

Course Outcomes
Dept. Of Education
B.A B.Ed B.Sc B.Ed Ist Semester

Paper: ABILITY ENHANCEMENT COMPULSORY COURSES AEC1 (I):
LANGUAGE SKILLS (HINDI)-I

Course Outcomes-

- To enable the students to acquire basic skills in functional language.
- To develop independent reading skills and reading for appreciating literary works.
- To internalize grammar rules so as to facilitate fluency in speech and writing.
- To develop functional and creative skills in language.
- To develop values of liberalism and an insight into the cultural heritage of the region which remains embodied in the literary output of the region.

Paper: ABILITY ENHANCEMENT COMPULSORY COURSES (AEC1) (I):
LANGUAGE SKILLS (ENGLISH) –I

Course Outcomes-

Students develop proficiency in English which equips them to:

- Understand the demands of audience, subject, situation and purpose and the use of language for effective communication.
- Analyse language in context to gain an understanding of grammar, vocabulary, spelling, punctuation and speech.
- Examine authentic literary and non-literary texts and develop insight and appreciation.
- Gain an understanding of study and reference skills.
- Plan, draft, edit and present a piece of writing.

Paper: ABILITY ENHANCEMENT COMPULSORY COURSES (AECC)
AEC2(I): INFORMATION AND COMMUNICATION TECHNOLOGY(ICT)

Course Outcomes-

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

- Appreciate the historical development of various educational media.
- Identify and demonstrate an understanding of the main components of the computer hardware in use.
- Differentiate various operating system and explain main functions of the system and application software environment.

- Use word processor, spread sheet, drawing and presentation software to produce various teaching learning resources for educational use.
- Use internet technologies efficiently to access remote information, communicate and collaborate with others.
- Model collaborative knowledge construction using various web 2.0 tools and technologies.
- Understand the social, economic, security and ethical issues associated with the use of ICT.

Paper: ENG 101- Introduction to English Literature

Course Outcomes: The students will be able to:

- Have an understanding of historical development of English literature
- Make themselves aware of various literary genres and figures of speech
- Make themselves familiar with various schools of thought and literary movements

Paper: HIN 101: Hindi

Course Outcomes- Students will be able to-

- Vidhyarthi Bhasha Ke Madhyam Se Apne Samparekshan Kaushal Ka Vikas KarSakenge.
- Vidhyarthi Bhasha Paryog Ke Gyan Mein Vridhi Kar sakenge .
- Vidhyarthi Vibhin Bhashai Kaushal Ka Vikas Kar Sakenge.
- Vidhyarthi Bhasha Se Sambandhit Vibhin Kaushalo Ka Vikas Kar Sakenge.
- Vidhyarthi Bhasha Ki Parkriti Sanrachna Evam Bhumika Se Avgat Ho Sakenge.
- Vidhyarthiyo Mei Samparekshan Dakshtao Ka Vikas Ho Sakenga.
- Vidhyarthiyo Mei Suchna Evam Sanchar Taqniki Ke Gyan Ka Vikas Ho Sakenga.

GEO 101: Principles of Geography

Course Outcomes: Students will be able -

- To explain the distinct characteristics of geography as a discipline.
- To explain the earth as a physical entity as well as a home of human beings.
- To understand the earth as constituted by diverse regions.

Paper: HIS 101- Evolution of Indian Culture and Thought

Course Outcomes-The students will be able to:

- Know about the glorious past of our country
- Know about the thoughts embedded in *bharteeya* culture and civilization
- Appreciate the art and aesthetics of indian culture

Paper: POL 101: FOUNDATIONS OF POLITICAL THEORY

Course Outcomes: On completion of the course the students – teacher will be able to:

- Understand the nature and scope of Political Theory.
- Distinguish between the traditional and modern perspectives of Political Theory.
- To understand some basic concepts of Political Theory.
- Analyse state, its Component, Various theories of its origin and their bearing upon the nature of State
- Understand and analyses various systems of governance.
- acquaint themselves with various aspects and agents involved in the political process.

Paper: ECO 101: Micro Economics

Course Outcomes-The students will be able to:

- Define and understand the various terms & basic concept of Economics.
- Describe meaning, nature and scope of Economics.
- Explain the theoretical and practical advantage of the study of Economics.
- Take into account different theories of Economics – like consumer behaviour, production, cost, market structure, etc.
- Analyze determination of equilibrium price and quantity of a commodity in individual firm and Industry under perfect competition, monopoly, monopolistic competition and oligopoly.
- To explain the behaviour of the economic agents in terms of factor pricing like rent, wage, interest and profit in distribution.

Paper: PROFESSIONAL EDUCATION COURSES (PEC)I: Perspectives in Education (PE) PEBE 101: BASICS IN EDUCATION

Course Outcomes- On the completion of course, the student teacher will be able to:

- Understand and analyze educational concepts, their premises and contexts that are unique to education.
- Understand the nature and purpose of education with reference to school knowledge.
- Learn to avail opportunity for interactive and reflective modes of learning.
- Understand the concepts of teacher and learner's autonomy.
- Become aware of importance to values and value formation process in education.

**Paper: SKILL ENHANCEMENT COURSES (SEC) WEAP 101: WORK
EDUCATION (AGRICULTURE PRACTICE)-I**

Course Outcomes-: On completion of the course, the student teacher will be able to-

- Identify seeds of common crops and vegetables.
- Recognise manures and fertilizers used commonly.
- Understand characteristics of seeds and seedling.
- Identify different summer and winter flowers.
- Acquire skills to horticulture practices.
- Inculcate healthy values related to work culture.

**Paper: SKILL ENHANCEMENT COURSES (SEC)
WEEE 101: WORK EDUCATION (ELECTRICITY & ELECTRONICS)-I**

Course Outcomes-: On completion of the course, the students will be able to-

- Recognize and use different tools/materials/instruments.
- Read the sketch/drawing of the job/project.
- Develop the skills for making simple projects/models.
- Acquire skill to assemble/prepare simple electric circuits.
- Acquire skill to use electronic components.
- Identify faults in electronic components.
- Develop the ability in repairing simple instruments used at secondary level.
- Inculcate healthy values related to work culture

**Paper: Core Course (CC) 1(I): PHYSICS: RELATIVITY, MECHANICS,
OSCILLATIONS AND ACOUSTICS**

Course Outcomes-: The student teacher will be able to:

- Acquaint with the key concepts of special theory of relativity, mechanics, oscillations and acoustics.
- Appreciate the applications of the concepts in real life situations.
- Solve the problems based on special theory of relativity, mechanics, oscillations and acoustics.
- Apply the theory in execution of practical.

Paper: Core Course2(I): CHEMISTRY: INORGANIC CHEMISTRY

Course Outcomes:

- To provide a broad foundation in chemistry that stresses scientific reasoning and analytical problem solving with a molecular perspective.
- To acquire basic knowledge to students teachers about atomic structure, periodic properties, Chemical Bonding and Ionic solids, Understanding the chemistry of s-and p-block elements, the fundamentals of the chemistry of the main group elements, and important real world applications of many of these species and Acids and Bases and solvent system.
- Students will be able to describe the fundamentals of acid/base chemistry, including pH calculations, buffer behaviours

Paper: Core Course3(I): ZOOLOGY: NON-CHORDATA

Course Outcomes-

- To enable students to understand invertebrates, the organizational hierarchies and complexities.
- The evolutionary trends in external morphology and internal structure.
- Identification and classification with examples
- To enable them to understand various modes of adaptations in animals

Paper: Core Course1(I): BOTANY: DIVERSITY OF MICROBES AND LOWER PLANTS

Course Outcomes- After completion of this course the student teachers will be able to:

- Understanding diversity that exists in microorganisms.
- Understand the morphology, organization, structure, and reproduction in microbes.
- Appreciate the role and significance of microbes in human welfare and environment.
- Study the symptoms of selected diseases caused by microbes

Paper: Core Course 3(I): MATHEMATICS: CALCULUS

Course Outcomes- At the end of course, learner will be able to:

- Apply concepts of differentiation in single variable and several variables.
- Apply concept of definite integral in finding area between curves, length of curve, surface area, volume of solid of revolutions including applications of double and triple integral.
- Apply concepts of Vector calculus i.e; Vector functions, Vector fields, directional derivatives, gradient, divergence and curl of Vector, line integrals and surface integrals.

- **Course Outcomes -B.A. B.Ed B.Sc B.Ed Semester II**

- **Paper: ABILITY ENHANCEMENT COMPULSORY COURSES (AECC)
AEC1(II): LANGUAGE SKILLS (HINDI)**

- **Course Outcomes-**

- To enable the students to acquire basic skills in functional language.
- To develop independent reading skills and reading for appreciating literary works.
- To internalise grammar rules so as to facilitate fluency in speech and writing .
- To develop functional and creative skills in language.
- To develop values of liberalism and an insight into the cultural heritage of the region which remains embodied in the literary output of the region

- **Paper: ABILITY ENHANCEMENT COMPULSORY COURSES (AECC) AEC1(II):
LANGUAGE SKILLS (ENGLISH)-II**

- **Course Outcomes:** Students develop proficiency in English which equips them to:
- understand the demands of audience, subject, situation and purpose and the use of language for effective communication.
- analyse language in context to gain an understanding of grammar, vocabulary, spelling, punctuation and speech.
- examine authentic literary and non-literary texts and develop insight and appreciation.
- gain an understanding of study and reference skills.
- plan, draft, edit and present a piece of writing.

Paper: ABILITY ENHANCEMENT COMPULSORY COURSES (AECC)
AEC2(II): INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) IN
EDUCATION-II

- **Course Outcomes-** On completion of the course the students will be able to:
- Explain the process and stages of instructional design.
- Design and develop technology integrated learning experiences using ICT tools.
- Explain the different pedagogical approaches of ICT integration in education.
- Develop skills in using various e-learning tools and technologies.
- Plan, develop, and use multimedia based learning content using open source authoring software.
- Create and use Open Educational Resources under different CC licenses.
- Use various online and offline ICT tools for assessment.
- Appreciate the scope of ICT for improving the personal productivity and professional competencies.
- Explain the emerging trends in information and communication technology

- **Paper: ENG 102: English Poetry**

- **Course Outcomes:** The students will be able to:
- Acquaint with certain specimens of poems of representative poets from different literary periods.
- Develop their analytical and imaginative powers through reading poetry.
- Derive pleasure out of their reading of poetry.

Paper: HIN 102: Hindi

- **Course Outcomes-**
- Vidhyarthi Madhyakal Ki Parmukh Kavya Dharao Ke Sath Ush Kal Ke Rachnakaro Ki Parmukh Saliyo Ko Samajh Sakenge.
- Vidhyarthi Bhaktikalin Sahitya Ke Gyan Se Avgat Ho Sakenge.
- Vidhyarthi Brij-Bhasa, Avdhi-Bhasa Ke Antar Ko Samajh Sakenge.
- Vidhyarthi Kavya Shaster Ka Gyan Prapat Kar Sakenge.

Paper: GEO-102: Geomorphology

Course Outcomes- Student- teacher will able :

- To understand the physical evolution of the planet earth through geological times
- To appraise concepts and theories essential for understanding forms and processes of the earth
- To understand the physical features and processes shaping the characteristics of the earth

Paper: HIS 102 : Modern World History (Renaissance to 1945 A.D.)

Course Outcomes- The students will be able to:

- It is intended to let the students have a panoramic view of modern history of the world since Renaissance and Reformation.
- This will complete the study of the Modern world history.
- The candidate will have a bird's eye view of the whole history of the Modern world.
- This will prepare him for an interplay between the micro and macro.

Paper: POL 102: REPRESENTATIVE INDIAN POLITICAL THINKERS

Course Outcomes- On completion of the course the students – Teacher will be able to:

- To understand the fundamentals of Indian view regarding state, society and man and also the ancient Indian view point regarding human virtues, individuals place in social order.
- To understand and appreciate major streams of social and religious reforms in India in the 19th century and also the interaction between religion and political awakening.
- To understand and appreciate different streams of nationalism in Indian political thinking.
- To understand the various aspects of Political thoughts of modern era and analyse political and social philosophy of Indian thinkers with special reference to social justice and socialism

Paper: ECO 102: INDIAN ECONOMY

Course Outcomes- The students will be able to:

- Explain the various issues, problems and policies of Indian Economy
- Detail account of the development of Indian economy before, at the time and after

Independence.

- Describe sectoral development and different components of Indian Economy.
- Understand the problems of population growth, unemployment, Inflation and measures to check Inflation.
- Critically explain the current economic problems and new economic reforms in India

Paper: Perspectives in Education (PE) PECG 102: CHILDHOOD AND GROWING UP

Course Outcomes- On the completion of course, the student teacher will be able to:

- Situate individual development in a socio-cultural context.
- Develop an understanding about the impact/influence of socio-cultural context in shaping human development, especially with respect to the Indian context.
- Acquire theoretical perspectives and develop an understanding of dimensions and stages of human development and developmental tasks.
- Understand a range of cognitive skills and affective processes in human learners.
- Become aware of different contexts of learning and situate schools as a special environment for learning.
- Reflect on their own implicit understanding of the nature and kinds of learning.
- Gain an understanding of different theoretical perspectives on learning with a focus on cognitive views of learning as well as social– constructivist theories.
- Explore the possibilities of an understanding of processes in human cognition and meaning– making them as basis for designing learning environments and experiences at school.
- Appreciate the critical role of learner’s based on differences and contexts in making meanings, and hence draw out implications for schools and teachers

Paper: SKILL ENHANCEMENT COURSES (SEC) WEAP 102: WORK EDUCATION (AGRICULTURE PRACTICE)-II

Course Outcomes- On completion of the course, the student teacher will be able to-

- Identify seeds of common crops and vegetables.
- Recognise manures and fertilizers used commonly.
- Understand characteristics of seeds and seedling.
- Identify different summer and winter flowers.
- Acquire skills to horticulture practices.

- Inculcate healthy values related to work culture

Paper: SKILL ENHANCEMENT COURSES (SEC) WEEE 102: WORK EDUCATION (ELECTRICITY & ELECTRONICS)-II

Course Outcomes- On completion of the course, the student teacher will be able to-

- Recognize and use different tools/materials/instruments.
- Read the sketch/drawing of the job/project.
- Develop the skills for making simple projects/models.
- Acquire skill to assemble/prepare simple electric circuits.
- Acquire skill to use electronic components.
- Identify faults in electronic components.
- Develop the ability in repairing simple instruments used at secondary level.
- Inculcate healthy values related to work culture.

Paper: Core Course1(II): PHYSICS: MATHEMATICAL BACKGROUND, PROPERTIES OF MATTER AND ELECTROMAGNETIC WAVES

Course Outcomes- The students will be able to:

- Acquaint with the key concepts of mathematical background, properties of matter and electromagnetic waves.
- Apply the concepts in various real life situations.
- Solve the problems based on mathematical background, properties of matter and electromagnetic waves.
- Apply the theory in execution of practicals.

Paper : Core Course2(II): CHEMISTRY: PHYSICAL CHEMISTRY

Course Outcomes-

- To acquire basic knowledge to students teachers about Mathematical concepts and learn the basic concepts of nuclear radioactivity and Nuclear reactions.
- To enhance the understanding of students in concepts related to Liquid, Colloidal states & Structure of Ionic solids, Behaviour of Gases, concepts in thermodynamics, different

thermodynamic quantities such as heat and work and how are they measured, related or transformed from one to the other.

Paper : Core Course3(II): ZOOLOGY: CHORDATA

Course Outcomes - To enable students to understand in respect of vertebrates –

- Their organizational hierarchies and complexities
- The evolutionary trends in external morphology
- Comparative studies of internal structure
- Identification and classification with examples
- To enable them to understand various modes of adaptations in animals.

Paper: Core Course1(II): BOTANY: DIVERSITY OF CRYPTOGRAMS

Course Outcomes- After completion of this course the student teachers will be able to:

- Understand the structure, classification and life history of Bryophyta and Pteridophyta.
- Understand the Geological time scale and the importance of fossils.
- Understand the evolutionary trends among Pteridophytes.

Paper: Core Course 3(II): MATHEMATICS: DIFFERENTIAL EQUATIONS

Course Outcomes: At the end of the course students will be able to understand the principles and techniques of Differential Equations in problem solving.

Course Outcomes -B.A. B.Ed B.Sc B.Ed Semester III

GENERIC COURSE (GC)

Paper-GCEE 201:ENVIRONMENTAL EDUCATION & SUSTAINABLE DEVELOPMENT

Course Outcomes- The Course ‘Environmental Education’ aims to orient student-teachers to analyze and understand environment concerns through the process of inquiry, critical analysis, intellectual discourse and essential projects.

Paper: ENG 201 English Drama

Course Outcomes- : The students will be able to:

- Acquaint with certain specimens of English drama and their types from different ages.
- Develop their analytical and imaginative powers through readings in drama and their skills in dialogue development through their readings in drama.

Paper: HIN 201 HINDI

Course Outcomes-

- Vidhyarthi Sarjnatmak Lekhan Se Parichit Ho Sakenge.
- Vidhyarthi Sahitya Ki Vibhin Vidhao Se Parichit Ho Sakenge.
- Vidhyarthi Anuvad Ki Vibhin Saliyo Se Parchit Ho Sakenge.
- Vidhyarthi Auvad Ki Parkriya Ko Samajh Sakenge.
- Vidhyarthi Anuvad Ki Aavasyakta Evam Mahtav Ka Gyan Prapt Kar Sakenge

Paper :CCG-201: Economic Geography

Course Outcomes- Student will be able -

- To explain the meaning and concepts of economic geography
- To understand the economic organization of space
- To explain the spatial organization of the economic activities

Paper: HIS 201 Indian History (Earliest Times to 1200 A.D.)

Course Outcomes- : The students will be able to:

- To provide the knowledge of the sources of the period.
- The students shall be able to know the legacies of the early history of India.
- The study of this Semester shall provide the know how the origin of republics and the system of republican administration.
- To give the knowledge of the rich administrative traditions of ancient India
- The students' shall come in touch with the pride of ancient Indian society and polity.
- This Semester shall provide the knowledge of the spread of Indian culture in the other countries.
- The student will be informed about the South Indian History

Paper: POL 201: COMPARATIVE GOVERNMENT AND POLITICS

Course Outcomes- On completion of the course the students – Teacher will be able to:

- Acquire knowledge about the constitutional systems of UK, USA, and Switzerland.
- Understand the composition, functions and position of legislature's executives and judiceries in different countries.
- Understand the different patterns of relationship among the Executive, Legislature and Judiciary prevailing in different kinds of political systems.
- Acquaint themselves with various aspects and agencies of political process in different systems.

Paper: ECO 201: MACRO ECONOMICS

Course Outcomes- : The students will be able to:

- Define Macroeconomics and understand the emergence of Macroeconomics.
- Distinguished between the microeconomics and macroeconomics.
- Explain the nature and scope of macroeconomics analysis.
- Explain the role of equilibrium in economics analysis.
- Discuss the concept of static, dynamic and comparative static; stock & flow in economic analysis.
- Describe the structure and working of four sectors of macro economy.
- Explain the circular flow of income and expenditure in closed and open economy.
- Explain the equilibrium level of output and employment in the economy.
- Discuss the concept of multiplier and accelerator in the economy.
- Explain the various theory of interest- classical, loanable, liquidity and IS & LM model.
- Explain the nature of fluctuation of economic activities or business activities in the economy

Paper: PROFESSIONAL EDUCATION COURSES (PEC) I: Perspectives in Education (PE)

PESS 201: SCHOOLING, SOCIALIZATION AND IDENTITY

Course Outcomes- : On completion of course, the student-teachers will be able to:

- Become aware of the processes of socialization at home and school that act as shaping factors in identity formation of the school going child (in Indian contexts)
- Reflect critically on factors that shape identity formation and influence sense of self of the growing 'student' as well as 'teacher' in school as well as out of school.
- Understand the processes that have shaped/continue to shape one's own sense of identity as 'student' and a 'person' located in multiple social contexts and roles
- Reflect on one's aspirations and possibilities in order to develop a growing sense of agency as a 'teacher', a 'professional', as well as a 'human being'

Paper: PROFESSIONAL EDUCATION COURSES (PEC) II: Enhancing Professional Capacities (EPC)

EPYH 201: YOGA, HEALTH AND WELL BEING

Course Outcomes- On completion of the course, the student teacher will be able to:

- Understand the importance of games, sports and yoga for development of holistic health.
- Know the status, identify health problems and be informed of remedial measures.
- Know about safety and first aid.
- Acquire the skills for physical fitness.
- Practice yoga asanas, meditation and relaxation.
- Understand various policies and programmes related to health, physical education and yoga

Paper- PROFESSIONAL EDUCATION COURSES (PEC) Engagement with the field (EF)

EFWC 201: WORKING WITH COMMUNITY

Course Outcomes: On completion of the course, the student teacher will be able to:

- Acquaint themselves with the factors working in the society/community i.e. knowledge of social realities.

- Develop the dignity of labour among them.
- Arouse their interest in the social and economic reconstruction of the country.
- Make themselves aware of the educational problems and needs of this society.
- Enable themselves for preparing youth for sustainable development.
- Develop their personality through community service

Paper: CHOICE BASED COURSES (CBC)

CBCED-I-201: EDUCATION: GUIDANCE & COUNSELLING IN SCHOOL

Course Outcomes- After completion of the course, student-teachers will be able to:

- Develop an understanding of the concepts of guidance and counselling.
- Develop an understanding of educational, vocational and personal guidance.
- Acquaint the students with the testing devices and techniques of guidance.
- Develop an understanding of collection and dissemination of occupational guidance.
- Sensitize student-teachers to the problems faced by students in the contemporary world.
- Create an awareness of the working of guidance centers.
- Provide guidance & counseling for school level students

Paper: CORE COURSE (CC) PHY 201: PHYSICS: ELECTRODYNAMICS

Course Outcomes- The student teacher will be able to:

- Know the fundamental concepts of electricity and magnetism.
- Appreciate the link between electricity and magnetism.
- Apply the concepts in understanding the various physical phenomena.
- Solve the problems related to electrodynamics.
- Apply the theory in related practicals

Paper: CHM 201: CHEMISTRY: ORGANIC CHEMISTRY

Course Outcomes- Students will be able-

- To acquire basic knowledge to students teachers about the concept of hybridization and geometry of atoms and the three-dimensional structure of organic molecules,

Stereochemistry and Reaction Mechanism, General aspects of Organic Reactions; an understanding of nucleophiles, electrophiles, electronegativity and resonance.

- To acquire basic knowledge to students teachers about understanding of Cyclo alkanes, Cyclo Alkenes and Alkadienes, how to use their understanding of organic mechanisms to predict the outcome of reactions, the fundamentals of electronic structure and bonding in aromatic systems, reactivity patterns of aromatic molecules, chemical properties of Alkyl and Aryl Halides and general periodicity patterns of (organic/inorganic) molecules and the ability to design synthetic approaches to such species

Paper: ZOO 201: ZOOLOGY: ANIMAL CELL BIOLOGY AND GENETICS

Course Outcomes-

To enable students to comprehend the modern concepts and applied aspects of Cell Biology and modern concepts of Genetics and to create awareness regarding inheritance.

Paper: BOT 201: BOTANY: GYMNOSPERMS AND REPRODUCTIVE BIOLOGY IN FLOWERING PLANTS

Course Outcomes- After completion of this course the student teachers will be able to:

- Understand the morphology, anatomy, reproduction and classification of Gymnosperms;
- Understand the structure, development and processes associated with Angiosperm embryology
- Understand and able to analyse the process of different techniques of tissue culture
- Understand different types of fruits.

Paper: MTH 201: MATHEMATICS: LINEAR ALGEBRA

Course Outcomes- : At the end of the course students will be able to:

- Understand concepts, principles and techniques of matrix and determinants in problem solving.
- Understand the concept of Vector space, Isomorphism of Vector spaces, quotient spaces and Euclidean Vector spaces and apply these in problem solving.
- Understand 3-Dimensional shapes viz. Sphere, Cone, Cylinder, Ellipsoid, Hyperboloid, its equations and applications in problem solving.

Course Outcomes- B.A B.Ed B.Sc B.Ed IV Semester

Paper: Group B: Generic Course

(GC) GCIR 202: Indian Constitution and Human Rights

Course Outcomes: On completion of this course, the student teacher will be able to

- Know the importance, preamble and salient features of Indian Constitution
- Appreciate the significance of Fundamental Rights, Duties and Directive Principles of State Policy.
- Develop an understanding of the strength of the Union Government.
- Understand the functioning of the State Government for the unity and the strength of the Democracy.
- Know the importance of local self-Government and Panchayati Raj Institutions in India.
- Know the meaning, significance, the growing advocacy of Human Rights

Paper: ENG 202 :English Prose and Fiction

Course Outcomes- : The students will be able to:

- Develop their comprehension skills through reading various types of prose.
- Develop their reading habits and literary taste through some long specimens of prose

Paper:HIN 202: HINDI NIBANDH NATAK

Course Outcomes-

- Vidhyarthi Nibandho Ke Vivid Parkaro Tatha Unki Vishestao Ko Samajh Sakenge Aur Unki Sahityik Samiksha Kar sakenge.
- Vidhyarthi Natak Aur Ekanki Ke Tatvo Se Parichai Prapt Kar Un Tatvo Ke Aadhar Par Natak Aur Ekanki Ki Samiksha Kar Sakenge.
- Vidhyarthi Natak Aur Ekanki Mei Antar Kar Sakenge.
- Vidhyarthi Dalit sahitya Evam Ishtri Vimarsh ki Avdharna se Parichit ho sakenge.

Paper: GEO-202: Climatology and Hydrology

Course Outcomes: Student will be able to-

- Understand the concept of climate and season
- Understand how climate affect soil distribution
- Able to connect the concept of water and vegetation

Paper: HIS 202 History of Medieval India (1200 A.D. to 1707 A.D.)

Course Outcomes- : The students will be able to:

- To enlighten the students about the rich literary and archaeological heritage twelfth century onwards.
- To provide the knowledge about the Rajputs of north India and their achievements.
- This Semester will highlight the South Indian history and its contact with rest of India.
- To give the knowledge of Turkish conquests and Khilji administrative and economic reforms.
- The Semester will show how the Tughlaq rulers contributed to the state and society in India.
- This Semester will highlight the rise of regional powers in India in the 16th century.

Paper: POL 202: INDIAN POLITICALSYSTEM

Course Outcomes- On completion of the course the students – Teacher will be able to:

- Acquire knowledge about the historical background of constitutional development in India.
- Understand the contribution of different streams of national movement in India.
- Acquaint themselves with salient features of the Indian Constitution.
- Appreciate philosophical postulates of the constitution on the basis of Preamble, Fundamental Rights and Duties and Directive Principles of state policy.
- Understand the composition, functioning, role and position of Parliament in India.
- Understand the pattern of relationship between the Executive and Legislature in India and also the composition, functions and role of the Executive.
- Acquaint themselves with the judicial system of the country and also the nature

of the judicial review and its recent trends such as judicial activism.

- Acquire knowledge regarding the federal system of the country and governance at the state level.

Paper: ECO 202 :STATISTICAL METHODS

Course Outcomes- : The students will be able to:

- To understand importance and limitation of statistical methods in Economic Analysis.
- To understand sources of data and technique of data collection, classification, organization, tabulation, presentation and interpretation.
- To analyse data by using various statistical methods like measure of central tendencies, dispersion, correlation, regression, index number, probability, theoretical distribution.
- To analyse the time series data and cross

Paper: Group E: Professional Education Courses (PEC) I: Perspectives in Education (PE) PEIS 202: Inclusive Schooling

Course Outcomes- : On completion of the course, the Candidate will be able to:

- Demonstrate knowledge on different perspectives in the area of education of children with disabilities;
- Reformulate attitudes towards children with special needs;
- Identify needs of children with diversities;
- Plan need-based programmes for all children with varied abilities in the classroom;
- Use human and material resources in the classroom;
- Use specific strategies involving skills in teaching special needs children in inclusive school;
- Plan and execute appropriate learner-friendly evaluation procedures;
- Incorporate innovative practices to respond to education of children with special needs;
- Contribute to the formulation of policy; and
- Implement laws pertaining to education of children with special needs.

Paper- GROUP E: PROFESSIONAL EDUCATION COURSES (PEC) I: Perspectives in Education (PE) PELT 202: Learning and Teaching

Course Outcomes- : The Candidate will be able:

- To develop scientific attitude for the process of teaching & learning.
- To develop understanding about the relationship of cognitive, social and emotional development with learning process
- To provide an overall view on teaching & learning style and ideas to enhance these activities
- To introduce student – teachers with teaching skill, component and parameters of effective teaching
- To develop insight for perfect teaching by its overall perspectives in detail

Paper- PROFESSIONAL EDUCATION COURSES (PEC)III: Curriculum and Pedagogic Studies (CPS) CPSKC 202: Knowledge and Curriculum

Course Outcomes- On the completion of course, the Candidate will be able to:

- Gain insight into the various forms of knowledge and disciplines and their implications to school subjects.
- Develop an understanding about how knowledge is organized into curriculum.
- Develop an understanding of the concept of curriculum, curriculum framework and the related concepts.
- Develop an understanding of the various foundations of curriculum planning.
- Acquaint the student with the existing approaches to curriculum design.
- Reflect on various trends in curriculum development

Paper: CORE COURSE (CC) 1(IV) PHY 202: PHYSICS: OPTICS AND LASER

Course Outcomes: The student teacher will be able to:

- Know the fundamental concepts of Optics and Laser.
- Understand the design and working of Laser.
- Apply the concepts in understanding the various optical phenomena.
- Solve the problems related to optics.
- Analyze the optical phenomena in experiments of optics

Paper: CORE COURSE (CC) 2 (IV)CHM 202: CHEMISTRY: INORGANIC CHEMISTRY

Course Outcomes- : Student will be able to-

- To gain an understanding of the chemistry of transition and inner transition metals, coordination compounds, organometallic compounds, metal carbonyls of Transition Elements,
- Coordination chemistry and magnetic behaviour of complexes,
- Chemistry of Lanthanide and Actinides,
- Concepts of Oxidation and Reduction
- Principles involved in the extraction of the elements

Paper: CORE COURSE (CC) 3(IV) ZOO 202: ZOOLOGY: ANIMAL PHYSIOLOGY AND ENDOCRINOLOGY

Course Outcomes : Students will be able to-

- To enable students to comprehend the modern concepts of physiological aspects on various organs and systems of animals and human being to comprehend chemical nature,
- Biological molecules and physiological roles.

Paper: CORE COURSE (CC) 1(IV) BOT 202: BOTANY: PLANT TAXONOMY AND UTILIZATION OF PLANTS

Course Outcomes: After completion of this course the student teachers will be able to:

- Understand the principles of plant nomenclature;
- Understand the evolution of taxonomic thought and the various systems of classification;
- Understand the diversity that exists among angiosperms;
- Make detailed study of selected families;
- Understand the utility of plants and plant products in human welfare

Paper : GROUP C: CORE COURSE (CC) 3(IV) MTH 202: MATHEMATICS: ABSTRACT ALGEBRA

Course Outcomes-

By the end of the semester the students will be able to develop understanding of the abstract concepts of groups, rings, special classes of rings which in turn make them appreciate modern mathematical concepts.

Course Outcomes- B.A B.Ed & B.Sc B.Ed V Semester

Paper: ENG 301 General Linguistics and Structure of Modern English

Course Outcomes- The students will be able to:

- To enable students to know about the nature of language
- To enable students to understand the relationship between language, culture and thought
- To make them understand general linguistics and branches of linguistics
- To familiarize students with the distinctive features of phonology and morphology
- To enable students to understand the relationship between language, structure and meaning

Paper: Hindi 301 :Aadhunik Kavya

Course Outcomes-

- Vidhyarthi Aadhunik Kavita Ki Parmukh Kavya-dharao Se Parichit Ho Sakenge.
- Vidhyarthi Aadhunik Kavya-dharao Mei Aai Parivartan Ko Samajh Sakenge.
- Vidhyarthiyo Mei Desh Prem Ki Bhawna Ka Vikas Ho Sakenga.
- Vidhyarthi Aadhunik Kal Ke Kaviyo Ki Jankari Prapt Kar Sakenge

Paper: GEO 301: Biogeography and Pedology

Course Outcomes- Student will be able to-

- To understand the earth as habitat of diverse plants and animal life.
- To understand the earth as a bio-physical entity
- To understand the earth as constituted by diverse biotic processes

Paper: HIS 301 History of Morden India (1707-1947 A.D)

Course Outcomes- : The students will be able to

- The period under review marks a very crucial phase in the study of Indian History and attempts to answer questions which hither to have defined answer.
- This semester is give to knowledge of Early Peshwas and establishment of British rule from Bengal Onwards

- The students fully understand the Indian resentment against the British and awaking in India in various Fields

Paper: POL 301: REPRESENTATIVE WESTERN POLITICAL THINKERS

Course Outcomes- : On completion of the course the students – Teacher will be able to:

- Understand the fundamental contours of classical western political thoughts.
- Understand the basic features of medieval political thought, impact of reminiscence shift from medieval to modern era.
- Understand the social contract theory and appreciate its implications on the perception of state in terms of its purpose and role.
- Understand the fundamental terms of different schools of liberal and realistic streams of western political thoughts.

Paper: ECO 301: MONEY, BANKING & INTERNATIONAL TRADE

Course Outcomes- : The students will be able to:

- Define the different concepts of money and banking and international trade.
- Describe the operation of money and banking and trade system in an economy
- Take in to account the optimal information of monetary theories and banking system and trade system.
- Make use of the theories of money, banking and international trade and its policies in India.
- Use the statistics to understand the economic problem related to the money, banking and international trade

Paper: CPSE 301: Pedagogy of English I

Objectives: The students will be able to:

- Understand the nature and function of language
- Understand various issues related to language
- Develop an understanding of approaches, methods and techniques of English language teaching

Paper: CPSH 301: Pedagogy of Hindi

- Vidhyarthiyo Ka Bhasa Ki Alag-Alag Bhumikao Ko Janna.

- Vidhyarthiyo Ka Bhasa Ke Sawroop Aur Vavastha Ko Samajhna.
- Vidhyarthiyo Ka Bhasa Ke Mulyankan Ki Parkirya Ko Janna.
- Vidhyarthiyo Ka Bhasai Barikiyo Ke Parti Samvedansil Hona.
- Vidhyarthiyo Ka Bhasa Sikhne Ke Tarike Aur Parkirya Ko Samajhna.

Paper: CPSSS 301: Pedagogy of Social Science I

Course Outcomes- : After the completion of the course students will be able to:

- Develop an understanding of the nature and scope of social science and its relationship with natural and other sciences.
- Acquaint Candidate s with nature of different disciplines within and their interrelationship concerns with society.
- Acquaint Candidate s with different approaches to pedagogy of social sciences.
- Plan lessons based on different approaches to facilitate learning of social sciences.
- Realize their role as facilitator in enhancing social sciences learning in the real classroom situation.
- Understand assessment processes in social sciences

Paper: Professional Education Courses (PEC) Curriculum and Pedagogic Studies (CPS) CPSLA 301: Learning Assessment

Course Outcomes- : On completion of the course, the Candidate will be able to:

- Gain a critical understanding of issues in assessment and evaluation
- Become cognizant of key concepts such as test, measurement, examination, formative and summative assessment, and evaluation
- Understand different kinds and forms of assessment that aid student learning
- Use a wide range of assessment tools, learn to select and construct them appropriately
- Evolve realistic, comprehensive and dynamic assessment procedures that are able to keep the whole student in view
- Understand the use of action research in solving problems

Paper: Core Course (CC) 1 (V) PHY 301: PHYSICS: KINETIC THEORY AND THERMODYNAMICS

Course Outcomes-: The student teacher will be able to:

- Comprehend the key points of thermodynamics.
- Apply the concepts in understanding the various transport phenomena.
- Solve the problems related to the thermodynamics.
- Understand and appreciate the application of thermodynamics in engines of motor vehicles.
- Perform the experiments related to thermodynamics

Paper: CORE COURSE (CC) 2 (V) CHM 301: CHEMISTRY: PHYSICAL CHEMISTRY

Course Outcomes- Students will be able -

- To learn the basic principles of phase equilibrium, Electrochemistry and phase equilibrium, chemical equilibrium and its relationship with thermodynamic quantities,
- basic concepts of electrochemistry and its applications,
- chemical bonding from the valence bond model and molecular orbital theory, the limitations of classical mechanics at molecular length scales, the differences between classical and quantum mechanics,
- the connection of quantum mechanical operators to observables, probabilities, amplitudes, averages, expectation values, and observables.
- The connection between common approximation methods and standard chemical frameworks (Born-Oppenheimer approximation, molecular orbitals).

Paper: CORE COURSE (CC) 3(V) ZOO 301: ZOOLOGY: DEVELOPMENTAL BIOLOGY

Course Outcomes-

- To enable students to comprehend the modern concepts of developmental biology
- To understand the developmental sequences in vertebrates;
- To compare the developmental of organs and systems

Paper: CORE COURSE (CC) 1 (V) BOT 301: BOTANY: CELL BIOLOGY AND GENETICS

Course Outcomes- After completion of this course the student teachers will be able to;

- Understand the structural complexity of eukaryotic cell.
- Understand the functioning of cell organelles.
- Understand the structure, significance of nucleus and chromosomes.
- Review Mendelian inheritance in the light of gene interactions and gene expression

Paper: CORE COURSE (CC) 3(V) MTH 301: MATHEMATICS: REAL ANALYSIS

Course Outcomes- :

- By the end of the semester the students will be able to develop understanding of Differentiability,
- Riemann integral and real sequences & series

Paper: PROFESSIONAL EDUCATION COURSES (PEC) Enhancing Professional Capacities (EPC)

EPCAA 301: ARTS AND AESTHETIC EDUCATION

Course Outcomes- : On completion of the course the student teacher will be able to:

- Express freely their ideas and emotions about different aspects of life through different art forms.
- Learn to appreciate different art forms and distinguish them.
- Develop an insight towards sensibility and aesthetic appreciation and become more creative and conscious about the good and beautiful in their environment, including classroom, school, home and community through an integrated learning approach.
- Integrate the knowledge of art with daily life through learning with different media and techniques by using creative expression and making objects of common use.
- Make learners conscious of rich cultural heritage of their own region as well as that of the nation.
- Get acquainted with the life and work of artists

Paper: PROFESSIONAL EDUCATION COURSES (PEC) Curriculum and Pedagogic Studies (CPS)

CPSPS 301: PEDAGOGY OF PHYSICAL SCIENCE

Course Outcomes- On completion of the course, the student teacher will be able to:

- Gain insight about the nature of science and its curriculum.
- Comprehend the approaches and strategies of learning science at secondary level.
- Apply pedagogic aspects in teaching-learning of science effectively by adopting appropriate teaching strategy.
- Discuss a topic in science; construct test items to measure objectives belonging to various cognitive levels.
- Use teaching aids effectively in teaching science.
- Gain the knowledge and comprehend the principles of curriculum and analyse the organization of science content at secondary level.
- Select and use the relevant methods, strategies and approaches in science class and laboratory.
- Develop skills in organizing, using and maintaining the available resources in teaching science.
- Transfer the fundamental experimental skills to the pupils and organize different activities related with science processes/skills to the pupils

Paper: PROFESSIONAL EDUCATION COURSES (PEC) Curriculum and Pedagogic Studies (CPS)

CPSPM 301: PEDAGOGY OF MATHEMATICS I

- **Course Outcomes- :** On completion of the course, the student teachers will be able to:
- Acquire a clear perspective of the nature of mathematics
- Gain insight on the meaning, nature, scope and objective of mathematics education
- Appreciate the changes in curriculum and evolve new approaches to teaching
- Understand the principles, processes relationships and to design appropriate strategies for teaching.
- Design appropriate activities for developing a concept.
- Design mathematics laboratory.
- Develop competencies in designing appropriate diagnostic and remedial tests.
- Construct appropriate assessment tools for evaluating mathematics learning.
- Appreciate the importance of mathematics lab in learning mathematics.

- Develop the competencies in preparation of appropriate teacher aids unit plan lesson plan and test items.
- Construct appropriate assessment tools for evaluating mathematics learning.
- Understand and develop Technology Integrated Mathematics Module (TIMM) using on different subject specific open source software on various concepts of Geometry at secondary stage and
- Understand and develop dynamical digital applets with emphasis on process involved in teaching and learning of mathematics at secondary stage

Paper: PROFESSIONAL EDUCATION COURSES (PEC) Curriculum and Pedagogic Studies (CPS)

CPSPBS 302: PEDAGOGY OF BIOLOGICAL SCIENCE

Course Outcomes- : On completion of the course, the student teachers will be able to:

- Develop insight on the meaning, nature, and effective use of different activities/experiments/demonstrations/ laboratory experiences for determining aims and strategies of teaching-learning of biological science;
- Prepare and use of lesson plans and unit plans required for instructional purposes;
- Integration with other school subjects and to identify and relate everyday experiences with learning of biological science;
- Explore the curricular processes and skills in science at secondary level and laboratory in teaching– learning;
- Formulate meaningful inquiry episodes, problem-solving situations, investigatory and discovery learning projects based on upper primary, stages during teaching-learning of biological science

Course Outcomes- B.A B.Ed B.Sc B.Ed VI Semester

Paper: Core Courses HIN 302: Kahaniya evam Upnyas

Course Outcomes-

- Vidhyarthi Kahani Aur Upnyas Ke Anter Ko Samajh Sakenge.
- Vidhyarthi Kahani Aur Upnyas Ki Samiksha Kar sakenge.
- *Vidhyarthi Kahani Aur Upnyas Ke Tatvo Ko Samajh Sakenge*

Paper: ENG 302 Indian Writing in English

Course Outcomes: The students will be able to:

- Develop their comprehension skills through reading various genres of literature in English from India.
- Develop their reading habits and literary taste by reading the authors from their own land

Paper: GEO 302: Geography of India

Course Outcomes: Student – teacher will able

- To explain the physical diversity of India
- To explain the socio-economic diversity of India
- To explain understand the geography of India as constituted by diverse regions

Paper: HIS 302 Indian Nationalism and Freedom Struggle

Course Outcomes- The students will be able to:

- The study materials of this Semester is much significance to learn the National consciousness among the people of twentieth century.
- The students will seek the knowledge of extremists and revolutionary Trends of Indian Freedom Struggle.
- The students will be aware of the devoted revolutionary Nationalist as Bhagat Singh, Rajguru and Chandrasekhar, Kalpana Datta

Paper: POL 302: INTERNATIONAL RELATIONS SINCE 1945

Course Outcomes- On completion of the course the students – Teacher will be able to:

- Acquaint themselves with various approaches to the study of international politics.
- Understand important concepts which provide the framework for understanding international politics.
- Understand and take stock of the events and trends in International politics after the World War II.

- Understand the quest of developing countries for their identity and self determination in the era of cold War.
- Understand and critically appreciate the salient features of foreign policies of some major powers.
- Understand and appreciate the determinants and features of India's foreign policy and India's relations with her neighboring countries.
- Understand and acquaint themselves with recent developments and emerging trends in International politics.
- Understand and critically evaluate the role and functioning and impact of various organizations for regional cooperation

Paper: ECO 302: PUBLIC FINANCE

Objectives: The students will be able to:

- Explain the nature and scope of public finance.
- Describe the concepts and principle of public finance, revenue, expenditure, debt and budget.
- Explain the financial administration in India.
- Use the statistics to understand the economic problem related to the public finance

Paper: Group E: Curriculum and Pedagogic Studies CPSH 302 : II- Pedagogy of Hindi

Paper: CPSE 302 Pedagogy of English II

Course Outcomes-The students will be able to:

- Acquire knowledge about teaching of English
- Understand of production of sound, accents, stress etc.
- Develop their skills of English language teaching
- Improvise and use appropriate aids for teaching English
- Use various techniques for the evaluation of learner's achievement in English

Paper: CPSSS 302 PEDAGOGY OF SOCIAL SCIENCE (CPS-2)

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

- Understand the Concept of Social science Curriculum as reflected in NCF-2005.

- Plan lessons based on different approaches to facilitate learning of social sciences.
- Develop learning materials on selected units to facilitate learning in social sciences.
- Develop professional outlook and humane approach among Candidates.

Paper: PROFESSIONAL EDUCATION COURSES (PEC) Engagement with the field (EF)

EFSE 302: SCHOOL EXPOSURE AND RELATED ACTIVITIES

Course Outcomes: On completion of the Course, the students will be able to:

- Understand about the activities to be carried out during school internship programme.
- Observe classroom teaching, various school activities and gain a feel of the multiple roles of a teacher.
- Develop skill in content analysis, preparing TLM and observing classroom processes.
- Plan and implement teaching learning activity for peers and actual classroom

Paper: PHY 302: PHYSICS SOLID STATE PHYSICS, SOLID STATE DEVICES AND ELECTRONICS

Course Outcomes- The student teacher will be able to:

- Understand the basic concepts of solid state physics and electronics.
- Understand the thermal, electrical and magnetic properties of solids.
- Apply the concepts in understanding the working of some electronics devices.
- Solve the problems related to solid state physics and electronics.
- Establish the link between theory and experiments

Paper: CHM 302: CHEMISTRY: ORGANIC CHEMISTRY

Course Outcomes-

- Students will gain an understanding of the fundamental electronic structure and bonding in carbonyl compounds, substituent effects on pK_a (in the case of carboxylic acids), the reactivity of carbonyl compounds with both hard and soft nucleophiles (carboxylic acids, aldehydes and ketones), the ability of synthetic organic chemistry to prepare specific molecular targets in a selective manner through a series of simple bond-forming processes.
- To know about important functional group transformations and bond-forming methods in organic synthesis

- To introduce students to the chemistry of carbonyl compounds including structure and reactivity, 1,2- and 1,4-addition and enols and enolates. Chemistry of Nitrogen Compounds, Synthetic transformation of aryl diazonium salts, azo coupling. Chemistry of Heterocyclic compounds.

Paper: ZOO 302: ZOOLOGY: ENVIRONMENTAL STUDIES, ETHOLOGY AND ECONOMIC ZOOLOGY

Course Outcomes-

- To enable students to understand the energy sources, flow of energy and conservation; to understand the recycling of minerals and nutrients in ecosystem;
- To understand the dynamics of population;
- To understand causes of pollution; to comprehend origin of life, animal behaviour
- Economic importance of animals with wild life protection

Paper: BOT 302: BOTANY: PLANT PHYSIOLOGY AND METABOLISM

Course Outcomes- After completion of this course the student teachers will be able to;

- Understand the sub-cellular physiological phenomena in plants;
- Understand the water relations in plants;
- Understand the functioning of plant from the physiological point of view;
- Understand about enzymes and their mechanism of action
- Understand various facets of growth, differentiation and physiology of flowering in angiosperms

Paper: MTH 302: MATHEMATICS: COMPLEX ANALYSIS

Course Outcomes-

To develop the understanding and application of concepts of complex variables in problem solving situations

Paper: PROFESSIONAL EDUCATION COURSES (PEC) Curriculum and Pedagogic Studies (CPS)

CPSPS 302: PHYSICAL SCIENCE: PEDAGOGY OF PHYSICAL SCIENCE

Course Outcomes: On completion of the course, the student teacher will be able to:

- Gain insight about the nature of science and its curriculum.
- Comprehend the approaches and strategies of learning physical science at secondary level.
- Apply pedagogic aspects in teaching-learning of physical science effectively by adopting appropriate teaching strategy.
- Discuss a topic in Science, construct test items to measure objectives belonging to various cognitive levels.
- Use teaching aids effectively in teaching science.
- Gain insight the salient features of curriculum, strategy and principles of curriculum and science curriculum for the secondary level.
- Comprehend the objectives of teaching science at secondary level.
- Apply the principles of learning processes in the teaching of science.
- Teach a topic in science effectively by adopting appropriate teaching strategy.
- Construct test items to measure objectives belonging to various cognitive levels.
- Use effectively the teaching aids in teaching science

Paper: PROFESSIONAL EDUCATION COURSES (PEC) Curriculum and Pedagogic Studies (CPS)

CPSPM 302: PEDAGOGY OF MATHEMATICS II

Course Outcomes: On completion of the course, the student teachers will be able to:

- Formulate instructional objectives for different topics of mathematics.
- Appreciate mathematics to strengthen the student's resource.
- Design the process of developing a concept.
- Appreciate the role of mathematics in day-to-day life.
- Channelize, explain, reconstruct and evaluate their thinking.
- Pose and solve meaningful problems.
- Appreciate the historical perspective and contribution of Indian mathematicians in development of the subject.
- Appreciate and explore Technology Integrated Mathematics Module (TIMM) based on different subject specific open source software on various concepts of Geometry at secondary stage; and
- Appreciate and develop dynamical digital applets with emphasis on process involved in teaching and learning of mathematics at secondary stage.

- Be conversant with the nature, values, structure and scope of Mathematics.
- Interpret the principles of child development for planning lessons;
- Understand the principles of learning

Paper: PROFESSIONAL EDUCATION COURSES (PEC) Curriculum and Pedagogic Studies (CPS)

CPSPBS 302: PEDAGOGY OF BIOLOGICAL SCIENCE

Course Outcomes: On completion of the course, the students will be able to:

- Identify and relate approaches of teaching-learning of biological science with social relevance;
- Explore the process skill in science and develop competency to organise laboratory facilities and equipment in teaching– learning of biological sciences;
- Use effectively different activities – ICT, excursion, visits, research methodology etc for teaching–learning of biological science;
- Examine different pedagogical issues in learning biological science;
- Construct appropriate assessment tools for evaluating learning of biological science;
- Develop ability to use biological science concepts for life skills; and
- Develop professional competencies for teaching, learning of biological science.
- Appreciate that science is a dynamic and expanding body of knowledge

Course Outcomes- B.A B.Ed B.Sc B.Ed VII Semester

Paper: Discipline Specific Elective (DSE)

HIN 401: Ashimitamulak Vimarsh aur Hindi Sahitaya

Course Outcomes-

- Vidhyarthi Ishtri Evam Dalit Vimarsh Se Parichit Ho sakege.
- Vidhyarthi Aadhyapan Aur Lekhan Karya Se Jud sakege.
- Vidhyarthiyo Mei Samyavadi Pargatisil Vicharo Ka Vikas Hoga.
- Jisse Prachin Rudhiya Smapat Ho Jaigi.
- Vidhyarthi Patr Patrikao Se Jud Sakege.

Paper: ENG 401 American Literature

Course Outcomes- The students will be able to:

- Acquainted with various literary figures in English from America
- Appreciate literary sensibilities from America
- Expose themselves to literature in English outside Britain

Paper: GEO 401: Population and Settlement Geography

Course Outcomes-Students will be able-

- To know about various sources of demographic data
- To explain concepts and theories related to population dynamics and settlement systems
- To understand earth as constituted by people with distinct demographic attributes who dwell in urban and rural settlements located in diverse geographical environments.

Paper: HIS 401 : Contemporary India up to 2000 A.D.

Course Outcomes: The students will be able to:

- This Semester is of most crucial information for the study of Indian History.

- We are closely to the present. The knowledge of history unfolds and leads us to the present.
- This semester will provide understanding how India developed today and competing with the Globalised world.

Paper: POL 401: POLITICAL IDEOLOGIES

Course Outcomes- On completion of the course the students – Teacher will be able to:

- Understand the meaning, evolution and nature of Political Ideology.
- Acquire knowledge about the various traits of Liberalism.
- Acquire knowledge about the Socialism
- To understand the relevance of Contemporary ideologies of 21st century.

Paper: ECO 401: Introductory Micro Economics

Course Outcomes- On completion of this course, the student shall be able to

- Critically reflect and analyse the issues related to Micro Economics
- Illustrate how microeconomic concepts can be applied to analyse real-life situations.

Group E: Professional Education Courses (PEC) Engagement with the field (EF)

EFSI 401: School Internship

Course Outcomes: On the completion of the course the Candidates will be able to:

- Observe the classes of regular teachers and peers and learn about teaching learning process and classroom management.
- Develop skill in planning and teaching in actual classroom environment.
- Reflect, learn to adapt and modify their teaching for attaining learning outcomes of students.
- Maintain a Reflective Journal.

- Acquire skill in conducting Action Research/ Case Study.
- Inculcate organizational and managerial skills in various school activities.
- Create and maintain resources for teaching and learning in internship schools.
- Work with the community in the interest of the learner and their learning outcomes

Paper: DISCIPLINE SPECIFIC ELECTIVE (DSE)

PHY 401: PHYSICS: QUANTUM MECHANICS AND STATISTICAL PHYSICS

Course Outcomes : The student teacher will be able to:

- Describe the limitation of classical mechanics and requirement of Quantum mechanics.
- Understand the fundamental aspects of Quantum mechanics followed by its application.
- Apply the Statistical principles to various physical phenomena.
- Solve the problems related to Quantum mechanics and Statistical mechanics.
- Establish the link between theory and experiments

Paper: DISCIPLINE SPECIFIC ELECTIVE (DSE) CHM 401: CHEMISTRY: ADVANCE CHEMISTRY-I

Course Outcomes- Students Teachers will be able to

- Understand the Spectroscopic methods that are used to study the molecules.
- Predict the appearance of a molecule's vibrational spectra as a function of symmetry and uses in detailed organic structure analysis
- Evaluate the utility of UV/VIS spectroscopy as a qualitative and quantitative method.
- Determine the vibrations for a triatomic molecule and identify whether they are infrared-active.
- Determine whether the molecular vibrations of a tri-atomic molecule are Raman active.

- Explain the difference between Stokes and anti-Stokes lines in a Raman spectrum

Paper: DISCIPLINE SPECIFIC ELECTIVE (DSE)

ZOO 401: ZOOLOGY: EVOLUTION AND PALAEONTOLOGY

Course Outcomes-

- To enable students to understand and comprehend origin of life and theories of evolution
- To understand the evolution from the evidences

Paper: DISCIPLINE SPECIFIC ELECTIVE (DSE)

BOT 401: BOTANY: PLANT ANATOMY AND ECOLOGY

Course Outcomes- After completion of this course the student teachers will be able to:

- Understand the development, organization and functions of tissues in plants;
- Understand the histological complexity in plants;
- Understand the dynamics of environment and its delicate balance;
- Understand the influence of human beings on quality of environment

Paper: DISCIPLINE SPECIFIC ELECTIVE (DSE)

MTH 401: MATHEMATICS: NUMBER THEORY AND THEORY OF EQUATIONS

Course Outcomes- At the end of the semester learners will be able to :

- Understand basic principles, formulae and procedures of number theory
- Theory of equations and apply them in problem solving situations

Course Outcomes- B.A B.Ed B.Sc B.Ed VIII Semester

Paper: Discipline Specific Elective (DSE) HIN 402

Course Outcomes-

- Shiksha Ke Sath Sath Sahitya samaj Aur Sanskariti Se Jud Sakege.
- Bhasa Aur Sahitya Ko Samajh sakege.
- Shiksha Mei Bahu-Bhasikta Ko Samajh Sakege.
- Sahitya Aur Samaj Ka Gyan Prapt Kar Sakege.

Paper: ENG 402: Literary Criticism and Theory

Course Outcomes- The students will be able to:

- Develop their analytical skills by reading various literary critiques.
- Develop their skills of literary analysis and interpretation by reading the eminent schools of literary theories.
- Familiarize the key concepts in classical criticism, neoclassicism, romantic criticism, Victorian criticism and new criticism with a view to enabling the students explicate, elucidate and interpret literary texts

Paper: GEO 402: Geographical Thought

Course Outcomes- Students will be able-

- To understand the evolution of geography as a distinct field of intellectual inquiry
- To understand the various facets of geographical thought
- To understand the development of geography as a discipline in India

Paper: HIS 402: Military History of India

Course Outcomes- The students will be able to:

- This semester will provide the knowledge of Ancient Indian warfares and its compression Greek warfare.
- The war strategies of medieval India as tulugma and Guerrilla techniques.
- Students will be informed about the organizations Indian armed Forces, Paramilitary forces, I.N.A, NCC etc.

Paper: POL 402 : IDEAS AND CONCEPTS

Course Outcomes- On completion of the course the students – Teacher will be able to:

- Understand the nature and functions of the State according various perspectives.
- To understand basic theories of Democracy.
- Acquire knowledge about the Organization of Democracy.
- To understand and analyse the basic Concepts of Political Science

Paper: ECO 402(MACRO ECONOMICS)

Course Outcomes- The students will be able to:

- Explore the basic principles of Macro Economic Theory
- discuss the preliminary concepts associated with the determination and measurement of aggregate macroeconomics variables like savings, investments, GDP, money, Inflation and the balance of payments

Paper: PROFESSIONAL EDUCATION COURSES (PEC) Perspectives in Education (PE) PEVE 402: Vision of Education in India-Issues and Concerns

Course Outcomes- On completion of the course, the Candidate will be able to:

- Understand determinants of the purposes and processes of education.
- Understand the role of education as an agency of social transformation.
- Reflect critically on concerns and issues of contemporary Indian schooling.
- Develop their insight as future concerns of education.
- Analyze development of education in light of socio, economic, political and cultural development.

Paper: PROFESSIONAL EDUCATION COURSES (PEC) Enhancing Professional Capacities (EPC)

EPCPE 402: Peace Oriented Value Education

Course Outcomes- After completion of the course, student-teachers will be able to:-

- Understand the importance of peace education.
- Analyze the factors responsible for disturbing peace.
- Appreciate the role of peace in life.
- Develop insight of understanding of concept of Indian values according to time, space and situation.
- Scientifically analyse values in Indian culture and tradition.
- Develop positive attitude about Indian human values
- Understand the Indian values according to Shradhhaand logic.
- Understand the co-ordination with Indian values and life style.
- Analyse the ethical, artistic and pleasant values.
- Analyse absolute values in globalization and universalization.
- Develop the teaching learning method for adoption and assimilation in life value.
- Explain fundamental aims and values that provide the intellectual basis of contemporary education policy and practice.
- Engage with issues in a manner that make them sensitive to promote certain educational values while marginalizing others.
- Explore the meaning of Ethics and values.
- Understand the process of value education

Paper: PROFESSIONAL EDUCATION COURSES (PEC) Enhancing Professional Capacities (EPC) EPCGI 402: Gender Issues in Education

Course Outcomes- On completion of the course, the Candidate will be able to:

- Develop basic understanding and familiarity with key concepts - gender, gender perspective, gender bias, gender stereotype, empowerment, gender

parity, equity and equality, patriarchy and feminism

- Understand the gradual paradigm shift from women studies to gender studies and some important landmarks in connection with gender and education in the historical and contemporary period
- Learn about gender issues in school, curriculum, textual materials across disciplines, pedagogical processes and its intersection with class, caste, culture, religion and region
- Understand how Gender, Power and Sexuality relate to education (in terms of access, curriculum and pedagogy)

**Paper: DISCIPLINE SPECIFIC ELECTIVE (DSE) PHY 402: PHYSICS:
ATOMIC, MOLECULAR AND NUCLEAR PHYSICS**

Course Outcomes- The student teacher will be able to:

- Understand the fundamental concepts of Atomic, Molecular and Nuclear Physics.
- Develop the concepts of transitions between various energy levels.
- Understand the source of energy in nuclear reactors and stars.
- Solve the problems related to Atomic, Molecular and Nuclear Physics.
- Establish the link between theory and experiments.

**Paper: DISCIPLINE SPECIFIC ELECTIVE (DSE) CHM 402: CHEMISTRY:
ADVANCE CHEMISTRY-II**

Course Outcomes- The student- teacher will be able -

- Evaluate the utility of UV/VIS spectroscopy as a qualitative and quantitative method.
- Understand Chemistry of Biomolecules.
- The knowledge about Spectral & Magnetic properties of Transition Metal complexes.
- Understand the Bioinorganic Chemistry, Geochemical effect on the distribution of metals.

- Learn chemistry of Amino Acids, Peptides, Proteins and Nucleic Acids

**Paper: DISCIPLINE SPECIFIC ELECTIVE (DSE) ZOO 402: ZOOLOGY:
MOLECULAR GENETICS, BIOTECHNOLOGY AND
INSTRUMENTATION**

Course Outcomes- Students will be-

- To enable students to comprehend the modern concepts of Biotechnology
- Applied aspects of Molecular Genetics, Biotechnology and instrumentation

**Paper: BOT 402: BOTANY: MOLECULAR BIOLOGY, BIOCHEMISTRY
AND BIOTECHNOLOGY**

Course Outcomes- After completion of this course the student teachers will be able to:

- Understand the structure and functions of biological macromolecules;
- Understand and appreciate the importance of nucleic acid and gene research in modern times;
- Understand the tools and techniques of biotechnology, the processes involving gene manipulation and their applications.
- Understand the tools, techniques and applications of plant tissue culture

**Paper: DISCIPLINE SPECIFIC ELECTIVE (DSE) MTH 402:
MATHEMATICS: NUMERICAL ANALYSIS**

Course Outcomes- At the end of course-

- Learner will be able to apply concepts of Numerical methods in solving problems related to real life situation.

**Paper: DSE 402: ONE PROJECT IN PHYSICS / CHEMISTRY /
MATHEMATICS / BOTANY / ZOOLOGY /GEOGRAPHY/HISTORY
/POLITICAL SCIENCE /ECONOMICS**

- **Course Outcomes-** The student- teacher will be able –
- Develop scientific aptitude
- Understand the research skills
- Develop fine practical skills
- Develop data collection methods

