concepts like intelligence, motivation, emotion and personality.

It will develop critical analytical skills regarding these individualistic traits

SEMESTER I

COURSE TITLE: LAB WORK (PAPER 2 PRACTICAL)

COURSE OUTCOME

• Students will be imparted a variety of skills to design and conduct psychological

experiments ensuring controlled conditions, report writing and interpretations of the

report.

SEMESTER II

COURSE TITLE: BASIC RESEARCH METHODOLOGY AND STATISTICS

(PAPER 1 THEORY)

COURSE OUTCOME

 The learners will be able to comprehend psychological data and can put them on appropriate scaling method. Moreover, they will be getting hold of essentials of psychological testing along with various kinds of tests implemented.

SEMESTER II

COURSE TITLE: LAB WORK/ PSYCHOLOGICAL TESTING (PAPER 2 PRACTICAL)

COURSE OUTCOME

 Students will be conferred an array of skills to carry out experiments in lab settings, design and conduct psychological experiments ensuring controlled conditions, report writing and interpretations of the report.

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B.A. I [CERTIFICATE IN GEOGRAPHY]

PROGRAMME SPECIFIC OUTCOMES (PSOS)

- ➤ This course provides the basic ideas and concepts of Physical & Human aspect of Geography.
- ➤ This course intends to orient the learner with the Approaches to the broader discipline of Geography.
- ➤ It will help in developing analytical and critical thinking based on the themes and issues of geography.
- ➤ It eventually prepares the students to understand the development of the subject and delve around issues suited to the needs of the contemporary world. e) It will help in exhaustive understanding of the basic concepts of Geography and an awareness of the emerging areas of the field.
- > Acquisition of in-depth understanding of the applied aspects of Geography as well as interdisciplinary subjects in everyday life.
- > Improvement of critical thinking and skills facilitating.
- ➤ The application of knowledge gained in the field of Geography in the classroom to the practical solving of societal problems.
- > The programme orients students with tradition geographical knowledge along with advance contemporary skills like remote sensing and GIS

SEMESTER I

COURSE TITLE: PHYSICAL GEOGRAPHY (THEORY)

COURSE OUTCOME

- Students will be able to understand the Earth geomorphic transition from beginning to present day.
- Plate tectonics and related movements
- Landforms carved by various agents of erosion
- Earth's climate and that factors that influence it
- Oceans system and biogeography of the world.

SEMESTER I

COURSE TITLE: ELEMENTS OF MAP AND SURVEYING (PRACTICAL) COURSE OUTCOME

On completion of this course, learners will be able to:

• Understand the basic idea of Map, Scale and Topographic sheets

SEMESTER II

COURSE TITLE: HUMAN GEOGRAPHY (THEORY)

COURSE OUTCOME

On completion of this course, learners will be able to:

- To understand the Concept, Nature, Meaning and Scope of Human Geography
- To understand the natural and Cultural Changes in and around the Human Environs and their interrelationship.

SEMESTER II

COURSE TITLE: THEMATIC MAPPING AND SURVEYING (PRACTICAL) COURSE OUTCOME

On completion of this course, learners will be able to:

• Understand the basic idea of Map, Scale and Topographic sheets

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B.A. I [CERTIFICATE IN ECONOMICS]

PROGRAMME SPECIFIC OUTCOMES (PSOS)

Student after completing graduation will be able to learn:

- ➤ The behavioural patterns of different economic agents, advance theoretical issues and their applications.
- ➤ Understand the basic concept of microeconomics.
- Understanding basic concepts of Macroeconomics.
- Acquaint with some basic statistical methods to be applied in economics.
- Acquaint with some basic mathematical methods to be applied in economics.
- Acquaint with some basic theoretical concept of public finance.
- Acquaint with the measurement of development with the help of theories along with the conceptual issues of poverty and inequalities with Indian perspectives.
- > : Delineate the fiscal policies designed for developed and developing economics.
- Facilitate the historical developments in the economic thoughts propounded by different schools. To familiarise students with the contribution of Indian Economic Thinkers and the relevance of their contribution.
- ➤ Learn the basic concept of monetary analysis and financial marketing in Indian financial markets.
- Learn the development issues of Indian economy.
- ➤ Acquaint with some basic concept of environmental economics along with the solution of the environmental problems.
- Learn the real and monetary sides of International economics.
- Familiarise and acquaint with the characteristics of the economy of Uttar Pradesh.
- To familiarize the students about issues of ethics in economic thinking and practice.

SEMESTER I

COURSE TITLE: PRINCIPLE OF MICRO ECONOMICS

COURSE OUTCOME

- The students are familiarized with basic concepts of microeconomics such as laws of demand and supply and elasticity etc so that he/she can comprehend them & familiarize with day today happenings.
- The students learn and understand the concepts of consumer behaviour like cardinal utility and ordinal utility analysis.

- The students learn and understand application of Indifference curve analysis in deriving demand curves, price effect, income effect and substitution effect.
- The students learn and understand the Theory of production- iso-quants, laws of returns to scale, law of variable proportion.
- The students learn, understand and compare between the Traditional and modern theory of cost.
- Demonstrate an understanding, usage and application of basic economic principles.
- Describe and apply the methods for analyzing consumer behavior through demand and supply, elasticity and marginal utility.
- To analyze the behavioural patterns of different economic agents regarding profit, price, cost etc.
- The decision-making process in different market situations such as perfect competition, monopolistic competition, monopoly and oligopoly markets.
- To deal with the advance theoretical issues and their practical applications of distribution theories.
- General equilibrium, economic efficiency and market failure.

SEMESTER II

COURSE TITLE: PRINCIPALS OF MACRO ECONOMICS COURSE OUTCOME

- Students are able to explain national income, comprehend calculation methods of national income, and concepts related to national income.
- Students are able to comprehend classical theory of employment and the Keynesian approach.
- Students are able to comprehend the concept of multiplier and its working.
- Students are able to understand the relationship between inflation and employment.
- Students are able to relate factors determining national income such as consumption, saving and investment.
- Students are able to analyze different phases of trade cycle, demonstrate various trade
 cycle theories, understand the impact of cyclical fluctuation on the growth of
 business, and lay policies to control trade cycle.

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B.A. I [CERTIFICATE IN FUNDAMENTALS OF HISTORY]

PROGRAM SPECIFIC OUTCOMES (PSOS)

At the end of program following outcomes are expected from students:

- ➤ Learn about the discipline of History as a holistic field of study covering multiple facets and requirements of— human beings in day to day living, for example, achievement of appropriate milestones in personal development; awareness, need and use of historical resources; access to adequate knowledge system for wholesome development; historical fundamentals.
- ➤ May have capabilities to start earning by enhancing their skills in the field of Historical and Traditional¬knowledge system, Tourism, Archives and Museums

SEMESTER I

COURSE TITLE: ANCIENT AND EARLY MEDIEVAL INDIA (TILL 1206 A.D.) COURSE OUTCOME

- The present course will be useful in providing historical knowledge to the students.
- It has been constructed in such a way that a student will not only gain knowledge of ancient civilizations of India, but historical development can be understood easily.
- Students will be familiar with the political and cultural development of ancient India.
 The art, culture and philosophy of religion of ancient India have been included in the syllabus.
- Through this paper a student will get acquainted with historical facts, acquire knowledge of ancient pride of India and develop a positive attitude towards history. This approach will motivate the students to contribute towards nation building by making them aware of the social culture of India.
- This course will develop the logical ability of students to do a rational analysis of historical events and develop students' research aptitude.
- The course presented will inspire the ability of knowledge generation in the students.
- This section studies the political situation in North India. Students can gain knowledge of how political decentralization arose in North India after death of Harsha

- and which historical circumstances proved helpful in the origin of Rajputs. It also includes the history of the dynasties of Kashmir, Punjab and Sindh.
- This section gives a historical account of new political conditions and conflicts in India after 1000 AD. Students can gain historical knowledge of political and strategic weakness of India through political conflicts. In this paper, a student will get knowledge of the nature of Muslim attacks and the struggle of Rajputs.

SEMESTER II

COURSE TITLE: HISTORY OF MEDIEVAL INDIA (1206 A.D - 1757 A.D) COURSE OUTCOME

- This paper is designed to develop the understanding of India with the advent of Turks
 , Timurs, Afghans and subsequently the establishment of Mughal rule in some parts
 of India.
- An emphasis has been laid to cover the regions og India not under the domination of Turks and Mughals in India.
- This paper covers the territorial expansion of various Indian Kings and impact of Medievalism on Indian society and culture.

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B.A. I [CERTIFICATE IN HINDI LITERATURE]

PROGRAM SPECIFIC OUTCOMES (PSOS)

- विद्यार्थियों को भारतीय ज्ञान परंपरा के अंतर्गत हिंदी साहित्य एवं भाषा का आधारभूत ज्ञान प्राप्त होगा।
- साहित्य के मूलभूत स्वरूप, यथा विभिन्न विधाओं, हिंदी के रोजगारपरक स्वरूप आदि की जानकारी प्राप्त होगी।
- 🗲 विश्व की सर्वाधिक वैज्ञानिक भाषा अर्थात हिंदी में रोजगार कौशल प्राप्त होगा।
- 🕨 भाषा, साहित्य तथा संस्कृति की अंतरसंबद्धता के प्रति विद्यार्थियों में समझ विकसित होगी।
- > विद्यार्थियों में राष्ट्रीयता तथा नैतिक चरित्र की भावना का विकास होगा।
- कंप्यूटर, सिनेमा, अनुवाद आदि के माध्यम से विद्यार्थियों को नए समाज की चुनौतियों का सामना
 करने में सक्षम बनाने का प्रयास किया जाएगा।

प्रथम सेमेस्टर

प्रश्न पत्र शीर्षक: हिंदी काव्य

अधिगम उपलब्धि

- भारतीय ज्ञान परंपरा में हिंदी के विभिन्न कालों के प्रतिनिधि कवियों की कविताओं के विषय में जानकारी देना
- हिंदी काव्य के इतिहास की संक्षिप्त जानकारी देकर विद्यार्थियों को हिंदी कविता के विकास क्रम से अवगत कराना।

द्वितीय सेमेस्टर

प्रश्न पत्र शीर्षक: कार्यालयी हिंदी और कंप्यूटर

अधिगम उपलब्धि

- हिंदी के विद्यार्थियों को कार्यालय के कार्यों की मूलभूत जानकारी प्रदान करना ताकि वे कार्यालय के समस्त कार्यों को सुगमता पूर्वक कर सकें
- उन्हें कंप्यूटर का मूलभूत ज्ञान देकर कंप्यूटर पर हिंदी में कार्य करने में सक्षम बनाना तािक वे समुचित रोजगार प्राप्त कर सकें।

1

B.A. I [CERTIFICATE IN SANSKRIT]

PROGRAM SPECIFIC OUTCOMES (PSOS)

- 🗲 विद्यार्थियों को लेखन, वाचन एवं अध्ययन की दृष्टि से भाषागत दक्षता प्राप्त होगी।
- सर्वाधिक वैज्ञानिक भाषा के रूप में संस्कृत भाषा के प्राचीन महत्व एवं उसकी वर्तमान प्रासंगिकता
 को जानने, समझने योग्य होंगे।
- संस्कृत साहित्य की विभिन्न विधाओं (गद्य, पद्य, नाटक, व्याकरण) इत्यादि से सुपरिचित होकर संस्कृत मर्मज्ञ बन सकेंगे।
- संस्कृत व्याकरण के विभिन्न अंगों के ज्ञान द्वारा भाषा के शुद्ध अध्ययन, लेखन एवं उच्चारण माध्यम से अभिव्यक्ति कौशल का विकास होगा।
- आयुर्वेद, वास्तुशास्त्र, ज्योतिष, नित्यनैमित्तिक कर्मकांड इत्यादि के माध्यम से जीविकोपार्जन के
 योग्य बनेंगे।

- वैदिक एवं लौकिक संस्कृत साहित्य की समृद्धि एवं तद्विहित नैतिकता व आध्यात्मिकता को अनुभूत
 कर भारतीय संस्कृति के महत्व को वैश्विक स्तर पर तक पहुंचाने में सक्षम होंगे।
- धर्म- दर्शन, आचार- व्यवहार, नीति शास्त्र एवं भारतीय संस्कृति के मूल तत्वों को जानकर उत्तम चरित्रवान मानव एवं कुशल नागरिक बनेंगे।
- समसामयिक समस्याओं के समाधान के रूप में संस्कृत साहित्य में निबद्ध सर्वांगीणता के प्रति
 शोधपरक दृष्टि का विकास होगा।

प्रथम सेमेस्टर

प्रश्न पत्र शीर्षक: संस्कृत पद्य साहित्य एवं व्याकरण

अधिगम उपलब्धि

- विद्यार्थी संस्कृत साहित्य का सामान्य परिचय प्राप्त कर काव्य के विभिन्न भेदों से परिचित हो सकेंगे
- वे संस्कृत पद्य साहित्य की सुगीतात्मकता का सौंदर्यबोध कर सकेंगे।
- उनमें काव्य में प्रयुक्त रस, छंद, अलंकारों को समझने की क्षमता विकसित होगी।
- पद्य में निहित सूक्तियों एवं सुभाषित वाक्यों के माध्यम से उनका नैतिक एवं चारित्रिक उन्नयन होगा।
- विद्यार्थियों के शब्दकोश में वृद्धि होने के साथ-साथ वे संस्कृत श्लोकों के शुद्ध और सस्वर उच्चारण के कौशल में निपुण बनेंगे।
- संस्कृत व्याकरण का सामान्य ज्ञान प्राप्त कर उसकी वैज्ञानिकता से सुपरिचित हो सकेंगे।
- संस्कृत वर्णों के शुद्ध उच्चारण कौशल का विकास होगा।
- स्वर एवं व्यंजन के मूल भेद को समझकर पृथक अर्थावगमन की क्षमता उत्पन्न होगी।
- स्वर, व्यंजन एवं विसर्ग संधि का विशिष्ट ज्ञान एवं उनके अनुप्रयोग का कौशल विकसित होगा।

द्वितीय सेमेस्टर

प्रश्न पत्र शीर्षक: संस्कृत गद्य साहित्य अनुवाद एवं संगणक अनुप्रयोग

अधिगम उपलब्धि

1

• विद्यार्थी संस्कृत गद्य साहित्य का सामान्य ज्ञान प्राप्त कर गद्य काव्य के भेदों से सुपरिचित हो सकेंगे

- संबंधित साहित्य के माध्यम से उनका नैतिक एवं चारित्रिक उत्कर्ष होगा। राष्ट्रभक्ति की भावना
 प्रबल होगी तथा उत्तम नागरिक बनेंगे।
- अनुवाद कौशल में वृद्धि होगी।
- संस्कृत गद्य के धाराप्रवाह एवं शुद्ध वाचन का कौशल विकसित होगा।
- विद्यार्थी संगणक का सामान्य ज्ञान प्राप्त कर अधिगम क्षमता में वृद्धि हेतु इसका उपयोग कर सकने
 में सक्षम होंगे।
- E-content एवं डिजिटल लाइब्रेरी का उपयोग कर पाने में समर्थ होंगे।
- संस्कृत भाषा एवं साहित्य के नित-नूतन अन्वेषण को खोज पाने तथा उससे स्व- ज्ञान कोष में वृद्धि
 कर पाने योग्य होंगे।
- संगणक के प्रयोग के माध्यम से संस्कृत ज्ञान के प्रचार-प्रसार एवं आदान-प्रदान में करने में कुशल
 बनेंगे।
- पारंपरिक एवं वैश्विक ज्ञान में सामंजस्य बनाकर ज्ञान की अभिवृद्धि करने एवं जीविकोपार्जन के
 नए मार्ग खोजने का कौशल विकसित होगा।

UNDERGRADUATE COMMERCE (B.COM.)

PROGRAMME OUTCOMES

The career options for students pursuing B.Com. Programme is vast and candidates will always have interesting profiles to work at if they play to their strengths. While many B.Com. Graduates may choose the much tried and tested path of CA, CS, CMA and other related fields of study, one has ample opportunity to choose an out-of-the-box career option, as one in travel and hospitality, media and telecommunications depending on the path and degree one chooses.

PROGRAMME SPECIFIC OUTCOMES

Earning a graduate degree of commerce (B.Com.) is evidence of persistence, determination, intellectual prowess, and the ability to handle challenging environments all of which are sought-after qualities for individuals filling manager and director positions. An employee who has demonstrated success in a long-term situation that requires stamina, discipline, leadership, and the ability to work well with others is going to be in line for growth opportunities within his or her organization.

➤ B.Com. graduate after completion of course can choose to work in job profile option

available to them depending on their caliber and interest area such as Accountant,

Auditor, Consultant, Company Secretary, Business Analyst, Finance Officer, Sales

Analyst, Junior Analyst, Tax Accountant, Stock Broker, Economist, and Business

Development Trainee and so on to explore.

SEMESTER: I

COURSE TITLE: BUSINESS ORGANIZATION

COURSE OUTCOME

After completing this course a student will have:

Ability to understand the concept of Business Organisation along with the basic laws

and norms of Business Organisation.

Ability to understand the terminologies associated with the field of Business

Organisation along with their relevance.

Ability to identify the appropriate types and functioning of Business Organisation for

solving different problems.

Ability to apply basic Business Organisation principles to solve business and

industry related problems.

Ability to understand the concept of Sole Proprietorship, Partnership and Joint Stock

Company etc.

SEMESTER: I

COURSE TITLE: BUSINESS STATISTICS

COURSE OUTCOME

The purpose of this paper is to inculcate and analytical ability among the students.

SEMESTER: I

COURSE TITLE: BUSINESS COMMUNICATION

COURSE OUTCOMES

To acquire skills in reading, writing, comprehension and communication, and also to

use electronic media for business communication.

SEMESTER: I

COURSE TITLE: INTRODUCTION TO COMPUTER APPLICATION

COURSE OUTCOMES

The objective of this course is to provide basic knowledge of computer, DBMS, data

base language and word processing.

SEMESTER: II

COURSE TITLE: BUSINESS MANAGEMENT

COURSE OUTCOME

After completing this course a student will have:

Ability to understand the concept of Business Management along with the basic

laws and norms of Business Management.

• Ability to understand the terminologies associated with the field of Business]

Management and control along with their relevance.

Ability to identify the appropriate method and techniques of Business Management

for solving different problems.

Ability to apply basic Business Management principles to solve business and

industry related problems.

Ability to understand the concept of Planning, Organising, Direction, Motivation and

Control etc.

SEMESTER: II

COURSE TITLE: COMPUTERISED ACCOUNTING (PRACTICAL)

COURSE OUTCOMES

The purpose of this paper is provide to knowledge of accounting with computer.

SEMESTER: II

COURSE TITLE: ESSENTIALS OF E-COMMERCE

COURSE OUTCOMES

This course is to familiarize the student with the basics of ecommerce and to

comprehend its potential.

SEMESTER: II

COURSE TITLE: BUSINESS ECONOMICS

COURSE OUTCOMES

• This course is meant to acquaint the students with the principles of Business Economics as are applicable in business.

UNDERGRADUATE SCIENCE (B.SC.)

B.SC. IN SCIENCE (BOTANY)

Programme outcomes (POs):

Transformed curriculum shall develop educated outcome-oriented candidature, fostered with discoverylearning, equipped with practice & skills to deal practical problems and versed with recent pedagogical trends in education including e-learning, flipped class and hybrid learning to develop into responsible citizen for nation-building and transforming the country towards the future with their knowledge gained in the field of plant science.

- ❖ PO 1 CBCS syllabus with a combination of general and specialized education shall introduce the concepts of breadth and depth in learning
- ❖ PO2 Shall produce competent plant biologists who can employ and implement their gained knowledge in basic and applied aspects that will profoundly influence the prevailing paradigm of agriculture, industry, healthcare and environment to provide sustainable development.
- ❖ PO 3 Will increase the ability of critical thinking, development of scientific attitude, handling of problems and generating solutions, improve practical skills, enhance communication skill, social interaction, increase awareness in judicious use of plant resources by recognizing the ethical value system.
- ❖ PO 4 The training provided to the students will make them competent enough for doing jobs in Govt. and private sectors of academia, research and industry along with graduate preparation for national as well as international competitive examinations, especially UGC-CSIR NET, UPSC Civil Services Examination, IFS, NSC, FCI, BSI, FRI etc.
- ❖ PO 5 Certificate and diploma courses are framed to generate self- entrepreneurship and selfemployability, if multi exit option is opted. PO 6 Lifelong learning be achieved by drawing attention to the vast world of knowledge of plants and their domestication.

PROGRAMME SPECIFIC OUTCOMES (PSOS):

B.SC. I BOTANY [CERTIFICATE COURSE IN MICROBIAL TECHNOLOGY &

CLASSICAL BOTANY]

This Programme imparts knowledge on various fields of plant biology through teaching, interactions and practical classes. It shall maintain a balance between the traditional botany and modern science for shifting it towards the frontier areas of plant sciences with applied approach. This syllabus has been drafted to enable the learners to prepare them for self-entrepreneurship and employment in various fields including academics as well as competitive exams. Students would gain wide knowledge in following aspects:

- ➤ Diversity of plants and microbes, their habitat, morphology, architecture and reproduction.
- ➤ Plant disease causing microbes, symptoms & control.
- Economic value of plants and their use in Human Welfare.

SEMESTER 1

COURSE TITLE: MICROBIOLOGY & PLANT PATHOLOGY (PAPER 1 THEORY) COURSE OUTCOME

- After the completion of the course the students will be able to: 1. Develop understanding about the classification and diversity of different microbes including viruses, Algae, Fungi & Lichens & their economic importance.
- Develop conceptual skill about identifying microbes, pathogens, biofertilizers & lichens.
- Gain knowledge about developing commercial enterprise of microbial products.
- Learn host –pathogen relationship and disease management.
- Learn Presentation skills (oral & writing) in life sciences by usage of computer & multimedia.
- Gain Knowledge about uses of microbes in various fields.
- Understand the structure and reproduction of certain selected bacteria algae, fungi and lichens

Gain Knowledge about the economic values of this lower group of plant community.

SEMESTER 1

COURSE TITLE: TECHNIQUES IN MICROBIOLOGY &PLANT PATHOLOGY (PAPER 2 PRACTICAL)

COURSE OUTCOME

After the completion of the course the students will be able:

- Understand the instruments, techniques, lab etiquettes and good lab practices for working in a microbiology laboratory.
- Develop skills for identifying microbes and using them for Industrial, Agriculture and Environment purposes.
- Practical skills in the field and laboratory experiments in Microbiology & Pathology.
- learn to identify Algae, Lichens and plant pathogens along with their Symbiotic and Parasitic associations.
- Can initiate his own Plant & Seed Diagnostic Clinic 6. Can start own enterprise on microbial products

SEMESTER II

COURSE TITLE: ARCHEGONIATES AND PLANT ARCHITECTURE (PAPER 1 THEORY)

COURSE OUTCOME

After the completion of the course the students will be able to:

- Develop critical understanding on morphology, anatomy and reproduction of Bryophytes, Pteridophytes and Gymnosperms
- Understanding of plant evolution and their transition to land habitat.
- Understand morphology, anatomy, reproduction and developmental changes therein through typological study and create a knowledge base in understanding the basis of plant diversity, economic values & taxonomy of plants
- Understand the details of external and internal structures of flowering plants.

SEMESTER II

COURSE TITLE: LAND PLANTS ARCHITECTURE (PAPER 2 PRACTICAL) COURSE OUTCOME

• The students will be made aware of the group of plants that have given rise to land habit and the flowering plants. Through field study they will be able to see these plants grow in nature and become familiar with the biodiversity.

- Students would learn to create their small digital reports where they can capture the zoomed in and zoomed out pictures as well as videos in case they are able to find some rare structure or phenomenon related to these plants.
- Develop an understanding by observation and table study of representative members
 of phylogenetically important groups to learn the process of evolution in a broad
 sense.
- Understand morphology, anatomy, reproduction and developmental changes therein through typological study and create a knowledge base in understanding plant diversity, economic values & taxonomy of lower group of plants
- Understand the composition, modifications, internal structure & architecture of flowering plants for becoming a Botanist.

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B.SC. 1 CHEMISTRY [CERTIFICATE IN BIOORGANIC AND MEDICINAL CHEMISTRY]

PROGRAM SPECIFIC OUTCOMES (PSOS)

- ➤ Certificate in Bioorganic and Medicinal Chemistry will give the student a basic knowledge of all the fundamental principles of chemistry like molecular polarity, bonding theories of molecules, Periodic properties of more than 111 elements, mechanism of organic Reactions, Stereochemistry, basic mathematical concepts and computer knowledge, chemistry of carbohydrates, proteins and nucleic acids: medicinal chemistry, synthetic polymers, synthetic dyes
- > Student will be able to do to qualitative quantitative and bio chemical analysis of the compounds in the laboratory.
- ➤ This certificate course is definitely going to prepare the students for various fields of chemistry and will give an insight into all the branches of chemistry and enable our students to join the knowledge and available opportunities related to chemistry in the government and private sector services particularly in the field of food safety, health inspector, pharmacist etc.
- ➤ Have a broad foundation in chemistry that stresses scientific reasoning and analytical problem solving with a molecular perspective.

SEMESTER I

COURSE TITLE: FUNDAMENTALS OF CHEMISTRY (PAPER 1 THEORY) COURSE OUTCOME

There is nothing more fundamental to chemistry than the chemical bond. Chemical bonding is the language of logic for chemists. Chemical bonding enables scientists to take the 100plus elements of the periodic table and combine them in myriad ways to form chemical compounds and materials. Periodic trends, arising from the arrangement of the periodic table, provide chemists with an invaluable tool to quickly predict an element's properties. These trends exist because of the similar atomic structure of the elements within their respective group families or periods, and because of the periodic nature of the elements. Reaction mechanism gives the fundamental knowledge of carrying out an organic reaction in a stepby-step manner. This course will provide a broad foundation in chemistry that stresses scientific reasoning and analytical problem solving with a molecular perspective. Students will gain an understanding of Molecular geometries, physical and chemical properties of the molecules. Current bonding models for simple inorganic and organic molecules in order to predict structures and important• bonding parameters. The chapter Recapitulation of basics of organic chemistry gives the most primary and utmost important • knowledge and concepts of organic Chemistry. This course gives a broader theoretical picture in multiple stages in an overall chemical reaction. It describes • reactive intermediates, transition states and states of all the bonds broken and formed .It enables to understand the reactants, catalyst, steriochemistry and major and minor products of any organic reaction. It describes the types of reactions and the Kinetic and thermodynamic aspects one should know for carrying out• any reaction and the ways how the reaction mechanism can be determined. The chapters Steriochemistry gives the clear picture of two-dimensional and three-dimensional structure of the molecules, and their role in reaction mechanism.

SEMESTER I

COURSE TITLE: QUANTITATIVE ANALYSIS (PAPER 2 PRACTICAL) COURSE OUTCOME

- Upon completion of this course the students will have the knowledge and skills to: understand the laboratory methods and tests related to estimation of metals ions and estimation of acids and alkali contents in commercial products.
- Potability tests of water samples.

- Estimation of metal ions in samples
- Estimation of alkali and acid contents in samples
- Estimation of inorganic salts and hydrated water in samples

SEMESTER II

COURSE TITLE: BIOORGANIC AND MEDICINAL CHEMISTRY (PAPER 1 THEORY)

COURSE OUTCOME

- Biomolecules are important for the functioning of living organisms.
- These molecules perform or trigger important biochemical reactions in living organisms.
- When studying biomolecules, one can understand the physiological function that regulates the proper growth and development of a human body. T
- his course aims to introduce the students with basic experimental understanding of carbohydrates, amino acids, proteins, nucleic acids and medicinal chemistry.
- Upon completion of this course students may get job opportunities in food, beverage and pharmaceutical industries.

SEMESTER II

COURSE TITLE: BIOCHEMICAL ANALYSIS (PAPER 2 PRACTICAL) COURSE OUTCOME

- This course will provide basic qualitative and quantitative experimental knowledge of biomolecules such as carbohydrates, proteins, amino acids, nucleic acids drug molecules.
- Upon successful completion of this course students may get job opportunities in food, beverage and pharmaceutical industries.

B.SC. 1 PHYSICS [CERTIFICATE -IN BASIC PHYSICS & SEMICONDUCTOR DEVICES]

PROGRAMME SPECIFIC OUTCOMES (PSOs)

➤ This programme aims to give students the competence in the methods and techniques of calculations using Newtonian Mechanics and Thermodynamics.

- At the end of the course the students are expected to have hands on experience in modeling, implementation and calculation of physical quantities of relevance.
- An introduction to the field of Circuit Fundamentals and Basic Electronics which deals with the physics and technology of semiconductor devices is practically useful and gives the students an insight in handling electrical and electronic instruments.
- > Experimental physics has the most striking impact on the industry wherever the instruments are used.
- ➤ The industries of electronics, telecommunication and instrumentation will specially recognize this course.

SEMESTER I

COURSE TITLE: MATHEMATICAL PHYSICS & NEWTONIAN MECHANICS (PAPER 1 THEORY)

COURSE OUTCOMES (COS)

- Recognize the difference between scalars, vectors, pseudo-scalars and pseudo-vectors.
- Understand the physical interpretation of gradient, divergence and curl.
- Comprehend the difference and connection between Cartesian, spherical and cylindrical coordinate systems.
- Know the meaning of 4-vectors, Kronecker delta and Epsilon (Levi Civita) tensors.
- Study the origin of pseudo forces in rotating frame.
- Study the response of the classical systems to external forces and their elastic deformation.
- Understand the dynamics of planetary motion and the working of Global Positioning System (GPS).
- Comprehend the different features of Simple Harmonic Motion (SHM) and wave propagation.

SEMESTER I

COURSE TITLE: MECHANICAL PROPERTIES OF MATTER (PAPER 2 PRACTICAL)

COURSE OUTCOMES (COS)

• Experimental physics has the most striking impact on the industry wherever the instruments are used to study and determine the mechanical properties.

- Measurement precision and perfection is achieved through Lab Experiments.
- Online Virtual Lab Experiments give an insight in simulation techniques and provide a basis for modeling.

SEMESTER II

COURSE TITLE: THERMAL PHYSICS & SEMICONDUCTOR DEVICES (PAPER 1 THEORY)

COURSE OUTCOMES (COS)

- Recognize the difference between reversible and irreversible processes.
- Understand the physical significance of thermodynamical potentials.
- Comprehend the kinetic model of gases w.r.t. various gas laws.
- Study the implementations and limitations of fundamental radiation laws.
- Utility of AC bridges.
- Recognize the basic components of electronic devices.
- Design simple electronic circuits. 8. Understand the applications of various electronic instruments.

SEMESTER II

COURSE TITLE: THERMAL PROPERTIES OF MATTER & ELECTRONIC CIRCUITS (PAPER 2 PRACTICAL)

COURSE OUTCOMES (COS)

- Experimental physics has the most striking impact on the industry wherever the instruments are used to study and determine the thermal and electronic properties.
- Measurement precision and perfection is achieved through Lab Experiments.
- Online Virtual Lab Experiments give an insight in simulation techniques and provide a basis for modeling.

B.SC. MATHEMATICS [CERTIFICATE COURSE IN APPLIED MATHEMATICS]

PROGRAMME OUTCOME

❖ PO1: It is to give foundation knowledge for the students to understand basics of mathematics including applied aspect for the same.

- ❖ PO2: It is to develope enhanced quantitative skills and pursuing higher mathematics and research as well.
- ❖ PO3: Students will be able to develop solution oriented approach towards various issues related to their environment.
- ❖ PO4: Students will become employable in various govt. and private sectors
- ❖ PO5: Scientific temper in general and mathematical temper in particular will be developed in students.

PROGRAMME SPECIFIC OUTCOME

- ➤ PSO1: Student should be able to possess recall basic idea about mathematics which can be displayed by them.
- ➤ PSO2: Student should have adequate exposure to many aspects of mathematical sciences.
- ➤ PSO3: Student is equipped with mathematical modeling ability, critical mathematical thinking, and problem solving skills etc.
- ➤ PSO4: Student should be able to apply their skills and knowledge in various fields of studies including, science, engineering, commerce and management

SEMESTER I

COURSE TITLE: DIFFERENTIAL CALCULUS & INTEGRAL CALCULUS (PAPER 1 THEORY)

COURSE OUTCOMES (COS)

- CO1: The programme outcome is to give foundation knowledge for the students to understand basics of mathematics including applied aspect for developing enhanced quantitative skills and pursuing higher mathematics and research as well.
- CO2: By the time students complete the course they will have wide ranging application of the subject and have the knowledge of real valued functions such as sequence and series. They will also be able to know about convergence of sequence and series. Also, they have knowledge about curvature, envelope and evolutes and trace curve in polar, Cartesian as well as parametric curves.
- CO3: The main objective of the course is to equip the student with necessary analytic and technical skills. By applying the principles of integral he learns to solve a variety of practical problems in science and engineering.

 CO4: The student is equipped with standard concepts and tools at an intermediate to advance level that will serve him well towards taking more advance level course in mathematics.

SEMESTER I

COURSE TITLE: : **PRACTICAL** (**PAPER 2**)

COURSE OUTCOMES (COS)

• CO1: The main objective of the course is to equip the student to plot the different graph and solve the different types of equations by plotting the graph using different computer software such as Mathematica /MATLAB /Maple /Scilab/Maxima etc.

• CO2. After completion of this course student would be able to know the convergence of sequences through plotting, verify Bolzano-Weierstrass theorem through plotting the sequence, Cauchy's root test by plotting n th roots and Ratio test by plotting the ratio of n th and (n + 1)th term.

• CO3. Student would be able to plot Complex numbers and their representations, Operations like addition, substraction, Multiplication, Division, Modulus and Graphical representation of polar form.

 CO4: Student would be able to perform following task of matrix as Addition, Multiplication, Inverse, Transpose, Determinant, Rank, Eigenvectors, Eigenvalues, Characteristic equation and verification of the Cayley-Hamilton theorem, Solving the systems of linear equations.

SEMESTER II

COURSE TITLE: : MATRICES AND DIFFERENTIAL EQUATIONS & GEOMETRY

COURSE OUTCOMES (COS)

• CO1: The subjects of the course are designed in such a way that they focus on developing mathematical skills in algebra, calculus and analysis and give in depth knowledge of geometry, calculus, algebra and other theories.

• CO2: The student will be able to find the rank, eigen values of matrices and study the linear homogeneous and non-homogeneous equations. The course in differential equation intends to develop problem solving skills for solving various types of differential equation and geometrical meaning of differential equation.

- CO3: The subjects learn and visualize the fundamental ideas about coordinate geometry and learn to describe some of the surface by using analytical geometry.
- CO4: On successful completion of the course students have gained knowledge about regular geometrical figures and their properties. They have the foundation for higher course in Geometry.

B.SC. ZOOLOGY [CERTIFICATE COURSE IN MEDICAL DIAgnostics & Public Health]

PROGRAMME SPECIFIC OUTCOMES (PSOS)

- ➤ PSO1 This course introduces System Biology and various functional components of an organism. Emphasis will be on physiological understanding abnormalities and anomalies associated with white blood cells and red blood cells. The course emphasizes cell identification, cell differentiation and cell morphology evaluation procedures. This will enhance hematology analytical skills along with skill of using many instruments.
- ➤ PSO 2 The students will learn the basic principles of genetics and how to prepare karyotypes to study the chromosomes.
- ➤ PSO 3 How chromosomal aberrations are inherited in humans by pedigree analysis in families.
- ➤ PSO 4 The students will have hands-on training in the techniques like microscopy, centrifugation and chromatography, and various biochemical techniques, preparation of slides which will help them in getting employment in pathology labs and contribute to health care system.
- ➤ PSO 5 The Certificate courses will enable students to apply for technical positions in government and private labs/institutes.

SEMESTER I

COURSE TITLE: CYTOLOGY, GENETICS AND INFECTIOUS DISEASES (THEORY)

COURSE OUTCOME

The student at the completion of the course will be able to:

- Understand the structure and function of all the cell organelles.
- Know about the chromatin structure and its location.

To be familiar with the basic principle of life, how a cell divides leading to the growth

of an organism and also reproduces to form new organisms.

communicates with its neighbouring cells?

• Understand the basic principles of genetics and how genes (earlier called factors) are

inherited from one generation to another.

• Understand the Mendel's laws and the deviations from conventional patterns of

inheritance.

• Comprehend how environment plays an important role by interacting with genetic

factors.

How to detect chromosomal aberrations in humans and study the pattern of

inheritance by pedigree analysis in families.

SEMESTER I

COURSE TITLE: GENETICS AND INFECTIOUS DISEASES (LAB)

COURSE OUTCOME

At the completion of the course students will learn Hands-on:

• To use simple and compound microscopes.

• To prepare slides and stain them to see the cell organelles.

• To be familiar with the basic principle of life, how a cell divides leading to the growth

of an organism and also reproduces to form new organisms.

• The chromosomal aberrations by preparing karyotypes.

• How chromosomal aberrations are inherited in humans by pedigree analysis in

families

SEMESTER II

COURSE TITLE: GENETICS AND INFECTIOUS DISEASES

COURSE OUTCOME

The student at the completion of the course will learn:

To develop a deep understanding of structure of biomolecules like proteins, lipids and

carbohydrates

• How simple molecules together form complex macromolecules.

To understand the thermodynamics of enzyme catalyzed reactions.

Mechanisms of energy production at cellular and molecular levels.

- To understand systems biology and various functional components of an organism.
- To explore the complex network of these functional components.
- To comprehend the regulatory mechanisms for maintenance of function in the body.

SEMESTER II

COURSE TITLE: PHYSIOLOGICAL, BIOCHEMICAL & HEMATOLOGY (LAB) COURSE OUTCOME

The student at the completion of the course will be able to:

- Understand the structure of biomolecules like proteins, lipids and carbohydrates
- Perform basic hematological laboratory testing,
- Distinguish normal and abnormal hematological laboratory findings to predict the diagnosis of hematological disorders and diseases.

Graduation second and Third year are being conducted by Annual Aystem

PROGRAMME OUTCOME/ PROGRAMME SPECIFIC OUTCOME/ COURSE OUTCOME

PROGRAMME NAME- BACHELOR OF ARTS

PROGRAMME OUTCOME

- The Under graduate students with Arts stream emerge as sensitive and sensible individuals after their acquaintances with the fields of social sciences, literature and humanities.
- ❖ The Under graduate students with Arts stream are aware of social, economic, historical, geographical, political, cultural and literary life of the nation. Thus they develop a close communion with cultural identity of the country.
- ❖ The program prepares the under graduates for various competitive examinations and also for a career in the sphere of academics for which they move ahead with their masters degrees.
- ❖ The programme also inculcates human values in the aspirants and arms them for the future challenges of human life.
- ❖ The students with a Bachelor's Degree in Arts grow to be responsible citizens who are able to communicate their viewpoint effectively.

PROGRAMME NAME -MASTER OF ARTS

PROGRAMME OUTCOME

- ➤ The Post graduate students with Arts stream emerge as sensitive and sensible individuals after their profound probe into the fields of social sciences, literature and humanities.
- ➤ The Programme enables them to have deeper knowledge and develops dexterity for critical analysis in the subject chosen and thus paving the way for up gradation of knowledge
- ➤ The Post graduate students with Arts stream are aware of social, economic, historical, geographical, political, cultural and literary life of the nation. Thus they develop a close communion with cultural identity of the country through their specific subject.

- > The programme prepares the learners for various competitive examinations and also for a career in the sphere of academics for which they move ahead with their research oriented courses.
- ❖ The Post graduation also inculcates human values in the aspirants and arms them for the future challenges of human life.
- ❖ The Post graduate students are aspirants for masters' degree in a specific subject which prepares them for future research work in a specific field. Hence the programme in socials sciences and humanities also enables them to collect related data, be acquainted with various methods of data analysis, strive for findings and study them in the context of human life. It inculcate research oriented outlook.
- ❖ The Post graduation also prepares them to be more sensible and sentient citizens.

PROGRAMME SPECIFIC OUTCOME & COURSE OUTCOME

1 U.G. WITH HINDI LANGUAGE AND LITERATURE

PROGRAMME SPECIFIC OUTCOME:

- ❖ The Programme including a study of language and its grammatical construction equips the learners with writing skills as well as a deeper understanding of the growth and development of Hindi .
- ❖ Use of language as a means of creative expression through letters and editorial writings helps them attain writing and communication skills effectively.
- ❖ The Programme inculcates the spirit of understanding, enjoying and criticizing Hindi literature through critical analysis
- ❖ The learners come to know about the growth and development of various old and new forms of prose and poetry
- ❖ Under Graduate Programme with Hindi helps students comprehend how writers of different periods use their creative resources of language in fiction, poetry, prose, drama. The learners go through the literature of our renowned writers, their lives and contribution.
- ❖ This study makes them explore the entire range of human experience and provides a deeper insight into life establishing the significance of hindi in practical life also
- ❖ They will be able to move in the sphere of higher education and advance research in the field of language and literature.

COURSE OUTCOME

B.AII Paper-I	Understanding the development of Hindi through the
GEN HINDI -	study of its various forms, tracing the growth of
PRAYOJAN MOOLAK	Hindi as National language and the history of
HINDI KA SWAROOP	Devnagri script

D AH D H	TI 1 . I' C CIT' I'I
B.AII Paper-II	Understanding Grammatical aspect of Hindi language
GEN HINDI-	including Dhwani, Shabd and other concepts
ADHUNIK GADHYA	
VIDHAYEN	
B.AII Paper-I	Comprehending Hindi poetry of ancient and
HINDI LITT- ADHUNIK	medieval periods through the study of the famous
HINDI KAVYA	works of renowned Hindi Poets like Surdas,
	Kabirdas, Tulsidas, Bhushan etc.
B.AII Paper-II	Comprehending the growth of Hindi Drama through
HINDI LITT- HINDI	the study of the famous plays of Prasad and Mohan
KATHA SAHITYA	Rakesh as well as the one-act plays (Ekanki) of
	famous playwrights
B.AIII Paper-I	Comprehending Hindi poetry of modern age through
HINDI LITT-	the study of the famous works of renowned Hindi
ADHYATAN KAVYA	Poets like Prasad, Nirala, Pant and Mahadevi Verma
	etc.
B.AIII Paper-II	Comprehending Hindi Story and Novel writing
HINDI LITT- HINDI	through the study of the famous works of writers like
NIBANDH & ANYA	Premchand, Bhagvaticharan Verma and others
GADHYA VIDHAYEN	
B.AIII Paper-III	Comprehending Hindi poetry of post modern age
HINDI LITT- HINDI	through the study of the famous works of renowned
BHASHSA EVAM	Hindi Poets like Agyeya, Muktibodh, Nagarjun and
SAHITYA KA ITIHAS &	others
INDIAN	
KAVYASHASTRA	
	Comprehending Hindi essay and other prose forms
	through the study of the famous writers like Dwivedi,
	Vidhyanivas Mishra, Sharad Joshi and others
	Getting familiarised with the growth of Hindi
	language, accents, script, development of literature
	and Indian Poetics

2. U.G. WITH SANSKRIT

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with Sanskrit makes the students realize the ancient glory and richness of Sanskrit language and literature.
- Sanskrit is an apt medium to be familiar with ancient Indian history, culture, religion and social structure. It develops a strong conceptual framework regarding our ancient Indian culture and philosophy of life.

- ❖ The programme also enhances the communication skills in the language through reading, writing, listening and speaking. The knowledge of Devnagri script also helps the students comprehend other modern languages like Hindi.
- ❖ The rich literature of the past, Sanskrit Vyakaran, Natyashastra, Kavyashastra and other not only enrich the imagination of the students but also fill them with a sense of pride for their ancient glory.

The Course enlightens the students in following areas:

B.AII Paper-I	Comprehending Sanskrit drama, prose-poetry and
NATAK, GADHYA	poetics through the study of famous texts and the
KAVYA&	elements of drama
KAVYASHASTRA	
B.AII Paper-II	Comprehending elements of Sanskrit grammar,
VYAKARN, NIBANDH &	Sanskrit essay- writing and the history of Sanskrit
GADHYA NATYA	drama
SAHITYA KA ITIHAS	
B.AIII Paper-I	Comprehending Vedmanras through explanatory
VEDMANTRA,	study, translation of Sanskrit unseen passages in
APATHHITANSH &	Hindi and a comprehensive study of Indian Culture
INDIAN CULTURE	
B.AIII Paper-II	Comprehending Sanskrit drama through the study of
NATAK, VYAKARAN &	Uttarramcharitam, deeper understanding of Sanskrit
CHHAND	grammar and stanza forms
B.AIII Paper-III	Getting familiarised with the recent treds in Sanskrit
ADHYATAN SANSKRIT	literature through famous texts of prose, poetry and
SAHITYA	the history of literature

3. U.G. WITH ENGLISH LANGUAGE & LITERATURE

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with English helps students comprehend how writers of different countries and periods use their creative resources of language in fiction, poetry, prose, drama. The learners go through the literature of European countries and India in English language. This study makes them explore the entire range of human experience and provides a deeper insight into life.
- ❖ The study of literary history and critical theories makes them microscope the growth and development of language and literature over the ages and a systematic cognition of close relation with the growth of civilization.
- ❖ Use of language as a means of creative expression through writing short stories and editorial writings helps them attain writing and communication skills effectively.

- ❖ The study of literature of different countries of the concurrent world sensitizes the learners on issues like gender, environment and eco- criticism, marginalized communities etc.
- ❖ The Programme including a study of language and its grammatical construction equips the learners with writing skills for various styles and it also enables them to learn the official documents like letters, contracts, tenders and notices, advertisements etc. The learning of language also becomes an effective means of communication.
- ❖ They will be able to move in the sphere of higher education and advance research in the field of language, literature and cultural theory.
- ❖ The programme also enhances the communication skills in the language through reading, writing, listening and speaking

D AII Donon I	Learning language through toytual studies like
B.AII Paper-I	Learning language through textual studies like
GEN ENG- TEXT	essays and a Novella- Animal Farm
B.AII Paper-II	Developing writing skills for correct and effective
GEN ENG- WRITING	use of language
SKILLS	
B.AI Paper-I	Comprehending various poetic forms, stanza patterns
ENG LITT POETRY	and growth of poetry through the study of the famous
	Poems of renowned English Poets like Shakespeare,
	Milton, Wordsworth and others
B.AI Paper-II	Comprehending various prose forms and styles
ENG LITT PROSE	through the essays of well known essayists of English
	Literature like Bacon, Gardiner, Chesterton and
	others
B.AII Paper-I	Comprehending theory, forms and the development
ENG LITT DRAMA	of English drama through the famous plays of
	Shakespeare, Congreve and G. B. Shaw
B.AII Paper-II	Comprehending theory, forms and the development
ENG LITT NOVEL	of English fiction through the famous novels of Jane
Erio Erii. Iio i EE	Austen, Thomas Hardy and Charles Dickens
	Trasten, Thomas Traray and Charles Brokens
B.AIII Paper-I	Mapping the development and growth of English
ENG LITT LITERARY	Literature through the study of literary movements
MOVEMENTS &	and literary history
LITERARY DEVICES	and morary motory
B.AIII Paper-II (A) optional	Getting familiarised with Prose, Poetry, Drama and
ENG LITT- INDIAN	Novel produced by the Indian writers (Nissin
WRITING IN ENGLISH	Eziekel, Nirad C. Chaudhary, Dattani Anand etc.)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	writing in English
	witting in Diignon
B.AIII Paper-III (B)optional	Learning Indian Literature of prominent Indian
ENG LITT-	Writers like Prasad, Gandhi, Jainendra and Mohan
ENGLISH LITERATURE	Rakesh through the Translation of their works into
ENGLISH LITERATURE	Nakesh undugh the franslation of their works into

THROUGH	English Language
TRANSLATION	
B.AIII Paper-III	Getting familiarised with Prose, Poetry, Drama and
ENG LITT-	Novel produced by the writers like Chris Wallace,
NEW LITERATURES IN	Albee, Atwood and Alice Walker etc. writing in
ENGLISH	English as the components of New Literatures in
	English
	-

4. U.G. WITH ECONOMICS

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with Economics helps students comprehend economic conditions of the world as well as that of the country.
- ❖ The programme with Economics will enable them to understand economic vocabulary, theories and concepts, methodologies, tools and analysis procedures.
- ❖ Students will be familiarised with the knowledge and application of micro and macre economics for the formulation of policies and planning.
- ❖ As the programme includes areas like statistics, mathematics and economic principles, it enables the learners to assess the real situation of the economy including the size and changes of population, income pattern, growth and development with pattern of savings and investments and social security measures adopted in the country.
- ❖ The students will be able to recognise the roles and responsibilities of businessmen, entrepreneur, managers, consultant, which will help them to adopt skills in these areas.
- ❖ They will be able to move in the sphere of higher education and advance research in the field of Economics, commerce and finance.

COURSE OUTCOME

B.AII Paper-I	Comprehending National Income Analysis, Money
NATIONAL INCOME	and Banking including Indian Market and Foreign
ANALYSIS, MONEY &	Exchange
BANKING	
B.AII Paper-II	Studying Public Finance through understanding
PUBLIC FINDANCE	Govt. Budget, Expenditure and Fiscal Policy; terms
AND INTERNATIONAL	and theories of International Trade
TRADE	
B.AIII Paper-I	Understanding Economics of less developed
ECONOMICS OF LESS	countries, analysing their problems, policies,
DEVELOPED	development and planning with a vision to equitable
COUNTRIES	world economy
B.AIII Paper-II (A)	Comprehending Economic Policy of India including
ECONOMIC POLICY OF	Industrial, Agricultural and Trade policies
INDIA	_
B.AIII Paper- II (B)	Studying Quantitative Methods like Algebra and

Quantitative Methods	Calculus for the analysis of statistical data
B.AIII Paper-III History of Economic Thought	Study of the History of Economic Thought including Classical and Neo- Malthusian

5. U.G. WITH HISTORY

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with History helps students to update themselves with the tradition and heritage of their own country and the others along with developing ethical and social values and a sense of the past.
- ❖ It prepares them for the competitive exams like Civil Services Exam and SSC along with helping them chose a career in academics. Those interested in research may also chose archaeology as their career.
- ❖ It helps them map the social, political, religious and economic conditions of the country and world in various periods of history.
- ❖ The programme also exhorts them for collection of ancient coins, artefacts etc. And visit to various places of historical significance which nurtures the development of skills for getting jobs in museum, archives and libraries.
- * History, through instilling a patriotic fervour, raises the students as sensitive citizens.

COURSE OUTCOME

B.AII Paper-I	Comprehending the related history of the given
POLITICAL HISTORY	period through Archaeological literary and historical
OF MEDIEVAL INDIA	sources and Historiography
FROM 1526 TO 1740 A.D	
B.AII Paper-II	Understanding history of Europe through the study of
HISTORY OF EUROPE	various revolution and wars
FORM 1789 TO 1870 A.D	
B.AIII Paper-I	Understanding history of Modern India from the
POLITICAL HISTORY	advent of Europeans to the Vision of New India
OF MODERN INDIA	
FORM 1740 TO 1964 A.D	
B.AIII Paper-II	Understanding history of Europe through a study of
HISTORY OF EUROPE	two World Wars and successive Cold War
FROM 1871 TO 1950 A.D	
B.AIII Paper-III	Studying the History of Indian Culture from Indus
HISTORY OF INDIAN	Valley Civilization to the Colonial Era
CULTURE	

6. U.G. WITH GEOGRAPHY

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with Geography familiarises the students with geographical phenomenon like different kids of landforms, geographical position of places, flora and fauna etc.
- ❖ It will enrich the learners with knowledge about physical Geography, climate and impact of climatic changes on human life, environmental issues, significance of climate and environment for maintaining biodiversity in different regions, natural resources and their management and so on
- ❖ The students will also gather information about other related issues of human life like causes and consequences of growth of population in various geographical conditions
- ❖ The programme will also familiarise the students with map studies, interpreting statistical data, space technologies like Satellite images and Aerial photographs model building and GPS system etc.
- ❖ The students will learn survey work with tools like prismatic compass and plane table.
- ❖ The learners will also be acquainted with geo-political issues of the world.

COURSE OUTCOME

B.AII Paper-I	Comprehending Nature, Scope and development of
ECONOMIC	Economic Geography, Soil and Forest types, Marine
GEOGRAPHY	resources and Aquaculture, Location factors of
	Industries, Means of transport
B.AII Paper-II	Understanding India in the context of Asia and the
GEOGRAPHY OF INDIA	world, Forest resources, Indian Economy,
	Population-growth, distribution and density,
	demographic and occupational structure, Regional
	development & disparities after independence and
	Detailed geographical study of Gangetic Plain with
	special reference to Rohilkhand Region.
Lab Work-	Statistical Analysis, Measures of Central Tendency,
PRACTICALS	Cartographic Representation of Statistical Data,
	Weather Maps, Aerial Photogrammetric and Remote
	Sensing
B.AIII Paper-I	Understanding The field of geography; its place in
GEOGRAPHICAL	the classification of sciences, Dualisms in geography
THOUGHT	,Geography in ancient period, German school of
	thought, Soviet geographers and American school
B.AIII Paper-II	Understanding Geography as a study of Environment,
ENVIRONMENTAL	The problems and causes of environmental
STUDIES	degradation, Environmental management, Sample
	studies and Emerging environmental issues
B.AIII Paper-III	Region as a geographical entity and as a component

REGIONAL STUDIES	of global system, Structure, Population, Strategic
OF ANY ONE OF THE	importance of the region, detailed regional study of
FOLLOWING REGIONS	some selected regions
(A) SOUTH WEST ASIA	
(B) SOUTH EAST ASIA	
(C) FAR EAST ASIA	
Lab Work-	Plane table Surveying, Surveying by Prismatic
PRACTICALS	Compass, open traverse, Close traverse, Elimination
	of error. Bowditch Method, Use of Sextant or Indian
	clinometers

7. U.G./ P.G. WITH POLITICAL SCIENCE

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with Political Science familiarises the students with the contribution of European and Asian political thinkers on political thought
- ❖ The Programme will familiarise the learner with world politics as well as dynamics of Indian politics and political theory
- ❖ The learners will be able to understand role and significance of various kinds of governing systems around the world, the role of political parties in democratic set up, relations and conflicts among states as well as centre-state relationship
- ❖ The awareness about human and constitutional rights along with a probe into the fundamentals of Indian Constitution is also imperative
- ❖ The learners will also be acquainted with international relationship and different forms of government in other countries at the P.G level
- ❖ The post graduation programme will also acquaint them with foreign policies of dominant countries of the world and international law
- ❖ With all the significant knowledge the learners will be able to understand sociopolitical, economic and constitutional environment will enable them to grasp the functioning of Indian Administration, thus making them edified citizens.

COURSE OUTCOME

B.AII Paper-I	An acquaintance with Plato, Aristotle, Cicero,
AN OUTLINE HISTORY	Machiavelli, Rousseau, Karl Marx and other
OF WESTERN	prominent thinkers of Europe as well as a study of
POLITICAL THOUGHT	Main characteristics of Medieval Political Thought
B.AII Paper-II	Understanding the formation and functioning of the
COMPARATIVE	Governments of U.K., U.S.A., Switzerland and
GOVERNMENT	France
B.AIII Paper-I	Understanding nature and scope of Public

PRINCIPLES OF	Administration, Bases of Organization, Agencies and
PUBLIC	Commissions and Personnel Administration
ADMINISTRATION	
B.AIII Paper-II	Understanding Indian Political thought through the
INDIAN POLITICAL	study of ancient thinkers like Manu, thinkers of
THOUGHT	Indian Renaissance, leaders of National Movement
	and post Independence thinkers
B.AIII Paper-III	Studying Nature and Scope of International Politics,
INTERNATIONAL	Theories and Approaches, The Modern State
POLITICS	System, Arms Control and Disarmament,
	International Law, Global Organization etc.
M.AI Paper-I	A profound Study of the History of political through
HISTORY OF	mapping the views of Plato, Aristotle, Cicero,
POLITICAL THOUGHT	Machiavelli, Rousseau, Karl Marx and other
(From Plato to Marx)	prominent thinkers of Europe
M.AI Paper-II	A Detailed Study of comparative politics though a
COMPARATIVE	comparative analysis of the political system,
POLITICS AND	constitutionalism and pressure groups of
INSTITUTIONS	U.K.,U.S.A., Switzerland and France
M.AI Paper-III	A profound Study of the Indian Constituent
GOVERNMENT AND	Assembly, Indian Political System, Central and State
POLITICS OF INDIA	Govt. And Social Foundations of Indian Politics
M.AI Paper-IV	A detailed Study of the Nature, Scope, Significance
INTERNATIONAL	and Approaches to International Politics, related
POLITICS	theories and ideologies
M.AII Paper-I Compulsory	A profound understanding of the meaning,
FOREIGN POLICIES OF	objectives, determinants and approaches to Foreign
U.S.A.,U.K.,CHINA AND	Policy in context with the Foreign policies of
INDIA Three entional papers from	U.S.A., U.K., China and India
	Group A- Political Theory, Group B- International rument and Politics . the following papers from Group
B are being taught in the college - Student can also opt for Dissertation on International Politics and Area Studies as one optional paper	
M.AII Paper-II	A profound understanding of the nature, scope,
INTERNATIONAL LAW	sources, basis, history and development of
	International Law and its emerging trends with an
	eye on the laws of war, peace, neutrality and other
	trends
M.AII Paper-III	A profound understanding of the nature, scope,
INTERNATIONAL	sources. history and development of International
ORGANIZATIONS	Organizations- The League of Nations, The United
	Nations Organizations and others, Prospects of
	World Govt.
M.AII Paper-IV	A detailed Study of the Political Systems, Governing
INDIA'S NEIGHBOURS	Bodies, Political Parties and Pressure Groups, Major
IN WORLD POLITICS	Problems and compulsions of the Foreign Policies of
	India's neighbours Pakistan, Bangladesh, Bhutan,
	Nepal and Sri Lanka
M.AII Paper-V	An drive to test the practical understanding of the
VIVA-VOCE	subject through internal and external assessment and

interaction

8. U.G. /P.G. WITH SOCIOLOGY

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with Sociology familiarises the students with the fundamentals of sociological thought and basics of sociology
- ❖ The programme acquaints the learners with distinct features of Indian Society, its emergence through ages, characteristics of Indian cultural including unity in diversity
- ❖ The programme also enlightens the students about Indian social structure, Indian caste system- its impact and consequences, understanding rural, urban and tribal India.
- ❖ The P.G. Programme also prepares the students for social research, probing various social sciences, their relation to sociology, understanding research methodology, essentials of data collection, field studies, making research projects, data analysis using statistical concepts and so on
- ❖ The P.G programme also focuses on studying development theories, understanding industrial problems, population analysis, issues of caste and gender, applications of sociological concepts etc.
- ❖ The U.G. and P.G. programmes enable the students to be sensible citizens who are well versed with various social issues and striving for the way out of the social problems

COURSE OUTCOME

B.AII Paper-I INDIAN SOCIETY:	\mathcal{E}
ISSUES AND	sociological perspective, classifying them into four
PROBLEMS	sets: structural, familial development and
	organizational
B.AII Paper-II	The course is designed to achieve all aspect of social
SOCIAL CHANGE AND	change as well as of Social Control through
SOCIAL CONTROL	sociological perspective and theoretical study
B.AIII Paper-I	to familiarize the students with the social, political,
FOUNDATIONS OF	economic and intellectual contexts in which
SOCIOLOGICAL	sociology emerged as a distinctive discipline.
THOUGHT	
B.AIII Paper-II	to provide an understanding of the nature of social
SOCIAL RESEARCH	Phenomena, the issues involved in social research
METHODS	and the ways and means of understanding and
	studying social reality through quantitative and
	qualitative research
B.AIII Paper-III	the students are introduced to some of the Pioneers of
PIONEERS OF INDIAN	Indian Sociology, their thoughts and contribution
SOCIOLOGY	

M.AI Paper-I Compulsory CLASSICAL SOCIOLOGICAL TRADITION M.AI Paper-II Compulsory METHODOLOGY OF SOCIAL RESEARCH M.AI Paper-III Optional	A profound theoretical insight into the writings of Karl Marx, Emile Durkheim, Max Weber, Vilfredo Pareto to understand Historical, socio- economic background for the emergence of sociology To provide a deep understanding of the nature of social Phenomena, the issues involved in social research, its philosophical roots, studying social reality through quantitative and qualitative research and use of statistics. Providing sociological understanding of rural social
RURAL SOCIETY IN INDIA	structure, change and development in India and imparting sociological skills to reconstruct rural community and peasantry
M.AI Paper-IV Optional SOCIOLOGY OF MARGINALISED COMMUNITIES The students can also opt for	Sensitizing students to the poverty, deprivation and discrimination of Dalits, tribals and nomadics. Role of ideologies of social reformers, social movements and actions taken the papers entitled Gender and Society/ Environment
	A profound understanding of the substantive, theoretical and methodological issues that shaped the sociological thought in the later half of the 20th century like structural functionalism, structuralism and post- structuralism, conflict theory and other recent trends
M.AII Paper-II Compulsory PERSPECTIVES ON INDIAN SOCIETY	Conceptualizing Indian society and a profound understanding of the diversity and interconnectedness of the theoretical perspectives on Indian society
M.AII Paper-III Optional URBAN SOCIETY IN INDIA	Providing sociological understanding of urban social structure, change and development in India and imparting sociological skills to reconstruct urban social environment
M.AII Paper-IV Optional POLITIOCAL SOCIOLOGY	A detailed Study of the Democracy and other Political Systems, theories of Distribution of power, Pressure groups role and status as a citizen of India etc.
1	the papers entitled Sociology of Ageing / Industry and of Indian Diaspora/ Problems Oriented Project Report al papers
M.AII Paper-V VIVA-VOCE	An drive to test the practical understanding of the subject through internal and external assessment and interaction

9. U.G. / P.G.WITH HOME SCIENCE

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with Sociology familiarises the students with the significance of balanced diet and nutrition, health and hygiene, home management, entrepreneurial skills and development of the individual through domestic well being.
- ❖ The programme prepares the learners for acquiring professional skills through the use of handicrafts and other small business activities like catering, Tiffin service etc. And thus contributing to the economic status of the family
- ❖ The P.G. programme also enables the students for choosing a career in the sphere of dietetics and nutrition; the U.G. students can move into the field through related diplomas.
- ❖ The P.G. programme also opens vistas in the sphere of home decor and interior decoration through advanced studies in the area.
- ❖ The Programme at U.G. and P.G. levels develops skills like textile designing, product making, marketing the products through small scale ventures and thus paves the way for self-dependence.
- ❖ If these skills aren't used for professional life, they prepare skilled individual for successful home making
- ❖ The P.G. Programme also prepares the students for research, probing various social sciences, their relation to Home Science, understanding research methodology, essentials of data collection, field studies, making research projects, data analysis using statistical concepts and so on

B.AII Paper-I	This course is designed to understand functions of
FUNDAMENTAL OF	food and role of nutrients in human body,
FOOD & NUTRITION	constituents of food and other related issues
B.AII Paper-II	The course enlightens about the development of a
HUMAN	child, parenting period, growth from birth to
DEVELOPMENT	adolescence, personality making and other essentials
	of human growth
PRACTICAL & VIVA-	Nutrition during pregnancy, lactation and different
VOCE	ages from childhood to old age, recipe and menu,
	educational material for children up to 5
B.AIII Paper-I	to familiarize the students with the basic knowledge
INTRODUCTION TO	of textiles, selection of appropriate fabric, clothing
TEXTILES &	for various purposes and age groups, clothing
CLOTHING	construction etc.
B.AIII Paper-II	to provide an understanding of the nature of
EXTENSION &	Extension for sharing knowledge and improving
COMMUNICATION	relationships, Extension Education and methods of
	approaching people
PRACTICAL & VIVA-	Tie & Die, Block painting, stencil printing paper
VOCE	pattern of Bodice Block and audio-visual aids for a
	child
M.AI Paper-I	A profound theoretical insight into the advanced

ADVANCED FOOD &	functions of food and role of nutrients in human
NUTRICIAN	body, constituents of food and other related issues
M.AI Paper-II	to provide a deep understanding of the dietetics and
DIETECTICS	nutrition for the people of different age groups and
	situations
M.AI Paper-III	Providing understanding of research methods, its
RESEARCH METHODS	philosophical roots, studying social reality through
AND STATISTICS	quantitative and qualitative research and use of
	statistics.
M.AI Paper-IV	Sensitizing students to the management of resources
RESOURCE	in the family for achieving family goals, housing
MANAGEMENT	needs and the concept of interior decoration based
	on elements of art, human resource management for
	advanced purposes
PRACTICAL & VIVA-	All the four papers also carry practical works related
VOCE	to the given topics
M.AII Paper-I	to familiarize the students with the advanced
TEXTILE	knowledge of textiles, manufacture, catering and
MENUFACTURE,	processing etc.
CATERING AND	processing etc.
PROCESSING	
M.AII Paper-II	to familiarize the students with the advanced
ADVANCED CLOTHING	knowledge of, selection of appropriate fabric,
CONSTRUCTION	clothing for various purposes and age groups,
CONSTRUCTION	clothing construction etc.
M.AII Paper-III	Providing understanding of consumer economics,
CONSUMER	principles and other related issues
ECONOMICS	principles and other related issues
M.AII Paper-IV	A detailed and profound study of the development
ADVANCED CHILD	· · · · · · · · · · · · · · · · · · ·
	of a child, parenting period, growth from birth to
DEVELOPMENT	adolescence, personality making and other essentials
DD A CITICAL O VIVIA	of human growth
PRACTICAL & VIVA-	All the four papers also carry practical works related
VOCE	to the given topics

10. U.G. / P.G.WITH MUSIC

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with Music learn source and origin of Indian Music, the theoretical and practical aspect. The characteristics and practical performance of various Ragas enrich the students with elegance of classical music
- ❖ The P.G. programme also prepares the learners for practical demonstration and stage presentation
- ❖ Through the notation system the students also learn the technicalities of composition
- ❖ The students are also familiarised with Hindustani and Carnatic Music styles, the lives and contribution of the great Musicians of both the forms, the development of Indian Music and famous Gharanas

- ❖ They also come across with the subtlety of Tal, laya and Dhwani and other terminologies of Indian music
- ❖ After the completion of P.G. Programme the learners are capable of choosing the stream as their profession and thus can move ahead either in the area of related research or learn professional skills.
- ❖ The Programmes uplift the young minds and instil into them a cultural sensitivity

D AH Danan I	Th
B.AII Paper-I THEORY PAPER	Theoretical study of prescribed Ragas & Talas,
THEORY PAPER	notation and layakaris, Bhatkhande & Vishnu
	Digamber styles, study of other technical terms, short
	history of music and classification of ragas
B.A II Paper-II	Composition of the prescribed ragas, intensive study
PRACTICAL PAPER	and demonstration of one chosen Raga and skill in
1 & 2	others also
B.AIII Paper-I	Theoretical study of prescribed Ragas & Talas,
THEORY PAPER I	notation and layakaris, study of other technical terms,
	musical compositions and swaras
B.AIII Paper-II	Theoretical study of few more technical terms,
THEORY PAPER II	musical intervals, , study of different schools
	(gharanas), famous sangeet granthas and contribution
	of authors and musicians
B.A III Paper-III	Composition of all the prescribed ragas, intensive
PRACTICAL PAPER	study and demonstration of one chosen Raga and
1 & 2	skill in others also
M.AI Paper-I	A profound theoretical insight into the General
AESTHETICS &	principles of Aesthetics applied to Music, place of
SCIENCE OF MUSIC	Music among fine arts, features of emotional
	expressions, Rasas, Chhand, rythmic patterns,
	Gomaks and Kaku
M.AI Paper-II	to provide a deep understanding of the Historical
HISTORY OF MUSIC	development of Music through tracing contribution
(Medieval- 1200-1800)	of great musicians, an insight into Swara and Ragas
(Wicule vai- 1200-1000)	and other related issues
VIVA-VOCE & STAGE	Practical performance of various . compositions like
PERFORMANCE	Khyal and Dhruvpad etc in prescribed ragas
M.AII Paper-I	to familiarize the students with the characteristics of
APPLIED THEORY OF	Ragas, composition and notation, Notation systems,
MUSIC	•
MUSIC	Shruti, comparative study of Hindustani and Karnatak music
MAHDanau	
M.AII Paper-II	to familiarize the students with different musical
MODERN HISTORY OF	forms of composition, Karnatak forms of Music,
MUSIC	study of Indian vocal and instrumental music,
	significance of group singing and biographies of

	famous musicians
VIVA-VOCE & STAGE	Practical performance of various compositions like
PERFORMANCE	Khyal and Dhruvpad etc. In other prescribed ragas

11. U.G. WITH PSYCHOLOGY

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with Psychology equips the students with comprehension of human Psychology, the subtleties of human behaviour and its effect on social life
- ❖ The learners are also familiarised with applications of Psychological doctrines to human life and its problems
- ❖ Understanding human behaviour and its complexities helps the students find out solutions to the practical human problems in a sensible manner
- ❖ The learners also get acquainted with fundamentals of Psychology, various psychological theories like Psychoanalysis, Psychology of Learning, Abnormalities of human behaviour and so on
- ❖ They are also trained to use various tests like intelligence test on the subjects and study the methods of data analysis, formation of statistical data and method of interpretation
- ❖ Understanding of the emergent properties of brain and nervous system- central nervous system, peripheral nervous system and autonomic nervous system.
- ❖ The students of the programme emerge as sensitive individuals who contribute to the betterment of society

COURSE OUTCOME

B.AII Paper-I	Providing introduction of Psychopathology, mental
PSYCHOTHERAPY	illness, stress and psychosomatic disorders, anxiety
	and somatoform disorders, psychotic, mood and
	personality disorders
B.AII Paper-II	Detailed understanding of social behaviour,
SOCIAL PSYCHOLOGY	socialization and perceiving others and groups,
	interpersonal attractions and attitude, group dynamics
	and leadership, communication, aggression and
	helping behaviour
PRACTICAL	The students will also perform prescribed practical
	work like attitude scale, test of aggression, anxiety,
	stress etc.
B.AIII Paper-I	Understanding techniques, levels and errors of
MEASUREMENT &	measurement, test construction, research design and
STATISTICS	distribution, hypothesis testing etc.
B.AIII Paper-II	Understanding introduction to counselling,

COUNSELLING &	perspectives and types, counselling processes and
GUIDANCE	areas, guidance, types and testing techniques
B.AIII Paper-III	Out of these three optional papers a student can opt
(A) ORGANIZATIONAL	for one -
BEHAVIOUR	(A) Understanding organizational behaviour,
	training, motivation, job satisfaction and stress.
	Human engineering, accident and safety etc.
(B) HEALTH	(B) Understanding health psychology, health and
PSYCHOLOGY	stress management, illness and future challenges etc.
(C) ENVIRONMENTAL	(C) Understanding Environmental Psychology,
PSYCHOLOGY	theories and research, Ecology and stress, effect on
	behaviour and crowding etc.
PRACTICAL	The students will also perform prescribed practical
	work and submit the survey report

12. U.G. WITH DRAWING & PAINTING

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with Drawing & Painting enlightens the learners in basic principles of design and colour and the ability to apply them aesthetically
- ❖ It inculcates in them the ability to synthesize the use of drawing, two-dimensional design, and colour patterns with theoretic studies
- ❖ The learners also able to gain skill in the use of tools and techniques related to the fine art
- ❖ They also learn to draw and colour pictures and portraits of various types, shading and sketching, direct painting form objects etc.
- ❖ The learners are also familiarised with various kinds on Indian arts and paintings like Madhubani
- ❖ The Programme breeds individuals with fine sensibility towards arts and culture.

COURSE OUTCOME

B.AII Paper-I	Comprehending Primitive art with reference to
HISTORY OF INDIAN	Indian Painting, Buddhist Art, Medieval Art,
PAINTING (PRIMITIVE	Rajasthani Style, Mughal School and Pahari School
ART AND IST	
CENTURY TO 17TH	
CENTURY A.D.)	
B.AII Paper-II	Copy from Old Masters (One figure
PRACTICAL	composition),Cast Study Bust/Antique/Life
B.AIII Paper-I	Understanding Definition and Meaning of Art. Six

PHILOSOPHY OF ART	Limbs of Indian paintings (Shadang), Philosophy of
AND MODERN INDIAN	Art, Modern Art in Indian Painting (from 18th
PAINTING (18TH	Century up to present age), New Trends in Modern
CENTURY AD UPTO	Indian paintings and Contemporary Indian Painting
PRESENT AGE)	after Independence up to present age.
B.AII Paper-II	Pictorial composition (with minimum two human
PRACTICAL	figures, Portrait Study (Coloured) or Life Study
	Sketching

13. U.G. WITH PHYSICAL EDUCATION

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with Physical Education helps the students acquire fundamental knowledge of Physical Education, its significance and scope
- ❖ It develops their practical skill and familiarises them with theoretical aspect, thus developing their personality
- ❖ The learners are also acquainted with various kinds of National and International sports, their growth and technicalities
- ❖ They also come across with anatomy and Physiology of various organs
- ❖ The learners also become familiar with Indian Institutes of Physical Education, their functioning and objectives
- ❖ The learners gain skills to communicate effectively and acquire efficiency for entering B.P.Ed., M.P.Ed., and other such programmes

COURSE OUTCOME

B.AII Paper-I	Comprehending Anatomy and Physiology of
ANATOMY &	Exercise, Skeletal and Muscular System,
PHYSIOLOGY IN	Respiratory and Digestive System and Circulatory
PHYSICAL EDUCATION	System and Blood
B.AII Paper-II	Understanding Health and Health Education,
HEALTH EDUCATION	Nutrition and balanced diet, effects of Drugs and
	Tobacco. First Aid, Communicable Diseases, Posture
	& Concept
PRACTICAL	Athletics (Proficiency, Track events, Rules &
	regulations) (ii) Select any two games, one from
	each prescribed group of the (Proficiency, Rules &
	regulations)
B.AIII Paper-I	Understanding about nature and scope of Psychology.
PSYCHOLOGICAL	Need and importance of Sports Psychology, Growth
FOUNDATIONS OF	& Development, Physical, mental, social and

PHYSICAL EDUCATION	Language development during following stages,
	Learning, Motivation, Emotion and Personality
B.AIII Paper-II	Understanding Sports injuries, Prevention of Injuries,
ATHLETIC INJURIES &	Common sports injuries and their immediate
REHABLITATION	treatment, Rehabilitation, Therapeutic Exercises,
	Sports Massage and Common massage technique and
	their therapeutic uses.
PRACTICAL	Athletics (Proficiency, Track events, Rules &
	regulations) (ii) Select any two games, one from
	each prescribed group of the (Proficiency, Rules &
	regulations)

PROGRAMME NAME- BACHELOR OF SCIENCE

PROGRAMME OUTCOME

- ➤ The Under graduate students with Science stream attain scientific temperament and outlook to the problems of life
- ➤ The Programme equips the learners with a scientific approach including observation, precision, analytical skill, logical thinking, clarity of thought and systematic working.
- ➤ The programme prepares the under graduates for various competitive examinations and also for a career in the sphere of academics for which they move ahead with their masters degrees.
- ➤ The Programme also enables the aspirants to collect information, frame a viewpoint, solve the problems scientifically and express their view effectively.
- ➤ This programme prepares the learners to enter diverse fields such as science-education, engineering, industries, survey, banking, planning, business, public service, etc. efficiently.

PROGRAMME NAME- MASTER OF SCIENCE

PROGRAMME OUTCOME

- ➤ The Post graduate students with Science stream attain profound relevant scientific temperament and outlook to the problems of life with up gradation of their knowledge
- ➤ The Programme equips the learners with a scientific approach including observation, precision, analytical skill, logical thinking, clarity of thought and systematic working in the related field.
- > The programme prepares the under graduates for various competitive examinations and also for a career in the sphere of academics for which they move ahead with their research oriented outlook.
- ❖ The Post graduate students are aspirants for masters' degree in a specific subject that provides them the ability to apply knowledge to perform project works scientifically, to analyze and solve problems, evaluate situations scientifically and express their view effectively. Thus it prepares them for future research work in a specific field and studying the findings in the context of human life. It inculcate research oriented outlook.
- ❖ The Post graduation also prepares them to be more sensible and sentient citizens.

1. U.G. /P.G.WITH BOTANY

PROGRAMME SPECIFIC OUTCOME:

- Under Graduate Programme with Botany helps the learners comprehend basic concepts of the subject cell biology, Systematics, Biochemistry, Biotechnology Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological studies of plants
- ❖ The programme at U.G. and P.G. level equips students with subject domain knowledge and technical skills pertaining to plants in a holistic manner. The learners are familiarised with and gain mastery over the knowledge related to Plant relationship with water, Plant Diversity and its importance in the maintenance of ecological balance
- ❖ Students learn to carry out practical work, in the field and in the laboratory, interpreting plant morphology and anatomy, Plant identification, Vegetation analysis techniques etc.
- ❖ The aspirants learn to use their attained knowledge for applications in human life and society through addressing health, environmental issues, food scarcity etc

- ❖ They attain competence for various analytical and technical skills related to plant sciences.
- ❖ The learners at P.G. level are capable of undertaking research projects using various tools and techniques in plant sciences and develop scientific temperament.

B.SC. II PAPER I DIVERSITY OF ANGIOSPERMS: SYSTEMATICS, DEVELOPMENT & REPRODUCTION	This paper highlights General features, Principles of classification and Diversity of Angiosperms: Systematics, Development & Reproduction
B.SC. II PAPER II CYTOLOGY, GENETICS, EVOLUTION & ECOLOGY	Students will gain better knowledge of Cell structure, cell organelles, Cell division etc., Genetics, laws of inheritance and related issues, Mutation, Ecology, relation with other disciplines. Plant types etc.
B.SC. II PAPER III PLANT PHYSIOLOGY AND BIOCHEMISTRY	Students will attain a better insight into Plant and water relationship, Mineral nutrition, Photosynthesis and Chemosynthesis, Respiration, Nitrogen metabolism, Biomolecules, Discovery and nomenclature.etc.
B.SC. III PAPER I PLANT RESOURCE UTILIZATION, PALYNOLOGY AND BIOSTATISTICS	Students will gain an insight into A general account of plants, Conservation of plants resources for a riculture and forestry, An introductory knowledge to palynology, morphology, viability and germination of pollens, Classification of data etc.
B.SC. III PAPER II MOLECULAR BIOLOGY AND BIOTECHNOLOGY B.SC. III PAPER III ENVIRONMENTAL	Students will gain better knowledge of Nucleic acid as genetic material, Structure and properties polysaccharides, aminoacids, proteins, etc., Replication of DNA in prokaryotes and enkaryotes, g and other related topics, Introduction to biotechnology etc. Students will gain Introductory knowledge of Mineral resources of planet earth, Environmental pollution, Biodiversity and
BOTANY AND PLANT PATHOLOGY	Phytogeography, Etiology of viral, bacterial, fungal and insect- pest diseases etc., Integrated pest disease management

PHYCOLOGY & MICRO- BIOLOGY	inter-relationship, range of structure and organization, sexuality, pigments and hormones and economic importance of Algae general features of algal classes, detailed study of bacteria, actinomycetes, slime moulds, viruses, rickettssia, microplasma, cancer biology and host microbes,
M.SC. I PAPER II MYCOLOGY & PLANT- PATHOLOGY	The paper provides a profound knowledge of general feature, classification and phylogeny of fungi, comparative structure, reproduction and phylogeny of prescribed taxa, antibiotics and lichens, plant diseases- symptoms and control measures etc.
M.SC. I PAPER III BRYOPHYTES PTERIDOPHYTES & GYMNOSPERMS	Students will gain deep knowledge of general feature, classification and fossil history of Bryophytes, comparative morphology, anatomy and reproduction of prescribed taxa, general feature, classification, comparative morphology, anatomy and reproduction, affinities and phylogeny of prescribed Pteridophytes & Gymnosperms
M.SC. I PAPER IV PLANT PHYSIOLOGY & CROP PHYSIOLOGY	The paper is an in-depth study of general Plant Physiology, soil- water relation, mineral element, growth and development, reproductive Physiology etc., general features, principles and processes of Crop Physiology, poor harvest Physiology, stress Physiology, weed control etc.
M.SC. I PAPER V CYTOLOGY & MOLECULAR BIOLOGY	Students will gain deep knowledge of history & techniques of Cytology, ultra structure, chromosomes, cell study etc., Chemistry and biosynthesis of DNA and RNA, transcriptional control, introduction of genetic material into cells etc.
PRACTICAL	The learning of the students will be strengthened through various practical related to theoretical studies
M.SC. II PAPER VI MORPHOLOGY TAXONOMY OF ANGIOSPERMS & ECONOMIC BOTANY	Origin and evolution of Angiosperms, Myorphology of flower, history, principles, significance and trends in Plant Taxonomy, systems of classification, vegetative and floral characters and economic importance of prescribed families and other features of Economic Botany
M.SC. II PAPER VII PLANT ANATOMY, PLANT EMBRYOLOGY & MORPHOGENESIS	The paper highlights history, techniques, trends and other features of Plant Anatomy, history, trends and other features of Plant Embryology, Experimental Embryology, aims, scope, factors, techniques and trends of Morphogenesis, centres of Morphogenetic study in India
M.SC. II PAPER VIII ECOLOGY, SOIL SCIENCE & PHYTOGEOGRAPHY	The paper throws light on various factors related to Ecology like Plant succession, Limnology, Autecology, vegetational analysis, ecosystem and production ecology etc along with elaborating various factors related to soil science and Phytogeography
M.SC. II PAPER IX BIOCHEMISTRY & PHOTO BIOLOGY	The paper highlights the biochemical basis of life and various factors related to Biochemistry, study of cell, water, carbohydrate, enzymes, vitamins etc., a close study of

	Photobiology- Bioluminescence, Phytochromes and photo			
	blasticity in seeds			
M.SC. II PAPER X	Helps the learners comprehend various concepts related to			
GENETICS, PLANT	genetics and Genetic engineering, significance, objects and			
BREEDING &	issues of Plant Breeding and the role and application			
BIOSTATISTICS	biostatistics			
PRACTICAL	The learning of the students will be strengthened through various			
	practical related to theoretical studies			

2. U.G. WITH CHEMISTRY

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with Chemistry helps the students attain recognition of the subject through theoretical and practical work
- ❖ The learners are also familiarised with fundamentals of chemistry covering all the principles and perspectives, the nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions
- ❖ The aspirants learn to analyse organic & inorganic mixtures separations & identification, preparation of compounds and Physical chemistry experiments.
- ❖ The students are made aware of handling the sophisticated instruments/equipments.
- ❖ The learners are capable of undertaking small projects using various tools and techniques in organic and inorganic Chemistry and develop scientific temperament.
- ❖ The learners also develop skill in handling the acidic, poisonous, explosive and other chemicals making themselves employable in any kind of chemical industries. They are also taught about the adverse effects of the obnoxious chemicals

COURSE OUTCOME

B.SC. II PAPER I	This paper highlights Chemistry of Elements of Transition
INORGANIC	Series, Coordination Compounds, Chemistry of Lanthanide and
CHEMISTRY	Actinides, Oxidation and Reduction, Acids and Bases and Non-
	aqueous Solvents
B.SC. II PAPER II	Student will gain better knowledge of Electromagnetic and
ORGANIC	Absorption Spectra, Alcohols, Phenols, Ethers and Epoxides,
CHEMISTRY	Aldehydes, Ketones, Carboxylic Acid and Derivatives and
	Organic Compounds of Nitrogen
B.SC. II PAPER III	Student will attain a better insight into Thermodynamics,
PHYSICAL	Chemical Equilibrium, Electrochemistry and Phase Equilibrium:
CHEMISTRY	

PRACTICAL	The learning of the students will be strengthened through
	various practical related to theoretical studies
B.SC. III PAPER I	Students will gain an insight into Metal-ligand bonding,
INORGANIC	Thermodynamic and Kinetic Aspects, Magnetic Properties,
CHEMISTRY	Electronic spectra of Transition Metal Complexes,
	Organometallic Chemistry, Silicones, Phosphazenes, Hard and
	Soft Acids, Bases and Bioinorganic Chemistry
B.SC. III PAPER II	Student will gain better knowledge of Spectroscopy,
ORGANIC	Organometallic, Organosulphur, Hetrocyclic Compounds,
CHEMISTRY	Carbohydrates, Amino Acids, Peptides, Proteins, Nucleic Acids,
	Fats, Oils, Detergents, Synthetic Polymers and dyes etc.
B.SC. III PAPER III	Student will gain Introductory knowledge of Quantum
PHYSICAL	Mechanics, Spectroscopy, Physical Properties and Molecular
CHEMISTRY	Structure, Rotational, Raman, electronic and Vibrational
	Spectrum and Photochemistry of Solutions, Dilute Solutions and
	Colligative Properties
PRACTICAL	The learning of the students will be strengthened through
	various practical related to theoretical studies

3. U.G. WITH MATHEMATICS

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with Mathematics lets the students understand the basic concepts of Mathematics like Algebra, Trigonometry, Calculus, Geometry etc. with simple examples and applications.
- ❖ It also enables the students think critically and analytically through Real ,Complex and Numerical analysis
- ❖ The learners also learn to construct simple geometric examples and proofs
- ❖ They develop a skill to Formulate and develop mathematical arguments in a logical manner
- ❖ The aspirants obtain adequate knowledge of the advanced uses of Mathematics and Statistics and learn to apply their knowledge in various spheres of life
- ❖ The learners also develop skill to formulate and use quantitative models arising in social science, business and other contexts.

COURSE OUTCOME

B.SC. II PAPER I	This paper highlights various mathematical concepts related to:
LINEAR ALGEBRA	Linear Algebra and Matrices like Vector spaces and their
and MATRICES	elementary properties, Linear transformations and their algebra,
	Symmetric and skew-symmetric matrices and characteristic
	equation etc.
B.SC. II PAPER II	Student will gain better knowledge of : Differential Equations
DIFFERENTIAL	And Integral Transforms like Formation of a differential
EQUATIONS and	equation (D.E.), Differential equations of the first order but not
INTEGRAL	of the first degree, Series solutions of second order differential
TRANSFORMS	equations and The concept of transform, etc.
B.SC. II PAPER III	Student will attain a better insight into Dynamics and Statics
MECHANICS	Velocity and acceleration along radial and transverse directions,
	Motion in resisting medium, Motion on smooth and rough plane
	curves, Common catenary, etc.
B.SC. III PAPER I	Students will gain an insight into concepts of Real Analysis like
REAL ANALYSIS	Axiomatic study of real numbers, . Sequences of real numbers,
	Sequential continuity, Riemann integral etc.
B.SC. III PAPER II	Student will gain better knowledge of topics like Functions of a
COMPLEX	complex variable, Elementary functions, Complex Integration,
ANALYSIS	Singularities and zeros of an analytic function and Argument
	principle. Etc.
B.SC. III PAPER III	Student will gain Introductory knowledge of Numerical Analysis
NUMERICAL	like, Shift operator, Divided differences, Numerical integration,
ANALYSIS and	Solution of transcendental and polynomial equations and
PROGRAMMING IN	Programming in C
С	
B.SC. III PAPER IV	Students are supposed to opt for one optional paper out of the
OPTIONAL	following-
	IV(A) Number Theory & Cryptography /IV(B) Linear
	Programming / IV(C) Differential Geometry & Tensor Analysis/
	IV(D) Principles of Computer Science/ IV(E) Discrete
	Mathematics / IV(F) Mathematical Statistics

4. U.G. WITH PHYSICS

PROGRAMME SPECIFIC OUTCOME:

Under Graduate Programme with Physics understand core concepts of Physics like Kinetic Theory, Mechanics, Electronics, Wave Motion etc.and apply their learning to practical life

- ❖ The learners carry out experiments as per laboratory standards in different fields of Physics as per their syllabus and use their simple experimental experiences like Circuit fundamentals for the safe flow of electricity in their day to day life
- ❖ Thus the learners develop skill in the Experimental and Theoretical Physics
- ❖ The aspirants gain adequate analytical and logical skill for higher Education.
- They are also able to seek jobs in the related areas
- ❖ The students are also geared up for appearing in competitive exams

B.SC. II PAPER I	This paper highlights Interference of a light, Haidinger fringes,
PHYSICAL OPTICS	Fresnel diffraction, Fraunhoffer diffraction, Diffraction
AND LASERS	gratings, Polarization, Laser system, Application of Lasers etc.
B.SC. II PAPER II	Student will gain better knowledge of Electrostatics,
ELECTROMAGNETICS	Magnetostatics, Electromagnetic Induction, Dielectrics,
	Magnetic Properties of Matter, Electromagnetic Waves,
B.SC. II PAPER III	Student will attain a better insight into Matter Waves,
ELEMENTS OF	Schrodinger Equation and its Applications, Atomic spectra,
QUANTUM	Molecular spectra etc.
MECHANICS, ATOMIC	
AND MOLECULAR	
SPECTRA	
PRACTICALS	The learning of the students will be strengthened through
	various practical related to Physical optics, Electrostatics,
	Moving charges and magnetostatics, Varying fields and
	electromagnetic theory, Atomic and Molecular Physics Lasers
	etc.
B.SC. III PAPER I	Students will gain an insight into Relativity, Statistical physics,
RELATIVITY AND	The statistical basis of thermodynamics, Some universal laws,
STATISTICAL	Maxwellian distribution of 0 speeds in an ideal gas, Transition
PHYSICS	to quantum statistics etc.
B.SC. III PAPER II	Student will gain better knowledge of Crystal Structure, Crystal
SOLID STATE AND	Diffraction and Reciprocal Lattice, Crystal Bindings, Lattice
NUCLEAR PHYSICS	Vibrations, Nuclear Physics, Nuclear Reactions, Accelerators
	and detectors, Elementary Particles etc.
B.SC. III PAPER III	Student will gain Introductory knowledge of Diffusion of
SOLID STATE	minority carriers in semiconductor, Transistor parameters,
ELECTRONICS	Current and Voltage gain, Field effect transistors and their
	characteristics, Power Supplies and other Miscellaneous
	subjects
PRACTICAL	The learning of the students will be strengthened through

various	practical	related	to	Statistical	Physics,	Solid	State
Physics,	Electroni	cs and N	ucle	ear Physics	etc.		

5. U.G. WITH ZOOLOGY

PROGRAMME SPECIFIC OUTCOME:

- ❖ Under Graduate Programme with Zoology makes the students comprehend basic concepts of Zoology like Taxonomy, Evolution, Embryology and Ecology etc.
- ❖ The learners also understand the applications of biological sciences in controlling parasites, vectors and pests, Apiculture, Aquaculture, Pisciculture, Poultry culture, Sericulture, Lac culture, and Animal Behaviour etc.
- ❖ The aspirants also develop competence in handling biological tools and in performing experimental procedures as per their syllabus
- ❖ They also comprehend animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals
- ❖ The students also come across with relation between structure and functions at different levels of— biological organization
- ❖ The students are also geared up for higher education and competitive exams along with seeking jobs in the related fields

COURSE OUTCOME

B.SC. II PAPER I	This paper highlights Classification and detailed study of
CHORDATA	Hemichordata, Cephalochordata, Urochordata along with
	Classification of different classes of vertebrates like Pisces,
	Amphibia, Reptilia, Aves and Mammalian
B.SC. II PAPER II	Student will gain better knowledge of Animal distribution,
ANIMAL	Origin of Life, evolution along with the Aims and scope of
DISTRIBUTION,	Developmental Biology
EVOLUTION AND	
DEVELOPMENTAL	
BIOLOGY	
B.SC. II PAPER III	Student will attain a better insight into General physiology with
PHYSIOLOGY AND	special reference to mammals. Physiology of digestion,
BIOCHEMISTRY	respiration, and blood and circulation, excretion and
	osmoregulation, neural transmission, muscles, endocrine system,
	thermoregulation, General chemistry and classification of
	carbohydrates, lipids and proteins; Enzymes

PRACTICAL	The learning of the students will be strengthened through
	various practical related to prescribed Chordata, vertebrates,
	Histology and Physiology
B.SC. III PAPER I	Students will gain an insight into Parasitology, Vectors and
APPLIED AND	pests, Animal breeding and culture and Wild Life of India
ECONOMIC	
ZOOLOGY	
B.SC. III PAPER II	Student will gain better knowledge of Biotechnology,
BIOTECHNOLOGY,	Immunology, Biological Tools and Techniques and Biostatistics
IMMUNOLOGY,	
BIOLOGICAL	
TOOLS AND	
TECHNIQUES AND	
BIOSTATISTICS	
B.SC. III PAPER III	Student will gain Introductory knowledge of Ecology,
ECOLOGY,	Microbiology Animal Behaviour and Pollution and Toxicology
MICROBIOLOGY	
ANIMAL	
BEHAVIOUR AND	
POLLUTION AND	
TOXICOLOGY.	
PRACTICAL	The learning of the students will be strengthened through
	various practical related to prescribed topics through Stool
	examination, slides/ specimens and Dissections etc.

PROGRAMME NAME- BACHELOR OF COMMERCE

PROGRAMME OUTCOME

- ➤ The Under graduate students with Commerce stream emerge as competent individuals to learn commercial, management, business and entrepreneurial activities.
- ➤ The Programme prepares the students for comprehending the significance of business activities in the society and also familiarises them with technical requirements like IT laws, GST system etc related to the business world.
- > The Programme enables the under graduates to understand conceptual framework of accounting and develop skills of maintaining accounts.

- The Programme makes the students have fundamental knowledge of entrepreneurial and management skills, banking sector and the challenges of job market.
- ➤ The students are also familiarised with management principles, retail trading, insurance transactions, business economics and financial management and corporate sector.
- ➤ It also arms the graduates with calibre to face various competitive exams like CA, CS, ICWA, etc and the choice for appearing in MBA or M.Com courses in also open for them.

PROGRAMME SPECIFIC OUTCOME

- After the completion of B.Com the learners will be able to apply different concepts in starting and managing business and realize the social responsibilities, social realities and inculcate an essential value system
- They will be able to realize problems related to employer, employee conflicts.
- ➤ The students will be able to recognise the roles and responsibilities of businessmen, entrepreneur, managers, consultant, which will help them to adopt skills in these areas
- > The students can also gain skills to work as tax consultant, audit assistant and other financial supporting services.
- ➤ They will be able to move in the sphere of higher education and advance research in the field of commerce and finance.
- ➤ The Programme enables the students to attain entrepreneurial and management skills, prepares them for banking sector and the challenges of job market.

COURSE OUTCOME

B.COM. II	To provide basic knowledge of the provisions of the Companies			
GROUP A-I	Act. 1956, along with relevant case law, The Companies Act,			
COMPANY LAW	excluding provisions relating to accounts and audit sections,			
	managing agents and secretaries and treasurers Sections 324 -			
	388E, arbitration, compromises, arrangements and			
	reconstructions - sections 389-396).			
B.COM. II	This course exposes the students to the basic concepts and the			
GROUP A-II	tools used in cost accounting along with Cost Ascertainment and			
COST ACCOUNTING	cost records			
B.COM. II	This course familiarizes the students with the basics of			
GROUP B-I	principles of management like Planning, Organizing,			
PRONCIPLES OF	Motivation, Managerial Control and Management of Change etc.			
BUSINESS				
MANAGEMENT				
B.COM. II	It enables the students to know the basics of Income Tax Act and			
GROUP B-II	its implications, Heads of Income: Salaries, Computation of Tax			

INCOME TAX	Liability, Tax Management and tax administration etc.
B.COM. II	It provides exposure to the students to the entrepreneurial culture
GROUP C-I	and industrial growth so as to preparing them to set up and
FUNDAMENTALS OF	manage their own small units.
ENTREPRENEURSHIP	
B.COM. II	The Objective of this course is to provide basic knowledge about
GROUP C-II	various intricacies for public finance, Public Expenditure, Public
PUBLIC FINANCE	Revenue, Public Debts and Indian Public Finance
B.COM. II	The purpose of this paper is to orient students about industrial
GROUP C-III	rules and regulations like The Factories Act, Industrial Disputes
INDUSTRIAL LAW	Act, Indian Trade Unions Act, Employees State Insurance Act
	and Workman Compensation Act
B.COM. III	This course enables the students to develop awareness about
GROUP A-I	corporate accounting in conformity with the provisions of
CORPORATE	Companies Act.
ACCOUNTING	
B.COM. III	This course aims at imparting knowledge about the principles
GROUP A-II	and methods of auditing and their applications
AUDITING	
B.COM. III	This course exposes the students to the working of money and
GROUP B-I	financial system prevailing in India with emphasis on Money,
MONEY &	Finance, Indian Banking System, Process of Credit Creation By
FINANCIAL SYSTEM	Banks etc.
B.COM. II	The objective of the course is to familiarize the students with the
GROUP B-II	innovations in information technology and how it affects
INFORMATION	business. An understanding of the ground rules of these
TECHNOLOGY & ITS	technologies will enable the students to appreciate the nittygritty
IMPLICATIONS IN	of e-Commerce.
BUSINESS	
B.COM. II	The objective of this course is to help students understand the
GROUP C-I	conceptual framework of financial management, Capital
FINANCIAL	Budgeting- cost and structure, Operating and Financial
MANAGEMENTS	Leverage, Dividend Policies and Management of Working
	Capital.
B.COM. II	This course provides the students an understanding of the
GROUP C-II	application of accounting techniques for management.
MANAGEMENT	
ACCOUNTING	
	so opt papers Principles of Marketing & International Marketing/

In Group C students can also opt papers Principles of Marketing & International Marketing/Fundamentals of Insurance & Indian Banking System/ Internet and World Wide Web & Essentials of Commerce/ Human Resource Management & Industrial Relations
