



# **NAVYUG KANYA MAHAVIDYALAYA RAJENDRA NAGAR, LUCKNOW**

## **Programme Outcomes & Course Outcomes**

**SESSION-2021-22**

### **DEPARTMENT OF PHILOSOPHY**

#### **B.A. Philosophy**

##### **Programme Outcome**

The program focuses on the broadening the perspectives of students to deal with the situations, problems, and people with better understanding and definite passion to deal with real-life problems. Along with this it is focused to help students develop among themselves a sense of responsibility and communicate with the world in a better and meaningful ways.

##### **Course Specific Outcome**

##### **Semester 1 & 2**

##### **(Indian Philosophy and Western Philosophy)**

The course aims at discussing the historical development of philosophy in ancient Greece and Europe and subsequently details about Medieval philosophers with classical discussion of rationalism, Cartesian method and its limits. Critical study about major elements of metaphysics of Descartes, Spinoza and Leibnitz. After one year of study, the student would fully understand the Western stream of Philosophy. Understanding the key characters and historical context of empiricism in Europe. Understanding Locke, Berkley and Hume's concepts of ideas, impressions, qualities and related distinctions and Kant's critical philosophy.

Indian Philosophy aims to provide Clear understanding of the characteristics and features of Indian philosophical schools including both orthodox and heterodox schools including metaphysics and theories of liberation. Understanding the concept of materialism and it's critical questioning to all classical systems. A clear understanding of Jain epistemology, metaphysics and doctrine of qualified assertions, Syadvada brings clarity. A brief detail about the metaphysics of Indian atomists Vaisheshikas, Nyaya, Advait Vedant and Vishistadvaita. In depth knowledge about doctrines of levels of reality, bondage and liberation in classical Indian philosophy with reference to the two schools of Vedanta . The study of this course will provide a smooth entry in the field of analysis, argumentation, theory-formation and criticism. It may also be useful for various

competitive examinations, academics, government and even private sector job (Human Resource, Ethics-Observer and Philosophical Counselor)

##### **Semester 3 & 4**

##### **(Logic and Ethics, including both Indian and Western)**

After studying the subject the student would be able to comprehend the fundamental issues and basic problems discussed in the field of Logic through distinct terminologies, methods, approaches and arguments provided by the prominent thinkers and traditional schools of India. The key features of post Kantian philosophy including pragmatism, positivism, phenomenology, existentialism and analytic philosophy. The ethical and psychological take on hedonism. Ideas about Cognitivism and Non- Cognitivism which includes ideas of famous Philosophers including G.E.moore, C.L.Stevenson and R.M.Hare. Logic primarily focuses on

Categorical syllogism, Symbolic logic and Traditional square of opposition.

Indian Ethics includes Idea of Morality, moral principles in Indian philosophy. The ethical principles of Bhagwatgeeta with special reference to Nihisreyas and Loksamgrah along with a better understanding of critical terms i.e. Dharma, Rta, Rna and related classifications. Understanding Buddhist and Jain ethics with Mahatma Gandhi's ideals of morality.

### **Semester 5 & 6**

#### **(Problems of Philosophy, Philosophy of Religion, Social & Political Philosophy)**

Valid distinctions between religion, philosophy of religion, Science and theology, debates about foundations of religious belief with arguments to prove the existence of God in classical and Indian philosophy. In depth problems regarding existence of evil and conflicts in attributes of god and different theories of religious language. After one semester of study, the student would fully understand the notion of religion and its philosophical exposition. The study of this course will provide a smooth entry in the field of analysis, argumentation, theory-formation and criticism.

Understanding nature of social and political philosophy and basic concepts of individual, society, state and political organization. Glimpses of classical Indian

accounts of state and sovereignty from Vedas and Kautilya and conceptual debates on nationalism, cosmopolitanism, pluralism and multiculturalism. Notions of empowerment, discriminations and justice.

Classical debates on causality and substance and debates on the existence of self, soul and god in Indian philosophy, theories of liberation in classical Indian philosophy, epistemology and its characters. Understanding debates in Indian philosophy of language about word and meaning.

#### **Learning Specific Outcome**

With the course provided for students, it has been made sure that students who read the subject are ready to face challenges in life with appropriate clarity and distinctness. Philosophy as a subject aims at making sure that students develop a sense of responsibility along with sensible idea of rationality and without a fail the above mentioned course has made sure that students learn most pragmatic aspects of life that helps them face challenges in life with maximum sophistication and clarity. Course has evidently offered students an idea to deal with daily and basic challenges of life and it has been depicted in the results of students that the effort has been worth it. The syllabus aims at broadening the horizons of students at levels that are not just bound to academics but helps them grow as an individual at all aspects.

## **Department of English**

### **Functional English B.A (2021-22)**

#### **Course outcome:**

- Ability to analyze various elements of grammatical units of English and design language component critically and coherently to meet desired needs within the realistic constraints
- Ability to identify common errors in various parts of English and give effective expression in oral and written communication
- Enhance English writing skills and understand the fundamental concepts of language and communication

#### **Semester 3**

Paper 5- Language and communication

#### **Course specific outcome:**

- Get a knowledge of various types of communication
- Learning to use language in interviews and interpersonal communications

Paper 6- Conversational skills

#### **Course specific outcome:**

- Learn to communicate in English language in various situations
- Learning the proper etiquettes regarding formal greetings, interviews and in other similar spheres

#### **Semester 4**

Paper 7- Sociolinguistics

#### **Course specific outcome:**

- Develop the basic ideas of dialects, language politics and speeches
- Learning the association of language with gender, society and ethnic identity

Paper 8- English Language Teaching

#### **Course specific outcome:**

- Get the knowledge of approaches, methods and techniques of teaching in English
- Get the understanding of the problems of teaching in English in India and the use of teaching aids

#### **Semester 5**

Paper 1- Introduction to Media Studies

**Course specific outcome:**

- Develop ideas about media, broadcasting and its structure
- Get the knowledge of Radio programming, Reporting and Broadcast of Documentaries, teasers, promos, etc.

**Paper 2- Entrepreneurship Development****Course specific outcome:**

- Get a fundamental understanding of the methods of Entrepreneurship
- Understanding of various kinds of approaches of Entrepreneurship in India

**Paper 3- English for Specific Purposes****Course specific outcome:**

- Get the knowledge of Fundamentals of English and its specific purposes in everyday life.
- Understanding terms related to medicines, Law and Tourism in English Language

**Semester 6****Paper 1- Professional Communication****Course Specific Outcome:**

- Get the knowledge of origin of the Communication Discipline in Professional Life
- Understanding the relationship between verbal and nonverbal messages

**Paper 2- Media Studies (Advanced)****Course Specific Outcome:**

- Get the knowledge of media tools and audio, video productions
- Understanding of public relations, Journalism, social media etc.

**Paper 3- Project****Course specific outcome:**

- To develop research skills and get an understanding the methodology

To motivate students to explore the new vistas through fieldwork

**Learning outcome of Functional English:**

- Ability to analyze the usage of English words in different contexts and acquire considerable flair in using broad range of vocabulary
- Understand the different aspects of media and entrepreneurship
- Develop an understanding of the various aspects of Communicative English
- Understand Functional English and its application in practical life

## **B.A (2021-22)**

### **Course outcome:**

The completion of the course would benefit the student following ways:

- It offers a comprehensive understanding of social and intellectual climate of European and American and Indian Society
- The study of various literary movements will help them understanding the texts with greater clarity
- It would introduce the students to texts of great masters from 16<sup>th</sup> to 20<sup>th</sup> century so that they are able to comprehend the evolution of English language and literature over the centuries
- It would also help them analyze that how socio historical factors have influenced individual texts and how individual texts are representative of their age

### **Semester 1**

Paper 1- Poetry (A) [Shakespeare to 18<sup>th</sup> century]

#### **Course specific outcome:**

- Understand the concept of Elizabethan poetry and recognize the impact of renaissance in Elizabethan poetry
- Introducing students to the seminal writings of English literature and laying the foundation for contextualizing specific texts against Historical background of 16<sup>th</sup>, 17<sup>th</sup> and 18<sup>th</sup> century
- Gain insight into the age of Shakespeare and his creative output with regard to both his sonnets and plays

Paper 2- Short Fiction

#### **Course specific outcome:**

- Develop a working knowledge of the various concepts related to short-fiction
- Analyzing the art of storytelling and the various structural elements of a short story with reference to prescribed stories of great European and Indian writers

### **Semester 2**

Paper 1- Drama (A)

#### **Course specific outcome:**

- Develop the knowledge of the social and intellectual background leading to the rise of drama

- To have an understanding of the plays of different ages and get an acquaintance with literary features of dramatic art

#### Paper 2- Prose (A)

##### **Course specific outcome:**

- Understand the prescribed prose styles through select readings of representative texts
- Understand the genre of essays from Bacon to Lamb through the prescribed texts and cultivate an understanding of the historical and cultural background of the concerned age

### **Semester 3**

#### Paper 1- Poetry (B) [Romantics & Victorians]

##### **Course specific outcome:**

- Appraise the classic Romantic and Victorian poets through their select works
- Gain insight into the unique traits of the literary movements of the Romanticism through the representative works of Romantic poets
- Understand the historical and intellectual background and its impact on Victorian poetry

#### Paper 2- Fiction

##### **Course specific outcome:**

- Develop a comprehensive knowledge of the British fiction through the study of representative writers of England
- Learn basic knowledge of forms, elements and types of fiction
- Get an understanding of the significant various social factors in a novel

### **Semester 4**

#### Paper 1- Drama (B)

##### **Course specific outcome:**

- Recognize and comprehend the trajectory and development of drama in Victorian era
- Investigate the way the socio-political scenario influenced the literary production of the era

#### Paper 2- Prose (B)

##### **Course specific outcome:**

- Develop a comprehensive knowledge of the development of prose across various eras of English literature

- Understand the pattern of development and changes in the ideas and literary techniques used by British and American prose writers

## **Semester 5**

### Paper 9- History of English Literature

#### **Course specific outcome:**

- Develop a comprehensive understanding of the history of English Literature
- Offers extensive insight into the history of English Literature, while laying special emphasis on various literary movements, genres and trends

### Paper 10- Contemporary Indian Literature in Translation

#### **Course Specific Outcome:**

- Understanding the role of Translation and reinforcement of Indian works
- Learn skills of translation and appreciate diverse writings and cultures

### Paper 3- Modern Literature (Poetry)

#### **Course Specific Outcome:**

- Recognize the characteristics features of the modern poetry in English and its thematic diversity
- Critically analyze British, American and Indian poetry in the light of several movements in literature and understand prescribed poems through an analysis of theme, figures of speech and other literary devices

## **Semester 6**

### Paper 1- Modern Literature (A) (Drama)

### Paper 1- Modern Literature (A) (Drama)

#### **Course Specific Outcome:**

- Recognize the characteristics features of the modern plays in English and their thematic diversity
- Studying different aspects of drama and understanding the thought, trends and experimentations associated with drama in 20<sup>th</sup> century

### Paper 2- Modern Literature (B) (Fiction & Prose)

#### **Course Specific Outcome:**

- Recognize the characteristics features of the modern fictions in English and its thematic diversity through several prose works
- Understanding literary techniques and trends associated with modern fiction and prose

#### Paper 14- Functional skills Language & Literature

##### **Course specific outcome:**

- Use the correct pronunciation of words, identify the differences in language, dialects and other varieties of languages
- It aims to help the students to develop functional skills in English language so that they can use it correctly and appropriately

##### **Learning outcome:**

After course completion, students will be able to:

- Comprehend the various poetic styles prevalent in the different eras
- Identify the similarities and difference between various types of short fiction
- Comprehend the history and rise of drama in England
- Develop an understanding of the diverse techniques of prose writing
- Develop a working knowledge of the various concepts relating to short-fiction
- Understand the social paradigm of drama and its related contexts
- Understand the rise of modern prose and its diverse techniques
- Comprehend the defining ethos and characteristics of different periods in English
- Develop an understanding of the Eastern and Western consciousness as reflected through modern poetic texts
- Discover the relationship between language and culture

#### **Communicative English (CCE)**

**(2021-22)**

##### **Course Specific Outcome:**

- Identify various text types, and comprehend them
- Use and comprehend a reasonable vocabulary and reinforce their language proficiency

##### **Learning Outcome:**

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

- Develop the ability to communicate effectively
- Understand the basic features of communication- verbal and nonverbal



Improve language skills and attain communicative competence.

## **Department of Psychology**

**SESSION 2021- 2022**

### **Program Outcome**

The program of BA in Psychology will help students of Psychology to learn basic concepts of Psychology in different areas like learning, memory, intelligence, child development, social psychology, assessment, abnormality, personality etc. It will enable them learn the theories and mechanism for explaining human thought and behavior and enhance their knowledge on practical aspects as well. They will be able to learn the applications of different methods, theories and concepts studied in Psychology.

### **Program Specific Outcome**

☐ To provide an understanding to the student of the basic psychological processes and the core psychophysics and statistical techniques.

★☐ To help the student understand the developmental stages and patterns of individuals and the basics of social behavior and interaction.

★☐ This course will try to introduce to the students the various approaches to personality as well as orient them to the psychopathological behavior and psychological testing and assessment.

### **B.A-1, SEMESTER 1 (NEP)**

#### **PAPER-1**

##### **Title of the Paper: Basic Psychological Processes**

Course Outcome:

- The course aims to enable students to acquire the knowledge about the basic concepts related to Psychology in daily life and gradual progression.
- To gain knowledge about ways to gain knowledge of Psychology.
- To seek knowledge about the mechanism of various phenomenon in the realm of Sensory processes, Perception etc.
- It will also give them theoretical knowledge to understand the causal factor of motivation, learning and thinking.

### **B.A-1, SEMESTER-1(N.E.P)**

#### **PAPER 2**

##### **Title of the Paper: Psychology of Individual Differences**

Course Outcome:

- To enrich the students with various issues related to the role of heredity and environment in understanding human behaviour, the neurological basis of behaviour, nature-nurture controversy and understanding of personality from different perspectives.
- Practical and experiential understanding would train student to prove their subject specific cognitive excellence at different academic and professional platforms.

### **B.A-1, SEMESTER 2(N.E.P)**

#### **PAPER 1**

##### **Title of the Paper:Statistics and Psychophysics**

##### **CourseOutcome:**

- It will help the students to learn quantitative aspects of psychological data. It enables them to understand how to use the statistical concepts in minor researches.
- It will also enhance their knowledge about how by applying the psychophysical experiments we can learn about the relationship between stimuli and response.

### **B.A1, SEMESTER-2 (N.E.P)**

#### **PAPER 2**

##### **Title of the Paper- Lab Work/ Practical**

##### **Course outcome:**

- \* To apply the general concepts of Psychology with the help of observations, experiments and testing. It will give practical knowledge to students and inculcate interest in the discipline of Psychology.
- \* Students will develop thorough understanding of learning, motivation, forgetting and different applications of psychophysical methods and understand their applications in daily living.

### **BA-II: Semester-III**

#### **Paper-I : Life Span Development**

##### **Course outcome**

- \* To enrich the students with various issues related to human development from womb till tomb, the factual knowledge on the determinants of Biological, Physical, Motor, Cognitive, Language, Social, Emotional and Moral Development; different issues during adolescent and geriatric phase of human development; the role of individual differences and the knowledge about nervous system, affecting the behavior and thought processes of individuals.
- \* Practical and experiential understanding would train student to prove their subject specific cognitive excellence at different academic and professional platforms. Exclusive and detailed theoretical information in the area of human development would also promote students to better adjust and undergo advance studies in the area of child development in future.

### **BA-II: Semester-III**

## **Paper-II : Social Psychology**

### **Course outcome**

At the end student would learn about the factors influencing social perception, social thinking and interpersonal influences; ways to be more effective in social situations and identify and reduce prejudices to make society a better place to live in.

## **BA-II: Semester- 4**

## **Paper-I :Effective Communication**

### **Course outcome**

The study of this course would help students to identify the communication problems in their interpersonal relationships and applying the skills learned during classes. This will help them to develop good relationships with family members, peers, teachers and others

## **BA-II: Semester- 4**

## **Paper- II: Practical**

### **Course outcome:**

To familiarize students about how to conduct different tests and experiments related with social psychology, human development and communication.

## **B.A 3, SEMESTER 5**

## **PAPER 1: Psychological Testing and Assessment**

### **COURSE OUTCOME**

On completion of the course the students will be able to critically evaluate assessment measures, to know the basics of test construction ,i.e. item writing and item analysis , test administration and standardization. They will be able to appreciate the ethical and legal issues involved in the assessment process.

## **B.A 3, SEMESTER 5**

## **PAPER-2: Psychology of Personality**

### **COURSE OUTCOME**

Students in this course upon completion will be able to know various ways in which personality has been understood including trait and type approaches, genetic and constitutional determinants of personality. The course will also provide a basic understanding of Self Concept – its nature and components and types as well as Indian Perspectives on Self.

## **B.A 3, SEMESTER 5**

## **PAPER-3: Abnormal Psychology**

### **COURSE OUTCOME**

Upon completion of the course students will be able to enhance personal and social interactions by using the knowledge of the major theories of abnormal behavior and will better understand one's own and others' behavior, have a more effective understanding of stress and anxiety experienced by them in various situations. Course will be able to provide a comprehensive understanding of abnormal behaviours.

## **B.A-3, SEMESTER-6**

### **PAPER-1: Assessment of Personality and Mental Ability**

#### **COURSE OUTCOME**

On completion of the course the students know the procedure of administration and scoring of various psychological tests including psychometric and projective tests. Students are familiarized with Indian perspective of personality assessment and various methods of assessment of Interest and Values , behavioural assessment as well as assessment of mental ability .In addition ,this course will enable the students to understand the basics of Research in Psychology, its nature ,process and goals to further the knowledge of personality.

B.A-3, SEMESTER-6

### **PAPER-2: Approaches to Personality**

#### **COURSE OUTCOME**

On completion of the course the students will be familiar with various theories of personality, scientific methods used in the study of personality. Students will be able to distinguish among the major theoretical approaches of understanding personality with a focus on the strengths and weaknesses of each theory.

B.A-3, SEMESTER-6

### **PAPER- 3, PRACTICALS**

#### **COURSE OUTCOME**

On completion of this course the students will be familiar with practical aspects of measurement of anxiety, adjustment Level and personality of Individual as well as learn skills of scale construction.

## **B.A ECONOMICS: 2021-22**

### **B.A.I NEP; CBCS. B.A.II & III (SEMESTER SYSTEM)**

#### **PROGRAM OUTCOMES**

1. This program aims at the study and application of economic theory and economic decision making.
2. It aims at exposure to different sectors to build the analytical capacity of the student.
3. This programme aims at producing successful and competent economics analysts.
4. This programme seeks to prepare the student for employment in industry, various professions and the government sector.
5. The purpose of this programme is to graduate work towards advance degrees as M.A., MBA or P.hD in Economics.

## **LEARNING OUTCOME.**

1. The learning outcome of this programme is to ensure the development of an understanding of Micro, Macro theory, Indian Economy, Public Finance, Money and Banking, International Trade, Industrial Economics, Environmental Economics, HET, Basic Statistics, Economic growth and development.
2. This programme will provide a general understanding of functioning of the economic system and the institutions within that system. On successful completion of the course, the students should be well versed in the concepts, tools and principles in the field of Economics and related field

## COURSE OUTCOMES

CLASS	COURSE	COURSE OUTCOMESS	LEARNING OUTCOMES
B.A. I (SEM–I) NEP, CBCS	Pape -I MicroeconomicsI	<ul style="list-style-type: none"> <li>• This course aims to introduce the students to the basic concepts of Micro Economics</li> <li>• Its study will enable the students to understand consumers behaviour and producers' behaviour</li> </ul>	<ul style="list-style-type: none"> <li>• The student will be able to understand the basic concepts of Micro &amp; Macro Economics, equilibrium, utility, consumers surplus, Production fiction &amp; Producer's equilibrium, isoquants and PPC</li> </ul>
B.A. I (SEM–I) NEP, CBCS	Paper –II Indian Economy-I	<ul style="list-style-type: none"> <li>• This course aims to introduce the students to the basic concepts of Indian Economics</li> <li>• the Course aims to give a comprehensive knowledge of the structure of the Indian economy</li> </ul>	<ul style="list-style-type: none"> <li>• The student will learn about the development of Indian Economy since Independence, <ul style="list-style-type: none"> <li>• Know about the changes in the structure and composition of NI, &amp; Population</li> <li>• .to gain information about Poverty &amp; Unemployment alleviation programmes &amp; their outcomes.</li> <li>• Learn about changes in the composition &amp; direction of foreign trade&amp; Investment in the country.</li> </ul> </li> </ul>
B.A. I (SEM –II) NEP, CBCS	Paper –III Microeconomics II	<ul style="list-style-type: none"> <li>• This course aims to introduce the students to the basic concepts of Microeconomics</li> </ul>	<ul style="list-style-type: none"> <li>• Learn the concepts of cost &amp; revenue, <ul style="list-style-type: none"> <li>• Know about different market structures.</li> <li>• Know about Price &amp; output determination under different forms of competition.</li> </ul> </li> </ul>

			<ul style="list-style-type: none"> <li>● Learn about theories of distribution and factor price determination.</li> </ul>
B.A. I (SEM –II) NEP, CBCS	Paper –IV Indian Economy-II	<ul style="list-style-type: none"> <li>● This course aims to introduce the students to the basic concepts of Indian Economy</li> <li>● The Course will enable students to gain information about development of Indian Economy</li> </ul>	<ul style="list-style-type: none"> <li>● Know in detail about the Agricultural sector &amp; Industrial sector of India</li> <li>● Learn about the service sector of the country.</li> <li>● Learn about infrastructure development</li> <li>● Learn about the economy of U.P.</li> </ul>
B.A. II (SEM –III)	Paper V Macroeconomics	<ul style="list-style-type: none"> <li>● This course aims to introduce the students to the basic concepts of Macro Economics which deals with the behaviour and performance of an economy as a whole behaviour.</li> </ul>	<ul style="list-style-type: none"> <li>● Know about the basic concept of Macro Economics.</li> <li>● Learn how to measure macroeconomic variables like GNP, GDP, NI etc</li> <li>● know the various theories and approaches to the determination of Income &amp; Employment.</li> </ul>
B.A. II (SEM –III)	Paper –VI Public Finance	<ul style="list-style-type: none"> <li>● This course Provides through understanding of rational for public policy along with fiscal federalism.</li> <li>● This course provide comprehensive understanding of theories of Public expenditure and principle of taxation</li> </ul>	<ul style="list-style-type: none"> <li>● Know about the difference between Public &amp; Private, Goods &amp; finance.</li> <li>● Learn about the field of study of Public finance and its main aim of achieving maximum Social advantage.</li> <li>● To know about the various sources of Public Revenue &amp; behaviour of taxation.</li> <li>● To learn about Public expenditure &amp; debt.</li> <li>● To learn about Public finance Policy of India.</li> </ul>
B.A. II (SEM –IV)	Paper –VII Money and banking	<ul style="list-style-type: none"> <li>● This course Introduces students to the conceptual and practical operations of money, banking, Financial market and institutions</li> </ul>	<ul style="list-style-type: none"> <li>● To learn about the evolution of money and its types.</li> <li>● To know about the demand &amp; supply of money.</li> <li>● To learn about price indices and how they are formulated.</li> </ul>

			<ul style="list-style-type: none"> <li>• To learn about High Powered money &amp; money multiplier</li> <li>• To know about Commercial bank, their function credit creation.</li> <li>• To learn about central banking &amp; credit control</li> </ul>
B.A.I I (SEM –IV)	Paper –VIII International Economics	<ul style="list-style-type: none"> <li>• This course provides understanding of relationship between international capital market and economic development</li> <li>• The Course enables students to understand the relationship between theory of foreign trade and Economic development and analyse foreign investment.</li> </ul>	<ul style="list-style-type: none"> <li>• To know about the scope &amp; nature of international economics.</li> <li>• Learn about the historical development of trade theories.</li> <li>• Understand the concept of Balance of Payments</li> <li>• Know the concept of foreign exchange &amp; exchange rate determination.</li> </ul>
B.A.III (SEM V)	Paper IX History of Economic Thought-I	<ul style="list-style-type: none"> <li>• This course will enable the student to understand the history of Economics</li> <li>• It will allow them to see how economic theories have been developing and how they are improved upon</li> </ul>	<ul style="list-style-type: none"> <li>• The student will know about the views of Physiocrats, Mercantilists.</li> <li>• Learn the approaches of Kautilya, Ranade, Naoroji, Gandhi &amp; other Indian thinkers.</li> <li>• Learn about Classical economic thought</li> </ul>
B.A.III (SEM V)	Paper X Environmental Economics	<ul style="list-style-type: none"> <li>• This course discusses the various approaches and methods developed for valuing environmental goods and services</li> <li>• It examines the issues in the contemporary environmental</li> </ul>	<ul style="list-style-type: none"> <li>• Know the basic concepts of environmental economics</li> <li>• Know the interrelationship between the environment &amp; the economic development</li> <li>• Comprehend current environmental issues</li> <li>• Know the environmental policy of India</li> </ul>



		discourse from an economic point of view	
B.A.III (SEM V)	Paper XI-A Industrial Economics	<ul style="list-style-type: none"> <li>• This will enable students to learn about the basic concepts of industry, market products, industrial locations &amp; industrial marketing</li> <li>• It will teach project appraisal techniques and industrial finance</li> </ul>	<ul style="list-style-type: none"> <li>• Know the concept of industry and Economic firms &amp; their types</li> <li>• Learn the factors determining location &amp; regional development of industry</li> <li>• Know about industrial structure &amp; Labour</li> <li>• Comprehend project appraisal methods and know the sources of industrial finance</li> </ul>
B.A.III (SEM V)	Paper XI-B Basic Statistics	<ul style="list-style-type: none"> <li>• Will allow understanding of basic theories &amp; applied principles of statistics</li> <li>• Provide knowledge of key statistical concepts</li> </ul>	<ul style="list-style-type: none"> <li>• Student will know the importance of statistics in economics</li> <li>• Will learn how to collect data, organise them and about diagrammatic and graphical representation of data</li> <li>• Learn measures of Central Tendency and Dispersion</li> </ul>
B.A.III (SEM VI)	Paper XII History of Economic Thought II	<ul style="list-style-type: none"> <li>• Will allow students to understand the history of economic study</li> <li>• Will promote critical evaluation of economic analysis</li> </ul>	<ul style="list-style-type: none"> <li>• Students will know about the history of economic thought</li> <li>• Student will know how economic philosophies have changed with time</li> <li>• Will promote critical thinking of ideas</li> </ul>
B.A.III (SEM VI)	Paper XIII Economics of Growth & Development	<ul style="list-style-type: none"> <li>• This course provides a foundation of the understanding of economic growth &amp; development</li> <li>• Discusses various measures of economic development</li> <li>• Allows an understanding of</li> </ul>	<ul style="list-style-type: none"> <li>• Will enable students to understand the concepts of development and their measurement, including BNA, PQLI. HDI. IHDI. GEM. GDI. etc.</li> <li>• To learn about growth models</li> <li>• Comprehend the problem &amp; intensity of Poverty and Inequality</li> <li>• Will know about international issues &amp; institutions influencing development</li> </ul>

		<p>growth models and theories</p> <ul style="list-style-type: none"> <li>• Helps understand international issues of development</li> </ul>	
B.A.III (SEM VI)	Paper XIV -A Economy of Uttar Pradesh	<ul style="list-style-type: none"> <li>• This course deals with the growth patterns. rural development, industrial development, agriculture. Industry and service sector of U.P.</li> </ul>	<ul style="list-style-type: none"> <li>• will enable students to know about the economic features of UP</li> <li>• to know the growth patterns and policies of the state</li> </ul>
B.A.III (SEM VI)	Paper XIV-B Elementary Mathematics for Economics	<ul style="list-style-type: none"> <li>• this course will enable the study of economic theory with basic mathematics</li> <li>• aims to allow students to apply mathematical techniques to economic theory in general</li> </ul>	<ul style="list-style-type: none"> <li>• this course provides an exposure to Calculus of functions and their application to the discipline of Economics</li> <li>• it allows students to solve mathematical problems that are common to economic modelling</li> </ul>

## Department of Sanskrit-

### B.A. Sanskrit (NEP w.e.f.-2021-22)

B.A. I year- (NEP-CBCS-w.e.f. 2021-22)

B.A. II & III year- ( Semester System w.e.f.2018-19)

प्रोग्राम आउटकम— संस्कृत सभी भारतीय भाषाओं की जननी है। भारत की संस्कृति इसी भाषा में निबद्ध वाङ्मय में है। इस भाषा, साहित्य, व्याकरण, दर्शन वेदादि का अध्ययन हुआ। छात्रों के मन, मस्तिष्क में अपनी भारतीय राष्ट्रीय चेतना के प्रति जागरूक करना और प्राचीन तथा आधुनिक ज्ञान परम्परा का संमेकित रूप से अध्ययन करना है। जिसमें उनके ज्ञान के साथ-साथ माननीय मूल्यों व भारतीय संस्कृति सभ्यता का ज्ञान विकसित हो सके।

तीन वर्ष का बी0ए0 का पाठ्यक्रम में संस्कृत विषय के माध्यम से छात्रों में भारतीय राष्ट्रीय चेतना का विकास करना है जिससे वह अपना जीवन भौतिक समृद्धियों के साथ-साथ मानसिक व अध्यात्मिक स्तर की उँचाइयों को भी प्राप्त कर सकें। और उन्नत राष्ट्र के उन्नत नागरिक बन सकें।

संस्कृत विभाग  
बी0ए0 प्रथम वर्ष प्रथम सेमेस्टर 2021-22 (एनईपी)  
कोर्स आउटकम

**प्रथम प्रश्न पत्र—संस्कृतपद्यसाहित्यम्**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. प्राचीन कवियों के कालखण्ड को समझ लेते हैं।
2. समसमायिक राजनीतिक, आर्थिक, सांस्कृतिक परिस्थितियों एवं व्यवहार शैली की समझ।
3. संस्कृत के श्लोकों के शुद्ध उच्चारण का अभ्यास कर लेते हैं।
4. काव्य लक्षण का परिचय प्राप्त कर लेते हैं।

**द्वितीय प्रश्न पत्र—व्याकरणअनुवादश्च**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. व्याकरण के संज्ञा, सन्धि, के नियम को जानकर नये शब्दों को बना लेते हैं।
2. संस्कृत भाषा में अनुवाद शैली में कुशलता प्राप्त कर लेते हैं।

संस्कृत विभाग  
बी0ए0 प्रथम वर्ष द्वितीय सेमेस्टर 2021-22 (एनईपी)  
कोर्स आउटकम

**प्रथम प्रश्न पत्र—संस्कृतकाव्यशास्त्रं च**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. प्राचीन कवियों के कालखण्ड को समझ लेते हैं।
2. समसमायिक राजनीतिक, आर्थिक, सांस्कृतिक परिस्थितियों एवं व्यवहार शैली की समझ।
3. संस्कृत के श्लोकों के शुद्ध उच्चारण का अभ्यास कर लेते हैं।
4. काव्य लक्षण का परिचय प्राप्त कर लेते हैं।

**द्वितीय प्रश्न पत्र—लघुसिद्धान्तकौमुदी, अनुवादो निबन्ध**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. व्याकरण के संज्ञा, सन्धि, के नियम को जानकर नये शब्दों को बना लेते हैं।
2. संस्कृत भाषा में अनुवाद करने एवं निबन्ध लिखने में कुशलता प्राप्त कर लेते हैं।

बी0ए0 द्वितीय वर्ष तृतीय सेमेस्टर 2021-22 (एनईपी)  
कोर्स आउटकम

प्रथम प्रश्न पत्र—(संस्कृताटक)

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. प्राचीन कवियों के कालखण्ड को समझ लेते हैं।
2. समसमायिक राजनीतिक, आर्थिक, सांस्कृति परिस्थितियों एवं व्यवहार शैली की समझ।
3. संस्कृत के श्लोकों के शुद्ध उच्चारण का अभ्यास कर लेते हैं।
4. काव्य लक्षण का परिचय प्राप्त कर लेते हैं।

द्वितीय प्रश्न पत्र— (अजन्तरूपसिद्धिर्निबन्धश्च)

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. व्याकरण के संज्ञा, सन्धि, के नियम को जानकर नये शब्दों को बना लेते हैं।
2. संस्कृत भाषा में अनुवाद शैली में कुशलता प्राप्त कर लेते हैं।
3. संज्ञा सन्धि तथा शब्दों के नियम जानकर उन्हें विभक्तियों में बना लेते हैं।

बी0ए0 द्वितीय वर्ष चतुर्थ सेमेस्टर 2021-22 (एनईपी)  
कोर्स आउटकम

प्रथम प्रश्न पत्र—(संस्कृतगद्यसाहित्यं चम्पूकाव्यं च )

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. प्राचीन कवियों के कालखण्ड को समझ लेते हैं।
2. समसमायिक राजनीतिक, आर्थिक, सांस्कृति परिस्थितियों एवं व्यवहार शैली की समझ।
3. संस्कृत के गद्य का धाराप्रवाह एवं शुद्ध उच्चारण का अभ्यास कर लेते हैं।

द्वितीय प्रश्न पत्र— (मध्यसिद्धान्तकौमुदी)

1. व्याकरण के संज्ञा, सन्धि, के नियम को जानकर नये शब्दों को बना लेते हैं।

बी0ए0 तृतीय वर्ष पंचम सेमेस्टर 2021-22 (एनईपी)  
कोर्स आउटकम

**प्रथम प्रश्न पत्र—(वेदो, भारतीयसंस्कृतिश्च)**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. अपने प्राचीन ग्रन्थ वेद मंत्रों की विशेष जानकारी।
2. समसमायिक राजनीतिक, आर्थिक, सांस्कृति परिस्थितियों एवं व्यवहार शैली की समझ।
3. वेद के मंत्रों के शुद्ध उच्चारण का अभ्यास कर लेते हैं।

**द्वितीय प्रश्न पत्र—(आधुनिकसंस्कृतसाहित्यम्)**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. आधुनिक कवियों की कविताओं से रचना शैली की कुशलता आती है।
2. आधुनिक काल में पद्य एवं गद्य रचनाओं का ज्ञान होता है।

**तृतीय प्रश्न पत्र—(संस्कृतरूपकं नाट्यशास्त्रं च) —ए**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. प्राचीन कवियों के साहित्य को रस छन्द अलंकार की दृष्टि से समझ लेते हैं।
2. समसमायिक राजनीतिक, आर्थिक, सांस्कृति परिस्थितियों एवं व्यवहार शैली की समझ।
3. संस्कृत के श्लोकों के शुद्ध उच्चारण का अभ्यास कर लेते हैं।
4. काव्य लक्षण का परिचय प्राप्त कर लेते हैं।

**तृतीय प्रश्न पत्र—(समास छन्दशास्त्रं च)—बी**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. व्याकरण के समास के नियम को जानकर नये शब्दों को बना लेते हैं।
2. छन्द के नियम को जानकर संस्कृत के श्लोकों एवं मंत्रों के शुद्ध उच्चारण का अभ्यास कर लेते हैं।

बी0ए0 तृतीय वर्ष षष्ठ सेमेस्टर 2021-22 (एनईपी)

**प्रथम प्रश्न पत्र—(उपनिषद्वाङ्मयं दर्शनं च)**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. उपनिषद् का सामान्य परिचय प्राप्त किया तथा उसमें निहित उपदेशों का अवबोध किया।
2. भारतीय दार्शनिक तत्वों का सामान्य ज्ञान प्राप्त किया तथा उसमें निहित नैतिक और कल्याणकारी आत्मोत्कर्ष ज्ञान प्राप्त किया।

**द्वितीय प्रश्न पत्र—(धर्मशास्त्रं नीतिशास्त्रं च)**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. भारतीय पारंपरिक धर्मशास्त्र एवं सांस्कृतिक मूल्यों से परिचित हुए।
2. आत्मनिर्भर भारत की संकल्पना को साकार करने में सक्षम एवं आत्मनिर्भर हुए।
3. भारतीय कर्मकांड के शास्त्रीय एवं व्यवहारिक रूप से परिचय प्राप्त किया।

**तृतीय प्रश्न पत्र—(राजतन्त्रमर्थशास्त्रं च)—ए**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. भारतीय पारंपरिक राजतन्त्र एवं राजनैतिक मूल्यों से परिचित हुए।
2. जीवन को नियमबद्ध एवं आचरणशील बनाने में समर्थ हुए।

**तृतीय प्रश्न पत्र—(भारतीयवास्तुशास्त्रम्)—बी**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. भारतीय वास्तुशास्त्र का सामान्य परिचय प्राप्त किया।
2. वास्तुशास्त्र के मूलभूत सिद्धान्तों के ज्ञान से उनका अनुप्रयोग का कौशल विकसित किया।
3. वास्तुशास्त्र के महत्व एवं वर्तमान में उनकी उपयोगिता से परिचित हुए।

**B.A. II and III year (Semester system w.e.f. 2018-19)**

बी0ए0 द्वितीय वर्ष तृतीय सेमेस्टर 2020-21  
कोर्स आउटकम

प्रथम प्रश्न पत्र—(नाटकं गद्यकाव्यं काव्यशास्त्रं च)

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. प्राचीन कवियों के कालखण्ड को समझ लेते हैं।
2. समसामयिक राजनीतिक, आर्थिक, सांस्कृतिक परिस्थितियों एवं व्यवहार शैली की समझ।
3. संस्कृत के श्लोकों के शुद्ध उच्चारण का अभ्यास कर लेते हैं।
4. काव्य लक्षण का परिचय प्राप्त कर लेते हैं।

द्वितीय प्रश्न पत्र—व्याकरण निबन्ध: गद्यनाट्यसाहित्येतिहासश्च

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. व्याकरण के संज्ञा, सन्धि, के नियम को जानकर नये शब्दों को बना लेते हैं।
2. संस्कृत भाषा में अनुवाद शैली में कुशलता प्राप्त कर लेते हैं।
3. संज्ञा सन्धि तथा शब्दों के नियम जानकर उन्हें विभक्तियों में बना लेते हैं।

बी0ए0 द्वितीय वर्ष चतुर्थ सेमेस्टर 2020-21  
कोर्स आउटकम

प्रथम प्रश्न पत्र—(नाटकं गद्यकाव्यं काव्यशास्त्रं च)

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—



1. प्राचीन कवियों के कालखण्ड को समझ लेते हैं।
2. समसमायिक राजनीतिक, आर्थिक, सांस्कृतिक परिस्थितियों एवं व्यवहार शैली की समझ।
3. संस्कृत के श्लोकों के शुद्ध उच्चारण का अभ्यास कर लेते हैं।
4. काव्य लक्षण का परिचय प्राप्त कर लेते हैं।

**द्वितीय प्रश्न पत्र—व्याकरण निबन्ध: गद्यनाट्यसाहित्येतिहासश्च**

1. व्याकरण के संज्ञा, सन्धि, के नियम को जानकर नये शब्दों को बना लेते हैं।
2. संस्कृत भाषा में अनुवाद शैली में कुशलता प्राप्त कर लेते हैं।
3. संज्ञा सन्धि तथा शब्दों के नियम जानकर उन्हें विभक्तियों में बना लेते हैं।

बी0ए0 तृतीय वर्ष पंचम सेमेस्टर 2020-21

कोर्स आउटकम

**प्रथम प्रश्न पत्र—वेदमन्त्राः, अपठितांशः, भारतीयसंस्कृतिश्च**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. अपने प्राचीन ग्रन्थ वेद उपनिषद् गीता रामायण की विशेष जानकारी।
2. समसमायिक राजनीतिक, आर्थिक, सांस्कृतिक परिस्थितियों एवं व्यवहार शैली की समझ।
3. संस्कृत के श्लोकों एवं मंत्रों के शुद्ध उच्चारण का अभ्यास कर लेते हैं।

**द्वितीय प्रश्न पत्र—नाटकम्, व्याकरणम्, छन्दश्च**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. व्याकरण के समास के नियम को जानकर नये शब्दों को बना लेते हैं।
2. छन्द के नियम को जानकर संस्कृत के श्लोकों एवं मंत्रों के शुद्ध उच्चारण का अभ्यास कर लेते हैं।

**तृतीय प्रश्न पत्र—आधुनिकसंस्कृतसाहित्यम्**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. आधुनिक कवियों की कविताओं से रचना शैली की कुशलता आती है।
2. आधुनिक काल में पद्य एवं गद्य रचनाओं का ज्ञान होता है।

बी0ए0 तृतीय वर्ष षष्ठ सेमेस्टर 2020-21

कोर्स आउटकम

**प्रथम प्रश्न पत्र—वेदमन्त्राः, अपठितांशः, भारतीयसंस्कृतिश्च**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. अपने प्राचीन ग्रन्थ वेद उपनिषद् गीता रामायण की विशेष जानकारी।
2. समसमायिक राजनीतिक, आर्थिक, सांस्कृतिक परिस्थितियों एवं व्यवहार शैली की समझ।
3. भारतीय संस्कृति के षोडशसंस्कारों का ज्ञान प्राप्त कर लेते हैं।

**द्वितीय प्रश्न पत्र—नाटकम्, व्याकरणम्, छन्दश्च**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. व्याकरण के प्रत्यय के नियम को जानकर नये शब्दों को बना लेते हैं।
2. छन्द के नियम को जानकर संस्कृत के श्लोकों एवं मंत्रों के शुद्ध उच्चारण का अभ्यास कर लेते हैं।

**तृतीय प्रश्न पत्र—धर्मशास्त्रं नीतिशास्त्रं च**

कोर्स आउटकम—इन प्रश्नपत्रों को पढ़ने पर छात्रों में इस योग्य होते हैं—

1. स्मृतिग्रन्थों नीतिग्रन्थों को पढ़ने से उनमें नैतिक मूल्यों का विकास हो जाता है।



## Department of Hindi- B.A. Functional Hindi

B.A. I year- (NEP-CBCS-w.e.f. 2021-22)

B.A. II & III year- ( Semester System w.e.f.2018-19)

<u>पाठ्यक्रम संशोधित आउटकम (2021-2022)</u> N. U. P. प्रयोगशाला हिंदी उपन मेमेबर		
<u>पाठ्यक्रम का नाम</u>	<u>शैक्षणिक आउटकम</u>	<u>शिक्षण-उपायन</u>
<u>उपन प्रश्न-पत्र - हिंदी भाषा और देवनागरी लिपि</u>	हिंदी भाषा एवं लिपि के स्वरूप को समझ लेने में जिससे प्रयोगशील परीक्षाओं में सहायता मिलेगी।	कला माध्यम, अभिप्राय माध्यम, प्रयोगशील, छात्र-कक्षा, लिखित परीक्षा
<u>द्वितीय प्रश्न-पत्र - प्रयोगशाला हिंदी और राजभाषा नीति</u>	हिंदी की प्रयोगशीलता के पक्ष के साथ-साथ संविधान में राजभाषा हिंदी की संवैधानिक स्थिति को समझकर, भाषा नीति के लिए सज्ज होकर।	कार्यशाला, प्रयोगशाला, प्रयोगशील, प्रारम्भिक प्रयोग, लिखित परीक्षा

# N. E. P. प्रयोजन मूलक हिन्दी

द्वितीय सेमेस्टर (2021-22)

## पाठ्यक्रम का नाम

प्रथम प्रश्न पत्र : कार्योन्मी  
हिन्दी

पुनर्व प्रश्न पत्र : - प्रायोगिक  
कार्य

भाषा अध्यापन एवं  
पत्र निर्माण का अभ्यास

## शैक्षणिक आउटकम

कामनिष्ठ एवं व्यवसाय के वैश्विक  
कार्यों में उद्युक्त होने वाले पत्रों के  
लिखने की समझारी प्राप्त होगी।

हिन्दी का व्याकरणिक ताल एवं  
लेखन कला को समझना  
के लिये

## निर्दिष्ट उपाय

साहित्य पत्रिका, प्रतियोगिता  
विभागीय स्पर्धा, प्रोजेक्ट निर्माण  
निर्दिष्ट परीक्षा

निर्दिष्ट परीक्षा, कक्षा अध्यापन  
शैक्षणिक दृष्टिकोण, प्रतियोगिता  
साहित्य पत्रिका

## पाठ्यक्रम संबंधी आउटकम

प्रयोजनमूलक हिन्दी की र तृतीय सेमेस्टर (2020-2021)

## पाठ्यक्रम का नाम

प्रथम प्रश्न पत्र : अनुवाद : सिद्धान्त  
और प्रयोग

द्वितीय प्रश्न पत्र : विज्ञापन और  
हिन्दी भाषा

## शैक्षणिक आउटकम

राष्ट्रीय संस्कृतिय स्वरूप एवं व्यावसायिक  
दृष्टि से अनुवाद विभागीय प्रतियोगिता  
को समझना सीखना

द्वितीय प्रश्न पत्र के माध्यम से प्रचार  
आवेदन का लेखन कर सकेंगी और  
स्वतंत्र व्यवसाय की ओर अग्रसर  
होंगी।

## निर्दिष्ट उपाय

कक्षा व्याख्यान  
प्रोजेक्शन  
प्रतियोगिता, पी. पी. टी.  
निर्दिष्ट व्याख्यान

समूह पत्रिका  
कक्षा अध्यापन  
निर्दिष्ट व्याख्यान  
पी. पी. टी. प्रोजेक्शन

पाठ्यक्रम संलग्नी आइटम

पाठ्यक्रम संलग्नी आइटम

प्रयोजनमूलक हिन्दी बी.ए. चतुर्थ सेमेस्टर (2020-2021) MCQ

पाठ्यक्रम का नाम	शैक्षणिक आइटम	शैक्षणिक उपाय
प्रथम प्रश्न पत्र:- कंप्यूटर और हिन्दी भाषा	विद्यार्थी कंप्यूटर तकनीक का ज्ञान लेकर हिन्दी में कार्य करने में सक्षम होगा तथा कंप्यूटर में हिन्दी से संबंधित सॉफ्टवेयरों से परिचित लेकर उनके संचालन में दक्षता प्राप्त कर सकेगा	पी.पी.टी. प्रेजेंटेशन, प्रश्नोत्तरी, समूह चर्चा, कक्षा व्याख्यान
द्वितीय प्रश्न पत्र:- प्रायोगिक कार्य	कंप्यूटर पर हिन्दी की जानकारी इंटरनेट के माध्यम से प्रकाशित प्रसारित कर जीविकोपार्जन कर सकेगा	कार्यशाला, पी.पी.टी.

पाठ्यक्रम संलग्नी आइटम

प्रयोजनमूलक हिन्दी बी.ए. पंचम सेमेस्टर (2020-2021)

पाठ्यक्रम का नाम	शैक्षणिक आइटम	शैक्षणिक उपाय
प्रथम प्रश्न पत्र:- टिप्पणी एवं आलोचना	इस प्रश्नपत्र के माध्यम से विद्यार्थियों को कार्यलय में कार्य आनेवाली विभिन्न पदवियों की जानकारी मिलेगी	कक्षा व्याख्यान, प्रश्नोत्तरी, आंतरिक मूल्यांकन, लिखित परीक्षा
द्वितीय प्रश्न पत्र:- व्यंग्य भाष्य	विद्यार्थियों को व्यंग्य भाष्यों की जानकारी मिलेगी जिससे वह अपने व्यंग्य के लिए क्षेत्र विशेष का चयन कर पायेंगे	पी.पी.टी., प्रेजेंटेशन, समूह चर्चा, स्लाइड-शो, लिखित परीक्षा, आंतरिक मूल्यांकन
तृतीय प्रश्न पत्र:- अनसंपर्क और रेडिओड्रैम	विभिन्न व्यंग्य के माध्यमों की जानकारी एवं तथेष्ट, अनुभव, रस्य वगैरह का रस	कार्यशाला, पी.पी.टी., प्रेजेंटेशन, समूह चर्चा

## पाठ्यक्रम संख्या ११ अउटकन

प्रोफेसर हिंदी बी. ए. चण्ड सेक्टर  
बहुविध प्ररूप (M. E. Q)

<u>पाठ्यक्रम का नाम</u>	<u>शैक्षणिक अउटकन</u>	<u>विषय उपायन</u>
<u>प्रथम प्ररूप - हिंदी लिटिरेचर</u>	प्रि नीति का व्यवहारिक जानकारी अपन दोष, जिससे व्यवहार के लिए मित्र मित्रों का उपाय कर पाएंगे।	इतिहास, विज्ञान, अन्य उपाय, व्यवहारिक उपाय अन्य उपायों के कार्यालय का अपन एवं व्यवहारिक जानकारी
<u>द्वितीय प्ररूप - पारिभाषिक शब्दावली</u>	हिंदी के अउतकन का वें प्रविष्टि की उपायन का विज्ञान उपायों में लगने की उपाय की वें लगने विज्ञान की।	कार्यालय, प्रेसिडेंट, बी. बी. बी. पारिभाषिक विज्ञान की।
<u>तृतीय प्ररूप - आयोजन कार्य</u>	व्यवस्था के अउतकन ज्ञानों, विषयों और उपायों वें के उपाय में व्यवस्था अपन कर पाएंगे।	प्रोफेसर निजी विज्ञान और विज्ञान के अउतकन

B.A. - Hindi

B.A. I year- (NEP-CBCS-w.e.f. 2021-22)

B.A. II & III year- ( Semester System w.e.f.2018-19)

B.A. Semester I& II (NEP )

पाठ्यक्रम सम्बंधित आउटकम राष्ट्रीय शिक्षा नीति		
हिन्दी बी०ए० प्रथम सेमेस्टर २०२१-२०२२		
पाठ्यक्रम का नाम	शैक्षणिक आउटकम	शिक्षण उपागम
प्रथम प्रश्नपत्र : हिन्दी साहित्य का इतिहास [आदिकाल से शीतकाल तक]	आदिकाल के परिवेश- राजनीतिक, सामाजिक, सांस्कृतिक, धार्मिक परिस्थितियों से भली-भांति परिचित हो सकेंगे। रीतिकालीन कविताओं के वाचन, लेखन, विश्लेषण और परिवेश का समझ विकसित होगी,	विभागीय व्याख्यान, आंतरिक मूल्यांकन, प्रोजेक्ट-निर्माण, प्रेजेंटेशन प्रश्नोत्तरी
द्वितीय प्रश्नपत्र: भक्तिकालीन हिन्दी काव्य	भक्तिकालीन इतिहास का विश्लेषणात्मक ज्ञान, प्रमुख भक्तिकालीन कवियों के जीवन परिचय व उनकी कविता की जानकारी मिलेगी,	कक्षा व्याख्यान, आंतरिक मूल्यांकन, काल्प पाठ, प्रोजेक्ट-निर्माण, प्रेजेंटेशन

पाठ्यक्रम सम्बंधित आउटकम २०२१-२०२२ राष्ट्रीय शिक्षा नीति		
हिन्दी बी०ए० द्वितीय सेमेस्टर [MCQ]		
पाठ्यक्रम का नाम	शैक्षणिक आउटकम	शिक्षण उपागम
तृतीय प्रश्नपत्र : रीतिकालीन हिन्दी काव्य	१- 'कला-काल' अलंकृत काल प्रभृति अन्य नामों से जाने वाले रीतिकालीन हिन्दी साहित्य पर भारत की मध्यकालीन दरबारी संस्कृति पुरुष सत्तात्मक संगमती और भोग पादी मूल्यों कलावादी संस्कारों का जिन परिस्थितियों में गहरा प्रभाव पड़ा उसका ज्ञान विद्यार्थियों को होगा, २- धनानंद आदि रीतिसिद्ध रचनाकारों के अध्ययन से स्वयं सन्दर्भतावादी मूल्यों के विरोधी प्रवृत्तियों का परिचय विद्यार्थियों को होगा	समूह चर्चा, विभागीय व्याख्यान, प्रश्नोत्तरी, कार्य-शाला, लिखित परीक्षा, प्रोजेक्ट-निर्माण,
चतुर्थ प्रश्नपत्र: हिन्दी भाषा तथा देवनागरी लिपि	हिन्दी भाषा तथा देवनागरी लिपि के अध्ययन से दक्षिण को भारत की राजभाषा हिंदी एवं उसकी लिपि का ज्ञान प्राप्त होगा, यह प्रश्नपत्र हिन्दी भाषा का तात्त्विक परिचय देने के साथ देवनागरी लिपि के विकास, गुण-दोष एवं मानकीकरण का ज्ञान प्रदान करेगा,	प्रेजेंटेशन, प्रोजेक्ट निर्माण, आंतरिक मूल्यांकन, लिखित परीक्षा

## B.A. Semester III

पाठ्यक्रम सम्बंधित आउटकम 2020-2021		
हिन्दी बी० ए० तृतीय सेमेस्टर		
पाठ्यक्रम का नाम	बैदायिक आउटकम	शिक्षण उपागम
प्रथम प्रश्नपत्र: आधुनिक काव्य	हिन्दी साहित्य के आधुनिक युग का विशिष्ट ज्ञान प्राप्त होगा प्रमुख कवियों व उनकी कविता की समझ विकसित होगी,	व्याख्यान, सामूहिक चर्चा, आंतरिक मूल्यांकन, प्रश्नोत्तर, प्रयोगकारी कार्यशाला, साहित्यिक निवेदन परीक्षा
द्वितीय प्रश्नपत्र: हिन्दी उपन्यास साहित्य	उपन्यास साहित्य तथा उपन्यासकारों के विषय में ज्ञान प्राप्त होगा उपन्यास की उपयोगिता और विश्लेषण की समझ विकसित होगी,	व्याख्यान, आंतरिक मूल्यांकन, प्रोजेक्ट निर्माण, फिल्म स्क्रिपिंग, कार्यशाला

## B.A. Semester IV

पाठ्यक्रम का नाम	बैदायिक आउटकम	शिक्षण उपागम
प्रथम प्रश्नपत्र: हिन्दी साहित्य का इतिहास	विकास के क्रम में साहित्य के माध्यम से समाज और संस्कृति की पहचान के लिए साहित्य इतिहास के अध्ययन का महत्व निर्विवाद है। साहित्य इतिहास के अध्ययन का एक प्रयोजन साहित्य के विकास की गति और दिशा के साथ समाज के विकास को भी चिन्हित करना है।	सामूहिक चर्चा, विभागीय व्याख्यान, आंतरिक मूल्यांकन, प्रोजेक्ट, पीपीटी, प्रस्तुति, प्रश्नोत्तर
द्वितीय प्रश्नपत्र: हिन्दी कहानी साहित्य	हिंदी कथा साहित्य का परिचय प्रमुख कहानीकार और उनकी कहानी के माध्यम से कहानी की उपयोगिता और विश्लेषण की समझ	सामूहिक चर्चा, विभागीय व्याख्यान, आंतरिक मूल्यांकन, प्रोजेक्ट निर्माण, फिल्म स्क्रिपिंग

## B.A. Semester V

पाठ्यक्रम का नाम	बैदायिक आउटकम	शिक्षण उपागम
प्रथम प्रश्नपत्र: अद्यतन हिन्दी काव्य [भाग-1]	आधुनिक कविता की समझ विकसित होगी, कविताओं के वाचन, लेखन विश्लेषण और परीक्षा की समझ विकसित होगी	मध्य काव्य प्रतिगोमिता, पीपीटी प्रस्तुति, विभागीय व्याख्यान, सामूहिक चर्चा, प्रोजेक्ट निर्माण
द्वितीय प्रश्नपत्र: अद्यतन हिन्दी काव्य [भाग-2]	साहित्यिकता और समकालीन परिवेश के मध्य सम्बन्ध का विश्लेषण, हिन्दी साहित्य के आधुनिक युग के कवियों का विशिष्ट ज्ञान	काव्य कार्यशाला, प्रश्नोत्तर, काव्य प्रतिगोमिता, कवि दर्बार
तृतीय प्रश्न: हिन्दी निबंध तथा अन्य गद्य विधायक	हिन्दी साहित्य के गद्य का विशिष्ट ज्ञान प्रमुख लेखकों और उनकी कविता की समझ विकसित होगी,	विभागीय व्याख्यान, सामूहिक चर्चा, प्रश्नोत्तर, प्रोजेक्ट निर्माण, आंतरिक मूल्यांकन

## B.A. Semester VI

पाठ्यक्रम सम्बंधित आउटकम 2020-2021		
हिन्दी बी० ए० षष्ठ सेमेस्टर [M.C.Q.]		
पाठ्यक्रम का नाम	बैदायिक आउटकम	शिक्षण उपागम
प्रथम प्रश्नपत्र: आधुनिक अवधी काव्य	अवधी कविता की समझ विकसित होगी, कविताओं के वाचन, लेखन विश्लेषण और परीक्षा की समझ विकसित होगी	पी.पी.टी. प्रस्तुति, काव्य पाठ, विभागीय व्याख्यान, सामूहिक चर्चा, प्रोजेक्ट निर्माण
द्वितीय प्रश्नपत्र: आधुनिक उर्दू काव्य	उर्दू भाषा का ज्ञान व समझ विकसित होगी कवियों की जानकारी मिलेगी	व्याख्यान, सामूहिक चर्चा, आंतरिक मूल्यांकन, प्रोजेक्ट निर्माण
तृतीय प्रश्नपत्र: हिन्दी व्याकरण	व्याकरण की सूक्ष्म जानकारी प्रदान करना शुद्ध वर्तनी की जानकारी देना	व्याख्यान, सामूहिक चर्चा, आंतरिक मूल्यांकन, पी.पी.टी. विशिष्ट व्याख्यान, प्रोजेक्ट निर्माण



**DEPARTMENT OF POLITICAL SCIENCE  
CHOICE BASED CREDIT SYSTEM 2021-2022**

**PROGRAM OUTCOME**

Help students to understand the basic principles of Political Science.

It is helpful in understanding the Political ideas of western and Eastern political thinkers

Helpful in understanding the constitutional and political structure of different countries

**Program Specific Outcome**

- Students are informed about the constitutions of Indian and western political thinkers to the background of political theory
- The study of the constitution of India creates the ideal citizens in society
- Students are able to understand the role of public administration in India
- Help students world scenario
- Helpful in the comparative study of constitution of major countries of the world

**Course Outcome**

**Course-1Sem-1 Paper Name- Political theory**

- This course will familiarize students with the basic concepts in political Theory and encourage them to understand how they manifest in social practices
- It will enable the students to understand the Nature of State and various theories of the origin of the State.
- Students will understand the significance of theorizing and of applying Theory in to practice.

**Course-2 ,Sem-1 Paper Name—National Movement of India**

- Student will understanding the evolution of nationalism in India
- Student will understand the political resurgence which led to the independence of India
- Students will understand the processes in the framing of Indian Constitution and its inherent philosophy .

**Course-3,Sem-2, Paper Name—Political Concepts**

- Students will develop a comprehensive understanding of essential Political Concepts like Sovereignty and pluralism.
- Students will understand the different forms of government and their functioning.
- Students will develop an understanding of various practices related to the State and Democracy.

**Course-4 ,Sem-2 Paper Name- Introduction to Indian Constitution**

- The course enlightens the students about the background and making of the Constitution with its salient features
- This course acquaint students with the Constitutional design of the State and the structure and functions of the union government.
- The students will become aware about their fundamental rights and duties as Indian citizens.
- It will encourage a study of implementation of Directive Principles of State policy

**Old Course**

**Course -5,sem -3,Paper Name-History of western political though-1**

- The course will benefit the students by focusing
- It will impart in depth knowledge about the diverse streams of western political theory and though
- It will familiarize Students on the evolution of the state in the west

### **Course-6,Sem-3 ,PaperName- Comparative Government -1**

- Will develop an understanding of the working of Parliamentary government in Britain
- The working of cabinet supremacy in a monarchical
- Setup will be understood
- Will develop an understanding of presidential system in USA

### **Course -7,Sem-4 Paper Name -History of western political though-2**

- It provides a foundation to students of political Science in familiarizing them to the thought and theory of western philosophy in modern Era
- It particularly focuses on the evolution of ideas and institution of state in the west

### **Course-8 ,Sem-4,Paper Name-Comparative Government-2**

- Will develop an understanding of plural executive system in Switzerland
- Direct democracy and its advantages will be understood
- Will develop an understanding of the political system in France

### **Course-9 Sem-5, Paper Name- Principles of Public Administration**

- Enable students to gain an Overview of the discipline
- Introduces students to the discipline and its changing contours through a study of Governmance, good Governance and responsive Administration
- Equips students to analyze the various Principles of organization.
- Students will specially come to know about Administrative controls, public corporation and independent regulatory commissions

### **Course-10 Sem-5,Paper Name, Ancient Indian Political Thought**

- Will understand the Political Ideas of Ancient Indian scholars such as Manu, Bhism,Shukraand Kautilay
- Will understand and evaluate the Ideas of Ancient Indian thinkers, framed by specific themes.
- Will understand the Concept of law, justice and types of State in Ancient India

### **Course -11,Sem-5 ,International Politics-1**

- Will gain understand of the evolution of International Politics as a distinct discipline
- Will understand the theoretical and conceptual dimension of International Politics.
- They become aware of the major approaches and debates in the study of International Politics

### **Course-12 Sem-6 Paper Name—Indian Administration**

- Will develop in understanding of the Administrative services in India
- Will be able to comprehend the working of NitiAyog
- The relationship between Bureaucracy and Executive will be understood

### **Course-13 sem-6, Paper Name- Modern Indian political Thought**

- The course will develop a knowledge of key Philosophical issues to students of this discipline.
- The course is designed to benefit students to understand the Nature, method and the significance of modern political Thought.



## **Course -14 ,sem-6 ,Paper Name- International Politics-2**

- Students gain an insight into the Cold war and Post Cold war International relation.
- They develop an understanding of 9/11 and its impact on the International relations.
- They also become aware of the contemporary global challenges and the new trends in International relation.
- The students acquire knowledge of International organisations.

### **LEARNING OUTCOME**

Students will be able to understand political principles

Students will be able to understand the Indian National Movement and the reasons of the partition of India

Students will be able to understand the system of formulation and implementation of public policy by the government

Students will be able to understand the appropriate system and political culture On the basis of comparative study of State system of major countries of the world

Students will be able to understand importance and relevance of the ideas of Western and Indian political thinkers

Students will be able to understand the national interest, how to avoid war, and Foreign policy

The course of political science subject is not skill- oriented, but there are possibilities of employment it makes students ideal, conscious and responsible citizens

## **Department of Education**

### **Program B.A Education**

#### **B.A. (Education) as per National Education Policy 2020**

**Session: 2021-2022**

### **Program Outcome**

This course is meant for future educators and educational administrators. Education is a process of acquisition of knowledge, values, culture, and skills. After completion of the program. Graduates will be able to correlate and apply education with life situations. They will be able to understand its interdisciplinary nature. Program will be helpful in conceptualization and synthesis of knowledge of educational aspects in relation to: Human development, human behaviour, teaching, learning, measurement and evaluation, society and nation.

### **Program Specific Outcomes:**

This course provides the basic ideas and concepts of education and nature of education. Discourse intends to clarify the educational aims and functions. This course will help students to understand constitutional values and provisions for education. This paper will help in developing analytical and critical thinking based on the themes and issues of education. This course will also attempt to build an understanding about the agencies and structure of Indian education system i.e. Pre-primary, Primary, Secondary, and higher-level learners are introduced to various governing /regulatory systems of the education system. This course aims to acquaint students with modern education in contemporary India. It would familiarise them with key debates prevalent during the anti-colonial struggle and subsequent developments in post-independent India. This paper introduces the challenges faced by Indian education and initiates a critical analysis of concerns and solutions towards better education.

### **B.A- 1 Semester -1 (Education as 1st Major Subject)**

#### **Paper-1: Conceptual Framework of Education-I**

#### **Course Outcome**

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

- ☐ Understand, the meaning, nature, scope, and aims of education.
- ☐ Explain the factors of education and their interrelationship.
- ☐ To become aware of different agencies of education that influence education.

- ☐ Acquainted with the constitutional values and educational provisions.

### **B.A -I Semester -1**

#### **Paper -2: Development and challenges of Indian Education System-I**

##### **Course Outcome**

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

- ☐ Understand the development of Indian education during different ages.
- ☐ Analyse the trends of education running in the different education systems.
- ☐ Narrate the major contributions of Indian educational heritage in the different fields of study.
- ☐ Discuss the views of foreign travellers about Indian culture and educational heritage.

### **B.A- I Semester-II**

#### **Paper- 1: Conceptual Framework of Education-II**

##### **Course Outcome**

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

- ☐ Distinguish between different levels of the education system.
- ☐ Explain the present status of different levels of education.
- ☐ Identify the level of education and concern governing /regulatory bodies.
- ☐ Differentiate the needs and importance of different levels of education.

### **B.A- I Semester-II**

#### **Paper- 2: Development and challenges of Indian Education System-II**

##### **Course Outcome**

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

- ☐ Identify the problems of Indian education system at different levels of education.
- ☐ Assess the root cause of challenges faced by Indian education system.
- ☐ Discuss various factors affecting Indian education.

### **Education as Minor Subject**

#### **B.A- 1 Semester -1**

##### **Paper-1: Conceptual Framework of Education.**

##### **Course Outcome**

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

- ☐ Understand the meaning, nature, scope, and aims of education.
- ☐ Explain the factors of education and their interrelationship.
- ☐ To become aware of different agencies of education that influence education.
- ☐ To be acquaint with the constitutional values.
- ☐ Identify the level of education and concern governing /regulatory bodies.

#### **B.A- 1 Semester -II**

##### **Paper-2: Development and Challenges of Indian Education System.**

##### **Course Outcome**

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

- ☐ Understand the development of Indian education during different ages.
- ☐ Narrate the major contributions of Indian Educational Heritage in the different fields of study.
- ☐ Discuss the views of foreign travellers about Indian cultural and educational heritage.
- ☐ Identify the problems of Indian education at different levels
- ☐ Assess the root cause of challenges faced by Indian Education system.
- ☐ Discuss various factors affecting Indian education.

## **B.A- II Semester-III**

### **Paper-1: Philosophical foundations of Education**

#### **Course Outcome**

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

- ☐ Understand the meaning, concept, scope of Philosophy, Education & their relationship.
- ☐ Comprehend and know the role of Democratic & Socialistic pattern of Education.
- ☐ Understand and explore various Western & Indian Schools of Philosophy in the present context of Education.
- ☐ Illustrate the contributions of Great Western thinkers to Educational Philosophy.

## **B.A- II Semester-III**

### **Paper-2: Child Development**

#### **Course Outcome**

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

- ☐ To understand the growth of human development.
- ☐ To understand the role of heredity, environment & individual difference.

## **B.A- II Semester-IV**

### **Paper-1: Educational Thoughts & Practices**

#### **Course Outcome**

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

- ☐ Understand and illustrate the contributions of great Western and Indian thinkers to Educational thoughts & practices.
- ☐ Understand the principles of Indian Schools of Philosophy.
- ☐ Explain and examine different Educational practices.
- ☐ Understand the importance of values in Human life and in Global Development.
- ☐ Understand and Foster the values of Indian Constitution.
- ☐ Know about the maker of Modern India.

## **B.A- II Semester-IV**

### **Paper-2: Educational Psychology**

#### **Course Outcome**

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

- ☐ To develop an understanding of the nature scope and methods of educational psychology.
- ☐ To acquire knowledge of learning theories and its relevance.
- ☐ To develop an understanding of the process and psychology of learning.
- ☐ To understand the concept of intelligence

## **B.A- III Semester-V**

### **Paper-1: Measurement and Evaluation in Education**

#### **Course Outcome**

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

- ☐ Know about the concept of measurement and evaluation and clarify their differences
- ☐ Know about psychological testing
- ☐ Understand the concept of intelligence test and classification of intelligence test.
- ☐ Know about the concept of personality and its assessment techniques.

### **B.A- III Semester-V**

#### **Paper-2: Education for Special Children**

##### **Course Outcome**

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

- ☐ Know the meaning and concept of Special Children.
- ☐ Become aware of the specific needs of Special Children.
- ☐ Acquire the knowledge of provisions with special reference to Special Children.

### **B.A- III Semester-V**

#### **Paper-3: Education and Technology**

##### **Course Outcome**

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

- ☐ Know about basic elements of technology used in Education.
- ☐ Acquaint themselves with different types of Educational Technology.
- ☐ Know about simple teaching techniques and their use in audio visual aids.
- ☐ Acquaint themselves with information and communication technology.

### **B.A- III Semester-VI**

#### **Paper-1: Statistics in Education**

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

- ☐ Develop understanding of Statistical Concepts and their significance in Education.
- ☐ Acquire and extend Computational skill.
- ☐ Understand the logic of Statistics.
- ☐ Learn Data Analysis and its Interpretation.

### **B.A- III Semester-VI**

#### **Paper-2: Guidance and Counselling**

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

- ☐ Know the meaning, importance and types of Guidance and Counselling.
- ☐ Sensitize towards the Educational and Vocational needs of the students.
- ☐ Understand the need of Guidance in Education.
- ☐ Understand the importance of Counselling in Education.

### **B.A- III Semester-VI**

#### **Paper-3: New Trends in Education**

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

- ☐ Know about new trends in Education.

- ☐ Develop understanding of computer and it's important in Education.
- ☐ Develop understanding of general techniques of innovations.

### **Learning Outcomes**

On successful completion of the program of B.A. (Education), learners will be able to:

- ☐ Understand the meaning, nature, scope and aims of Education.
- ☐ Will get acquainted with the constitutional values and educational provisions.
- ☐ Distinguish between different levels of Education system and its importance.
- ☐ Relate Education with social concern and identify the problems.
- ☐ It will also provide basic understanding to use statistical techniques.

## **COURSE RELATED OUTCOME, CBCS (NEP)**

### **DEPARTMENT OF PHYSICAL EDUCATION**

### **EDUCATIONAL OUTCOME SEMESTER-I**

<b>COURSE NAME</b>	<b>EDUCATIONAL OUTCOME</b>	<b>TEACHING APPROACH</b>
<b>Paper-I Foundations Of Physical Education</b>	Students able to know the origin and purview of Physical Education and analyze the concepts and issues pertaining to physical education.	Lecture, Special Lecture, Guest Lecture and Evaluation by Written Test. Internal Assessment And Viva.
<b>Paper-II Historical Development of Physical Education</b>	Students able to know the origin and development of Physical Education. They can apply the knowledge in sports activities.	Lecture, Special Lecture, Guest Lecture and Evaluation by Written Test. By organizing Workshop and quiz competition. Internal Assessment And Viva.

### **COURSE RELATED OUTCOME , CBCS (NEP)**

### **DEPARTMENT OF PHYSICAL EDUCATION**

### **EDUCATIONAL OUTCOME SEMESTER-II**

<b>COURSE NAME</b>	<b>EDUCATIONAL OUTCOME</b>	<b>TEACHING APPROACH</b>
<b>Paper-III Anatomy And Physiology In Physical Education</b>	Students able to know the concepts of structure and function of human body. They can co-relate training load with principles of physiology.	Lecture, Special Lecture, Guest Lecture and Evaluation by Written Test. By organizing Workshop. Internal Assessment And Viva.

<b>Paper-IV Practical (Track And Field)</b>	Students able to learn the essentials of track and field. They learn, understand and apply the technical skills for better performance in event.	By conducting practical examination.

**SESSION-2021-22**

**COURSE RELATED OUTCOME**

**DEPARTMENT OF PHYSICAL EDUCATION  
EDUCATIONAL OUTCOME SEMESTER-III**

<b>COURSE NAME</b>	<b>EDUCATIONAL OUTCOME</b>	<b>TEACHING APPROACH</b>
<b>Paper- V Fitness, Wellness And Lifestyle</b>	Students can understand the physiological benefits of movement, physical activities, fitness and wellness. They can apply the concepts of fitness and wellness in their lifestyle.	Lecture, Special Lecture, Guest Lecture and Evaluation by Written Test. By organizing Workshop. Internal Assessment And Viva.
<b>Paper-VI Health Education</b>	Students can understand the concepts of good health and wellness. To promote healthy way of living and be able to make fitness plan.	Lecture, Special Lecture, Guest Lecture and Evaluation by Written Test. Internal Assessment And Viva.

**SESSION-2021-22****COURSE RELATED OUTCOME****DEPARTMENT OF PHYSICAL EDUCATION  
EDUCATIONAL OUTCOME SEMESTER-IV**

<b>COURSE NAME</b>	<b>EDUCATIONAL OUTCOME</b>	<b>TEACHING APPROACH</b>
<b>Paper-VII Psychological Foundation Of Physical Education</b>	It explains the group mechanisms and group psychology in a sports context. It enhances the self-concepts, self esteem, self-efficacy and self-confidence.	Lecture, Special Lecture, Guest Lecture and Evaluation by Written Test. Internal Assessment And Viva.
<b>Paper-VIII Practical (One Team Game And One Individual Game)</b>	Students learn about the essentials of team and individual game practices.	By conducting practical examination.

**SESSION-2021-22****COURSE RELATED OUTCOME****DEPARTMENT OF PHYSICAL EDUCATION  
EDUCATIONAL OUTCOME SEMESTER-V**

<b>COURSE NAME</b>	<b>EDUCATIONAL OUTCOME</b>	<b>TEACHING APPROACH</b>
<b>Paper-I Teaching Method And Organization In Physical Education</b>	Students would be able to know about the concepts of teaching method and organization in physical education.	Lecture, Special Lecture, Guest Lecture and Evaluation by Written Test. By organizing Workshop. Internal Assessment And Viva.
<b>Paper-II Kinesiology In Physical Education</b>	It describes fundamental principles of kinesiology, teaching movement related skills. Students would be able to know effectiveness of human movement using mechanical principles.	Lecture, Special Lecture, Guest Lecture and Evaluation by Written Test. Internal Assessment And Viva.

<b>Paper-III Posture, Athletics Care And Rehabilitation</b>	Students learn about the posture, their types. To maximize functional capacity, fitness and performance.	Lecture, Special Lecture, Guest Lecture and Evaluation by Written Test. Internal Assessment And Viva.
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**SESSION-2020-21**  
**COURSE RELATED OUTCOME**  
**DEPARTMENT OF PHYSICAL EDUCATION**  
**EDUCATIONAL OUTCOME SEMESTER-VI**

<b>COURSE NAME</b>	<b>EDUCATIONAL OUTCOME</b>	<b>TEACHING APPROACH</b>
<b>Paper-I Statistics And Computer Application In Physical Education</b>	Students can Identify the research problem in the field of physical education and sports. Students can be able to understand the concept of information and technology in physical education.	Lecture, Special Lecture, Guest Lecture and Evaluation by Written Test. By organizing Workshop. Internal Assessment And Viva.
<b>Paper-II Yogic Science In Physical Education</b>	It helps in understanding the basic concepts of Yoga. It develop the knowledge and of body posture to bring out healthy change.	Lecture, Special Lecture, Guest Lecture and Evaluation by Written Test. By organizing Workshop. Internal Assessment And Viva.
<b>Paper-III Specialization In Any Major Game (Athletics (Track And Field), Team Or Individual Game) Opted In 2nd &amp; 4th Semester)</b>	Students learn about the essentials of major game practices.	By conducting practical examination.



# DEPARTMENT OF SOCIOLOGY

## Programme Outcome

Sociology learning provides initial knowledge about society, social life and social interactions. It prepares an individual to social life by including values, morals and manners.

## Programme Specific Outcome

Sociology seeks to understand all aspects of human social behaviour. Sociologists are motivated both by the desire to better understand the principles of social life and by the conviction that understanding these principles may aid in the formulation of enlightened and effective social policy.

A general Arts Graduate and students of Sociology should be able to develop:

- Critical thinking
- Sociological understanding
- Written and oral communication
- Better understanding of real life situation
- Analytical thinking
- Observation power
- Ethical and social responsibility
- Professional and career opportunities

## Course Outcome

### Course 1 (Sem 1) (NEP)

Introduction To Sociology

This introductory paper is intended to acquaint the students with sociology as a social science and the distinctiveness of its approach among the social sciences.

### Course 2 (Sem 1) SOCIETY IN INDIA (NEP)

The course is aimed at presenting a comprehensive integrated and empirically based profile of Indian Society.

It is hoped that the sociological perspective on Indian Society presented in this course will also enable students to gain a better understanding of their own situation and region.

### Course 3 (Sem 2) (NEP) BASIC CONCEPTS OF SOCIOLOGY

The course is organised in such a way that even students without any previous exposure to Sociology could acquire an interest in the subject and follow it.

### Course 4 (Sem 2) (NEP) INDIAN SOCIETY: ISSUES & PROBLEMS

The course focuses upon continuity between present and past, this continuity is reflected in the structure of the course, the focus is on the contemporary Indian Society.

### Course 5 (Sem 3) FOUNDATION OF SOCIOLOGICAL THOUGHT – {1}

Sociology originated as an intellectual response to the crisis confronting the mid 19th century

European society. This paper is intended to familiarise students with the social, political, economic & intellectual contexts in which sociology emerged as a distinctive discipline.

### Course 6 (Sem 3) SOCIAL CHANGE IN INDIA

The course is designed to provide conceptual and theoretical understanding of social change and development as it has emerged in Sociological Literature.

### Course 7 (Sem 4) WESTERN SOCIOLOGICAL THOUGHT – {2}

Acquaintance with the writing of prominent Sociological thinkers would equip the students with the theoretical insights to know, analyse and interpret the Social scenario around them.

### Course 8 (Sem 4) SOCIAL DEVELOPMENT IN INDIA

The course is intended to prepare the students for professional careers in the field of development planning including government, non-government and international agencies.

#### **Course 9 [ Semester 5] -PIONEERS OF INDIAN SOCIOLOGY -1**

This course is aimed at sensitizing the students to the diversity as well as inter-connectedness of theoretical perspective on Indian Society.

#### **Course 10 [Semester 5] RESEARCH METHODOLOGY**

This course plan aims to provide exposure to the fundamentals of various research techniques and methods. Exposure to field work is intended to enhance the research interests and inculcate the spirit of inquiry among students.

#### **Course 11 [Semester 5] A- RURAL SOCIETY IN INDIA**

This course plan aims to provide sociological understanding of rural Social Structure, change & development in India.

#### **Course 12 ( Semester 6) PIONEERS OF INDIAN SOCIOLOGY – 2**

This course is aimed at sensitizing the students to the diversity as well as inter- connectedness of the theoretical perspective on Indian Society.

#### **Course 13 ( Semester 6) METHODS OF SOCIOLOGICAL RESEARCH**

This paper aims to give glimpse of how to contribute in research.

#### **Course 14 ( Semester 6) B- URBAN SOCIETY IN INDIA**

The student has to be sensitised on urban dimensions of society, its social structure.**LEARNING OUTCOMES**  
By the time of graduation sociology students should be able to :

- Articulate a sociological perspective
- Apply sociological theories to understand social phenomena
- Evaluate and examine human behaviour and social phenomena
- Apply scientific principles to understand the social world
- Comprehend quality of social scientific methods and data
- Use sociological knowledge to inform policy debates and promote public understanding.

Our hope is that the course work will not only provide a solid base of Sociological Knowledge and employability skills, but also that our classroom discussions, assignments, workshops, research methodology based surveys, debates, group discussion, student seminars and other such kind of activities will foster a sense of engagement as citizens committed to making the world more humane and livable.

# **DEPARTMENT OF HISTORY**

**Course: B.A. Medieval and Modern History**

## **Programme Outcome**

History is the vital source of obtain knowledge about a Nation's soul as there can't be a nation without a part. The idea behind the study of the subject is to involve young minds in knowledge production and knowledge participation.

## **Program Specific Outcome**

The three year undergraduate history programme is designed to familiarize students with significant developments in the history of India and certain other parts of the world. This also aims at providing right perception to study and understand History. The main focus is on Indian History but students will also study about European as well as other parts of the world. The purpose is to sensitize students to the perspective through which knowledge about this part is constructed. The students are encouraged to think critically, analyze different perspectives and actively process information about the past rather than became passive recipients of singular historical knowledge. An effort is made to develop terminology befitting our national context and our exploratory nature. Students will be taught through essays, project / research papers, presentations, discussions, debates etc.

The larger goal of this programme is to develop a sense of active citizenship, making responsible political choices of democratic conduct in public life.

Graduates of this programme do branch out to different spheres of knowledge and domains of professional work, besides pursuing higher studies within the discipline. These wider life skills of argumentation and communication, attitudes and temperaments would ultimately enable learners to live meaningful lives.

## **COURSE OUTCOME**

### **Semester-I, Paper I**

#### **History of Medieval India (1206-1526AD)**

#### **NEP 2020 - Delhi Sultanate, Political Aspect (1206-1526 AD)**

### **Course Outcome**

The study of this paper will enable students to:

1. Understand the major shift in Indian History, the advent of the Turkish rule in India.
2. They will be familiarized with Political events taking place during the period under study and also will be able to notice the nature of historical developments.

3. Students will understand the functioning of Turkish Political system and shall also notice the changes brought about in India.

## **Semester-I, Paper-II**

### **Middle Ages in Europe upto 30 years War**

#### **Course Outcome**

After the course the students will acquire in depth knowledge about:

1. Coming of the modern times in the western world.
2. Religious reform movements in Europe.
3. Rules of Spain, England & France – Domestic and foreign policy

## **Semester-II, Paper-III**

### **History of Medieval India (1526-1739 AD)**

#### **NEP-2020 –Mughal Empire, Political Aspects(1526-1739)**

#### **Course Outcome**

The course outcome would be:

1. With progression to the Mughal period, students develop a deeper insight about the evolution of medieval political and administrative institutions.
2. The complete knowledge of the Medieval History of India strengthens their eligibility to join school teachers training programmes after completing their graduation.
3. They will also be prepared for competitive examinations.

## **Semester-II, Paper-IV**

### **History of Europe 1600-1789**

#### **Course Outcome**

1. The political events in various countries of Europe.
2. The foreign policy of European Nations
3. The American War of Independence
4. The causes of the French Revolution of 1789

## **Semester-III, Paper-V**

### **History of Modern India (1740-1857)**

#### **NEP-2020-Modern India Political Aspects (1740-1857)**

#### **Course Outcome**

1. Students will become acquainted with yet another significant change in Indian History, the advent of European powers in India and their struggle for supremacy among them
2. They learn a systematic and gradual expansion of British rule in India, through diplomacy and battles.
3. The stress on causes and consequences of the various battles and political changes enable students to identify the factors leading to sustenance of the British rule.
4. It gives students a knowledge of early phase of constitutional development of India.

## **Semester-III, Paper-VI**

### **History of Europe 1789-1848**

#### **Course Outcome**

After the completion of this course:

1. The three French revolutions – 1789, 1830, 1848
2. The development of various ideologies
3. Domestic affairs of a few European nations

## **Semester-IV, Paper-VII**

## **History of Modern India (1858-1947)**

### **NEP-2020-Modern India (1858-1947) Political and Administrative Aspects**

#### **Course Outcome**

1. The content of this paper gives students understanding in changes in internal political scenario of India during the rule of British Crown.
2. They also understand Foreign policy of India during the colonial period.
3. Students get an overview of constitutional development of India through various stages.
4. Students are able to discern the germination of Indian Nationalism.

## **Semester-IV, Paper-VIII**

### **History of Europe 1848-1918**

#### **Course Outcome**

1. The political events in various countries of Europe.
2. The foreign policy of European nations
3. Domestic affairs of few European countries.
4. Events leading to the world war I

## **Semester-V, Paper- IX**

### **Freedom Struggle and Constitutional development of India(1858-1947)**

#### **NEP-2020- Freedom Struggle of India(1858-1957)**

#### **Course Outcome**

1. Students become acquainted with the arising of nationalist sentiments and resistance towards the colonial policies.
2. They learn about the challenges posed by the Indians to their British rulers.
3. They understand the importance and the real nature of first armed resistance of the Indian people.

4. Develop an insight into the evolution of different ideologies of Nationalism and are able to make a critical appraisal of them.

### **Semester-V, Paper-X**

#### **History of Europe 1919-1929**

##### **Course Outcome**

1. World War-I and its aftermath.
2. The political events in various countries of Europe.
3. The foreign policy of few European nations.
4. The League of Nations and its functions
5. The coming of the Great Depression

### **Semester-V, Paper-XI**

#### **Social-Cultural and Economic History of India(1206-1739 AD)**

##### **NEP 2020- Paper 11A, Title as above**

##### **Course Outcome**

1. Students learn about the vital aspects of the cultural development of India through the processes of assimilation and adaptations through the period under study.
2. Emphasis on Bhakti and Sufi Movements leads to a comprehensive understanding of the evolution of the composite culture of India.
3. Learners get acquainted with architectural and cultural aspects of medieval heritage both tangible and intangible.

### **Semester-VI, Paper-XII**

#### **Freedom Struggle and Constitutional Development of India (1905-1947)**

##### **NEP-2020- Freedom Struggle of India (1858-1957)**

##### **Course Outcome**

1. Students get an extensive knowledge of the constitutional development of India during the latter part of the British rule till India's independence.
2. They learn about different streams of the national struggle, ideologies and ideological conflicts.

3. Students gain a comprehensive knowledge about Gandhian movements and fundamentals of his philosophy and ideology regarding the freedom struggle.
4. They are able to understand role of Revolutionaries in the correct perspective.

### **Semester-VI, Paper-XIII**

#### **History of Europe 1929-1945**

##### **Course Outcome**

1. Rise of Nazism and fascism in Europe
2. World War-II: Origins, courses, events, aftermath
3. United Nations and the emergence of the Cold War

### **Semester-VI, Paper-XIV**

#### **Social-Cultural and Economic History of Modern India (1740-1947 AD)**

##### **NEP-2020- Title as same**

##### **Course Outcome**

1. Students get an exhaustive knowledge of problems, challenges and issues faced by the contemporary Indian society.
2. They are able to understand the efforts made by the British government and Indian reformists to eradicate social evils and dogmas through various social reform movements.
3. They develop an insight into the intricacies of Indian economic system during the colonial rule and also about the laying of foundations of the modernization of India.
4. Students become aware of the eminent personalities who contributed immensely towards cultural, spiritual and political progress of India.

##### **Course Learning Outcome**

1. After completing this programme, student is expected to:
  - Describe significant developments within historical contexts, covered in the syllabus.
  - Identify and analyze the significance of historical changes that take place within a society or culture.
  - Explain the patterns of such transitions
2. Formulate arguments based on a historiographical engagement.



3. Engage with scholarly writings and presentations.
4. Answer, questions, write essays and research papers.
5. Work collaboratively.

### **Department of Ancient Indian History**

#### **Ancient Indian History and Archaeology Programme**

##### **Course Outcome**

##### **Session 2021-22**

#### **Objective of the program in total**

The study of Ancient Indian History is designed to develop the tendency of investigation and a critical understanding of the various sources of literary and archaeological sources and their application in the scientific reconstruction of ancient Indian history. The students are guided to critically understand the different periods of human cultures in chronological sequence and be able to understand the various aspects of history writing, thoughts, and historians of ancient India. The study of the Science and Technology of Ancient India makes students critically understand how far Science and Technology have progressed in ancient India and resulted in bringing Socio-Economic changes in the Society. Indian culture is compatible with science and contributed to the global world. The geography of a region plays the most crucial role in shaping its tradition and culture. The students are helped to critically understand the interrelation between history and geography from prehistoric to the historical period. The students will be able to understand the development of the economic system and set up in its fullest measures in ancient India and will also understand the development of economic policies, rules, processes, trading activities, etc. it gives an insight into the origin and evolution of architectural styles in ancient India, through the centuries. They shall be able to situate ancient Indian architectural developments, in their proper historical context. Thus the study of Indian history would give the right insight and inspiration to students to take up further studies as well as tasks for national regeneration. The objective of the program is also mentioned in year wise distribution in following steps:

#### **BA Program (Three years / Four Years) NEP Year 1 Semester 1 and 2**

##### **Programme Objectives:**

The Programme aims at providing an introductory survey of ancient Indian history to the students, familiarising them with the tools of studying ancient Indian history, and building an understanding of the discipline of history. The Programme spans over a very long period of India's ancient past – from pre-historic times to c 1206 AD, and endeavours to dwell upon major landmarks of ancient Indian history. The Programme is designed with the objective of educating students as scholars, having employability in the Government sector, and preparing them for higher education and research. It trains students, not only for a career in higher studies, but also for various competitive examinations and vocational courses, as for instance, in the fields of field archaeology and museology. The effective implementation of the Programme, however, calls for organizational support, both human and physical, and total devotion and commitment of all the stakeholders.

#### **B.A. Year 2 Semester 3 and 4**

**Programme Objectives:**

The Programme aims at providing an introductory survey of ancient Indian history to the students, familiarising them with the tools of studying ancient Indian history, and building an understanding of the discipline of history. The Programme spans over a very long period of India's ancient past – from pre-historic times to c 1206 AD, and endeavours to dwell upon major landmarks of ancient Indian history. It trains students, not only for a career in higher studies, but also for various competitive examinations and vocational courses, as for instance, in the fields of field archaeology and Museology.

**B.A. Year 3 Semester 5 and 6****Programme Objectives:**

1. To develop a critical understanding of the subject.
2. To critically analyse the importance of social, economic, religious conditions, and art in various civilizations of the ancient world—Sumeria, Babylonia, Assyria and Iran.
3. To acquire an understanding history of a country cannot, and should not, be studied in isolation.

**Programme Specific Outcomes:****BA Program (Three years / Four Years) NEP Year 1 Semester 1 and 2**

After completing the Programme the budding historians will be able to:

- Be familiar with the geographical background of ancient Indian history.
- List the sources and evidence for reconstructing the history of ancient India.
- Analyze the numismatic and epigraphical tools for the study of the history of ancient India.
- Discuss the prehistoric and proto-historic cultures.
- Describe the political history of ancient India.
- Analyze the socio-economic and religious milieu of ancient India.
- Discuss the important political and legal institutions of ancient India.
- Dwell upon the art and architecture of ancient India.
- Analyze India's cultural contacts with south, southeast Asia. Discuss the main civilizations of the ancient world.
- Undertake exploration and excavation work, on a rudimentary level.

**B. A. Year 2 Semester– 3 and 4**

- To develop a critical understanding of the subject;
- To know the beginning and spread of religion in ancient India;
- To critically analyse the evolution of various traditions, institutions and the role of state in it.
- To acquire an understanding of the political background, in which, various aspects of ancient Indian history need to be situated.
- To make students understand the development of religion in ancient India.
- To understand numismatics as a major theme and source for the study of history.
- To know the origin, features, techniques etc. in Indian context.

To understand epigraphy as a major theme and source for the study of history.

- To know the origin, features, techniques etc. in Indian context.

## **B. A. Year 3 Semester– 5 and 6**

- To develop a critical understanding of the subject in the world.
- To know the beginning and spread of religion in ancient Civilization.
- To critically analyse the evolution of various traditions, institutions and the role of state in it in ancient civilizations.
- Students shall be able to gain an insight into the social, economic, religious, and art milieu of various civilization of the ancient world—China, Egypt, Aegean & Greece.
- : Students will be introduced to emergence and development of Sculptural art traditions and paintings up to early medieval period.
- To develop a critical understanding of the subject.
- To critically analyze the importance of state formations to ancient Indian history.
- To acquire an understanding of the political background, in which, various aspects of ancient Indian history need to be situated.

### **COURSE OUTCOME –**

BA Research Program in Ancient Indian History and Archaeology

Syllabus

**YEAR - 1 SEMESTER –I PAPER- 1: Sources and Timeline of Ancient Indian History (Major and Minor)**

**CREDIT- THEORY – 4 PRACTICAL – x**

**COURSE OUTCOME –** • To develop critical understanding of the students for the various sources of literary and archaeological sources and their application in the scientific reconstruction of ancient Indian history; • To make students critically understand the different periods of human cultures in chronological sequence.

Unit-I Archaeological Sources (Stone Age tools, Ceramic Assemblage, Monuments, Inscriptions, seals and Coins)

Unit-II Literal Sources (Vedic Literature, Brahmanical Literature, Buddhist Literature, Jain Literature, historical literature, Biographies, Itihasa-Purana Tradition, Charitas and Account of foreign travelers) Unit-III Stone Age Palaeolithic Period (Date and Characteristics) Mesolithic Period (Date and Characteristics) Neolithic Period (Date and Characteristics) Metal Age Chalcolithic Period (Date and Characteristics) Copper-Bronze Age (Harappan Civilization)

Unit- IV Iron Age (Vedic Period to 600 BCE)

From 600 BCE to 600 CE

From 600 CE to Rajput period

**PAPER- 2 :Political History of Ancient India from c. 600 BC to 187 BC**

**CREDIT- THEORY – 4 PRACTICAL – x**

**COURSE OUTCOME -** • Students shall be able to gain an insight into the process of state formations in India, through the centuries. • They shall be able to situate ancient Indian historical developments, in their proper historical perspective.

Unit I 1. Political condition of northern India in sixth century BC-Sixteen Mahajanpadas and ten republican states.

2. Administrative system of republican states of sixth century BC 3. Achaemenian invasion of India. Unit II 1. Rise of Magadha-Bimbisara, Ajatasatru and the Saisunaga dynasty 2. Alexander's invasion of India and its impact. 3.

The Nanda dynasty-origin, Mahapadmananda. 4. Causes of downfall of Nanda dynasty. Unit III 1. The Mauryan dynasty- sources of study and origin of the Mauryas. 2. Chandragupta 3. Bindusara Unit IV 1. Asoka 2. Successors of Asoka 3. Mauryan administration 4. Decline and downfall of the Mauryan dynasty

## **YEAR –1 SEMESTER –II**

### **PAPER- 3 :Political History of Ancient India from c. 187 BC to c. 550 AD**

**CREDIT- THEORY – 4 PRACTICAL – x**

#### **COURSE OUTCOME**

- Students shall be able to gain an insight into the process of state formations in India, through the centuries.
- They shall be able to situate ancient Indian historical developments, in their proper historical perspective.
- They shall gain an insight into the so-called ‘Dark Age’ of ancient Indian history.
- They shall gain an insight into the so-called ‘Golden Age’ of ancient Indian history.

Unit I 1. Sunga dynasty 2. Kanva dynasty 3. Satavahana dynasty 4. Successors of the Satavahanas Unit II 1. Mahameghavahanas of Kalinga 2. Political condition of southern India 3. The Indo-Greeks 4. The Indo-Scythians and the Indo-Parthians

Unit III 1. Origin and date of the Kushanas 2. Early Kushana rulers, up to Vasudeva I 3. Decline of the Kushana power 4. Successors of the Kushanas

Unit IV 1. The Guptas : The early kings and Chandragupta I 2. Samudragupta 3. Chandragupta II 4. Kumaragupta I 5. Skandagupta and his successors 6. Causes of the downfall of the Gupta dynasty

## **YEAR - 1 SEMESTER –II**

### **PAPER- 4 :Historiography of Ancient India**

**CREDIT- THEORY – 4 PRACTICAL – x**

#### **COURSE OUTCOME –**

- To develop critical understanding of the students for the various aspects history writing, thoughts and historians of ancient India.
- To make students critically understand the works of historian of archaeology, historical period and 20th century.

UNIT- I Meaning and scope of History a. Collection and selection of Data b. Evidence and its transmission c. Causation

UNIT-II Ancient Indian Historians a. Kautilya b. Banbhatt c. Kalhana d. Al-biruni

UNIT- III Important Archaeologist a. Robert Brush Foote b. Sir John Marshall c. H.D. Sankalia

UNIT-IV Historians of 20th century A.D a. R.G. Bhandarkar b. R.C. Majumdar c. D.D. Kaushambi

## **B.A. Year 2 Semester 3 and 4**

### **Paper III Political History**

#### **Unit I**

- 1-Shunga dynasty
- 2-Kanvava dynasty
- 3- Satvahana dynasty
- 4-Successors of the Satvahanas

#### **Unit II**

1. M<sup>h</sup>meghav<sup>h</sup>anas of Kalóga
2. Tribal republics and local monarchies in northern India
3. City states in northern India
4. Political condition of southern India

### **Unit III**

1. Greeks in Bactria
2. Greeks in India
3. Ēaka-Pahlavas
4. Western Kshatrapas : Kshahar<sup>t</sup>a and K<sup>r</sup>ddamaka families

### **Unit IV**

1. Origin and date of the Kush<sup>h</sup>às
2. Early Kush<sup>h</sup>à rulers, up to V<sup>s</sup>sudeva I
3. Decline of the Kush<sup>h</sup>à power
4. Successors of the Kush<sup>h</sup>às

## **PAPER IV: Religious History of ancient India**

### **UNIT I**

1. Sources of Religious history
2. Religious beliefs and practices of the Harappans
3. Vedic religion-classification of Rigvedic Gods.
  - Vedic Yajana.
  - Philosophy of upanishads

### **UNIT II**

1. Life and teachings of Mahavira
2. Sects of Jainism (Digambara and Svetambara)
3. Life and teachings of Gautama Buddha
4. Sects of Buddhism (Hinayana and Mahayana sects)

### **UNIT III**

1. Origin and development of Saivism
2. Sects of Saivism
3. Origin and development of Vaishnavism
4. Avataravada in Vaishnavism

### **UNIT IV**

1. Ajivikas
2. Sun worship
3. Ganapati worship
4. Shakti worship

### **B. A. Semester – IV**

### **Paper V : Political History of the Gupta Dynasty (c 319 AD-550 AD)**

#### **Unit I**

1. Sources for the Study of the Gupta Dynasty
2. Origin and antiquity
3. Early Kings
4. Chandragupta I

#### **Unit II**

1. Samudragupta: Aryavart Campaign
2. Samudragupta: Dakshinapath Campaign
3. Samudragupta: Relations with other Political Powers on the basis of PrayagPrashasti
4. Kacha and Ramgupta

#### **Unit III**

1. Chandragupta II: Relations with contemporary States
2. Chandragupta II: Political and Cultural Achievements
- 3 'Chandra' of Mehrauli pillar inscription
- 4 Kumargupta: Time of Political Stability

#### **Unit IV**

4. Skandgupta: Struggle for Kingdom and Instability
5. Successors of Skandgupt
3. Causes of the downfall of the dynasty
4. Gupta Administration

### **Paper VI : Elements of Ancient Indian Numismatics, Epigraphy, and Palaeography**

#### **Unit I : Epigraphy**

1. Inscriptions as a source of ancient Indian history
2. Types of inscriptions in ancient India
3. An introduction to the edicts of Aśoka
4. Eras in ancient India : Vikrama era, Śaka era, Gupta era

#### **Unit II : Palaeography**

1. Origin and antiquity of writing in India
2. Writing materials in ancient India
3. General features : Maurya Brahmi

4. General features : Gupta Br<sup>h</sup>hmî

### **Unit III : Numismatics**

1. Origin and antiquity of conage in India
2. Coins as a source of ancient Indian history
3. Authority to issue coins in ancient India
4. Techniques of manufacture of coins in ancient India

### **Unit IV : Numismatics**

1. General features : Punch-marked coins
2. General features : Indo-Greek coins
3. General features : Kush<sup>h</sup>à coins
4. General features : Gupta coins

## **B.A. Semester IV**

### **Paper VII -Political History of Ancient India (c 550 A.D. to 750 A.D.)**

#### **Unit I**

1. The Hunas in India
2. Maukharies I: Antiquity and Families
3. Maukharies II: Rular of Kannauj
4. Later Guptas

#### **Unit II**

1. Maukhari- Later Gupta Relation
2. Aulikara Dynasty
3. Vallabhi Dynasty
4. Vakatakas

#### **Unit III**

1. Pushyabhuti Dynasty: Early History
2. Harshvardhan: Political and Cultural Achievement
3. Harshvardhan: Administration
4. Political condition of North India after Harsha: The Chinese Incursion

#### **Unit IV**

1. Shashank of Gauda
2. Bhaskarvarman of Kamarupa
3. Yashovarman of Kannauj
4. LalitadityaMuktapida of Kashmir

### **PAPER VIII: Elements of Archaeology**

#### **Aim of the courseObjectives of the course:**

- i. To explore the term archaeology and to know its scientific beginning;
- ii. To develop a critical reading of the subject;

- iii. To know the philosophy of the subject; and
- iv. To explore the technical aspects of it;
- v. To understand the subject with the aid of other natural and social sciences.

#### **Unit-I**

1. Definition of Archaeology and its relation to other subjects/sciences
2. An Introduction of Indian Pre History
3. Development of Archaeology in India
4. Archaeological exploration

#### **Unit-II**

1. Excavation: Vertical
2. Excavation: Horizontal
3. Methods of recording
4. Stratigraphy: Principles of stratification; components of layers

#### **Unit-III**

1. Harappan Pottery
2. Ochre Coloured Pottery
3. Painted Grey Ware
4. Northern Black Polished Ware

#### **Unit-IV**

1. Excavation at Bhimbetka
2. Excavation at Kalibangan
3. Excavation at Hastinapur
4. Excavation at Sanchankot

### **B.A. Semester V**

#### **PAPER IX: Political History of Early Mediaeval North India**

##### **UNIT I**

1. Origin of the Rajputas
2. The GurjarPratiharas- Origin, Vataaraja, Nagabhata II, Mihirbhoja, Mahendrapala and Mahipala
3. Decline of the Pratiharas

##### **UNIT II**

1. The Pala dynasty- Dharmapala, Devapala
2. The Chandellas dynasty- origin, Yasovarman, Dhanga, Vidyadhara
3. The Paramaras- origin, Munjaraja, Bhoja

##### **UNIT III**

1. The Chanmana dynasty- ArnorajaPrathviraja III
2. The Gahadavala dynasty- GovindachandraJayachandra
3. The Sena dynasty- Vijayasena, Lakshmanasena



#### **UNIT IV**

1. Arab invasion of Sindh
2. Invasion of Mahamood of Ghazni
3. Invasion of Mohammad of Ghur
4. Causes of the defeat of the Rajputas

#### **PAPER X: Ancient Indian Architecture**

#### **UNIT I**

1. Stupa Architecture
  - (i) Origin and development of Stupa Architecture
  - (ii) General characteristic features of north west Indian stupas with special reference to Takht-i-bahi stupa
  - (iii) General characteristic features of central Indian stupas with special reference to Sanchimahastupa
  - (iv) General characteristic features of south Indian stupas with special reference to Amravati mahastupa

#### **UNIT II**

1. Building Architectutre
  - (A) Structural – (a) Secular buildings: Indus valley town planning and buiodings.  
(b) Religious buildings: Salient features of monasteries at Sarnath and Nalanda
  - (B) Rock-cut Architecture
    - (i) Beghinning of rock-cut architecture: Mauryan caves
    - (ii)General features and terminology related to rock-cut architecture
    - (iii) Hinayana and Mahayana rock-cut caves
      - (a) General features of monasteries at Bhaja, Ajanta and Ellora
      - (b) General features of chaityas: Bhaja , Karle and Cave no. 19 at Ajanta
      - (c) General features of rock cut Brahmanicval temples at Ellora (cave no. 14, 15, 16, 21 and 29) and Elephanta (main cave)

#### **UNIT III**

##### Temple Architecture

1. Symbolism of a Hindu temple
2. Origin of Temple Architecture and early tgemples
3. Temple styles
  - (I) Nagara
  - (ii) Dravida
  - (iii) Vessara

4. Gupta temples: General features of temple no. 17 at Sanchi, Bhumra, Nachna, Kuthara, Bhitragaon and Dashavatara temple at Deogarh
5. General features of Khajuraho Temples – KandariyaMahadeva

#### **UNIT IV**

##### Temple Architecture

1. General features of Orissa Temples – Lingaraja Temple & Konark Sun Temple
2. Pallava Temples
  - (i) Mahendra and Mamalla styles: mandapa and rock-cut rathas
  - (ii) Rajassimha and Nandivarman styles: Structural temples with special reference to Sea shore and
6. General features of Hoyasala Temples- Hoyasalesvara Temple
- 7. PAPER XI: Ancient World Civilizations – Sumeria, Babylonia, Assyria and Iran**

#### **UNIT I**

1. The emergence of Sumerian civilization
2. Social and Economic conditions of Sumeria
3. Religious life of Sumeria
4. Art, Script, and Science of Sumeria

#### **UNIT II**

1. The Rise of the Babylonian civilization
2. Social and Economic conditions of Babylonia
3. Religious life of Babylonia
4. Art and Science of Babylonia
5. Hammurabi and his Law of Code

#### **8. UNIT III**

1. The emergence of civilization and Administration of Assyria
2. Social and Economic conditions of Assyria
3. Religious life of Assyria
4. Art, literature and science of Assyria
5. Contributions of Ashurbanipal

#### **9. UNIT IV**

1. The Achaemenian system of administration
2. Social and Economic condition of Iran
3. Art, literature and science of Iran
4. Life and teachings of Zoroaster

#### **B.A. Semester VI**

#### **PAPER XII: Political History of Early Mediaeval South India**

#### **UNIT I**

1. The Chalukyas of Vatapi --Pulakesin II, Vikramaditya I, Vikramaditya II

2. The Pallava dynasty—origin, Mahendravarman I, Narasimhavarman I, Nandivarman II, Pallavamalla
3. The Kadamba dynasty

## **UNIT II**

1. The Rastrakuta dynasty—origin, Dhruva, Govinda III, Amoghavarsha I
2. Rashtrakuta Administration
3. The Ganga dynasty

## **UNIT III**

1. The Chola dynasty—Origin, Rajaraja I, Rajendra I,
2. Rajadhiraj, Kulottunga I
3. Chola administration with special reference to local self - government

## **UNIT IV**

1. The Yadavas of Devagiri--Ramachandra
2. First Pandya dynasty
3. Second Pandya dynasty
4. The Kakatiyas—Early history, Rulers and their achievements

### **PAPER XIII: Ancient Indian Sculptural Art & Paintings**

## **UNIT I**

### **1. Art of Indus Valley Civilisation**

(ii) Stone Sculptures

(iii) Metal Images

(iv) Terracottas

### **2. Mauryan Art**

(i) Asokan pillars

(ii) Sculptures of Yaksha and Yakshinis

(iii) Terracottas

### **3. Sunga Art**

(i) Symbolism

(ii) Stone relief figures

- (a) Bharhut: Depictions on the railing of the stupa- Jatakascenes, various deities, Historical scenes and miscellaneous scenes
- (b) Sanchi: Depictions on the gateways of the Mahastupa- scenes from the life of Buddha, Jatakascenes from the history of Buddhism and miscellaneous scenes
- (c) Bodhi Gaya: Depictions on the railing of the stupa
- (d) Mathura: Depictions on the railing pillars

## UNIT II

1. Satavahana Art- Relief figures from the Amaravati Stupa
2. Kushana Art
  - (i) Mathura School of Art
    - (a) Buddhist sculptures
    - (b) Brahmanical sculptures
    - (c) Jain sculptures
  - (ii) Gandhara School of Art
    - (a) Buddhist Art
    - (b) Stucco figures

## UNIT III

1. Gupta sculptural Art
  - (i) Chief art centres of Gupta sculptural art: Mathura and Sarnath
  - (ii) Buddhist sculptures
  - (iii) Brahmanical sculptures
  - (iv) Jain sculptures
  - (v) Terracottas
2. General characteristic features of early medieval and medieval sculptures

## UNIT IV

1. Ajanta Paintings
  - (i) Historical Background
  - (ii) Methods of wall paintings
  - (iii) Six limbs of the paintings
  - (iv) Technique, colour scheme and theme of Ajanta paintings
  - (v) Date of the Ajanta paintings
  - (vi) Examples of paintings from cave no. 1, 2, 9, 10, 16 & 17

**PAPER XIV: Ancient World Civilizations- China, Egypt, Aegea & Greece**

## **UNIT I**

1. The emergence of Chinese civilization
2. Social and Economic conditions of China
3. Life and teachings of Confucius
4. Life and teachings of Lao-tse
5. Buddhism and Buddhist art in China

## **UNIT II**

1. Egypt- Ancient age, Middle age and the age of empire
2. Social life of Egypt
3. Economic Life of Egypt
4. Religious life of Egypt and Atenism
5. Art, literature and science of Assyria

## **UNIT III**

- 1 Minoan period- Early, Middle and Late
- 2 Mycenaean civilization
3. Social life of Aegean
4. Economic life of Aegean
5. Religious life of Aegean
6. Art, literature and science of Aegean

## **UNIT IV**

1. Homer Age and cultures
2. The concept of Polis
3. The age of Pericles
4. Socio-economic life of Greece
5. Greek religion
6. Art, literature and Science of Greece

### **Learning Outcomes:**

**After completing the Programme the students will be able to:**

#### **BA Year 1**

List the sources and evidence for reconstructing the history of ancient India.

List and analyze the numismatic and epigraphical tools for the study of the history of ancient India.

Discuss the prehistoric and proto-historic cultures.

Describe the political history of ancient India.

## **BA Year 2**

- To develop critical understanding of the students for the various sources of literary and archaeological sources and their application in the scientific reconstruction of ancient Indian history;
- To make students critically understand the different periods of human cultures in chronological sequence.
- Analyse the socio-economic and religious milieu of ancient India.
- Students shall be able to gain an insight into the process of state formations in India, through the centuries.
- The students will be acquainted with the basic understanding of the subject matter of archaeology as an autonomous and important part of history, its technical dimensions and uncovering it layer by layer.
- They shall be able to situate ancient Indian historical developments, in their proper historical perspective.
- They shall gain an insight into the so-called 'Golden Age' of ancient Indian history.
- The broad aim is to acquaint students with the basic understanding of numismatics in Indian context and also its growth, features and variations in different ages.
- The broad aim is to acquaint students with the basic understanding of epigraphy in Indian context and also its growth, features and variations in different ages.
- Students will be able to understand the sculptures and paintings in their religious, regional and stylistic context.
- 

## **Year 3**

- Dwell upon the art and architecture of ancient India.
- Discuss the main civilizations of the ancient world.
- Undertake exploration and excavation work on a rudimentary level.
- They shall be able to situate ancient Indian historical developments, in the context of world history.
- Students shall be able to gain an insight into type and process of state formations in India, through the centuries.
- They shall be able to situate ancient Indian historical developments, in their proper historical perspective.
- Students shall be able to gain an insight into the process of state formations in India, through the centuries.
- They shall be able to situate ancient Indian historical developments, in their proper historical perspective.
- They shall gain an insight into another so-called 'Dark Age' of ancient Indian history.
- Students shall be able to gain an insight into the origin and evolution of architectural styles in ancient India, through the centuries.
- They shall be able to situate ancient Indian architectural developments, in their proper historical context.

## **Department of Mathematics**

### **UG-Mathematics Programme (2021-22)**

#### **Programme Outcomes**

##### **Certificate in Applied Mathematics**

1. Ability to communicate Mathematical ideas clearly using correct mathematical terminology and proper mathematical notation and use their mathematical knowledge to solve problems.
2. Develop appreciation and competency for application of mathematical approaches and techniques to variety of problems and applications to problems in other disciplines such as engineering, business and other decisional sciences.

##### **Diploma in Mathematics**

3. Prepare sound mathematical base for enhancing understanding in interdisciplinary subjects such as etc. physics, engineering, computer science and for pursuing Master's Degree in Mathematics Or Engineering/Computer science/ Business/Economics

##### **Degree in Mathematics**

4. Utilize mathematical skills to coach school and college students or enhance their own career prospects mathematics through pursuit of advanced degree in or full-fill prerequisites of eligibility for various national and international competitive examinations.

##### **B.Sc. Research**

5. Comprehend, analyse and apply knowledge gained to formulate research objectives, adopt appropriate methodology in identified research area to provide plausible mathematical solutions in chosen research project.

6. Build solid foundation to pursue Masters degree in Mathematics with research orientation as a prerequisite for Ph.D. in Mathematics.

##### **Programme Specific Outcomes**

1. To formulate, analyze, and solve problems through application of fundamental mathematical techniques
2. To develop the ability to determine the validity of a given argument, develop mathematical thinking and be able to solve mathematical problems and construct mathematical proofs independently

3. To demonstrate an understanding of the foundations of various branches of mathematics and apply the same to formulate and develop mathematical arguments in a logical manner.
4. Apply knowledge and mathematical skills to translate information presented into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
5. Investigate and apply mathematical solutions in a variety of contexts related to science, technology, business and industry, and illustrate these solutions using symbolic, numeric, or graphical methods.
6. Build a solid foundation for higher studies in mathematics and other disciplines requiring quantitative techniques and enhancing their career prospects through success in competitive examinations for further academic progression or placement in various positions requiring mathematical or quantitative background as a pre-requisite.

## **UG Semester I**

### **Paper 1: Differential Calculus**

#### **Course Outcomes:**

1. Know the concepts of calculus, namely, limits, continuity, differentiability of functions of one and two variables and their applications in the form of mean value theorem and Taylor's theorem.
2. Sketch curves in a plane using its mathematical properties in the different coordinate systems of reference.
3. Apply derivatives in Optimization, Social sciences, Physics and Life sciences etc.
4. Get knowledge of curvature, asymptotes, envelopes and evolutes.

### **Paper 2: Matrices and Algebra**

#### **Course Outcomes**

1. Find the rank and eigen values of matrices.
2. Study the system of linear homogeneous and non-homogeneous equations.
3. Recognize the mathematical objects that are groups, and classify them as abelian, cyclic and permutation groups, etc.
4. Link the fundamental concepts of Groups and symmetrical figures.
5. Analyze the subgroups of cyclic groups.
6. Explain the significance of the notion of cosets, normal subgroups, and factor group.
7. Understand the concepts of rings, subrings and fields.

## **UG Semester II**

### **Paper 3: Integral Calculus**



**Course Outcomes:**

1. Some of the families and properties of Riemann integrable functions, and the applications of the fundamental theorems of integration.
2. Beta and Gamma functions and their properties
3. The valid situations for the inter-changeability of integrability with differentiability and infinite sum, and approximation of transcendental functions in terms of power series.
4. Compute area of surfaces of revolution and the volume of solids by integrating over cross-sectional areas.

**Paper 4: Geometry****Course Outcomes:**

1. To learn and visualize the fundamental ideas of coordinate geometry.
2. To describe some surfaces by using analytical geometry.
3. To gain knowledge about regular geometrical figures and their properties.

**UG Semester III****Paper 5: Ordinary Differential Equations****Course Outcomes:**

1. Formulate Differential Equations for various Mathematical models.
2. Solve first order non-linear differential equation and linear differential equations of higher order using various techniques.
3. Apply these techniques to solve and analyze various mathematical models.

**Paper 6: Mechanics****Course Outcomes:**

1. The significance of mathematics involved in physical quantities and their uses.
2. To understanding the various concepts of basic mechanics like simple harmonic motion, motion under other laws and forces.
3. To study and to learn the cause-effect related to these.
4. The applications in observing and relating real situations/structures.

**UG Semester IV****Paper 7: Mathematical Methods****Course Outcomes:**

1. To develop mathematical skills in calculus and analysis.
2. To get knowledge of Laplace Transforms and Fourier series.
3. To series get acquainted with the essentials of calculus of variations.

**Paper 8: Linear & Abstract Algebra**

**Course Outcomes:**

1. The fundamental concept of Rings, Fields, subrings, integral domains and the corresponding morphisms.
2. The concept of linear independence of vectors over a field, the idea of basis and the dimension of a vector space.
3. Basic concepts of linear transformations, the Rank-Nullity Theorem, matrix of a linear transformation and the change of basis.
4. Automorphisms for constructing new groups from the given group.
5. Group actions, Sylow theorems and their applications to check nonsimplicity.
6. Compute inner products and determine orthogonality on vector spaces.

**B.A. /B.Sc. Semester V****Paper I ; Numerical Analysis****Course Outcomes:**

To comprehend various computational techniques to find approximate value for possible root(s) of non-algebraic equations, to find the approximate solutions of system of linear equations and ordinary differential equations. Also, the use of Computer Algebra System (CAS) by which the numerical problems can be solved both numerically and analytically, and to enhance the problem solving skills.

**Course specific Outcomes:**

The course will enable the students to learn the following:

1. Some numerical methods to find the zeroes of nonlinear functions of a single variable and solution of a system of linear equations, up to a certain given level of precision.
2. Interpolation techniques to compute the values for a tabulated function at points not in the table.
3. Applications of numerical differentiation and integration to convert differential equations into difference equations for numerical solutions.

**Paper II: Linear & Abstract Algebra****Course Outcomes:**

The objective of this course is to introduce the fundamental theory of two objects, namely – rings and vector spaces, and their corresponding homomorphisms. Classification of all finite Abelian groups (up to isomorphism) can be done.

**Course specific Outcomes:**

The course will enable the students to learn about:

1. The fundamental concept of Rings, Fields, subrings, integral domains and the corresponding morphisms.

2. The concept of linear independence of vectors over a field, the idea of a finite dimensional vector space, basis of a vector space and the dimension of a vector space.
3. Basic concepts of linear transformations, the Rank-Nullity Theorem, matrix of a linear transformation, algebra of transformations and the change of basis.
4. Automorphisms for constructing new groups from the given group.
5. External direct product applies to data security and electric circuits.
6. Group actions, Sylow theorems and their applications to check nonsimplicity.
7. Compute inner products and determine orthogonality on vector spaces.

### **Paper III: Linear Programming**

#### **Course Outcomes:**

This course develops the ideas underlying the Simplex Method for Linear Programming Problem, as an important branch of Operations Research. The course covers Linear Programming with applications to Transportation, Assignment and Game Problem. Such problems arise in manufacturing resource planning and financial sectors.

#### **Course specific Outcomes:**

This course will enable the students to learn:

1. Analyze and solve linear programming models of real life situations.
2. The graphical solution of LPP with only two variables, and illustrate the concept of convex set and extreme points. The theory of the simplex method is developed.
3. The relationships between the primal and dual problems and their solutions with applications to transportation, assignment and two-person zero-sum game problem.

### **B.A. /B.Sc. Semester VI**

#### **Paper I: Analysis**

#### **Course Outcomes:**

The course aims at providing the basic knowledge pertaining to metric spaces such as open and closed balls, neighborhood, interior, closure, subspace, continuity, compactness, connectedness etc. This course aims to introduce the basic ideas of analysis for complex functions in complex variables. Particular emphasis has been laid on Cauchy's theorems, series expansions and calculation of residues.

#### **Course specific Outcomes:**

**The course will enable the students to:**

1. Understand the basic concepts of metric spaces.

2. Know the concepts such as open balls, closed balls, compactness, connectedness etc.
3. Understand the significance of differentiability of complex valued functions leading to the understanding of Cauchy-Riemann equations.
4. Evaluate the contour integrals and understand the role of Cauchy-Goursat theorem and the Cauchy integral formula.
5. Expand some simple functions as their Taylor and Laurent series, classify the nature of singularities, find residues and apply Cauchy Residue theorem to evaluate integrals.

## **Paper II: Differential Geometry & Tensor Analysis**

### **Course Outcomes:**

This course aims at introducing the basic concepts of tensors and understands the role of Tensors in Differential Geometry.

### **Course specific Outcomes:**

By the end of this course students will be able to-

1. Explain the concept of differentiable geometry.
2. Understand the concepts of tensors in differentiable geometry.
3. Apply various concept of differential calculus in tensors.

## **Paper III: Discrete Mathematics**

### **Course Outcomes:**

This course aims at introducing the concepts of lattices, Boolean algebras, switching circuits and graph theory. The course discusses some important applications of Boolean algebra and graph theory in real life situations through switching circuits and shortest path algorithms.

### **Course specific Outcomes:**

**After the course, the student will be able to understand the concepts of:**

1. Lattices and their types;
2. Boolean algebra, switching circuits and their applications;
3. Graphs, their types and its applications in study of shortest path algorithms.

**Department of Statistics**  
**SESSION 2021-22**

**Programme Outcomes (POs)**

Students having Degree in B.A./ B.Sc. (with Statistics) should have knowledge of different concepts and fundamentals of Statistics and ability to apply this knowledge in various fields of industry, monitoring, policy making, administration, government organisations etc. They may pursue their future career in the field of Statistics and Research.

**Programme Specific Outcomes (PSOs):**

- 1) After completing B.Sc. (with Statistics) the student should have Knowledge of different concepts, principles, methodologies and tools (skills) of Statistics.
- 2) Ability to collect, tabulate, represent graphically, analyze and interpret data/information by using appropriate statistical tools.
- 3) Ability to identify and solve a wide range of problems in real life/industry related to Statistics.
- 4) Familiarity with computational techniques and statistical software including programming language (e.g. R) for mathematical and statistical computation.
- 5) Capability to use appropriate statistical skills in interdisciplinary areas such as finance, health, agriculture, government, business, industry, telecommunication and bio- statistics.
- 6) Ability to compete with industrial/private sector demand in the field of data analysis, marketing survey, etc. in professional manner and pursue their future career in the field of Statistics.
- 7) Ability to develop original thinking for formulating new problems and providing their solutions. As a result, they will be able to pursue higher studies or research in the field of Statistics.

**SEMESTER-I (N.E.P)**

**Paper –I (Probability Theory)**

**Course Outcomes:-**

- Ability to understand the concept of probability along with basic laws and axioms of probability.
- Ability to understand the terms mutually exclusive and independence and their relevance.
- Ability to identify the appropriate method (i.e. union , intersection, conditional, etc) for solving a problem.
- Ability to apply basics probability principles to solve real life problems.

- Ability to understand the concept of random variable (discrete and continuous ),concept of probability distribution.

## **Paper –II (Discriptive Statistics)**

### **Course Outcome:**

- Knowledge of Statistics, its scope and importance in various fields.
- Ability to understand concepts of sample vs. population and difference between different types of data.
- Knowledge of methods for summarising data sets, including common graphical tools (such as boxplots, histograms and stemplots). Interpret histograms and boxplots.
- Ability to describe data with measures of central tendency and measures of dispersion.
- Ability to understand measures of skewness and kurtosis and their utility and significance.

## **SEMESTER II**

## **Paper – III (Numerical analysis & distribution Theory)**

### **Course Outcome:**

- Knowledge of discrete distributions.
- Discuss appropriate distribution: negative binomial, Poisson, etc. with their properties and application of discrete distribution models to solve problems.
- Knowledge of continuous distributions. Discuss the appropriate distribution (i.e. uniform, exponential, normal, etc.) with their properties and application of continuous distribution models to solve problems.
- Knowledge of Non parametric distributions and their properties
- Knowledge of Numerical Integration.
- Knowledge of interpolation and extrapolation

## **SEMESTER II**

## **Paper IV :PRACTICAL (Lab Work)**

### **Course Outcome:**

After completing this course a student will have:

- Knowledge of presenting data through graphs and diagrams and interpretations of data.
- Knowledge of various measures of frequency distributions.
- Knowledge of curve fitting, regression lines.
- Knowledge of observing correlation between variables.
- Knowledge of Numerical Integration.
- Knowledge of interpolation and extrapolation

### **SEMESTER III (Old Pattern)**

#### **Paper I: (Statistical Inference)**

##### **Course Outcome:**

- Ability to understand the difference between parameter & statistic and standard error & standard deviation.
- Knowledge of the sampling distribution of the sum and mean.
- Knowledge of the concept of Point and Interval Estimation and discuss characteristics of a good estimator.
- Ability to understand and practice various methods of estimations of parameters.
- Knowledge of the terms like null and alternative hypotheses, two-tailed and one-tailed alternative hypotheses, significant and insignificant, level of significance and confidence, p value etc.
- Ability to understand the concept of MP, UMP and UMPU tests
- Ability to understand under what situations one would conduct the small sample and large sample tests (in case of one sample and two sample

### **SEMESTER III**

#### **Paper II:(Sampling techniques)**

##### **Course Outcome:**

- Ability to understand the concept of sampling and how it is different from comp enumeration.
- Knowledge of various probability and non-probability sampling methods along estimates of population parameters
- Ability to identify the situations where the various sampling techniques shall be used
- Knowledge of sampling and non-sampling errors.
- Knowledge of regression and ratio methods of estimation in simple random sampling(SRS)

### **SEMESTER IV**

#### **Paper I: (Analysis of variance and design of experiments)**

##### **Course Outcome:**

After completing this course a student will have

- Knowledge of the concept of Analysis of Variance (ANOVA).
- Ability to carry out the ANOVA for One way and Two way Classification.
- Ability to carry out the post-hoc analysis.
- Knowledge of the concept of Design of experiment and its basic principles.

- Ability to perform the basic symmetric designs CRD, RBD and LSD with and without missing observations.
- Knowledge of the concept of factorial experiments and their practical applications.

## **SEMESTER IV**

### **PRACTICAL (Lab Work)**

After completing this course a student will learn

- Select random sample using random number table
- Estimate mean and variance in various sampling schemes and their comparison
- Apply various small and large sample tests
- Carry out Analysis of Variance of design of experiments in CRD,RBD,LSD and Factorial Experiments.

## **SEMESTER V**

### **Paper I: NON-PARAMETRIC METHODS AND REGRESSION ANALYSIS**

#### **Course Outcome:**

After completing this course a student will have:

- Ability to understand the basic concepts of vector space and matrices in order to study multivariate distribution.
- Knowledge of the applications of multivariate normal distribution and Maximum Likelihood estimates of mean vector and dispersion matrix.
- Ability to apply distribution free tests (Non-parametric methods) for one and two sample cases.

### **Paper II: Statistics quality control and educational statistics**

#### **Course Outcome:**

- Familiarity with different aspects of Statistical Quality Control in manufacturing units.
- Ability to understand the concept of Sampling Inspection plans for products.
- Knowledge of Statistical tools to be applied in Educational Statistics.
- Familiarity with various scaling procedures. Knowledge to understand the concept of statistical quality control and different control charts for variables and attributes.

### **Paper III : OPERATIONS RESEARCH**

#### **Course Outcome:**

- An idea about the historical background and need of Operations research.
- Ability to identify and develop operational research models of the real life problems from the verbal description
- Knowledge of the mathematical tools that are needed to solve optimization problems. 4)Ability of solving Linear programming problem, Transportation and Assignment problems, Replacement problems, Job sequencing, etc.



## **SEMESTER VI**

### **Paper I: Applied Statistics**

#### **Course Outcome:**

- Familiarity with different aspects of Applied Statistics and their use in real life situations.
- Ability to understand the concept of Time series along with its different components.
- Knowledge of Index numbers and their applications along with different types of Index numbers.
- Familiarity with various demographic methods and different measures of mortality and fertility.
- Ability to understand the concept of life table and its construction

### **PAPERII : QUEUEING THEORY AND NETWORK ANALYSIS**

#### **Course Outcome:**

- An idea about the historical background and need of Queuing Theory.
- Ability to identify and develop operational research models from the verbal description of the real life problems.
- Knowledge of the mathematical tools that are needed to solve optimization problems.
- Ability of solving Network Analysis models. Knowledge of Project Management.

### **PRACTICAL (Lab Work)**

#### **Course outcome**

- A Student will learn to solve linear programming problems
- will learn to calculate index numbers,
- will learn to construct life table and calculate various death rates and fertility rates
- test hypothesis using non parametric tests

### **Department of Chemistry**

### **Navyug Kanya Mahavidyalaya, University of Lucknow**

### **Program: B.Sc. Chemistry**

#### **SESSION 2021-2022**

#### **Program Outcome**

After completion of B.Sc. degree, the students would understand the importance of the elements of periodic table and their chemical and physical properties including their uses in daily life. They will be able to correlate the concepts of chemistry with other subjects such as mathematics, physics, biology, etc. the students will gain the theoretical as well as practical knowledge about the chemicals and handling them. They would learn the laboratory

skills and will be able to transfer and interpret knowledge entirely in the working environment. They would have skills required for chemical industries such as fertilizer, rubber, cement, paint, food processing, pharmaceutical, agro, petrochemical, polymer, semiconductor, cosmetic, etc. they will also be able to have opportunities in government services to serve society as health inspector, food safety officer, pharmacist, lab technician, etc.

### **Program Specific Outcome**

After graduation with B.sc. Chemistry the students will have disciplinary knowledge, laboratory skills, communication skills, critical and scientific thinking, skill of analytical reasoning and problem solving as well as moral and ethical awareness. They will have comprehensive knowledge and understanding of both theoretical and experimental knowledge in organic, inorganic and physical chemistry. The students will be able to explain, integrate, and apply relevant knowledge to interdisciplinary and multi-disciplinary problems. The students will be able to develop critical and scientific thinking using basic concepts of chemistry. They will be able to conduct chemical synthesis, analysis, and other chemical investigations, compile raw data and give logical conclusion. The students will be able to prepare the results of scientific work in written and communicate it to the peers and the public. They will appreciate the central role of chemistry in society.

### **B. Sc. I- Semester-I (NEP)**

#### **Paper-I: Inorganic Chemistry**

##### **Course Outcome**

- The students will gain knowledge about structures of atoms, associated rules, chemical bondings, periodic properties of elements, important parameters associated with elements, and importance of chemistry of elements.
- They will gain precise insight into solid state chemistry including ionic structures and various defects in crystals as well as chemistry of s-block and p-block elements and noble gases.

#### **Paper-II: Organic Chemistry**

##### **Course Outcome**

The students will be able to

- Understand different types of organic compounds and to give the IUPAC name of the given organic compounds.
- Understand the basics of chemical reactions, i.e, Reagent, Substrate, Electrophile, Nucleophile, Homolytic and Hetrolytic fission, Inductive effect, etc.
- Understand different types of isomerisms and recognize and draw structures of constitutional isomers, stereoisomers, enantiomer, diastereomer, racemic mixtures and meso compounds.
- Understand basic principles of organic chemistry, various types of reactive intermediates, and derive mechanism of various types of organic reactions.
- Understand the nomenclature, isomerism, preparation and properties of alkanes and cycloalkanes.
- Understand the concept of aromaticity and structure, preparation and reactivity of various aromatic compounds as well as reactivity and stereochemistry of SN1 and SN2 reactions of alkyl and aryl halides.

## **B.Sc. I-Semester-II (NEP)**

### **Paper-I: Physical Chemistry**

The students will be able to

- Understand the basics of computer and mathematical concepts of log, permutation, combination, factorials probability, equation of straight line, slope and tracing of curves, and differentiation and integration of some relevant functions.
- Understand fundamental concepts of solid, liquid, gaseous and colloidal states and liquid crystals and its various types.
- Understand the critical phenomenon and the importance of chemical kinetics and catalysis.

### **Paper-II: Chemistry Practical**

The students will

- Be able to analyse the given inorganic mixture and identify acidic and basic radicals.
- Be able to write chemical reactions.
- Understand various tests to identify radicals.
- Be able to make solutions accurately.
- Gain knowledge about different types of reactions.

## **B.Sc. II- Semester-III**

### **Paper-I: Physical Chemistry**

#### **Course Outcome**

The students will be

- Able to understand fundamental concepts of first law and second law of thermodynamics, enthalpy, entropy, Gibbs-Helmholtz equation, etc.
- Familiar with concepts of conductance, equivalent conductance, Kohlrausch's law, Ostwald dilution law, types of electrodes, Cells, Debye-Huckel-Onsager equation, pH, pKa, etc.

### **Paper-II: Chemistry Practical**

#### **Course Outcome**

The students will be

- Able to recognise the given organic compound on the basis of its chemical and physical properties.
- Able to prepare derivatives.
- Able to solve problems by interpreting some properties of liquids and solids.
- Able to recognize, use, and compare the colligative properties.
- Able to explain various reactions based on kinetics.

## **B.Sc. II-Semester-IV**

### **Paper-I: Inorganic Chemistry**

#### **Course Outcome**

The students will be able to

- Understand the chemistry of transition and inner- transition elements.
- Understand the concepts of coordination chemistry and their applications.
- Understand the fundamental concepts of oxidation-reduction reactions.
- Understand the various concepts of acids and bases and their importance.
- Understand the different aspects of non-aqueous solvents and their importance.

### **Paper-II: Organic Chemistry**

#### **Course Outcome**

The students will be

- Familiar with the preparation and chemical reactions of alcohols, ethers, and epoxides.
- Able to understand the preparation, reactions and order of reactivity of different carboxylic acids and their derivatives.
- Able to recognize structures of acid halides, esters, amides, acid anhydrides, their synthesis and reactions.
- Familiar with the structures of phenol and phenoxide ions and chemical reactions of phenols.
- Able to understand the mechanism of named reactions of carbonyl compounds and condensation reactions.
- Able to understand synthesis of aldehydes and ketones and their reactions.
- Familiar with the preparation, properties and stereochemistry of amines.

## **B.Sc. III- Semester-V**

### **Paper-I: Organic Chemistry**

#### **Course Outcome:-**

The students will

- Acquire Knowledge of different heterocyclic compounds and their synthesis and reactions.
- Develop a comprehensive knowledge of organometallic compounds e.g. Grignard reagent and organo-sulphur compounds and their synthesis, reactions and applications.
- Familiar with carbohydrates, its classification and uses.
- Able to understand amino acids, peptides, proteins and their classification and synthesis as well as chemical structure DNA and RNA.
- Develop a comprehensive knowledge of various polymers, polymerization methods, and their uses in industry.
- Familiar with chemistry of fats, oils, detergents and synthetic dyes.

### **Paper-II: Physical Chemistry**

Course Outcome:-

The students will acquire knowledge of

- Basic concepts of introductory Quantum mechanics such as Black body radiation, Photoelectric effect, Compton effect, etc.
- Fundamental concepts of Elementary quantum mechanics such as Schrodinger wave equation, Molecular orbital theory, valence bond model of hydrogen etc.
- Rotational spectrum of diatomic molecules and concepts of Infrared, Raman and electronic spectrum.
- Sigma, pi-antibonding and non-bonding molecular orbitals.
- Ideal and non-ideal solutions, Fundamental concepts of dilute solutions such as colligative properties, Raoult's law, law of osmotic pressure etc.
- Basic principles of photochemistry and their applications.
- Fundamentals of third law of thermodynamics and Phase rule and diagrams.

### **Paper-III: Chemistry Practical**

Course Outcome:-

The students will be able to:-

- Handle instruments and its calibration
- To separate compounds chromatographically.
- Able to make solutions accurately to perform conductance experiment.
- Prepare some organic and inorganic compounds in laboratory.
- To understand making circuit connections and taking observations.

### **B.Sc. III- Semester VI**

#### **Paper-I: Inorganic Chemistry**

Course Outcome:-

The students will be

- Able to understand semi-modern concepts of metal ligand bonding in coordination compounds.
- Understand basic concepts of magnetic properties of transition metal complexes.
- Familiar with organometallic compounds, silicones, phosphazenes and bonding in them.
- Able to understand HSAB Principle and its application.

#### **Paper-II: Inorganic Chemistry**

Course Outcome:-

The students will be.

- Familiar with thermodynamic and kinetic aspects of metal complexes.
- Understand basic concepts of electronic spectra of transition metal complexes.

- Familiar with organometallic compounds and their applications, synthesis of alkyls and aryls of Li, Hg, Sn, metal carbonyls and 18-electron rule etc.
- Understand various types of metalloenzymes and metaloporphyrines and their roles in biological system.

### **Paper- III: Organic and Physical Chemistry**

The students will be able to understand

- Fundamental concepts of Rotational spectroscopy of diatomic molecules, IR and Raman spectroscopy.
- Basic concepts of elementary quantum mechanics such as de-Broglie's hypothesis, Heisenberg's uncertainty principle, Schrodinger wave equation etc.
- Basic ideas of molecular orbital theory and their applications.
- NMR, Ultraviolet and infrared spectroscopy and their applications.

### **LEARNING OUTCOME**

After completing the program of B.Sc. in Chemistry, the students would have learnt basic concepts of theoretical and experimental chemistry. They would have comprehensive knowledge and understanding of organic, inorganic and physical chemistry. The students would have able to explain, integrate, and apply relevant knowledge to interdisciplinary and multi-disciplinary problems. The students would have develop critical and scientific thinking and able to conduct chemical synthesis, analysis, and other chemical investigations, compile raw data and give logical conclusion.

## **Department of Zoology**

2021-22

### **Programme Outcome**

1. Zoology as one of the subjects in undergraduate level should be studied for a comprehensive knowledge of animal science...This programme is one of the most fundamental units of basic science at undergraduate level.
2. The programme helps to develop a scientific temper and attitude which in turn proves to be beneficial for the society as well as for the students who opt zoology in the undergraduate.
3. After studying this programme, students will be well versed in different biological system, their coordination as well as about the evolution, behaviour and biological roles of animals.in the ecosystem.
4. This programme will also provide a platform to study classical genetics, pattern of inheritance of different traits and also about modern tools and techniques like Ph meter, dissolved oxygen, Autoclave etc..

### **Programme Specific Outcome**

1.Students enrolled in B.Sc. degree programme in Zoology will study and get the knowledge of the subject as well as allied biological sciences. At the end of graduation, they are in a position in pursuing higher studies from India and Abroad., can seek jobs in academic or research Institute or Industries.

2. Students will be able to define and explain concepts in biological sciences. They are able to use biological instrumentation and laboratory techniques.

3.They will also be able to describe economic, ecological and medical significance of animals, in human life.

4. Students acquired practical skills in various fields related to Biotechnology, Biostatistics, Enzymology and analytical biochemistry and knowledge of these methodologies will provide an extra edge to our students who wish to join higher studies and there will be numerous career opportunities in University, Degree colleges, Govt.departments, Environmental agencies, Pharmaceutical labs and environmental labs..

### Course Outcome

Course	Outcome
Non- Chordates	Students will learn about basic taxonomy, systematics and classification of Protozoa, Porifera, Cnidaria, Helminthes, Annelida, Arthropoda, Mollusca, Echinodermata & Hemichordate. They will have the knowledge of pathology, epidemics, diagnosis, symptoms and control etc..
Diversity of Chordates	Student will understand the classification, structure, function and biology of Chordates of different classes. They will also learn about Migration in fishes and birds, Parental care etc.
Environmental biology, and wild Life	Students will understand aspects of Population ecology, environment and ecosystem. They will acquire knowledge about Concept of wild life etc.
Applied Zoology	Understand the life cycle of vector and pests, life cycle of parasites of domestic animals, study the culture of organisms of economic importance.
Animal physiology and biochemistry, Biosystematics and Evolutionary Biology	To understand functional components of body, mammalian physiology., function of physiological systems, enzyme kinetics etc Understand the concept of evolution...fundamental principles of systematics...
Cytogenetics, molecular biology, Toxicology	Structure and function of cell, cell organelles, Relevance of molecular biology,

	details of toxicology
Developmental biology and Immunology, Animal Behaviour, chronobiology, Endocrinology, Fisheries, Entomology, Parasitology	. Understand the concept of developmental biology, Immune system etc.....Patterns of behaviour, biological timing. Endocrines, classification of insects, Fisheries, identification of parasites etc.....

### **Learning Outcome**

1. The students are expected to learn the subject with a deep knowledge of biology along with universal molecular mechanism, of biological designs and their functions.
2. The students also able to shift their orientation of learning from a descriptive explanation of the subject to a deeper knowledge of the specific topics in the course of Zoology with an introduction of graphic designs, project work, dissections etc. which will progress towards the field of Molecular biology and Biotechnology.
3. This will surely help the students to apply their knowledge to various other courses related to their career development, for higher education and researches and innovations.
4. The students learn lifelong knowledge about health, wellness and also professional skills to join with Industry in health sector.

## **Department of Botany**

### **Course and Learning Outcome Session 2021-2022**

*The learning outcome of the courses are-*

- 1-Students will be able to compare and contrast the characteristics of plants, algae and fungi which were differentiate from each other and develop into other forms of life and through a field study they will be able to see these plants growing in nature and become familiar with the biodiversity.
- 2- Students will be able to explain the ecological interrelation of life on the earth by tracing energy and nutrient flow through the environment in different strata. They will be able to relate the physical features of the environment to the structure of populations, communities and ecosystem.
- 3-Gain knowledge that is critical in evolving strategies for sustainable natural resource management and biodiversity conservation.
4. Students will be able to access the primary literature, identify relevant works for a particular topic and evaluate the content.



5- During the Three-Year B.Sc classes of Botany, students will learn different experimental and analytical techniques used in the study of botany such as Microscopy, Gel-Electrophoresis, Plant Tissue Culture, Gram Staining Techniques etc. The use of these modern techniques with the proper aid of scientific instruments such as Autoclave, Centrifuge. Shaker, Lux Meter, Anemometer, Hygrometer, Rain Gauge etc will aid the students in learning various aspects of the course like Biochemical estimation, Molecular biology, Biotechnology, Cellular and Physiological studies of Plants etc. During the course, students will learn Artificial Propagation of plant and cultural practices of useful vegetable, fruits and garden plants. This will not only develop the gardening skill techniques but also help in finding a livelihood by establishing miniature plant nursery. Experiments related with Microbiology, Mycology, and Plant Pathology will be useful in understanding the world of microbes, algae, fungi and their adaptive strategies. Subsequently, after studying all the above-mentioned points, students will be able to develop insight to conduct independent researches and prepare research skills in future.

5-The course has wide range of options available in terms of subjects, topics, fields and associated area B.Sc. graduates can opt to join a post graduate level degree programme in their respective field or allied subject to pursue further studies.

6- After completing B.Sc degree one can get employed in non scientific sector in addition to scientific sectors. They can seek out for career in forestry, horticulture research laboratories, Government, Corporate.

### **Department of Physics**

#### **Program: B.Sc. Physics**

#### **SESSION 2021-2022**

#### **Program Outcome**

After completion of B.Sc. degree, the students would have understood the importance of the mechanical, electrical and quantum physics and its properties including their uses in daily life. They will be able to correlate the concepts of physics with other subjects such as mathematics and chemistry. The students will gain the theoretical as well as practical knowledge about the physics and handling them. They would learn the laboratory skills and will be able to transfer and interpret knowledge entirely in the working environment. They would have skills required for ISRO, mechanical industries, soft and hardware engineer such as computer center, motor industries architecture, tool makers and semiconductor etc. they will also be able to have opportunities in government services to serve society as scientists, engineers and lab technician etc.

#### **Program Specific Outcome**

After graduation with B.Sc. Physics, the students will have disciplinary knowledge, laboratory skills, communication skills, critical and scientific thinking, skill of analytical reasoning and problem solving as well as moral and ethical awareness. They will have comprehensive knowledge and understanding of both theoretical and experimental knowledge in Physics. The students will be able to explain, integrate, and apply relevant knowledge to interdisciplinary and multi-disciplinary problems. The students will be able to develop critical and scientific thinking using basic concepts of Physics. They would learn the laboratory skills and will be able to transfer and interpret knowledge entirely in the working environment. The students will be able to prepare the results of scientific work in written and communicate it to the peers and the public. They will appreciate the central role of Physics in society.

## **B. Sc. I- Semester-I(NEP)**

### **Paper-I: Mechanics and Wave Motion**

#### **Course Outcome**

- The students would clearly understand the conflict between Newtonian mechanics and special relativity and thus would know the progress of the revolutionary scientific ideas is made through logical evidences and observations.
- They would have a clear understanding of dynamics conservation and non-conservation, difference between inertial and non-inertial frames, work for planetary motion and galactic motion etc.
- The students will gain knowledge about reduction of a two-body central force problem in to one -body problem etc.
- The students will also gain knowledge about apply the properties of oscillations and wave motion.

### **Paper-II: Optics**

#### **Course Outcome**

The students will be able to

- Understand the electromagnetic nature of light, superposition of light waves and basics properties of light such as interference, diffraction and polarisation.
- Understand difference of diffraction and interference using different methods and its applications.
- Understand the resolving power, Rayleigh's criterion of resolution, resolving power of grating and telescope.
- Understand the concept of optical activity and Fresnel's explanation, specific rotation, half shade and biquartz polarimeters Jones matrices etc.

## **B.Sc. I-Semester-II(NEP)**

### **Paper-I: Electricity and Magnetism**

#### **Course Outcome**

The students will be

- Able to understand fundamental concepts of electric charge and types of electric charge densities, coulomb's law general expression and Gauss's law (applications) etc.
- Gain knowledge about magnetics effects of currents, magnetic field, Biot-Savart law, Ampere's circuital law and its applications etc.
- Able to understand time varying electromagnetic fields and electromagnetic waves.
- Gain comprehensive elaborative faraday's laws of electromagnetic, induction and Lenz's law and working of the moving coil ballistics galvanometer etc.

### **Paper-II: Physics Practical**

The students will be able to

- Observe the given experiment.
- Write theory and formulas.
- Understand various experiments.
- Make observation accurately.
- Gain knowledge about different instruments applied of physics.

## **B.Sc. II- Semester-III**

### **Paper-I: Electricity and Magnetism**

#### **Course Outcome**

The students will be

- Gain knowledge about of equation of continuity of current, displacement current, derivation of maxwell's equations and its applications.
- Able to understand fundamental concepts of electric charge and types of electric charge densities, coulomb's law general expression and Gauss's law (applications) etc.
- Gain knowledge about magnetics effects of currents, magnetic field, Biot-Savart law, Ampere's circuital law and its applications etc.
- Able to understand time varying electromagnetic fields and electromagnetic waves.

### **Paper-II: Physics Practical**

#### **Course Outcome**

The students will be

- Be able to observe the given electricity and magnetism experiment.
- Be able to write theory and formulas.
- Be understand various experiments.
- Be able to observe accurately.
- Be able to recognize, use, and compare electrical and electricity.
- Gain knowledge about different types of diodes with help experiment.

## **B.Sc. II-Semester-IV**

### **Paper-I: Thermal Physics and Elementary Statistical Mechanics**

#### **Course Outcome**

The students will be able to

- Understand transport phenomena in gases
- Understand fundamental concepts of zeroth law, first law and second law of thermodynamics, enthalpy, entropy, Gibbs-Helmholtz equation, etc.
- Understand fundamental concepts of statistical, probability microstate and microstate.

- Understand several basic universal laws in statistical mechanics such as position space, phase space, ensembles and quantum statistics.

## **Paper-II: Elements of Modern Physics**

### **Course Outcome**

The students will be

- Basic concepts of introductory Quantum mechanics such as Black body radiation, Photoelectric effect, Compton effect etc.
- Explain atomic structure and shows dual nature of electron, Bohr's model, de-Broglie hypothesis.
- Fundamental concepts of Elementary quantum mechanics such as Schrodinger wave equation and its applications.
- Molecular spectra, X-ray, rotational spectrum of diatomic molecules and concepts of Infrared, Raman and electronic spectrum.
- Acquire Knowledge of different spectroscopic methods and their applications.

## **B.Sc. III- Semester-V**

### **Paper-I: Electronics**

### **Course Outcome**

The students will

- Develop a comprehensive knowledge of diffusion of minority carries in semiconductors, p-n junction of diodes, Zener diode effects of temperature on junction diode.
- acquire knowledge of transistor parameters, base width modulation, transit time and life time of minority carriers.
- Understand current and voltage gain, biasing formulae for transistors, base bias, emitter bias and mixed types biasing for small and large signal operation.
- Field effect transistors and their characters, biasing of FET, use in preamplifiers, MOSFET and their simple uses.
- Basic principles of hybrid model and Y parameter equivalent circuit, input and output impedances.

### **Paper-II: Nuclear Physics**

### **Course Outcome**

The students will

- Develop a comprehensive knowledge of properties of nucleus, nuclear forces, nuclear models such as liquid drop, shell and single shell model.
- fundamental laws of radioactivity, half-life period and mean life etc.
- Understand basic concepts of quarks models, elementary particles and its applications.
- Gain comprehensive knowledge of nuclear reactions and radio-active reactions.

### Paper-III: **Physics Practical**

#### Course Outcome

The students will be able to

- Handle instruments and its calibration.
- Understand making circuit connections and taking observations.
- Verify the various laws and theories with help of different apparatuses.
- Enhance their scientific approach.

### **B.Sc. III- Semester VI**

#### Paper-I: **Mathematical Methods and Numerical Techniques**

#### Course Outcome

The students will be

- Able to understand complex numbers and their polar form, properties of moduli and arguments, complex plane, continuity and differentiability of complex function etc.
- Understand initial and boundary value problems, partial differential equation and variable separation method, Legendre's relation, Bessel function etc.
- Mean value theorem, physical application, partial derivatives, maxima and minima, Fourier series convolution-physical application.
- able to understand numerical methods for solution of differential, partial differential and integral equation, Euler's method, Runge-Kutta method, numerical integration, Simpson's rules.

#### Paper-II: **Elements of Relativistic and Classical Mechanics**

#### Course Outcome

The students will be

- Able to understand constrained motion, constraints, degree of freedom, generalized coordinates.
- Understand Limitation of newton's law, introduction to calculus of variations, D'Alembert's principle.
- Understand basic concepts of Lagrange's and Hamilton's principle and its applications

#### Paper- III: **Solid State Physics**

The students will be able to understand

- Comprehensive knowledge of Crystal structure, crystal diffraction and reciprocal lattice, crystal binding and its applications.
- Comprehensive knowledge of crystal of inert gases, Van der Waals-London interaction repulsive interaction, cohesive energy, ionic crystal, Madelung constant etc.
- Origin of band theory, Bloch theorem, Kronig-Penney model, effective mass, hall effect etc.

- Dialectic properties of materials polarisation, local electric field at an atom depolarisation field, electric susceptibility, polarizability, Clausius-Mosotti Equation etc.

## **LEARNING OUTCOME**

After completing the program of B.Sc. in physics, the students would have learnt basic concepts of theoretical and experimental physics. They would have comprehensive knowledge and understanding of physics. The students would have able to explain, integrate, and apply relevant knowledge to interdisciplinary and multi-disciplinary problems.

### **Programme : Bachelor of Education Programme (B.Ed.)**

#### **Programme Outcomes (PO)**

- Pedagogical skills
- Teaching competency
- Effective Communication
- Professional ethics
- Scientific temperament
- Psychological attitude towards students
- Management & Team work abilities
- Ability of problem solving
- Critical thinking
- Action research
- Positive approach

#### **Programme Specific Outcomes (PSO)**

- Enable to understand learner and his learning environment, contemporary India and education, school management, gender, school and society.
- Enable to comprehend Language across the curriculum, Reading and reflecting on Texts, Drama and Art in Education, developing Communication Skills and observation of school activities by school internship.
- Understand the individual differences among students, measuring the attainment, evaluating progress, and assessing learning abilities, guidance and counseling programmes, educational technology, ICT and lesson planning.
- Practice teaching in Schools, inculcate the real experiences of classroom teaching and online teaching by using ICT and its different tools and software.
- Understand the classroom diversities and enable them to deal with diverse learners in inclusive classroom setup, environmental education, Field Engagements with community and Community Participation (NSS, Community Services etc.)

## Course Outcomes (CO)

Semester – 1	
Title	Course Outcomes
<b>Compulsory Papers</b>	<p>To enable the pupil teachers to:</p> <ul style="list-style-type: none"><li>➤ know and understand the Indian thinkers who contributed in education .</li><li>➤ know and understand the fundamentals of the western philosophy on education.</li><li>➤ know and understand the different aspects of social and political set up in context of teacher education.</li><li>➤ know and understand the role of education for the teachers to cement the national and emotional integration in a multi linguistic –pluralistic society.</li></ul> <p>To enable the pupil teachers to:</p> <ul style="list-style-type: none"><li>➤ Understand the concept of growth and development.</li><li>➤ Become aware of nature of individual differences.</li><li>➤ Familiarise themselves with different developmental stages.</li><li>➤ Understand Piaget's theory of cognitive development</li><li>➤ Appreciate Vygotsky's Socio-cultural perspective</li><li>➤ Understand factors affecting personality development.</li></ul> <p>To enable the pupil teacher to:</p> <ul style="list-style-type: none"><li>➤ understand the nature and scope of educational technology and also about the various forms of technology</li><li>➤ know the systems approach in Education and its components</li><li>➤ familiar with the steps involved in the construction of programmed learning</li><li>➤ describe the concept of ICT in education and appreciate the scope of ICT for improving the personal productivity and professional competencies</li><li>➤ acquaint with different approaches of ICT integration in education</li></ul> <p>To enable the pupil teacher to:</p> <ul style="list-style-type: none"><li>➤ To develop awareness of various innovative practices and experiments in education.</li><li>➤ To develop awareness in contemporary modern issues and inspiring Innovations around the Globe.</li><li>➤ To enable students to develop innovative trends for growth and healthy living.</li><li>➤ To develop understanding of technical devices for inspiring innovations around the Globe.</li></ul> <p>The Pupil teacher will be able to-</p> <ul style="list-style-type: none"><li>➤ To use the test and experiment in school condition</li><li>➤ To know the procedure of administration and interpretation of the results of different types of Test and Experiment.</li><li>➤ Course-</li><li>A. Tests</li></ul>
<b>1. Philosophical and Sociological Perspective of Education</b>	
<b>2. Psychological Perspective of Education</b>	
<b>3. Technological Perspective of Education</b>	
<b>Optional Paper</b>	
<b>4. Innovations in Education</b>	
<b>Practicum (Educational Psychology Practical)</b>	

	<ul style="list-style-type: none"> <li>➤ 1. Intelligence Test- Raven's Progressive matrices/any other verbal or nonverbal intelligence test.</li> <li>➤ 2. Personality Test- High School Personality Questionnaire.</li> <li>➤ 3. Test of Study habit- Palsane and Sharma Study Habit inventory.</li> <li>➤ Experiment</li> <li>➤ 1. Memorisation by Paired Association Method</li> <li>➤ 2. Free Association</li> <li>➤ 3. Transfer of training through mirror drawing</li> </ul>
Professional Development	<p>To enable the pupil teacher to:</p> <ul style="list-style-type: none"> <li>➤ To enhance self confidence, self esteem and improve overall personality.</li> <li>➤ To sensitize themselves about proper behaviour, socially and professionally in formal and informal situations.</li> <li>➤ To understand to contribute themselves as a responsible member and citizen of their local, national and international community.</li> <li>➤ To develop skills and techniques for effective communication and public speaking.</li> <li>➤ To acquaint ,groom, train and prepare themselves for job requirement.</li> <li>➤ To understand the importance of Aestheticism in human life.</li> <li>➤ To develop interest in the Leisure time activities.</li> <li>➤ To understand the use of Drama as pedagogy.</li> <li>➤ To understand the use of Role Play technique in the teaching- learning process.</li> <li>➤ To understand to integrate singing method in teaching - learning process.</li> <li>➤ To understand the various Dance forms and then integrate in educational practices.</li> <li>➤ To use drawing, painting, sketches, cartoon making etc in teaching learning process.</li> <li>➤ To develop creativity through different creative Art &amp; Craft forms.</li> <li>➤ To understand the efficacy of different Art forms in education.</li> <li>➤ To understand the Well Being and Total Physical Fitness in one's life.</li> <li>➤ To understand &amp; develop the attitude towards Yoga practices for healthy life.</li> <li>➤ To understand &amp; develop attitude towards neutrality service to all sections of society irrespective of their categories for Disaster Management &amp; its Preparedness.</li> <li>➤ To understand and develop interest in gardening as a leisure time activity.</li> </ul>



Semester – 2	
Title	Course Outcomes
<b>Compulsory Papers</b>	<p>To enable the pupil teachers to:</p> <ul style="list-style-type: none"> <li>➤ Acquaint themselves with the concept of biology.</li> <li>➤ Familiarize themselves with the concept of curriculum, text books and co- curricular activities in biology.</li> <li>➤ Prepare a lesson plan .</li> <li>➤ Understand some important areas of biology.</li> </ul>
1 & 2 School Knowledge and Pedagogy of School Subject - 1 &2	
Teaching of Biology	
Teaching of Science	<p>To enable the pupil teachers to:</p> <ul style="list-style-type: none"> <li>➤ Acquaint themselves with the concept of science.</li> <li>➤ Familiarize themselves with the concept of curriculum, text books and co- curricular activities in science.</li> <li>➤ Prepare a lesson plan .</li> </ul> <p>Understand some important areas of science.</p>
Teaching of Mathematics	<p>To enable the pupil teachers to:</p> <ul style="list-style-type: none"> <li>➤ study and to develop an understanding of the different aspects of teaching mathematics.</li> <li>➤ study and Understand the objectives of teaching mathematics</li> <li>➤ study and Understand the Methods and Skills of teaching mathematics.</li> <li>➤ study and Understand the use of Club and the teacher's capacity making facilities in the teaching of mathematics.</li> </ul>
Teaching of English	<p>To enable the pupil teachers to:</p> <ul style="list-style-type: none"> <li>➤ Know and understand the history &amp; importance of Language as a second Language.</li> <li>➤ know and Understand the aspects of Language &amp; the theoretical Knowledge of the different structures of the Language.</li> <li>➤ develop the professional competencies regarding the different aspects of Language.</li> <li>➤ Know and Understand the different skills of of teaching English in classrooms.</li> </ul>
Teaching of Hindi	<p>□□□□□□ □□□□□□ □□ □□□□ □□ □□□□□□ □□</p> <p>□□□□□□□□ □□□□□ □□ □□□□□□□□</p> <ul style="list-style-type: none"> <li>➤ □□□□□□ □□□□□□ □□ □□□□□□□□ □□□□</li> <li>➤ □□□□□□□□□□□□ □□□□□□□□□□ □□ □□□□□□</li> <li>➤ □□□□□□ □□□□□□□□ □□ □□□□□□ □□</li> <li>□□□□□□ □□□□□□</li> <li>➤ □□□□□□ □□□□□□□□ □□ □□□□□ □□□□□□□□</li> <li>➤ □□□□□□□□ □□ □□□□□□□□ □□□□ □□</li> <li>□□□□□□□□□□ □□□□ □□□□□ □□□□□□□□ □□□□□□</li> <li>• □□□□□□ □□ □□□□□□□□ □□□□□□□□ □□□□</li> <li>□□□□□□□□ □□ □□□□□ □□</li> </ul>
Teaching of Economics	To enable the pupil teachers to:

	<ul style="list-style-type: none"> <li>➤ Develop a broad understanding of Economics.</li> <li>➤ Develop teaching competencies related to Economics at secondary level.</li> <li>➤ Become effective teachers in order to perform desired role as Economics teacher.</li> <li>➤ Familiarize themselves with the type of audio visual aids, techniques and methods of teaching required for teaching of Economics.</li> <li>➤ Evaluate students performance and provide remedial teaching.</li> </ul>
Teaching of Commerce	<p>To enable the pupil teachers to:</p> <ul style="list-style-type: none"> <li>➤ Develop a broad understanding of commerce.</li> <li>➤ Develop teaching competencies related to commerce at secondary level.</li> <li>➤ Become effective teachers in order to perform desired role as commerce teacher.</li> <li>➤ Familiarize themselves with the type of audio visual aids, techniques and methods of teaching required for teaching of commerce.</li> <li>➤ Evaluate students performance and provide remedial teaching.</li> </ul>
Teaching of History	<p>To enable the pupil teachers to:-</p> <ul style="list-style-type: none"> <li>➤ Develop a broad understanding of History.</li> <li>➤ Develop teaching competencies related to History at secondary level.</li> <li>➤ Become effective teachers in order to perform desired role as a History teacher.</li> <li>➤ Familiarize themselves with the type of audio-visual aids and acquire the ability to develop and use them.</li> <li>➤ Familiarize themselves with the techniques and methods of teaching required for teaching of History.</li> <li>➤ Evaluate students performance.</li> </ul>
Teaching of Civics	<p>To enable the pupil teachers to:-</p> <ul style="list-style-type: none"> <li>➤ Develop a broad understanding of Civics.</li> <li>➤ Develop teaching competencies related to Civics at secondary level.</li> <li>➤ Become effective teachers in order to perform desired role as a Civics teacher.</li> <li>➤ Familiarize themselves with the type of audio-visual aids and acquire the ability to develop and use them.</li> <li>➤ Familiarize themselves with the techniques and methods of teaching required for teaching of Civics.</li> <li>➤ Evaluate students performance.</li> </ul>
Teaching of Geography	<p>To enable the pupil teachers to:-</p> <ul style="list-style-type: none"> <li>➤ Develop a broad understanding of Geography.</li> <li>➤ Develop teaching competencies related to Geography at secondary level.</li> <li>➤ Become effective teachers in order to perform desired role</li> </ul>

	<p>as a Geography teacher.</p> <ul style="list-style-type: none"> <li>➤ Familiarize themselves with the type of audio-visual aids and acquire the ability to develop and use them.</li> <li>➤ Familiarize themselves with the techniques and methods of teaching required for teaching of Geography.</li> <li>➤ Evaluate students performance.</li> </ul>
Teaching of Sanskrit	<p>To enable the pupil teachers to:</p> <ul style="list-style-type: none"> <li>➤ hone the skill of Lesson Planning at the Secondary level</li> <li>➤ understand and organize co-curricular activities for teaching of Sanskrit.</li> <li>➤ get acquainted with the methods of teaching Sanskrit.</li> <li>➤ develop the skills of preparing and using effectively the instructional materials for the teaching of Sanskrit.</li> <li>➤ get acquainted with Principles of preparing Curriculum for Sanskrit.</li> <li>➤ develop diagnostic and remedial measures through Evaluation in teaching Sanskrit.</li> </ul>
Teaching of Home Science	<p>To enable the pupil- teachers to:</p> <ul style="list-style-type: none"> <li>➤ develop understanding of the aim of teaching of Home Science.</li> <li>➤ develop understanding of the various methods and procedures required for teaching Home Science effectively.</li> <li>➤ develop basic skills and competencies required for teaching of Home Science.</li> <li>➤ develop practical skills to organize various activities related to Home Science.</li> <li>➤ develop skills and competencies required for preparing teaching aids in teaching of Home Science.</li> <li>➤ develop competencies and skill for effective evaluation in Home Science.</li> </ul>
3. Inclusive Education	<p>To enable the pupil teachers to-</p> <ul style="list-style-type: none"> <li>➤ Realize the importance of inclusive education and inclusive education programmes and role of various agencies towards inclusion.</li> <li>➤ Know about the meaning and scope of special education</li> <li>➤ Understand the concept of exceptional children.</li> <li>➤ Grasp the meaning, specific characteristics and modalities of identification of some types of exceptional learners.</li> <li>➤ Understand various educational intervention programmes for meeting the needs of exceptional learners.</li> </ul>
4. School Management & Hygiene	<p>To enable the pupil teachers to-</p> <ul style="list-style-type: none"> <li>➤ Get acquainted with the concept and concerns of School Management.</li> <li>➤ Scientific practices of educational management and keep him to apply it in work situation.</li> <li>➤ Develop an understanding of the role of the headmaster and the teacher in school management.</li> <li>➤ Understand the importance of good health and positive</li> </ul>

	attitude towards exercise and health.
<b>Optional Paper</b>	To enable the pupil teachers to:
<b>5(1). Teaching of Computer Education</b>	<ul style="list-style-type: none"> <li>➤ study and understand the resources for teaching Computer Science.</li> <li>➤ study and understand the skills in teaching of the computer skills to the students teachers for programming and Networking.</li> <li>➤ study and understand the skill in organizing extended curricular activities in Computer Science</li> <li>➤ study and understand the skill in preparing special programs for gifted and slow learners.</li> <li>➤ develop the skill in critical analysis of the text books and question papers of secondary school Computer Science.</li> </ul>
<b>5(2). Teaching of Environmental Education</b>	<p>To enable the pupil- teachers to:</p> <ul style="list-style-type: none"> <li>➤ understand the need of environmental Education.</li> <li>➤ develop a sense of Awareness about the environmental pollution and possible hazards and its causes and remedies.</li> <li>➤ know various ways and means to create healthy environment.</li> </ul>
<b>Practicum</b>	
<b>Professional Development</b>	<p>To enable the pupil teacher to:</p> <ul style="list-style-type: none"> <li>➤ To enhance self confidence, self esteem and improve overall personality.</li> <li>➤ To sensitize themselves about proper behaviour, socially and professionally in formal and informal situations.</li> <li>➤ To understand to contribute themselves as a responsible member and citizen of their local, national and international community.</li> <li>➤ To develop skills and techniques for effective communication and public speaking.</li> <li>➤ To acquaint ,groom, train and prepare themselves for job requirement.</li> <li>➤ To understand the importance of Aestheticism in human life.</li> <li>➤ To develop interest in the Leisure time activities.</li> <li>➤ To understand the use of Drama as pedagogy.</li> <li>➤ To understand the use of Role Play technique in the teaching- learning process.</li> <li>➤ To understand to integrate singing method in teaching - learning process.</li> <li>➤ To understand the various Dance forms and then integrate in educational practices.</li> <li>➤ To use drawing, painting, sketches, cartoon making etc in teaching learning process.</li> <li>➤ To develop creativity through different creative Art &amp; Craft forms.</li> <li>➤ To understand the efficacy of different Art forms in education.</li> <li>➤ To understand the Well Being and Total Physical Fitness in</li> </ul>

	<p>one's life.</p> <ul style="list-style-type: none"> <li>➤ To understand &amp; develop the attitude towards Yoga practices for healthy life.</li> <li>➤ To understand &amp; develop attitude towards neutrality service to all sections of society irrespective of their categories for Disaster Management &amp; its Preparedness.</li> <li>➤ To understand and develop interest in gardening as a leisure time activity.</li> </ul>
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<b>Semester – 3</b>	
<b>Title</b>	<b>Course Outcomes</b>
<b>Compulsory Papers</b>	To enable the pupil- teachers to:
<b>1. Measurement and Evaluation in Education</b>	<ul style="list-style-type: none"> <li>➤ Comprehend the concept and purpose of measurement and evaluation</li> <li>➤ understand the various techniques and tools of evaluation.</li> <li>➤ know the various examination systems of India at different levels.</li> <li>➤ Compute and apply the statistical techniques in measurement and evaluation.</li> </ul>
<b>2. Theoretical Foundation of Curriculum</b>	<p>To enable the pupil- teachers to:</p> <ul style="list-style-type: none"> <li>➤ To enable the learners to understand the basic concept of curriculum, syllabus and textbooks.</li> <li>➤ To enable the learners to understand various types, methods, determinants and motives of curriculum development.</li> <li>➤ To enable the learners to understand various curriculum practices in India and abroad.</li> <li>➤ To enable the learners to design an innovative curricular model.</li> </ul>
<b>3. Guidance and Counselling</b>	<p>To enable the pupil- teachers to:</p> <ul style="list-style-type: none"> <li>➤ To understand the concept, need and meaning of guidance and counseling.</li> <li>➤ To get acquainted with the principles, various areas and procedure of guidance.</li> <li>➤ To develop understanding about the role of school in guidance.</li> <li>➤ To get acquainted with the principles and process of counseling.</li> <li>➤ To realize the qualities and role of a school counselor.</li> <li>➤ To acquire an idea about the need of counseling for children with special needs.</li> </ul>
<b>Field Work</b>	<ul style="list-style-type: none"> <li>➤ To enable the pupil- teachers to:</li> </ul>

Action Research	<ul style="list-style-type: none"> <li>➤ Define the concept of research and action research</li> <li>➤ Explain the steps of action research.</li> <li>➤ Describe in detail the dynamics of action research in educational contexts.</li> <li>➤ Demonstrate development and execution of action research project.</li> </ul>
<b>Professional Development</b>	<p>To enable the pupil teacher to:</p> <ul style="list-style-type: none"> <li>➤ To enhance self confidence, self esteem and improve overall personality.</li> <li>➤ To sensitize themselves about proper behaviour, socially and professionally in formal and informal situations.</li> <li>➤ To understand to contribute themselves as a responsible member and citizen of their local, national and international community.</li> <li>➤ To develop skills and techniques for effective communication and public speaking.</li> <li>➤ To acquaint ,groom, train and prepare themselves for job requirement.</li> <li>➤ To understand the importance of Aestheticism in human life.</li> <li>➤ To develop interest in the Leisure time activities.</li> <li>➤ To understand the use of Drama as pedagogy.</li> <li>➤ To understand the use of Role Play technique in the teaching- learning process.</li> <li>➤ To understand to integrate singing method in teaching - learning process.</li> <li>➤ To understand the various Dance forms and then integrate in educational practices.</li> <li>➤ To use drawing, painting, sketches, cartoon making etc in teaching learning process.</li> <li>➤ To develop creativity through different creative Art &amp; Craft forms.</li> <li>➤ To understand the efficacy of different Art forms in education.</li> <li>➤ To understand the Well Being and Total Physical Fitness in one's life.</li> <li>➤ To understand &amp; develop the attitude towards Yoga practices for healthy life.</li> <li>➤ To understand &amp; develop attitude towards neutrality service to all sections of society irrespective of their categories for Disaster Management &amp; its Preparedness.</li> <li>➤ To understand and develop interest in gardening as a leisure time activity.</li> </ul>

Semester – 4	
Title	Course Outcomes

<b>Compulsory Paper</b>	<p>To enable the pupil teachers to:</p> <ul style="list-style-type: none"> <li>➤ know and understand the constitutional provisions in regard to the education</li> <li>➤ know and understand the basics/ fundamentals associated in the discipline of education and in a process to be a teacher from the Philosophical perspectives.</li> <li>➤ know and understand the socio cultural realities of the teacher , teaching and the teacher education program in context of the education from the sociological perspectives .</li> <li>➤ know and understand the various aspects related to the teacher education in the changing Contemporary society.</li> </ul>
<b>1. Contemporary India and Education</b>	
<b>Professional Development</b>	<p>To enable the pupil teacher to:</p> <ul style="list-style-type: none"> <li>➤ To enhance self confidence, self esteem and improve overall personality.</li> <li>➤ To sensitize themselves about proper behaviour, socially and professionally in formal and informal situations.</li> <li>➤ To understand to contribute themselves as a responsible member and citizen of their local, national and international community.</li> <li>➤ To develop skills and techniques for effective communication and public speaking.</li> <li>➤ To acquaint ,groom, train and prepare themselves for job requirement.</li> <li>➤ To understand the importance of Aestheticism in human life.</li> <li>➤ To develop interest in the Leisure time activities.</li> <li>➤ To understand the use of Drama as pedagogy.</li> <li>➤ To understand the use of Role Play technique in the teaching- learning process.</li> <li>➤ To understand to integrate singing method in teaching - learning process.</li> <li>➤ To understand the various Dance forms and then integrate in educational practices.</li> <li>➤ To use drawing, painting, sketches, cartoon making etc in teaching learning process.</li> <li>➤ To develop creativity through different creative Art &amp; Craft forms.</li> <li>➤ To understand the efficacy of different Art forms in education.</li> <li>➤ To understand the Well Being and Total Physical Fitness in one's life.</li> <li>➤ To understand &amp; develop the attitude towards Yoga practices for healthy life.</li> <li>➤ To understand &amp; develop attitude towards neutrality service to all sections of society irrespective of their categories for Disaster Management &amp; its Preparedness.</li> <li>➤ To understand and develop interest in gardening as a leisure time activity.</li> </ul>

## **Learning Outcomes (LO)**

- Empowered in content and pedagogy of teaching subjects.
- Develop teaching competency and communication skills through internship programme.
- Understand the teaching as a profession and understanding of various approaches of teaching.
- Develop an awareness in the student-teacher about population and environment.
- To develop competency to solve the educational problems through action research.
- Understand the concept of knowledge and relationship between Philosophy and Education.
- Understand the role of education in promoting national & international values.
- Understand the psychology of learners and theories of learning & motivation.
- Understand the characteristic features, strengths and weaknesses of ancient, medieval, British and contemporary system of education in India.
- Understand the administration of education at different levels and also understand the role of Headmaster in school management.

## **Department of Commerce**

### **M.Com( Pure Commerce) CBCS**

#### **Programme Outcomes**

After Completing Masters in Commerce (M.Com) the students will be able to: □ Develop an ability to apply knowledge acquired in problem solving in practical life and management of business activities. □ Inculcate ethical values, team work, leadership and managerial skills moulding students into future visionaries, management leaders that are compassionate yet efficient. □ Develop innovative thought processes and nurture open-mindedness, equitability and perseverance. □ Develop teaching and research talent in students and to create academic expertise suiting to contemporary needs of the society. □ Adopt a reflective approach to personal development and embrace the philosophy of continual professional development.

#### **Specific Programme Outcomes**

After the completion of the M.Com Course, a student should be able to: • Pursue Research in his chosen area. • Become successful Entrepreneurs. • Teach in Colleges and Universities after qualifying the requisite tests. (NET/SET) • Work in Banking and Insurance sector as executives after qualifying requisite test. □ Pursue professional courses such as CA/CS/CMA/CFA. □ Work as Accountants in Corporations. □ Work as Executives in Marketing and Sales. □ Work as Managers in Organizations. □ Work as investment and tax consultants after internship in suitable organizations.

#### **Sem I**

#### **MC- 101 : ACCOUNTING THEORY AND PRACTICE**

#### **COURSE OUTCOMES :**



After completion of this course, the students should be able to : • Evaluate the notions and ideas of thought that have shaped theoretical basis for accounting • Examine the relationship between accounting theory and practice • Learn the fundamentals of depreciation, inventory and price-level changes • Understand practical implications of accounting theory.

### **MCCC-102 : WORKING CAPITAL MANAGEMENT**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to : □ Understand how to evaluate a company's liquidity position. □ Analyze factors affecting account receivables and payables. □ Identify components of cash and prepare short term cash budgets. □ Understand objective of inventory management and simple inventory control techniques.

### **MC- 103 : DIRECT TAX LAW AND ACCOUNTS**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to □ Know the provisions of the Income tax act □ Study various heads of Income □ Analyze the profit and gain from business or profession □ Combine the learning across the financial accounting and financial management.

### **MC – 104 : INDIAN AND GLOBAL BUSINESS ENVIRONMENT**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to □ Identify and differentiate various Micro and Macro factors affecting functioning of Business. □ Analyze Indian and Global Economy in light of changing government regulatory policies. □ Understand unfair trade practices under FEMA Act. □ Learn about the objectives and strategies in Economic planning with special reference to Planning Commission and NITI Aayog.

### **MC – 105 : MARKETING MANAGEMENT**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to □ Learn about Marketing Concepts and Philosophies. □ Understand the changing Marketing Environment. □ Gain knowledge of consumer buying behaviors. □ Take product related decisions. □ Gain knowledge of current trends in marketing.

### **MCVC-101 : BUSINESS ETHICS AND CORPORATE GOVERNANCE**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to : □ Understand the value and necessity of giving back to the society. □ Appreciate accountability of business entities towards stakeholders and society. □ Understand the need for strong internal control in order to prevent corporate frauds. □ Build up traits in value system and become responsible global citizens.

## **Sem II**

### **MC- 201 : ACCOUNTING FOR BUSINESS DECISIONS**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to □ Develop an insight of postulates, principles and techniques of accounting and utilization of financial and accounting information for planning, decisions making and control. □ Gain knowledge about tools and techniques of financial statement analysis. □ Identify difference between various forms of accounting- Financial, Management and Cost. □ Prepare forms of budgetary statements and types of budget.

### **MC- 202 : INDIRECT TAX LAW AND ACCOUNTS**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to : □ Know the basic methods and legal provisions of indirect taxes □ Understand the importance of indirect taxes (GST) in the Indian and global economy and its contribution to the economic development. □ Comprehend the principles of taxation, objectives of tax and its impact, shifting and incidence process of indirect taxes in the market orientated economy. □ Understand the implications of GST on the taxable capacity consumers, dealers and society at large. □ Understand the Custom Duty framework in India.

### **MCCC- 203 : LABOUR LEGISLATION**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to : □ Know about the developments and the judicial setup of Labour Laws. □ Learn about the salient features of welfare and wage Legislations. □ Understand the laws related to working conditions of labour.

### **MCCC-204 : BUSINESS ANALYSIS AND FORECASTING**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to : • Understand the importance of forecasting in making accurate decisions in economic and business environment. • Forecast demand in light of changing circumstances and to formulate business plans. • Handling the trend seasonal and cyclical issues in forecasting analysis. • Understand the bases of regression analysis, time series and its application and forecasting.

### **MCCC – 205 : FINANCIAL MANAGEMENT**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to : □ Learn about the various sources of finance available to businessmen. □ Ability to select an investment proposal by analyzing the compounded and discounted value of money invested. □ Understand the theories and factors upon which dividend and financing decisions are taken.

### **MCCC – 206 : ENTREPRENEURSHIP DEVELOPMENT**

**COURSE OUTCOMES :** After completion of this course, the students should be able to □ Understand the institutional support to entrepreneurs □ Classify the challenges of women entrepreneur □ Know the parameters to assess opportunities and constraints for new business ideas □ Understand the systematic process to select and screen a business idea □ Design strategies for successful implementation of idea and write a business plan

### **MCVNC-201: FRENCH**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to : □ Communicate elementary things in French □ Read and write official letters □ Prepare resume and advertisements □ Work in multinational companies

### **MCVNC-201: YOGA**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to : □ Practice Self discipline and Self control. □ Develop Self awareness □ Improve concentration and higher level of consciousness □ Improve health, hygiene and emotional stability

### **Sem III**

### **MC- 301 : CORPORATE ACCOUNTING**

**COURSE OUTCOMES :** After completion of this course, the students should be able to : • Calculate Goodwill, evaluate shares adopting different methods and preparation of final accounts of Indian Companies. • Have a comprehensive understanding of the advanced issues in accounting for assets, liabilities and owner's equity • Understand the treatment regarding issue of bonus shares and treatment of prior period profits • Account for

mergers and amalgamations and analyse the internal or external reconstructions of companies • Summarize the consolidated financial statement and balance sheet for holding companies

### **MCCC – 302 : HUMAN RESOURCE MANAGEMENT**

**COURSE OUTCOMES :** After completion of this course, the students should be able to : • Understand employee recruitment and selection process. • Evaluate different training programs and understand their limitations. • Gain knowledge regarding the developing role of human resource management in the globalized world.

### **MCEL-301B : CUSTOMER RELATIONSHIP MANAGEMENT**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to : □ Understand the concepts and principles of CRM and managing Customer Relationship. □ Appreciate the rules and changing face of CRM as an IT enabled function □ Introduce the core concepts of CRM paradigm □ Emphasize CRM as a business strategy □ Highlight the role of appropriate business process and technology management capabilities in managing customer relationship

### **MCEL-302B : DIGITAL MARKETING**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to : □ Understand the concept of digital marketing and its real world iterations. □ Articulate innovative insides of digital marketing enabling a competitive edge. □ Understand how to create and run digital media based campaigns. □ Identify and utilize various tools of digital marketing.

### **MCIER – 301 : FUNDAMENTALS OF ACCOUNTING AND TAXATION**

#### **COURSE OUTCOMES :**

After completion of this course the students should be able to : □ To given an exposure to the principles of accounting & the preparation of final accounts. □ To enable students to be proficient in tax management □ To familiarize them with the knowledge of funds management.

## **Sem IV**

### **MCCC-401 : FORENSIC ACCOUNTING AND FRAUD EXAMINATION**

#### **COURSE OUTCOMES :**

After completion of this course, the students should be able to : □ Understand forensic accounting □ Describe various kinds of corporate frauds □ Develop the strategies to prevent corporate fraud, use fraud investigation techniques, inquiry methods generate fraud reports and discuss the policy implications at top management level. □ Discuss about Banking, Insurance and Capital Markets Frauds. □ Do Legal follow-up, including evidence gathering

### **MCEL-401B : SERVICES MARKETING**

#### **COURSE OUTCOMES:**

The students will be able to- □ Explain the nature and scope of service marketing and utilize key service frameworks including the 7p's of marketing, the GAPS model □ Demonstrate knowledge of the extending marketing mix for services. □ Develop and justify marketing planning and control systems appropriate to service-based activity. □ Explain service blueprint, integration of new technologies and other key issues facing today's customer service providers and service managers. □ Provide a theoretical and practical basis for assessing service performance.

### **MCEL-402B : SALES AND DISTRIBUTION MANAGEMENT**

**COURSE OUTCOMES :**

After completion of this course, the students should be able to : □ Gain knowledge, understanding and skills in sales force management. □ Acquaint with implementation of sales management strategies. □ Understand the Distribution process in organisation. □ Apply the Practical aspects of the key decision making in sales force and distribution channel management.

**MCIRA-401 : INDIAN FINANCIAL SYSTEM****COURSE OUTCOMES :**

After completion of this course, the students should be able to : □ Acquire knowledge of the various components of Indian financial system and recent reforms. □ Know about the financial instruments of money and capital market. □ Understand the interplay of the financial markets, institutions and services in the Indian economy. □ Understand the regulatory framework governing the Indian financial system.

**B.Com****PROGRAMME OUTCOMES**

The Bachelor of Commerce (B.Com) is one of the most sought-after career oriented professional programs offered at the bachelor's level by the University of Lucknow. A bachelor's degree in Commerce opens up innumerable career options and opportunities for aspiring professionals and managers both in India and abroad. Pursuing this bachelor's degree also prepares one to start a business of his/ her own in the capacity of an entrepreneur. The curriculum is designed and refined to make the students familiar with the right blend of theory and practice to learn all aspects related to business and commerce. By pursuing this course, the students shall gain indepth knowledge and analytical skills which would make them into future entrepreneurs, businessmen or professionals working in the field of commerce. This programme offers great career options and opportunities for students by providing them with relevant core and specific knowledge skills in the discipline of Commerce. 1. This programme would provide qualified graduates to the corporate sector, banking sector, insurance sector, financing service sector to meet their employment requirements. 2. Students can gain specialization in the field of Accounting, Costing, Finance and Taxation and acquire application oriented skills. 3. Students can independently Start-up their own Businesses as well as avail of self employment opportunities. 4. This programme imparts skills to students to sharpen their decisions making abilities both at personal & professional level. 5. Students will gain thorough knowledge in the field of finance and commerce and stand out in any organization. Students will develop an attitude for working efficiently and effectively in the business environment.

**PROGRAMME SPECIFIC OUTCOMES**

After completion of the course the students will acquire an indepth understanding of the core and new disciplines of the commercial world.

1. Students can become efficient managers in the field of Banking and Insurance.
2. Students can acquire practical skills and take up jobs as Accountants, Management Accountants, Audit Assistants and Executives in multinational companies.
3. After undergoing special training students may enrol to operate in the Stock markets.
4. Students can excel in different professional exams like C.A., C.S., CMA & MBA.
5. After clearing the requisite exam students can qualify for various Government jobs.
6. After undergoing a specialised course, students can become Tax and Financial Consultants.
7. Students can go for higher education and research in the field of finance and commerce.

**B. Com I- NEP- CBCS(w.e.f 2021-22) ; B.Com II and III year(Semester System- w.e.f 2018-19)**

**B. Com Semester I-**

**Paper 1 : FINANCIAL ACCOUNTING**

**Course Outcome:**

The student will be able to :- □ Acquire knowledge in the basic concepts and conventions of accounting. □ Prepare accounts of a partnership firm. □ Prepare accounts of special kinds such as Royalty accounts, Voyage accounts and Branch accounts. □ Prepare accounts as per norms in case of Hire Purchase & Instalment Purchase as well as Insolvency of the business units. □ Gain insight into the Indian & International accounting standards as well as IFRS. □ Develop skills in understanding and analysing the contents incorporated in books and accounts.

**Paper –2: BUSINESS ORGANISATION****Course Outcome:**

The students will be able to: □ Understand basics about business organization and its various forms. □ Understand the Social Responsibility of Business towards the various groups of the society □ Get knowledge about computation and fixation of remuneration of labour and incentive plans. □ Gain insight about features of stock exchanges, commodity exchanges and their working as well as regulation. □ Gain knowledge of the new pattern of business operations and organisations i.e., Ebusiness, LLP, OPC. □ Understand the various elements of organisation. □ Acquaint themselves with the global changes in the business arena.

**Paper 3 : MICRO ECONOMICS****Course Outcomes:**

After studying all materials and resources presented in the course, the student will be able to:

- Explain the role of scarcity, specialization, opportunity cost and cost/benefit analysis in economic decision-making.
- Identify the determinants of supply and demand; demonstrate the impact of shifts in both market supply and demand curves on equilibrium price and output.
- Summarize the law of diminishing marginal utility; describe the process of utility maximization.
- Calculate supply and demand elasticities, identify the determinants of price elasticity of demand and supply, and demonstrate the relationship between elasticity and total revenue.
- Describe the production function and the Law of Diminishing Marginal Productivity; calculate and graph short-run and long-run costs of production.
- Relate to real world business scenario through study of various market forms.
- Study the factors affecting distribution of income through an analysis of various factor payments.
- Gain indepth insight and equip them to analyze the real economic situations more effectively with the help of practical problems using elementary mathematics.

**Paper 4 - CURRENCY, BANKING AND EXCHANGE****Course outcome**

After studying all materials and resources presented in the course, the student will be able to:

- Have a sound theoretical base in various areas of banking and exchange.
- Understand the channel for flow of money in the economy.
- Analyse the role and importance of credit in the economy.
- Get the insight knowledge about exchange rate and exchange control.

**Paper 5- ESSENTIAL OF MANAGEMENT****Course Outcomes**

Upon successful completion of this course the students will be able to:

- Map the evolution of ‘Management’ as a discipline and as a process that helps in the analysis of internal and external environment.
- Understand of the various aspects of Planning and decision making, and of Authority and Responsibility in a formal organization

- Organise, motivate and lead in an organization
- Understand Control functions and make simple applications

## **Paper 6-Co-curricular Course I**

### **B.Com. – Semester II**

#### **Paper 7 : CORPORATE ACCOUNTING**

##### **Course Outcome:**

The student will be able to :- □ Understand the features and accounting treatment of Shares and Debentures. □ Knowledge about Accounting entries related to Redemption of Shares and Debentures. □ Prepare of Company's Final Accounts. □ Acquire knowledge of accounting procedure adopted during Amalgamation and Absorption of companies. □ Acquire conceptual knowledge of Internal and external reconstruction of companies and their accounting treatment. □ Knowledge regarding accounting treatment and procedure adopted at the time of winding up of companies.

#### **Paper 8 : BUSINESS REGULATORY FRAMEWORK**

##### **Course Outcome:**

The students will be able to:- □ Understand the nature and meaning of contracts, forms of contracts and essentials of a valid contract. □ Gain insight into various kinds of contract. □ Gain indepth knowledge of Sales of Goods Act and Negotiable Instruments Act □ Understanding the rights, duties and responsibilities as a vendor and as a consumer. □ Have knowledge of the fundamentals of Consumer Protection Act. □ Keep updated about the amendments in these laws and regulations.

#### **Paper 9: PUBLIC FINANCE**

##### **Course Outcome :**

1. To introduce students to the public sector reform agenda with a focus on public finance issues;
2. To demonstrate administrative, political, and economic constraints to public finance reforms;
3. To develop analytical skills of the students in three major areas of public finance reforms (performance-based budgeting, mid-term financial planning, budget decentralization);
4. To train students how to develop budgeting and performance evaluation systems for public sector institutions;
5. To develop students' skills on how to write a public policy paper and make a presentation on public policy issue.

#### **Paper 10 : BUSINESS COMMUNICATION**

##### **Course Outcomes**

Upon successful completion of this course the students will be able to: • Apply principles of effective communication in their verbal and non-verbal communication. • Write effective e-mails, memos, and business correspondence. • Illustrate presentation skills • Plan effective business meetings • Identify communication barriers

#### **Paper 11- Selling and Advertising**

## **Course Outcomes**

Upon successful completion of this course the students will be able to demonstrate strong conceptual knowledge in the selling and advertising, students will be able to demonstrate its application for resolution of problems pertaining selling and advertising.

## **Paper 12- Vocational Course I**

### **B.Com. – Semester III (as per old course)**

#### **Paper I : Business Finance**

##### **Course Objective:**

The objective of the course is to familiarise students with the concept of finance, associated costs, capital structure and working capital management. Course Outcome: The students will be able to:- □ Demonstrate an understanding of the overall role and importance of the finance function. □ Understand the role and responsibilities of a Finance Manager in an organisation. □ Gain knowledge of the concept of cost of capital, capitalisation; over and under capitalization. □ Have knowledge about the long and short term sources of finance as well as the Capital Market. □ Apply ratio analysis as a tool of managing and controlling finances of a business entity. □ Analyse the complexities associated with working capital management, and the financing approaches to working capital.

#### **Paper II : Principles and Practice of Marketing**

##### **Course Outcome:**

The students will be able to:- □ Have knowledge about marketing and its functions □ Understand what is a product, its classifications and product life cycle □ Gain knowledge about the mechanism of price determination of a product in various markets □ Understand the need and significance of distribution channels □ Gain insight into the concept of advertising and how it affects the buying habits of a consumer □ Understand and trap the psyche of consumer in order to market a product.

#### **Paper III- Statistical Methods**

##### **Course Outcome:**

The course content of this paper has been designed with the assumption that students have no knowledge or rudimentary knowledge of Business Statistics. The purpose is to enhance student's understanding of the fundamentals of statistics. In this paper the students will be imparted the knowledge about the measures of descriptive as well analytical statistics and their application in different fields. These fields may include business, trade, industry, macroeconomic indicators, social phenomenon, day to day activities etc. Through the study of this paper, students will become acquainted with specific skills of data collection, processing, presentation and application of statistical tools on these data. This is how they will know the characteristics of data and learn analysis, interpretation and prediction of unknown data.

#### **Paper IV- Public Finance**

##### **Course outcomes:**

1. To introduce students to the public sector reform agenda with a focus on public finance issues; 2. To demonstrate administrative, political, and economic constraints to public finance reforms; 3. To develop analytical skills of the students in three major areas of public finance reforms (performance-based budgeting, mid-term financial planning, budget decentralization); 4. To train students how to develop budgeting and performance

evaluation systems for public sector institutions; 5. To develop students' skills on how to write a public policy paper and make a presentation on public policy issue.

### **Paper V- Selling and Advertising**

#### **Course Outcomes**

Upon successful completion of this course the students will be able to demonstrate strong conceptual knowledge in the selling and advertising, students will be able to demonstrate its application for resolution of problems pertaining selling and advertising.

### **Paper VI - Managing Human Resources**

#### **Course Outcomes**

Upon successful completion of this course the students will be able to: • Develop the basic understanding about the importance of HR function • Learn the various concepts of Human Resource Management processes required to Induct and Recruit the employees • Develop the basic knowledge of Training and Performance Appraisal of employees • Learn important issues related to Compensation and Wage Administration

### **B.Com. – Semester IV**

#### **Paper I : Cost Accounting**

##### **Course Outcomes:**

The students will be able to:- □ Understand the nature and scope of Cost Accounting. □ Gain knowledge about the advantages of cost accounting and classifications of various costs. □ Acquire knowledge about accounting and control of material cost and labour cost. □ Know overhead costing as well as and Apportionment and Absorption of Overheads. □ Understand the methods of costing, marginal costing and budgetary control system. □ Gain knowledge of Unit or Output costing as well as standard costing.

#### **Paper II : Contemporary Audit**

##### **Course Outcomes:**

The students will be able to :- □ Understand the concept, types & techniques of audit. □ Gain Knowledge of audit documentation vouching and verification of Assets and Liabilities. □ Understand provisions regarding appointment of a company auditor and learn about his powers and duties □ Have knowledge of Special provisions regarding Government Audit. □ Gain insight into audit of special entities and emerging concepts in auditing as well as auditing and assurance standards. □ Understand the real life skills in the ascertainment of cost in various types of products and services.

### **Paper III- FOREIGN TRADE OF INDIA**

#### **Course Outcome:**

Through the study of this subject, students will be able to understand the underlying motives of international trade. They will know the composition, direction and volume of trade over a period of time. This subject will keep students abreast with the current status and changing dynamics of India's foreign trade as well as the impact of policy changes on it. With this robust foundation, students will be well equipped when employed, whether in the field of industry or trade (export-import).

### **Paper IV- EXPORT IMPORT PROCEDURES & DOCUMENTATION**

#### **Course Outcome:**

After learning this course, students would understand the rules, regulations, procedures and documentation to be followed for export-import trade in India.

### **Paper V -Introduction of International Business**



## **Course Outcome:**

After learning this course, students would understand the concepts of the international business, reasons for entering into International Business, modes of entry, Concept of MNC, TNC. WTO - structure, functions and roles in the current international business scenario, concept and various levels of international economic integration, major regional trade agreements, features of European Union, SAARC, NAFTA, ASEAN, SAFTA, Limitations of Regional Economic Integration, BRICS, International financial institutions, Future trends in international business, concepts of FDI and Portfolio investments .

## **Paper VI- Information Systems and E-Commerce**

### **Course Outcomes**

Upon successful completion of this course the students will be able to: • Develop the functional knowledge of Computer Systems • Develop the thorough understanding of various Information Systems with particular focus on DSS, MIS, TP, EIS and, CRM Systems • Understand the basic knowledge of the applications of Database Management Systems and their development • Understand the concepts of E-Commerce with an application orientation

## **B.Com. – Semester V**

### **Paper I : Goods And Services Tax**

#### **Course Outcomes:**

The students will be able to:- □ Learn the concept of Indirect tax from Pre-GST period to Post-GST period. □ Understand the difference between forward charge, reverse charge mechanism and the difference between composite and mixed supply. □ Know the contents and format for various documents like tax invoice, bill of supply, debit note, credit note etc. □ Record and analyze the transactions for compliance under GST. □ Understand the procedure for registration, payment and refund of GST as well as mechanism to determine it.

### **Paper II : Labour Welfare Laws**

#### **Course Outcome:**

The students will be able to:- □ Interpret the various provisions under the Act and understand how they can be used to improve industrial harmony. □ Understand policies related to compensation, insurance, provident funds, gratuity etc. for the benefit of the company and employees. □ Understand the role and complexities of trade unions in order to maintain cordial relations between management and labour. □ Gain knowledge of the provisions of various acts like Payment of Gratuity Act, Workmen's Compensation Act, Trade Union Act, Employees' Provident Funds, Miscellaneous Provisions Act and its application for labour welfare.

### **Paper III- Macro Economics**

#### **Course Outcomes**

Students who complete this course will be able to understand: the meaning of unemployment and inflation data and how that data is collected and computed; the meaning and components of the National Income Accounts, especially GDP; the meaning of the business cycle and its phases; and to manipulate the basic Aggregate Supply, Aggregate Demand model of the macro economy; how fiscal policy operates, its tools, and its advantages and drawbacks; how a fractional reserve banking system works; how monetary policy operates, its tools, and its advantages and drawbacks.

### **Paper IV-INDIAN ECONOMY**

#### **Course outcome**

The paper provides students understand the basics of our economy. It acquaints students with changing dimensions of our economy. It also provides students knowledge about various policies and programmes run by our government and their impact on our economy.

### **Paper V Institutional Framework for Business**

#### **Course Outcomes**

Upon successful completion of this course the students will be able understand how the institutional framework for business will empower them to better locate and employ the opportunities available during the course of fulfilling their duties in various managerial roles. They would be able to take better decisions and design and provide better value to both their respective organizations and the various stakeholders involved. The knowledge of the institutional mechanisms will stand in good stead for the budding entrepreneurs of tomorrow.

### **Paper VI- Company Law and Secretarial Practice**

#### **Course Outcomes**

Upon successful completion of this course the students will be able to:

- Understand the nature, types and formation of companies in India
- Understand and draft Memorandum of Association and Articles of Association
- Plan the management of Share Capital and its Issuance
- Understand the legal implications in appointment of company officials and conduct and scope of Company Meetings

### **B.Com. – Semester VI**

#### **Paper I : Income Tax Law and Accounts**

##### **Course Outcomes:**

The students will be able to:- □ Know about the basic concept of Income Tax. □ Understand the provisions of Income tax in order to minimize the ultimate tax liability by setting off loss due to agricultural Income. □ Understand the provisions relating to residential status and incidence/charge of Tax. □ Compute total income under five Heads of Income i.e. Salaries, House Property, Profits & Gains from Business & Profession, Capital Gains and Other Sources. □ Acquire knowledge of the provisions and procedure for clubbing & aggregation of incomes and set-off & carry forward of losses. □ Understand provisions about appeal & revision, tax penalties, offence and prosecutions.

#### **Paper II : Principles and Practice of Insurance**

##### **Course Outcome:**

The students will be able to:- □ Gain knowledge about the concept & purpose of insurance, Double insurance, Over insurance, Under-insurance and Re-insurance. □ Gain insight about the Theories, Principles and Contracts of Insurance. □ Learn various policies, Terms & conditions and Types of Life Insurance. □ Gain knowledge regarding basic principles of Fire Insurance contracts, fire policy, assignment and Claims. □ Acquire knowledge on Principles, Types, Conditions, Warranties in Marine Insurance policy as well as marine losses.

### **Paper III APPLIED AND BUSINESS STATISTICS**

#### **Course Outcomes:**

On completion of this course, the students will be able to: Describe and discuss the key terminology, concepts tools and techniques used in business statistical analysis; Critically evaluate the underlying assumptions of analysis tools; Understand and critically discuss the issues surrounding sampling and significance; Discuss critically the uses and limitations of statistical analysis; Solve a range of problems using the techniques covered; Conduct basic statistical analysis of data.

## **Paper IV Economics of Public Enterprises**

### **Course Outcome:**

After learning this course, students would be able to understand in detail the fundamentals, working, evaluation etc. of public enterprises.

## **Paper V Business Operations**

### **Course Outcomes**

Upon successful completion of this course the students will be able to comprehend the operational activities in any organization - Production based and/or Service Based. They will be able to effectively & efficiently execute different operational functions in any business organization.

## **Paper VI - Fundamentals of Entrepreneurship & Project Planning**

### **Course Outcomes**

Upon successful completion of this course the students will be able to: • Develop the concepts of Entrepreneurship and its practical significance • Develop the capability to identify business opportunities and work on them • Learn to develop a Business Plan with sufficient focus on Technology, Human Resource and management of Financial resources • Learn to source the funds and apply them efficiently.

## **Co-Curricular Courses in B.A., B.Sc. and B. Com Semester I (NEP- session 2021-22)**

### **Holistic Health and Happiness**

**Course Objective:** The objective of this course is to enhance the level of understanding of the students about holistic health specifically in terms of indigenous knowledge. To help the students to understand the importance of thoughts in affecting the body and thereby the level of holistic health and happiness.

**Course Outcome:** The learners will develop skills of managing health at different levels. They would become spiritually oriented not only in their own lives but also to contribute in their interpersonal relationship, society and community. They will learn the strategies of managing their negative thoughts and enhancing the level of emotional intelligence with the practice of meditation. They will understand how western knowledge of psychological concepts can be supplemented by Indian Spiritual heritage.

### **Communicative English (CCE)**

**(2021-22)**

### **Course Specific Outcome:**

- Identify various text types, and comprehend them
- Use and comprehend a reasonable vocabulary and reinforce their language proficiency

### Learning Outcome:

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

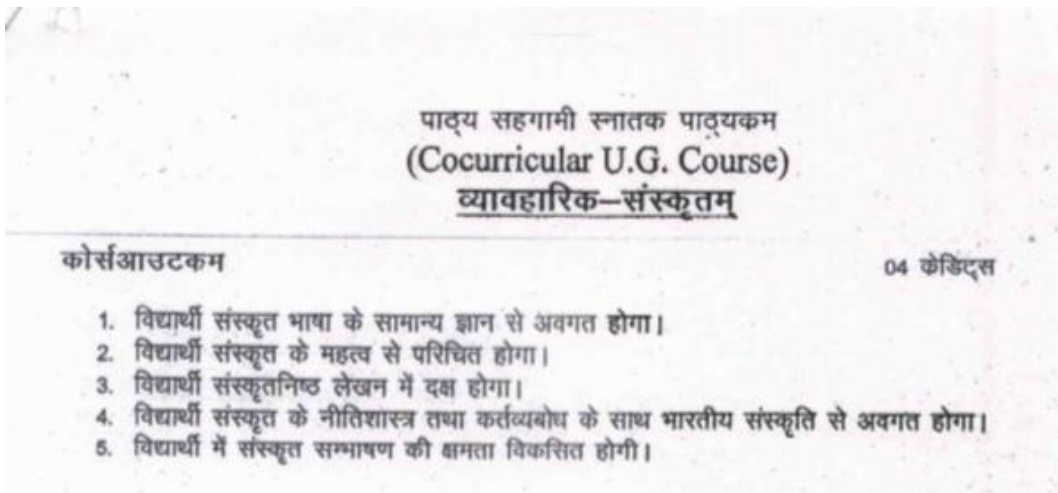
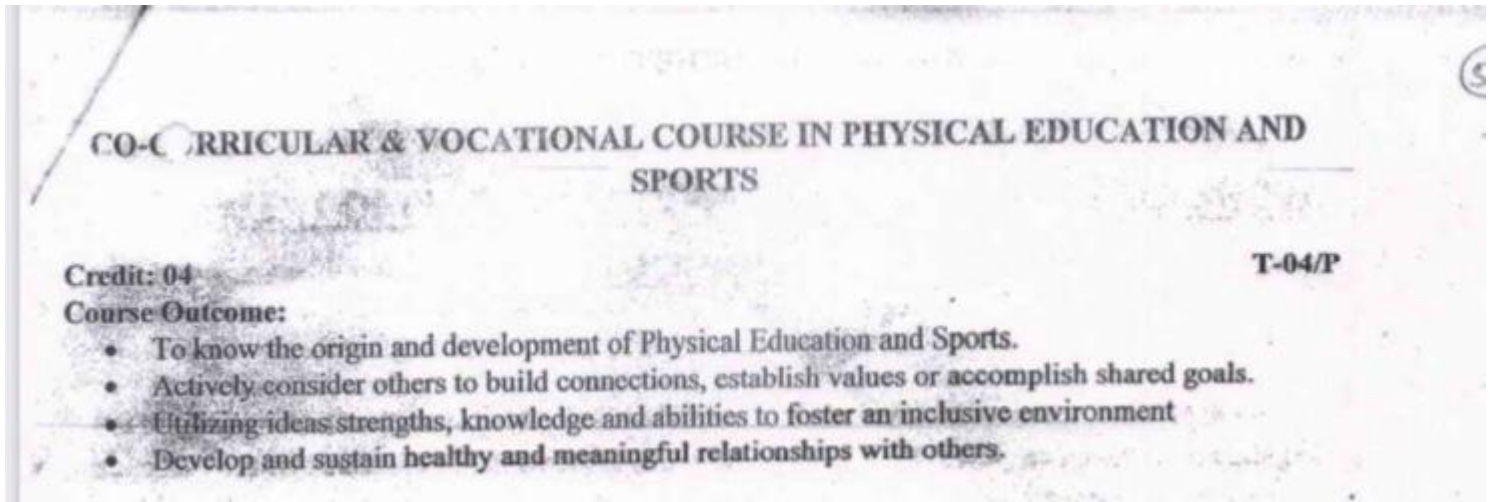
- Develop the ability to communicate effectively
- Understand the basic features of communication- verbal and nonverbal

Improve language skills and attain communicative competence.

### Leadership and Personality Development

#### Course Outcome:

This programme is design to aid candidates in their preparation for recruitment through and outside campus. The course will enable students to be better professionals through effective communication. Student will learn skill to present themselves in an effective manner while facing interviews or similar test for placements.



## **Co-Curricular Course in Mathematics**

**Course: B.A./B.Sc. Semester-I**

**Paper Name: Vedic Mathematics**

**Pre-requisites: Mathematics in Class 12**

**Maximum Number of students: 60**

**Vedic Arithmetic:** Multiplication- Ekadhikenpurven method (multiplication of two numbers of two digits), Ekununenpurven method (multiplication of two numbers of three digits), Urdhvatiragbhyam method (multiplication of two numbers of three digits), Nikhilam Navtashchramam Dashtaha (multiplication of two numbers of three digits), Combined Operations. Division- Nikhilam Navtashchramam Dashtaha (two digits divisor), Paravartya Yojyet method (three digits divisor), Divisibility- Ekadhikenpurven Method (two digits divisor), Ekununenpurven method (two digits divisor), LCM and HCF, Power- Square and Cube of two digit numbers, Square root of four digit numbers and Cube root of six digit numbers.

**Vedic Algebra:** Multiplication (Quadratic expressions of single variable)- Urdhvatiragbhyam Method, Combined Operations, Division (Divisor: Linear expression of single variable), Factorization (Quadratic expression of single variable), Solution of linear simultaneous expressions.

**Vedic Geometry:** Concept of Baudhayana Number (BN) - BN of an angle, Multiplication of a constant in a BN, BN of complementary angles, BN of sum and difference of an angle, BN of half angle. Trigonometry- Definitions of trigonometric ratios, Trigonometric Identities. Co-ordinate Geometry - Different forms of straight lines. Complex Numbers- Multiplication, Division and Square root.

**Contribution of Indian Mathematicians:** Aryabhatt, Brahmagupt, Mahavir Acharya, Varahmihir, Bhaskaracharya, Madhavan, Parmeshvaran, Baudhayana



## **Vocational Course in Statistics**

### **VC1- Introduction to Statistical Data Analysis-I**

**Credits: 04**

#### **Course Outcome:**

- ✓ Knowledge of Statistics, its scope and importance in various fields.
- ✓ Ability to understand concepts of sample vs. population and difference between different types of data.
- ✓ Knowledge of methods for summarising data sets, including common graphical tools (such as boxplots, histograms and stem plots). Interpret histograms and boxplots.
- ✓ Ability to describe data with measures of central tendency and measures of dispersion.
- ✓ Ability to understand measures of skewness and kurtosis and their utility and significance.

#### **Title of the Paper: Counselling and Guidance**

**Credits: 04**

**Course Objectives-** The objective of the course is to facilitate students about the concept of counselling and guidance. To provide knowledge to the learner about the goals, stages, elements, skills and procedure of Counselling.

**Course Outcome:** The study of this course will facilitate the students to develop the essential qualities of a counsellor within themselves. They will be able to learn about the various foundation skills that are applied during the counselling and thereby enhance their understanding about the structure of counselling sessions.

**Holistic Health and Happiness**

**Course Objective:** The objective of this course is to enhance the level of understanding of the students about holistic health specifically in terms of indigenous knowledge. To help the students to understand the importance of thoughts in affecting the body and thereby the level of holistic health and happiness.

**Course Outcome:** The learners will develop skills of managing health at different levels. They would become spiritually oriented not only in their own lives but also to contribute in their interpersonal relationship, society and community. They will learn the strategies of managing their negative thoughts and enhancing the level of emotional intelligence with the practice of meditation. They will understand how western knowledge of psychological concepts can be supplemented by Indian Spiritual heritage.

(L1)

पाठ्यक्रम	
कर्मकाण्ड	
क्रेडिट : 4	सिद्धान्त + प्रयोग : 04
<ul style="list-style-type: none"> <li>पाठ्यक्रम के परिणाम – वैदिक एवं लौकिक, नित्यकर्म नैमित्तिककर्म के द्वारा व्यक्तित्व का निर्माण ।</li> <li>वैदिक एवं लौकिक, नित्यनैमित्तिक कर्मकाण्ड के माध्यम से जीविकोपार्जन के योग्य बनेंगे ।</li> <li>वैदिक एवं लौकिक कर्मकाण्ड की समृद्धता एवं तद् निहित नैतिकता एवं आध्यात्मिकता को अनुभूत कर भारतीय संस्कृति के महत्व को वैश्विक स्तर तक पहुंचाने में सक्षम होंगे ।</li> <li>धर्म-दर्शन, आधार-व्यवहार, नीति शास्त्र एवं भारतीय संस्कृति के मूल तत्वों को जानकर उत्तम चरित्रवान मानव एवं कुशल नागरिक बनेंगे ।</li> </ul>	

**BA ECONOMICS**  
**SEMESTER-I, Paper: II (For CC1 )**  
**FINANCIAL LITERACY AND BANKING**

**Course Code: ECO-101 CC1**

**Credit: 4**

**(T)**

**Course Objective:** The course is designed to inculcate the values of financial literacy and banking in the 21<sup>st</sup> century, which are an utmost need of the hour to overcome various challenges. To make the students aware of the benefits of financial planning through financial literacy and banking.