

PROGRAMME LEARNING OUTCOMES AND COURSE LEARNING OUTCOMES

Every programme has clearly defined programme learning outcomes and course learning outcomes. They have been articulated by taking inputs and suggestions from every stake holder.

- Programme learning outcomes and course learning outcomes are discussed in the classrooms. These are available on website as well as in information hand book.
- Programme learning outcomes and course learning outcomes are aligned with institute vision and mission statement.
- The institute is affiliated to GNDU, Amritsar. The curriculum is defined by it and is used to guide the process for defining Programme educational objectives.

M.ED. (2-YEARS)

PROGRAMME LEARNING OUTCOMES

On successful completion of the two-year M.Ed. programme, students will be able to develop-

- 1. Research skills:** Understand different research methods, equipping students with relevant tools and techniques, data collection and analysis by using statistical measures, use of conceptual understanding in practical research work and writing a research report.
- 2. Self-study:** Self-study component helps in self-directed learning as it gives opportunities to students to study in depth about a particular issue and gain knowledge.
- 3. Analytical and interpretative skills:** Enhance the analytical and interpretation skills of data. Students are well trained in using statistical measures, software's like: SPSS, MS-EXCEL etc.
- 4. Leadership and management skills:** The course focuses on formulating and implementing leadership and management skills. The course will provide the students with a systematic framework for understanding the school management and its different strategies.
- 5. Entrepreneurial skills:** Understand the concept of entrepreneurship and skill sets of an entrepreneur and develop skills for a business, exploration of different challenges of real-life situation.
- 6. Decision making skills:** Enable them to solve various problems of school management and classroom management.
- 7. Use of technology:** Understand the innovative technology and tools of ICT

and their use in teaching learning environment. Use of ICT in research perspective, design and develop ICT integrated learning resources, analysis and interpretation of the research data with the help of ICT.

8. Relationship between school and society: Understand the social norms and educate the students accordingly

9. Social resilience: Understand about social entities and enable to cope up with adverse conditions of life.

10. Effective citizen ethics: Understand different values, morality and social service and accept responsibility for the society.

11. Assessment skills: Identify areas of primary and secondary education assessment, construction of tools; assess syllabi and text book of primary and secondary education.

12. Structuring the curricula: Understand the basis, principles and process of curriculum development at primary and secondary level.

COURSE LEARNING OUTCOMES FOR M.ED. (2-YEARS)

- Understand the dynamics of individual development.
- Explain the different approaches concerning the process of learning and knowledge construction.
- Describe the group dynamics and social behaviour.
- Familiarize with socio-emotional climate in the classroom.
- Understand the relationship between Philosophy and Education.
- Explain the modern concept of philosophy.
- Gain insight of the basic Indian and Western concepts of education.
- Analyse major modern educational philosophies and philosophers.
- Compare between different philosophies and their educational implications.
- Develop an appreciation for the role of philosophy in guiding the teaching learning process of education.
- Understand the dynamics of individual development.
- Explain the different approaches concerning the process of learning and knowledge construction.
- Describe the group dynamics and social behaviour.
- Familiarize with socio-emotional climate in the classroom.
- Identify a research problem.
- Review the literature for research purpose.
- Represent data graphically.
- Formulate research questions.

- Compute descriptive statistics.
- Understand the various institutions of secondary education
- Gain insight into the structure of secondary education
- Familiarize with the administrative system of secondary education
- Understand the functions of secondary education
- Gain insight into the status of secondary education
- Familiarize with the present problems of secondary education
- Critically appraise various aspects of secondary education
- Gain insight into the structure of curriculum and pedagogy
- Evolve concepts of pedagogical knowledge
- Familiarize with the assessments suggested by national reports
- Relate various models of curriculum assessment
- Describe the basics of communication
- Perform Expository writing
- Develop an ability to listen, converse, speak, present, explain and explicit their ideas
- Understand the importance of Society and Education in Self Development
- Reinforce the gender roles in Self Development
- Perform Yoga for their mental and physical well being
- Develop Self Concept
- Understand the nature of education as a social sub- system.
- Explain the concept of cultural change, multiculturalism and dimensions of multiculturalism.
- Describe educational institution as an agency of socialization
- Analyse education from different sociological perspectives and theoretical framework.
- Reflect upon educational problems and issues related to the weaker sections of the society.
- Describe an education system as embedded in social structure and culture.

SEMESTER-I

(COURSE-I) PHILOSOPHY OF EDUCATION

Through this course students will be able to

- Develop an appreciation for the role of philosophy in guiding the teaching learning process of education.
- Understand the relationship between Philosophy and Education.
- Explain the modern concept of philosophy

- Gain insight of the basic Indian and Western concepts of education
- Develop a critical understanding of major modern educational philosophies
- Compare between different philosophies and their educational implications

(COURSE–II) PSYCHOLOGY OF LEARNING AND DEVELOPMENT

Through this course students will be able to

- Understand the dynamics of individual development.
- Explain the different approaches concerning the process of learning and knowledge construction.
- Describe the group dynamics and social behaviour.
- Familiarize them with socio-emotional climate in the classroom.

(COURSE–III) INTRODUCTION TO EDUCATIONAL RESEARCH METHODOLOGY

Through this course students will be able to

- Identify a research problem.
- Formulate research questions
- Review the literature for research purpose.
- Represent data graphically.
- Compute descriptive statistics

(COURSE–IV A (E) a) INSTITUTIONS, SYSTEMS AND STRUCTURES AT ELEMENTARY SCHOOL STAGE

Through this course students will be able to

- Understand the various institutions of education
- Gain insight into the structure of elementary education
- Familiarize with the administrative system of elementary education

(COURSE–IV A (E) b) ELEMENTARY STAGE – STATUS, ISSUES AND CONCERNS

Through this course students will be able to

- Understand the functions of elementary education.
- Gain insight into the status of elementary education.
- Familiarize with the present educational problems of elementary education.
- Critically appraise various aspects of elementary education.

(COURSE–IV A (E) c) ELEMENTARY STAGE- CURRICULUM, PEDAGOGY AND ASSESSMENT

Through this course students will be able to

- Gain insight into the structure of curriculum and pedagogy
- Evolve concepts of pedagogical knowledge

- Familiarize with the assessments suggested with national reports
- Study various models of curriculum assessment

(COURSE–IV A (S) a) INSTITUTIONS, SYSTEMS AND STRUCTURES AT SECONDARY AND SENIOR SECONDARY SCHOOL STAGE

Through this course students will be able to

- Understand the various institutions of secondary education
- Gain insight into the structure of secondary education
- Familiarize with the administrative system of secondary education

(COURSE–IV A (S) b) SECONDARY AND SENIOR SECONDARY STAGE – STATUS, ISSUES AND CONCERNS

Through this course students will be able to

- Understand the functions of secondary education
- Gain insight into the status of secondary education
- Familiarize with the present problems of secondary education
- Critically appraise various aspects of secondary education

(COURSE–IV A (S) c) SECONDARY AND SENIOR SECONDARY STAGE- CURRICULUM, PEDAGOGY AND ASSESSMENT

Through this course students will be able to

- Gain insight into the structure of curriculum and pedagogy
- Evolve concepts of pedagogical knowledge
- Familiarize with the assessments suggested by national reports
- Study various models of curriculum assessment.

PRACTICUM–I: COMMUNICATION AND EXPOSITORY WRITING

Through this course students will be able to

- Enhance their ability to listen, converse, speak, present, explain and explicit their ideas
- Understand the basics of communication
- Be a good and effective speaker and listener
- To perform Expository writing

PRACTICUM–II: SELF DEVELOPMENT

Through this course students will be able to

- Develop Self Concept Understand the importance of Society and Education in Self Development
- Reinforce the gender roles in Self Development
- Perform Yoga for their mental and physical well being

SEMESTER–II

(COURSE–I) SOCIOLOGY OF EDUCATION

Through this course students will be able to

- Understand the nature of education as a social sub- system.
- Analyze education from different sociological perspectives and theoretical framework.
- Understand educational institution as an agency of socialization.
- Reflect upon educational problems and issues related to the weaker sections of the society.
- Know how education is embedded in social structure and culture.

(COURSE-II) HISTORICAL-POLITICAL PERSPECTIVE OF EDUCATION

Through this course students will be able to

- Gain insight into the ancient Indian education system.
- Understand the general development and progress of education prior to independence and after independence.
- Familiarize with the landmarks of education structure existing in India.
- Reflect on changing political context of education and support system of education

(COURSE-III) EDUCATION STUDIES

Through this course students will be able to

- Understand interdisciplinary nature of education
- Identify various types of institutions in India
- Explain Contemporary concerns of policy practices
- Explore education system in India

(COURSE-IV) FUNDAMENTALS OF TEACHER EDUCATION

Through this course students will be able to

- Understand the objectives of NCF (2005) and NCFTE (2009).
- List the different modes of in-service teacher education
- Familiarize with different modes of pre service teacher education.
- Gain insight into the transactional approaches for foundational and developmental courses.
- Evaluate various components of a pre-service and in-service teacher education programs

(COURSE-V) STAGE SPECIFIC INTERNSHIP IN TEACHER EDUCATION INSTITUTION (SECONDARY AND SENIOR SECONDARY STAGE)

Through this course students will be able to

- Discover the real experiences of classroom teaching
- Prepare macro lesson plan
- Construct and use appropriate audio- visual teaching aids for effective teaching

(COURSE–VI) DISSERTATION (Formulation of Synopsis)

Through this course students will be able to

- Compare different research methods
- Equip with relevant tools and techniques
- Write a research report.

SEMESTER–III

(COURSE–I) ADVANCED EDUCATIONAL RESEARCH METHODOLOGY

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

- Understand the different research methodologies.
- Explain various issues and problems of educational research.
- Use different statistical techniques for analysis of data.

(COURSE–II) TRENDS IN TEACHER EDUCATION

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

- Understand and appreciate the research perspective on various practices in teacher education.
- Understanding of various avenues of teacher's professional development
- Explain different policies of teacher education
- Describe structure and management of teacher education curriculum, infrastructure and resources needed, and the issues and problems related to teacher preparation
- Develop professional attitudes, values and interests needed to function as a teacher educator
- Summarize the issues, problems and concerns in teacher education

(COURSE–III) CURRICULUM STUDIES

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

- Understand the meaning of Curriculum.
- Outline various determinants of curricula
- Summarize the knowledge in designing curricula
- Develop the different skills related with different subjects

(COURSE-IV-B(S) Option: (i) Secondary and Senior Secondary Stage

Specialisation Optional Course- Curriculum Pedagogy and Assessment

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

- Understand types and approaches of curriculum development.

- Know various models and steps in curriculum development
- Develop a broad perspective on curriculum development

Option: (ii) Secondary and Senior Secondary Stage

Specialisation Optional Course- Educational Planning, Economics and Policy

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

- Describe political economy of education.
- Understand the relationship between education and economic development
- Explain the need, scope and purpose of educational planning

Option: (iii) Secondary and Senior Secondary Stage Specialisation Optional Course-Educational Management, Administration and Leadership

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

- Describe the basic concept of Educational administration, Management and Leadership.
- Understand the basic principal of administration and Management.
- Explain the skills and styles of Leadership.

Option: (iv) Secondary and Senior Secondary Stage Specialisation Optional Course- Inclusive Education

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

- Understand concept of inclusive education.
- Explain special education, integrated education and inclusive education practices.
- Conclude the recommendations of policies for inclusive education.

Option: (v) Secondary and Senior Secondary Stage Specialisation Optional Course-Educational Technology and ICT

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

- Understand the role of educational technology and modern innovations in teaching-learning process.
- Analyse the process of teaching and learning
- Use Information communication and technology in teaching learning process.

(COURSE-V) INTERNSHIP IN A SCHOOL WITH STAGE SPECIFIC SPECIALIZATION

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

- Recognize diverse learners in inclusive classroom setup.
- Discover the real experiences of classroom teaching.

- Apply teaching skills and dealing with classroom problems.
- Develop teaching learning resources relevant to the needs of the learner

(COURSE–VI) DISSERTATION (Data Collection)

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

- Understand different research methods
- Equip with relevant tools and techniques
- Write a research report.

SEMESTER–IV

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

SPECIALISATION – OPTIONAL COURSES

Course-IV-B (E-i) CURRICULUM PEDAGOGY AND ASSESSMENT (a) ADVANCED CURRICULUM THEORY

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

- Reflect upon the concept of curriculum and curriculum theory.
- Describe the nature of human knowledge.
- Explain the model of curriculum planning.
- List and explain different curriculum patterns and designs.
- Gain insight into models of curriculum change and innovation.
- Explain diffusion theory and model of dissemination of curriculum change and innovation.

Course-IV-B (E-i) CURRICULUM PEDAGOGY AND ASSESSMENT (b) CURRICULUM TRANSACTION

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

- Describe various methods/media for transaction.
- Discuss approaches of curriculum transaction.
- Explain role of ICT in curriculum Transaction.
- Develop skills to integrate Audio Visual Aids in curriculum transaction.
- Understand the role of communication in curriculum transaction

Course-IV-B (E-i) CURRICULUM PEDAGOGY AND ASSESSMENT (c) APPROACHES TO CURRICULUM ASSESSMENT

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

- Understand process of curriculum assessment
- Differentiate between formative and summative evaluation
- Gain insight into various strategies used for assessment
- Utilize different techniques for evaluation of curriculum and program
- Explain various tools used in curriculum assessment

Course -IV-B (E-ii) EDUCATIONAL PLANNING, ECONOMICS and POLICY (a) EDUCATIONAL PLANNING

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

- Identify the need, scope and importance of educational planning in terms of national and community needs.
- Understand the social and cultural bases of educational planning.
- Gain insight of the various guiding principles of educational planning.
- Explain the impact of five year plans on education

Course -IV-B (E-ii) EDUCATIONAL PLANNING, ECONOMICS and POLICY (b) EDUCATIONAL FINANCE AND ECONOMICS OF EDUCATION

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

- Explain the relationship between the financial support of education and quality of education.
- Familiarize with the various sources of financing education in India.
- Identify the direct and indirect objects of expenditure in education.
- Analyze the financial problems of educational administration.

Course -IV-B (E-ii) EDUCATIONAL PLANNING, ECONOMICS and POLICY (c) EDUCATION POLICY AND RESEARCH

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

- Explore various education policies and commissions
- Develop the skills in planning and using a variety of administrative strategies
- Analyze the documents through surveys.
- Evaluate the different policies.

Course-IV-B (E-III) EDUCATIONAL MANAGEMENT, ADMINISTRATION AND LEADERSHIP (a) SCHOOL MANAGEMENT

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

- Understand the concept of classroom management.
- Familiarize with the concept of institutional planning for school development.
- Understand the management strategies for quality improvement.
- Familiarize with organizational structure.

Course-IV-B (E-III) EDUCATIONAL MANAGEMENT, ADMINISTRATION AND LEADERSHIP (b) SCHOOL ADMINISTRATION

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

- Understand the concept and importance of school administration.
- Familiarize with new trends and problems in educational administration.

- Understand various educational bodies.
- Maintain and utilize various grants for quality improvement.

Course-IV-B (E-III) EDUCATIONAL MANAGEMENT, ADMINISTRATION AND LEADERSHIP (c) EDUCATIONAL LEADERSHIP

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

- Critically examine the core and contemporary leadership theories relevant to educational practice and settings.
- Know about new changes and challenges in leadership of institutions.
- Develop capacities for being efficient and effective educational leaders.

Course-IV-B (E-iv) INCLUSIVE EDUCATION (a) EDUCATION FOR SPECIAL CHILDREN

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

- Understand concept, and educational implications of visual impairment.
- Understand the concept, classification and educational provision for children with hearing impairment.
- Learn about the concept, identification and intervention strategies for children with autism and speech impairment.
- Familiarize them with the concept of mental retardation

Course-IV-B (E-iv) INCLUSIVE EDUCATION (b) GENDER, SCHOOL AND SOCIETY

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

- Understand the present approach of education of children with special needs.
- Explore the possibility of change through inclusive education
- Develop a comprehensive and critical understanding on disability and marginalization.
- Understand inequality and diversity in Indian classroom.

Course-IV-B (E-iv) INCLUSIVE EDUCATION -(c) INCLUSIVE EDUCATION AND ITS PRACTICES

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

- Understand Inclusive School Education Concept and nature.
- Develop awareness of learner towards inclusive education and its practices.
- Enable the student to organize inclusive classroom.

Course-IV-B (E-iv) EDUCATIONAL TECHNOLOGY AND ICT (a) ICT AND EDUCATIONAL TECHNOLOGY

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

- Use modern innovations in teaching-learning process.
- Understand the role of multi-media in education.
- Evaluate the use of various teaching aids in classroom.
- Able to formulate objectives related to different domains.

Course-IV-B (E-iv) EDUCATIONAL TECHNOLOGY AND ICT (b)ICT IN EDUCATION

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

- To theoretical perspective of educational technology as a field of study.
- To have future practitioners a conceptual understanding related to systemic and institutional development.
- Certain competencies and skills related to instructional management and classroom practices.

Course-IV-B (E-iv) EDUCATIONAL TECHNOLOGY AND ICT (c) EDUCATIONAL MEDIA AND RESEARCH IN CLASSROOM

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

- To enable learners apply ICT tools in courseware design and conduction of research work
- To enable student with the pattern of e-content design and its validation
- To enable students evaluate on-line learning materials and process of online testing

Course-IV-B (S-i) CURRICULUM PEDAGOGY AND ASSESSMENT (a) ADVANCED CURRICULUM THEORY

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

- Reflect upon the concept of curriculum and curriculum theory.
- Describe the nature of human knowledge.
- Explain the model of curriculum planning.
- List and explain different curriculum patterns and designs.
- Gain insight into models of curriculum change and innovation.
- Explain diffusion theory and model of dissemination of curriculum change and innovation

Course-IV-B (S-i) CURRICULUM PEDAGOGY AND ASSESSMENT (b) CURRICULUM TRANSACTION

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

- Describe various methods/media for transaction.
- Discuss approaches of curriculum transaction.
- Explain role of ICT in curriculum Transaction.
- Develop skills to integrate ICT in curriculum transaction.
- Understand the importance of collaborative learning.

Course-IV-B (S-i) CURRICULUM PEDAGOGY AND ASSESSMENT (c) APPROACHES TO CURRICULUM

ASSESSMENT

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

- Understand process of curriculum assessment
- Differentiate between formative and summative evaluation
- Utilize different techniques for evaluation of curriculum and program
- Explain various tools used in curriculum assessment

Course-IV-B (S-II) EDUCATIONAL PLANNING, ECONOMICS AND POLICY (a) EDUCATIONAL PLANNING AND ECONOMICS OF EDUCATION

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

- Explain the types and approaches to educational planning
- Understand the concept of education as consumption and investment
- Analyze the political economy of education.
- Understand the labour markets.

Course-IV-B (S-II) EDUCATIONAL PLANNING, ECONOMICS AND POLICY (b) EDUCATIONAL PLANNING, MANAGEMENT AND FINANCING OF EDUCATION

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

- Develop an insight into the perspectives of management theories in the light of practices in education.
- Understand educational management system in India.
- Understand the relationship between the financial support of education and quality of education.
- Explore the financial problems of educational administration.

Course-IV-B (S-II) EDUCATIONAL PLANNING, ECONOMICS AND POLICY (c) EDUCATIONAL POLICY AND RESEARCH

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

- Explore various education policies and commissions
- Develop the skills in planning and using a variety of administrative strategies
- Analyze the documents through surveys.
- Evaluate the different policies.

Course-IV-B (S-III) EDUCATIONAL MANAGEMENT, ADMINISTRATION AND LEADERSHIP (a) EDUCATIONAL MANAGEMENT

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

- Develop an insight of management process in educational organization.
- Analyze educational management at different levels.
- Understand educational planning, human resource development and staff

development.

Course-IV-B (S-III) EDUCATIONAL MANAGEMENT, ADMINISTRATION AND LEADERSHIP (b) EDUCATIONAL ADMINISTRATION

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

- Explore trends in Educational Administration.
- Understand and appreciate the role of different agencies in educational administrations.
- Identify the problems of educational administration in India.
- Comprehend the significance of educational administration at different levels.

Course-IV-B (S-III) EDUCATIONAL MANAGEMENT, ADMINISTRATION AND LEADERSHIP (c) LEADERSHIP IN EDUCATION

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

- Utilize the leadership skills in maintaining human relations in administration.
- Understand the role of leader in the professional growth of the person.
- Understand the role of principal as a democratic leader.
- Explore the barriers to educational leadership.

Course-IV-B (E-iv) INCLUSIVE EDUCATION (a) INCLUSIVE EDUCATION FOR CHILDREN WITH DIVERSE NEEDS

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

- Understand the nature of difficulties encountered by children with diverse needs
- Discuss the causes of various disabilities.
- Understand the needs of the children with diverse needs.
- Appreciate the role of teacher for educating children with diverse needs.

(b) PREPARATION AND MANAGEMENT OF INCLUSIVE EDUCATION

- Understand the essentials for the preparation for inclusive education.
- Comprehend the need of planning and management for inclusive education.
- Appreciate the role of the concerned personnel for supporting inclusion for children with diverse needs
- Recognize the needs of preparation of teachers for inclusion.

c) TRENDS, ISSUES AND INNOVATIONS IN INCLUSIVE EDUCATION

- Understand the current trends in Inclusive Education.

- Understand the needs national issues in Inclusive education.
- Recognize the need for promoting supportive services for inclusion.
- Decide the need for promoting innovations in Inclusive Education.

COURSE-IV-B (S-v) EDUCATIONAL TECHNOLOGY AND ICT(a)

ICT AND EDUCATIONAL TECHNOLOGY

- Understand the role of mass-media in education.
- Evaluate the use of various teaching aids in classroom.
- Use modern innovations in teaching-learning process.

(b) EDUCATIONAL TECHNOLOGY AND RECENT DEVELOPMENT

- Explain theoretical perspective of educational technology as a field of study.
- Analyse situation as future practitioners related to systemic and institutional development.
- Develop certain competencies and skills related to instructional management and classroom practices.

(c) LATEST TRENDS IN EDUCATIONAL TECHNOLOGY

- Apply ICT tools in courseware design and conduction of research work
- Recognise the pattern of e-content design and its validation
- Evaluate on-line learning materials and process of online testing

COURSE-V ACADEMIC WRITING

- Understand writing and various styles of writing
- Perform good academic writing
- Distinguish a good academic writing from others
- Develop reports and thesis

COURSE-VI DISSERTATION

- Understand different research methods
- Equip with relevant tools and techniques
- Write a research report.

BED MED INTEGRATED (3-year programme)

PROGRAMME LEARNING OUTCOMES

- To understand children's needs, motives, growth pattern and the process of learning to stimulate learning and creative thinking to foster growth and development.
- To develop an understanding of the close relationship between society and school, between life and school work.
- To help future prospective teacher to develop competence to teach subjects

of their specialization, on the basis of an adequate theory of learning and a sound knowledge of the subject.

- To translate objectives of secondary education in terms of specific programmes and activities in relation to the curriculum.
- To provide guidance in educational, personal and vocational matters.
- To develop in the pupil's capacity for thinking and working independently and guide the pupils to that end.
- To appreciate the dynamic nature of the class situation and teaching techniques.
- To understand how children learn and develop how they differ in their approaches to learning and create learning opportunities that are adapted to diverse learners and learning contexts.
- To plan learning experiences that are based on learner's existing proficiency, interests, experiences including misconceptions and errors and understand how students come to view, develop and make sense of subject matter contained in the learning experiences.
- To develop self-identity as a teacher educator through continuous experiences and reflective practices that continually evaluate the effects of his/her choices and actions.

PROGRAM SPECIFIC OUTCOMES

- The program prepares educators for middle and secondary school pedagogy (English language, Science, Mathematics and Social Sciences) and integrates additional coursework leading to specialization in teacher education, pedagogic and curriculum studies, ICT and New Media, policy and research.
- Enable learners to become curriculum developers, researchers and educational policy analysts.
- The programme integrates content and pedagogy to base pedagogic understanding and develops professional identity and capability of educators as subject experts, with knowledge of curriculum, pedagogy and assessment and diverse uses of media and technology.

COURSE LEARNING OUTCOMES

SEMESTER I

COURSE I CONTEMPORARY INDIA AND EDUCATION

Through his course students will be able to

- Understand the concept of Diversity as it exists in Contemporary Indian society.
- Develop understanding of policy frameworks for public education
- Develop understanding of educational structure in contemporary India
- Understand constitutional provisions.
- Develop understanding of classroom in social context
- Understand the classroom ethos
- Gain Insight into Educational Opportunities
- Understand issues of contemporary Indian society
- Gain Insight into Universalization of Education

COURSE II UNDERSTANDING THE LEARNER

Through this course students will be able to

- Understand the theoretical perspective of learning and the process of transfer of learning
- Describe the stages of growth and development.
- Understand the nature of learner and understand the importance of individual differences in normal classroom.
- Know the Management of learning and classroom behaviour
- Appreciate the nature of Learning Diversity.
- Explain the different learning styles.

COURSE III LEARNING AND TEACHING

Through this course students will be able to

- Understand the concept of learning comprehend the theories of learning
- Understand various aspects of teaching
- Recognize the relationship between teaching and learning
- Analyze the complex process of teaching
- Acquaint themselves with different approaches of teaching that support learning
- Gain insight into various models of teaching
- Realize the significance of the context in which the teaching learning

process occurs

COURSE IV LANGUAGE ACROSS THE CURRICULUM

Through this course students will be able to

- Understand the concept of classroom transaction
- Familiarize with various constitutional provisions and language policy
- Explain the nature and types of questioning
- Explain the Concept of Listening, Speaking, Reading and Writing and its significance
- Understand discussion and questioning as tools of learning.

COURSE V AND VI

Pedagogy of a School Subject – I (PS-I) and Pedagogy of a School Subject-II (PS-II)

- Develop understanding of the significance of that particular pedagogy subject in the present context.
- Correlate particular pedagogy subject with other school subjects.
- Develop an understanding of aims and objectives of teaching of school subject.
- Provide knowledge of different methods of teaching school subjects to student teachers.
- Acquaint student teachers with different techniques of evaluation.
- Prepare and use different teaching aids.

COURSE VII - EPC I DRAMA AND ART IN EDUCATION

Through this course students shall be able to

- Use drama processes to examine their present and to generate new knowledge
- Gain basic knowledge about colour scheme.
- Prepare effective teaching aids.
- Develop imagination and sense of appreciation of art and aesthetic sense.
- Understand the world and themselves in it.

COURSE VIII - EPC II DEVELOPING ICT SKILLS AND INTEGRATION

Through this course students will be able to

- Comprehend the electronic systems and apply them in education
- Understand the scope of ICT and its applications in teaching learning.
- Make the students familiar with new trends, techniques in education for

achieving the goals

- Get acquainted with emerging trends in ICT of effective teaching and learning.
- Understand the integration of ICT with teaching learning process.

SEMESTER II

COURSE I ASSESSMENT FOR LEARNING

Through this course students will be able to

- Gain a critical understanding of issues in assessment and evaluation.
- Become cognizant of key concepts, such as formative and summative assessment, evaluation and measurement, test, examination
- Be exposed to different kinds and forms of assessment that aid student learning
- Become the use of a wide range of assessment tools, and learn to select and construct these appropriately
- Evolve realistic, comprehensive and dynamic assessment procedures that are able to keep the whole student in view
- Familiarize with interpreting scores and providing feedback

COURSE II INTRODUCTION TO RESEARCH METHODOLOGY

Through this course students will be able to

- Develop research tools and test
- Compute descriptive statistics
- Represent data graphically.
- Select appropriate Sampling Methods.
- Identify sampling techniques and Formulate hypothesis
- Review the literature for research purpose
- Understand the concept of the educational research.

COURSE III INTEGRATING ICT IN TEACHING LEARNING

Through this course students will be able to

- Describe the instructional design
- Explain the various approaches of instructional designing
- Understand the concept, need and importance of ICT and its application in education
- Understand ICT based teaching-learning strategies
- Create awareness about appropriate use of ICT resources.

COURSE IV FUNDAMENTALS OF TEACHER EDUCATION

Through this course students will be able to

- Understand the concept and scope of Teacher Education in India with the Historical perspectives
- Understand the Problems of Teacher Education in India.
- Explain the System and Structure of Teacher Education in India.
- Understand the Different Teacher Education Programmes and their Utility.
- Understand the Aims and Objectives of Teacher Education at Elementary and Secondary. Perspectives.

(COURSE V and VI)

Pedagogy of a School Subject – I (PS-I) and Pedagogy of a School Subject – II (PS-II)

Through this course students will be able to

- Familiarize student teachers to some important methodologies & techniques of teaching subject.
- Enable student teachers to prepare and use appropriate audio-visual teaching aids for effective teaching of school subject.
- Differentiate different types of approaches of pedagogy of a school subject.
- Understand the concept of evaluation.
- Understand different types of test.
- Know how to prepare macro lesson plan.
- Understand different types of micro teaching skills.

COURSE VII INCLUSIVE EDUCATION

Through this course students will be able to

- Understand the concept of inclusive education
- Understand the need of promoting inclusive education
- Develop healthy attitude towards inclusive education.
- Understand the children with diverse needs.
- Use pedagogical strategies for addressing diversity

COURSE VIII (I) VOCATIONAL AND WORK

EDUCATION Through this course students will be able to

- Acquire the knowledge of nature, aims and objectives of vocational and work

- Understand the concept of vocational and work education.
- Understand the historical, philosophical and sociological basis of work and vocational education.
- Acquaint the students regarding SUPW.

COURSE VIII (II) HEALTH AND PHYSICAL EDUCATION

Through this course students will be able to

- Maintain and promote good health.
- Bring the overall awareness of sports values and to inculcate among students the desired habits and attitude towards physical education
- Develop the understanding of physical education and its related fields.

COURSE VIII (III) ENVIRONMENTAL EDUCATION

Through this course students will be able to

- Develop awareness about problems related to the human environment.
- Progress a perspective in which these problems can be framed and analysed in a scientific manner.
- The role of teacher and students regarding conservation and preservation of environment.

COURSE VIII (IV) PEACE AND VALUE EDUCATION

Through this course students will be able to

- Develop awareness of value education.
- Get an insight into the strategies of inculcation of values among children.
- Know the pedagogy and evaluation for peace education.
- Recognize the importance of peace education in national development.
- Comprehend the concept of peace education.

COURSE VIII (V) GUIDANCE AND COUNSELLING

Through this course students will be able to

- Enable the teacher trainees to organize guidance programs in secondary/ senior secondary schools.

- Develop skills of collection of Data through testing and non-testing tools.
- Understand the meaning, aim, objectives and need of Guidance and Counselling.

COURSE IX EPC: III READING AND REFLECTING ON TEXTS

Through this course students will be able to

- Discuss narrative text, autobiographical text and ethnographical text.
- Reflect upon different types of policy document
- Able to explain different types of Text

SEMESTER–III

COURSE I SCHOOL MANAGEMENT

Through this course students will be able to

- Understand school as a platform for conducive learning environment.
- Understand the role of teacher and the principal in ensuring a vibrant school climate.
- Familiarize with the concept of Quality Enhancement and Management in school.

COURSE II CURRICULUM DEVELOPMENT

Through this course students shall be able to

- Understand the meaning of curriculum
- Identify the components of curriculum
- Describe the various principles of curriculum development
- Explain various determinants of curriculum
- Develop a broad perspective on curriculum development
- Study types and approaches of curriculum development.
- Study various models and steps in curriculum development

COURSE III I-3 SCHOOL INTERNSHIP (16 WEEKS)

Through this course students will be able to

- Integrate different teaching skills.
- Correlate different subjects with real life experiences.

- Know how to conduct action research.
- Know how to prepare achievement and diagnostic test.
- Screen an educational film/documentary followed by critical analysis.
- Organize various Co-Curricular activities such as morning assembly, debate, declamation etc.

COURSE IV I-4 FIELD ENGAGEMENT WITH COMMUNITY

Through this course students will be able to

- Sensitize themselves towards various societal concerns.
- Theoretically orient them to the concept of NaiTaleem propagated by Mahatma Gandhi including experiential learning & work education.

SEMESTER-IV

COURSE I PHILOSOPHY OF EDUCATION

Through this course students will be able to

- Explain the doctrines, different functions & branches of philosophy.
- Identify the significant features of Schools of Indian Philosophy.
- Discuss & enumerate the Ultimate & Proximate aims & goals of Education in Indian Philosophical Traditions for the present Indian Education System.
- Elucidate the contributions to educational thinking of great Indian Thinkers.
- Explain the concepts, fundamental thinking & also critically analyse the different Western Schools of philosophy.

COURSE II PSYCHOLOGY OF LEARNING AND DEVELOPMENT

Through this course students shall be able to

- Understand the concept of human development
- Explore the different approaches of individual development.
- Explain the different approaches concerning the process of learning.

COURSE III TRENDS IN TEACHER EDUCATION

Through this course students will be able to

- Understand the Concept, Development and Agencies of Teacher Education.
- Understand the Need for Teacher Education at Tertiary Level.
- Understand the Recommendations of Various Commissions for Teacher Education.
- Understand the Issues, Problems and Innovative Practices in Teacher

Education.

- Research and Professionalism in Teacher Education.
- Understand various methods to managing Teacher Education.

COURSE IV ADVANCED EDUCATIONAL RESEARCH METHODOLOGY

Through this course students will be able to

- Understand the concept of Research and Educational Research.
- Explain the characteristics of quantitative, qualitative and mixed research.
- Select and explain the method appropriate for a research study.
- Understand basics of qualitative research and techniques of qualitative data analysis.
- Understand the role and use of statistics in educational research.
- Explain the importance of documentation and dissemination of researches in education.
- Represent the data graphically.

COURSE V A (E) a) ELEMENTARY STAGE- SYSTEMS, STRUCTURES,ISSUES AND CONCERNS

Through this course students shall be able to

- Understand the various institutions of education
- Gain insight into the structure of elementary education
- Familiarize with the administrative system of elementary education.

COURSE VI A (E) (c) ELEMENTARY STAGE- CURRICULUM, PEDAGOGY AND ASSESSMENT

Through this course students will be able to

- Gain insight into the structure of curriculum and pedagogy
- Evolve concepts of pedagogical knowledge
- Familiarize with the assessments suggested with national reports
- Study various models of curriculum assessment.

COURSE VI A (S) (a) SENIOR AND SENIOR SECONDARY STAGE- INSTITUTIONS, SYSTEMS AND STRUCTURES

Through this course students will be able to

- Understand the various institutions of secondary education
- Gain insight into the structure of secondary education
- Familiarize with the administrative system of secondary education

COURSE V A (S) (c) SECONDARY AND SENIOR SECONDARY STAGE-CURRICULUM, PEDAGOGY AND ASSESSMENT

Through this course students will be able to

- Gain insight into the structure of curriculum and pedagogy
- Evolve concepts of pedagogical knowledge
- Familiarize with the assessments suggested by national reports
- Study various models of curriculum assessment

COURSE 6 DISSERTATION (FORMULATION OF SYNOPSIS)

Through this course students will be able to

- Prepare synopsis on an educational problem.
- Understand different research methods
- Enable students to equip with relevant tools and techniques
- Enable to write a research report

SEMESTER V

COURSE I SOCIOLOGY OF EDUCATION

Through this course students will be able to

- Understand the Concept of Sociology.
- Understand the Concept of Social Stratification.
- Make a Critical Analysis of the Social Structure.
- Understand the Concepts and Processes of Social Institutions, Social Organizations and Social Stratification.
- Develop a Sociological Outlook towards education for becoming capable of directing the course of Development of Education.

COURSE II HISTORICAL, POLITICAL AND ECONOMIC PERSPECTIVES OF EDUCATION

Through this course students will be able to

- Understand the factors from historical perspective that contributed to present education system, explain the important features of various reports, commissions & policies of education during pre & post independence development of education in India
- Understand human capital, education & employment analysis of earning, manpower planning & financing of education
- Understand the pre-independence & post-independence development of education in India

- Familiarize the key concepts of economic and political developments in India.
- Investigate how globalisation influences educational reform.

COURSE III EDUCATION STUDIES

Through this course students will be able to

- Understand the nature of education as a discipline/an area of study
- Examine issues related to education as interdisciplinary knowledge
- Examine critically the theories and basic concepts of education drawn from various disciplines cognate to education such as Philosophy, Psychology, Sociology, Management, Economics etc in such a way that their linkages with methods, pedagogy and practices in the classroom could be established
- Examine critically the concerns arising from vision of school education and teacher education and also the vision of great educators
- Reflect on the multiple contexts in which the school and teacher education institutions are working
- Discuss the emerging dimensions of school and teacher education.

COURSE IV: B (E-i) CURRICULUM PEDAGOGY AND ASSESSMENT (a) CURRICULUM DEVELOPMENT

Through this course students will be able to

- Understand the principles of curriculum development
- Understand the need for and the components of curriculum development.
- Understand the process involved in curriculum planning
- Analyze the issues of different kinds involved in curriculum development

COURSE IV: B (S-i) CURRICULUM PEDAGOGY AND ASSESSMENT (a) CURRICULUM DEVELOPMENT

Through this course students will be able to

- Understand the need for and the components of curriculum development.
- Understand the process involved in curriculum planning

- Analyze the issues of different kinds involved in curriculum development.

COURSE IV: B (E-i) CURRICULUM PEDAGOGY AND ASSESSMENT
(a)ADVANCED CURRICULUM THEORY

Through this course students will be able to

- Reflect upon the concept of curriculum and curriculum theory.
- Describe the nature of human knowledge.
- Explain the model of curriculum planning.
- List and explain different curriculum patterns and designs.
- Gain insight into models of curriculum change and innovation.
- Explain diffusion theory and model of dissemination of curriculum change and innovation.

COURSE IV: B (S-i) CURRICULUM PEDAGOGY AND ASSESSMENT
(a)ADVANCED CURRICULUM THEORY

Through this course students will be able to

- Reflect upon the concept of curriculum and curriculum theory.
- List and explain different curriculum patterns and designs.
- Gain insight into models of curriculum change and innovation.
- Explain diffusion theory and model of dissemination of curriculum change and innovation.

COURSE IV: B (E-ii) EDUCATIONAL PLANNING, ECONOMICS AND POLICY
(a) EDUCATIONAL PLANNING AND POLICY

Through this course students will be able to

- Reflect on various concerns of educational policy at elementary level
- Develop understanding about quality dimensions of elementary level
- Examine the existing reports to gain insight into concerns of elementary education.
- Reflect on various issues related with elementary education.
- Understand about the policies and programmes of elementary education
- Understand the concept of educational planning at elementary level
- Gain insight into financing of education at elementary level

COURSE IV: B (S-ii) EDUCATIONAL PLANNING, ECONOMICS AND POLICY (a) EDUCATIONAL PLANNING AND POLICY

Through this course students will be able to

- Explain concept, nature, principles and procedure of educational planning at secondary level
- Acquaint the students with the concept of educational planning of education at secondary level
- Explain types of educational policy, link between educational policy and national development policy.
- Understand the concept of educational planning at secondary level
- Gain insight into financing of education at secondary level

COURSE IV: B (E-ii) EDUCATIONAL PLANNING, ECONOMICS AND POLICY (a) ECONOMICS OF EDUCATION

Through this course students will be able to

- Understand the genesis of concept of economics of education.
- Describe and differentiate between expenditure and investment, social and economic returns and private funding in the concept of economics of education.
- Appreciate and explain impact of liberalization, privatization and globalization on financing of elementary education.
- Understand the policy issues in financing education at elementary level.
- Gain information about global perspectives in financing education at elementary level.

COURSE IV: B (S-II) EDUCATIONAL MANAGEMENT, ADMINISTRATION AND LEADERSHIP (A) INSTITUTIONS, STRUCTURE AND ISSUES

Through this course students will be able to

- Understand the genesis of concept of economics of education.
- Describe and differentiate between expenditure and investment, social and economic returns and private funding in the concept of economics of education.

- Develop understanding of financing of secondary education in the light of vocationalisation of education and skill development programmes.
- Understand the policy issues in financing education at secondary level.
- Appreciate and explain impact of liberalization, privatization and globalization on financing of secondary education.

COURSE IV: B (E-III) EDUCATIONAL MANAGEMENT, ADMINISTRATION AND LEADERSHIP (A) INSTITUTIONS, STRUCTURE AND ISSUES

Through this course students will be able to

- Understand the status of Elementary Education
- Analyze organizational structure of Elementary Education and role of various organizations, institutions and agencies in Elementary Education
- Understand the functioning of various support services at Elementary Level
- Develop critical understanding about issues and challenges in elementary education
- Understand the significance of EMIS and Research in bringing positive changes in elementary education

COURSE IV: B (S-iii) EDUCATIONAL MANAGEMENT, ADMINISTRATION AND LEADERSHIP (A) INSTITUTIONS, STRUCTURE AND ISSUES

Through this course students will be able to

- Understand the concept and objectives of Secondary and Senior Secondary education
- Understand the status of Secondary and Senior Secondary education in India
- Analyze the issues of secondary and Senior Secondary education in different aspects
- Develop critical understanding about current status of Secondary education in India
- Understand policy perspectives in decentralization of administration and management of secondary and senior secondary education
- Analyze the role of various organizations, institutions and agencies in

Secondary education

**COURSE IV: B (E-iii) EDUCATIONAL MANAGEMENT,
ADMINISTRATION AND LEADERSHIP (A) SCHOOL MANAGEMENT**

Through this course students will be able to

- Understand the concept of management of elementary education
- Think about planning, policy and execution strategy of primary level
- Understand about school organization and Education Management
- Understand about innovative contribution of school education management and planning
- Understand about organization, policy, research and innovation at school level
- Understand about the structure of the Universal Elementary Education (UEE)

**COURSE IV: B (S-iii) EDUCATIONAL MANAGEMENT,
ADMINISTRATION AND LEADERSHIP (A) SCHOOL
MANAGEMENT**

Through this course students will be able to

- Understand the importance of educational planning and school management.
- Think about planning, policy and execution strategy of secondary level
- Understand about organization, policy, research and innovation at school level
- Understand the ways of resolving problems in classroom management.
- Analyze different learning resources for effective classroom management.

**COURSE IV: II: B (E-iv) INCLUSIVE EDUCATION (A) INCLUSIVE
EDUCATION AND ITS PRACTICES**

Through this course students will be able to

- Describe the concept of Inclusion and its historical perspective.
- Differentiate various types of Inclusion
- Understand new innovative techniques in inclusive education
- Explain the concept of Disability.

- Explain various constraints in setting Inclusive Schools.

COURSE IV: B (S-iv) INCLUSIVE EDUCATION (A) INCLUSIVE EDUCATION AND ITS PRACTICES

Through this course students will be able to

- Describe the concept of Inclusion and its historical perspective.
- Differentiate various types of Inclusion
- Understand new innovative techniques in inclusive education
- Explain the concept of Disability.
- Explain various constraints in setting Inclusive Schools.

COURSE IV: B (E-iv) INCLUSIVE EDUCATION (A) TRENDS AND ISSUES IN INCLUSIVE EDUCATION

Through this course students will be able to

- Understand Inclusive School Education Concept and nature.
- Develop awareness of learner towards inclusive education and its practices.
- Enable the student to organize inclusive classroom.

COURSE IV: B (S-iv) INCLUSIVE EDUCATION (A) TRENDS AND ISSUES IN INCLUSIVE EDUCATION

Through this course students will be able to

- Understand Inclusive School Education Concept and nature.
- Develop awareness of learner towards inclusive education and its practices.
- Enable the student to organize inclusive classroom.

COURSE IV: B (E-v) EDUCATIONAL TECHNOLOGY AND ICT (A) EDUCATIONAL TECHNOLOGY

Through this course students will be able to

- Understand the nature and scope of educational technology.
- Understand the various forms and approaches of educational technology.
- Gain insight into the educational technology programmes in India.
- Become effective user of technology in Education

COURSE IV: B (S-v) EDUCATIONAL TECHNOLOGY AND ICT (A)

EDUCATIONAL TECHNOLOGY

Through this course students will be able to

- Understand the nature and scope of educational technology.
- Understand the various forms and approaches of educational technology.
- Gain insight into the educational technology programmes in India.
- Become effective user of technology in Education.

COURSE IV: B (E-v) EDUCATIONAL TECHNOLOGY AND ICT (b)

EDUCATIONAL TECHNOLOGY

Through this course students will be able to

- Understand the concept and need of ICT in education.
- Know about the barriers in integrating ICT in classrooms.
- Develop understanding of the ICT supported teaching learning strategies.
- Understand the concept of communication process.
- Understand different modern techniques of communication.
- Appreciate the role of ICT in education.

COURSE IV: B (S-v) EDUCATIONAL TECHNOLOGY AND ICT (b)

EDUCATIONAL TECHNOLOGY

Through this course students will be able to

- Understand the concept and need of ICT in education.
- Know about the barriers in integrating ICT in classrooms.
- Develop understanding of the ICT supported teaching learning strategies.
- Understand the concept of communication process.
- Understand different modern techniques of communication.
- Appreciate the role of ICT in education.

SEMESTER VI

COURSE I :- CURRICULUM STUDIES

Through this course students will be able to

- Understand the meaning of curriculum development
- Explain various models and approaches of curriculum development
- Describe the concept of curriculum evaluation

- Understand various issues in curriculum development
- Understand the role of teacher in the transaction and evaluation of curriculum.
- Understand the recent developments in the field of curriculum development.
- Understand the planning and evaluation of curriculum.

COURSE–II: B (E-i) CURRICULUM PEDAGOGY AND ASSESSMENT

(a) CURRICULUM TRANSACTION

Through this course students will be able to

- Describe various methods/media for transaction.
- Discuss approaches of curriculum transaction.
- Explain role of ICT in curriculum Transaction.
- Develop skills to integrate Audio Visual Aids in curriculum transaction.
- Understand the role of communication in curriculum transaction

COURSE–II: B (S-i) CURRICULUM PEDAGOGY AND ASSESSMENT

(a) CURRICULUM TRANSACTION

Through this course students will be able to

- Describe various methods/media for transaction.
- Discuss approaches of curriculum transaction.
- Explain role of ICT in curriculum Transaction.
- Develop skills to integrate ICT in curriculum transaction.
- Understand the importance of collaborative learning.

COURSE–II: B (E-i) CURRICULUM PEDAGOGY AND ASSESSMENT

(b) CURRICULUM EVALUATION

Through this course students will be able to

- Understand process of curriculum assessment
- Differentiate between formative and summative evaluation
- Gain insight into various strategies used for assessment
- Utilize different techniques for evaluation of curriculum and program
- Explain various tools used in curriculum assessment **COURSE–II:**

B (S-i) CURRICULUM PEDAGOGY AND ASSESSMENT (b)

CURRICULUM EVALUATION

Through this course students will be able to

- Understand process of curriculum assessment
- Differentiate between formative and summative evaluation
- Gain insight into various strategies used for assessment
- Utilize different techniques for evaluation of curriculum and program
- Explain various tools used in curriculum assessment.

COURSE-II: B (E-ii) EDUCATIONAL PLANNING, ECONOMICS AND POLICY (a) EDUCATIONAL PLANNING, MANAGEMENT AND FINANCING OF EDUCATION

Through this course students will be able to

- Understand indigenous system of elementary education make a critical review policies and programmes related to elementary education
- Understand monetary, planning and management of elementary education at national, state & local level
- Read and understand global reports on elementary education and review state policies in the light of global trends.

COURSE-II: B (S-ii) EDUCATIONAL PLANNING, ECONOMICS AND POLICY (a) EDUCATIONAL PLANNING, MANAGEMENT AND FINANCING OF EDUCATION

Through this course students will be able to

- Acquaint the students with the need, scope and purpose of educational planning in terms of national and community needs
- Understand the recommendations of different education commissions regarding secondary education commissions
- Know different programmes and policies for realizing the constitutional obligations related to secondary education in India
- Develop an idea about the structure of secondary education in India.

COURSE-II: B (E-ii) EDUCATIONAL PLANNING, ECONOMICS AND POLICY (b) EDUCATIONAL POLICY AND RESEARCH

Through this course students will be able to

- Understand the theoretical aspects of educational policy and planning. Understand contextual framework for policy making in education in India.
- Acquaint with the technologies and methods about educational planning w.r.t. Five Year Plans and focus on socially and economically

disadvantage groups.

- Understand the dynamic of pattern and utilization of financing of education at different stages of education.
- Critically appraise the educational development and its impact on national development in the light of the principle of social and gender equity.

COURSE–II: B (S-ii) EDUCATIONAL PLANNING, ECONOMICS AND POLICY (b) EDUCATIONAL POLICY AND RESEARCH

Through this course students will be able to

- Understand the theoretical aspects of educational policy and planning. Understand contextual framework for policy making in education in India.
- Acquaint with the technologies and methods about educational planning w.r.t. Five Year Plans and focus on socially and economically disadvantage groups.
- Understand the dynamic of pattern and utilization of financing of education at different stages of education.
- Critically appraise the educational development and its impact on national development in the light of the principle of social and gender equity.

COURSE–II: B (E-iii) Educational Management, Administration and Leadership (a) EDUCATIONAL ADMINISTRATION

Through this course students will be able to

- Understand meaning, concept and scope of educational administration and planning in secular, socialist and democratic system of India.
- Develop understanding of educational planning in Five Year Plans in independent India in the context of globalized economy.
- Develop understanding of SSA and other initiatives in achieving the goal of UEE.
- Appreciate and describe role of community, PRI and other organizations for UEE.

PAPER–II: B (S-iii) Educational Management, Administration and Leadership (a) EDUCATIONAL ADMINISTRATION

Through this course students will be able to

- Understand meaning, concept and scope of educational administration and planning in secular, socialist and democratic system of India.
- Understand the emerging role of community in educational administration in the light of 73rd and 74th amendment and NPE (1986).
- Develop understanding of RMSA and other state level initiative in universalization of school education.
- Acquaint with the funding of secondary education for vocalization and skill development in current period.
- Understand role of monitoring bodies in implementation of government schemes for universal school education.

COURSE–II: B (E-iii) Educational Management, Administration and Leadership (b) EDUCATIONAL LEADERSHIP

Through this course students will be able to

- Critically examine the core and contemporary leadership theories relevant to educational practice and settings.
- Know about new changes and challenges in leadership of institutions.
- Develop capacities for being efficient and effective educational leaders.

COURSE–II: B (S-iii) Educational Management, Administration and Leadership (b) EDUCATIONAL LEADERSHIP

Through this course students will be able to

- Utilize the leadership skills in maintaining human relations in administration.
- Understand the role of leader in the professional growth of the person.
- Understand the role of principle as a democratic leader.
- Explore the barriers to educational leadership.

COURSE–II: B (E-iv) INCLUSIVE EDUCATION Course Title (a) PREPARATION AND MANAGEMENT OF INCLUSIVE EDUCATION

Through this course students will be able to

- Understand the essentials for the preparation for inclusive education.

- Appreciate the role of the concerned personnel for supporting inclusion for children with diverse needs
- Recognize the needs of preparation of teachers for inclusion.
- Understand the need of planning and management for inclusive education.

COURSE–II: B (S-iv) INCLUSIVE EDUCATION (a) PREPARATION AND MANAGEMENT OF INCLUSIVE EDUCATION

Through this course students will be able to

- Understand the essentials for the preparation for inclusive education.
- Appreciate the role of the concerned personnel for supporting inclusion for children with diverse needs
- Recognize the needs of preparation of teachers for inclusion.
- Understand the need of planning and management for inclusive education.

COURSE–II: B (E-iv) INCLUSIVE EDUCATION (b) EDUCATION FOR SPECIAL CHILDREN

Through this course students will be able to

- Understand concept, and educational implications of visual impairment.
- Understand the concept, classification and educational provision for children with hearing impairment.
- Learn about the concept, identification and intervention strategies for children with autism and speech impairment.
- Understand the concept of mental retardation.

COURSE–II: B (S-iv) INCLUSIVE EDUCATION (b) EDUCATION FOR SPECIAL CHILDREN

Through this course students will be able to

- Understand concept, and educational implications of visual impairment.
- Understand the concept, classification and educational provision for children with hearing impairment.
- Learn about the concept, identification and intervention strategies for children with autism and speech impairment.
- Understand the concept of mental retardation.

COURSE–II: B (E-v) EDUCATIONAL TECHNOLOGY AND ICT (a) ICT INTEACHING LEARNING

Through this course students will be able to

- Understand the usage of ICT in teaching learning process.
- Understand the concept of e-learning.
- Understand the application of ICT in classrooms.
- Get information about the role of ICT in assessment and management in teaching learning process.
- Explain different models of teaching

COURSE–II: B (S-v) EDUCATIONAL TECHNOLOGY AND ICT (a) ICT INTEACHING LEARNING

Through this course students will be able to

- Understand the usage of ICT in teaching learning process.
- Understand the concept of e-learning.
- Understand the application of ICT in classrooms.
- Get information about the role of ICT in assessment and management in teaching learning process.
- Explain different models of teaching.

COURSE–II: B (E-v) EDUCATIONAL TECHNOLOGY AND ICT (b) EDUCATIONAL MEDIA AND RESEARCH IN CLASSROOM

Through this course students will be able to

- To enable learners apply ICT tools in courseware design and conduction of research work
- To enable student with the pattern of e-content design and its validation
- To enable students evaluate on-line learning materials and process of online testing
- Understand various new innovations in Educational technology

COURSE–II: B (S-v) EDUCATIONAL TECHNOLOGY AND ICT (b) EDUCATIONAL MEDIA AND RESEARCH IN CLASSROOM

Through this course students will be able to

- To enable learners apply ICT tools in courseware design and conduction of research work
- To enable student with the pattern of e-content design and its validation

- To enable students evaluate on-line learning materials and process of online testing
- Understand various new innovations in Educational technology

B.ED. (2-YEARS)

PROGRAMME LEARNING OUTCOMES

On successful completion of the two-year B.Ed. programme, students will be able to develop-

1. Teaching competency: Know, select and use of learner-centred teaching methods, understanding of paradigm shift in conceptualizing disciplinary knowledge in school curriculum, necessary competencies for organizing learning experiences, select and use of appropriate assessment strategies for facilitating learning.

2. Pedagogical skills:Applying teaching skills and dealing with classroom problems.

3. Teaching Through Nonconventional Modes: Evolving a system of education which enhances the potential of every learners to acquire, retain and transform knowledge leading to wisdom society through creative, experiential and joyful modes of learning.

4. Critical Thinking: Analysis of Curriculum, construction of blue print, selecting appropriate teaching strategies according to needs of students and conducting action research to solve classroom problems.

5. Effective Communication: Presenting seminar before peer students and teachers and practicing communication skills through various linguistic activities and applying it for better classroom communication.

6. Sensitivity Towards Inclusion: Identifying the diversities and dealing it in inclusive classrooms environment, guidance and counselling programmes for disabled students.

7. Content Analysis: Analyse the text-books and syllabus.

8. Effective Citizen Ethics: Understand different values, morality, social service and accept responsibility for the society.

9. Social Resilience: Understand about social entities and enable to cope up with adverse conditions of life.

10. Physical Development: Practice yoga and physical education games.

11. Team Work: Locate as a member or leader in diverse teams and in multi-disciplinary settings by following the principles of collaborative learning, cooperative learning and team teaching.

PROGRAMME SPECIFIC OUTCOMES

1. To understand learner and his learning environment, contemporary India and education, school management, gender, school and society.
2. 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.
3. To understand the individual differences among students, measuring the attainment, evaluating progress, and assessing learning abilities, guidance and counselling programmes, educational technology, ICT and lesson planning.
4. To provide real experiences of classroom teaching and online teaching by using ICT and its different tools and software.
5. To understand the classroom diversities and enable them to deal with diverse learners in inclusive classroom setup, environmental education, Field Engagements with community and CP (NSS, Community Services etc.).

COURSE LEARNING OUTCOMES FOR B.ED. (2-YEARS)

SEMESTER-I

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

(COURSE-I) UNDERSTANDING THE LEARNER AND LEARNING ENVIRONMENT

- Describe the stages of growth and development
- Understand characteristics of adolescents with reference to socio-cultural factors
- Understand the role of teacher in holistic perspective of learner and learning
- Analyse the concept of inequality, marginalization and multi-culturalism and their effect on learning
- Distinguish the different learning approaches and their educational implications
- Summarize the importance of individual differences in normal classroom

(COURSE-II) CONTEMPORARY INDIA AND EDUCATION

- Differentiate among Diversity, Inequality and Marginalization.
- Understand LPG (Liberalization, Privatization and Globalization) and its Impact on Society.
- Know historical background of Secondary Education
- Understand the constitutional obligations in relation to education.
- Understand the dynamism in concepts of education in relation to changing socio, political and economic conditions in India.
- Familiarize with the present educational problems of Secondary Education.
- Critically appraise various aspects of Secondary Education.

(COURSE–III) EDUCATION AND DEVELOPMENT

- Analyse the social, cultural and political context of education.
- Examine the changing emphasis on education in the context of globalization and internationalization.
- Understand the relevance of education in relation to social, political, economic and cultural context.
- Prepare the students to understand education helps in economic and national development.

(COURSE: IV and V) Pedagogy of a School Subject – I (PS-I) and Pedagogy of a School Subject – II (PS-II)

- Classify different methods of teaching school subjects to student teachers.
- Develop understanding of the significance of that particular pedagogy subject in the present context.
- Correlate particular pedagogy subject with other school subjects.
- Outline aims and objectives of teaching of school subject.
- Acquaint student teachers with different techniques of evaluation.
- Prepare and use different teaching aids.

(COURSE: VI) LANGUAGE ACROSS THE CURRICULAM(CP-III)

- Understand the concept of classroom transaction
- Recognize schema theories
- Explain the nature and types of questioning
- Explain the Concept of Listening, Speaking, Reading and Writing and its significance

(COURSE: VII) READING AND REFLECTING ON TEXTS (EPC-I)

- Discuss narrative text, autobiographical text and ethnographical text.
- Explain different types of Text
- Reflect upon different types of policy document

SEMESTER–II

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

(COURSE: I) UNDERSTANDING THE LEARNING PROCESS

- Know the various theories of learning
- Understand the concept of motivation and understand the role of teacher in motivating, strengthening and sustaining learning styles.
- Explain the nature and characteristics of teaching
- Describe the principles and maxims of teaching
- Discuss anatomy of teaching
- Differentiate between teaching and learning

(COURSE: II) ASSESSMENT FOR LEARNING

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

(COURSE: III) Educational Technology and ICT

- Understand the nature and scope of educational technology and also about the various forms of technology
- Explain the systems approach to Education and communication theories and modes of communication
- Familiar with the instructional design and modes of development of self learning material
- Describe the concept of ICT in education and appreciate the scope of ICT for improving the personal productivity and professional competencies

(COURSE: IV and V) Pedagogy of a School Subject – I (PS-I) and Pedagogy of a School Subject – II (PS-II)

- Describe some important methodologies & techniques of teaching subject.
- Prepare and use appropriate audio- visual teaching aids for effective teaching of school subject.
- Differentiate different types of approaches of pedagogy of a school subject.
- Know the concept of evaluation.
- Understand different types of test.
- Formulate macro lesson plan.
- Comprehend different types of micro teaching skills.

(COURSE: VI) DRAMA AND ART IN EDUCATION (EPC-II)

- Prepare effective teaching aids.
- Apply basic knowledge about colour scheme.
- Use drama processes to examine their present and to generate new knowledge, understanding and perceptions of the world and themselves in it.
- Develop some theatre skills that will later help them be creative and enlightened teachers.
- Develop imagination and sense of appreciation of art and aesthetic sense.

(COURSE: VII) COMMUNICATION SKILLS

- Construct a classroom climate that fosters learning, equity, and excellence and will use this knowledge to create a physical and emotional environment that is safe and productive.
- Understand and apply principles and strategies for communicating effectively in varied teaching and learning contexts.
- Apply appropriate instruction that actively engages students in the learning process.
- Use of technology to plan, organize, deliver, and evaluate instruction for all students.
- Analyse student performance and achievement; provide students with timely, high-quality feedback; and respond flexibly to promote learning for all students.

SEMESTER-III

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

(COURSE-I) School Internship CPI (SI)&CPII(SI)

- Be exposed to the real experiences of classroom teaching.
- Set up diverse learners in inclusive classroom setup.
- Apply teaching skills and dealing with classroom problems.

(COURSE-II) FILED ENGAGEMENT WITH COMMUNITY and CP FE-III

- Develop an awareness and sensitivity.
- Progress the capacity to facilitate personal growth and social skills in their own students.
- Identify the diversities and dealing it in inclusive classroom environment for disabled students.

SEMESTER-IV

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

(COURSE-I) GENDER, SCHOOL and SOCIETY

- Understand the basic terms, concepts used in gender studies.
- Comprehend the gender discrimination in construction and dissemination of knowledge.
- Develop an awareness and sensitivity.

(COURSE-II) GUIDANCE AND COUNSELLING

- Understand the meaning, nature and scope of guidance.
- Recognize the role of guidance and counselling.
- Appreciate the need of guidance.
- Understand the meaning, nature and scope of counselling.
- Analyse the relationship between guidance and counselling.

(COURSE-III) INCLUSIVE EDUCATION

- Explain the concept of Disability.
- Describe the concept of Inclusion and its historical perspective.
- Differentiate various types of Inclusion.
- Explain various constraints in setting Inclusive Schools.

(COURSE-IV)SCHOOL MANAGEMENT

- Explain School as a conducive learning environment.
- Describe the role of teacher and the principal in ensuring a vibrant school climate.
- Summarize the concept of Quality Enhancement and Management in school.

(COURSE-V) VOCATIONAL AND WORK EDUCATION CP -V (Option: i)

- Describe education demands of the population, support professional, career development.
- Relate feed economy with qualified staff competitive both on local and international labour market.
- Support student mobility.
- Plan professional development of minority groups and create employment opportunities for them.
- Arrange competitiveness of employed be re-training and professional development

HEALTH AND PHYSICAL EDUCATION CP- V (Option: ii)

- State personal hygiene.
- Describe about the concept of health education.
- Explain the importance of balanced diet.
- Understand the techniques used to diagnose health.

PEACE AND VALUE EDUCATIONCP- V (Option: iii)

- Describe the concept of peace education.
- Explain the dynamics of transformation of violence into peace.
- Generalize the significance of peace in Self-development.
- Familiarize the nature of conflicts and their resolutions.
- Use the knowledge, attitudes and skills needed to achieve and sustain a Global culture of peace.
- Appraise peace education in the curriculum.

FOUNDATIONS OF CURRICULAM DEVELOPMENT CP- V(Option: iv)

- Understand the concept of curriculum
- Differentiate curriculum and syllabus
- Discuss various Facets of curriculum
- Converse theories and types of curriculum
- Explain the process of curriculum development
- Discuss the role of school philosophy in developing curriculum
- Discriminate between centralized and de-centralized curriculum
- Confer the problem of curriculum load

(COURSE–VI) Enriching Learning through ICT (EPC–III)

- Describe about computer and its components.
- Prepare slide presentation.

(COURSE–VII) UNDERSTANDING THE SELF (EPC–IV)

- Discover and develop open-mindedness, the attitude of a self-motivated learner, having self-knowledge and self-restraint.
- Develop the capacity for sensitivity, sound communication skills and ways to establish peace and harmony.
- Progress the capacity to facilitate personal growth and social skills in their own students.

BA BED INTEGRATED (4 YEAR DEGREE PROGRAM) PROGRAMME LEARNING OUTCOMES

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

- Analyze the secondary school curriculum of various schools affiliated to different Boards.
- Make use of subject specific pedagogical knowledge and skills
- Practice skills and approaches for enhancing understanding of subject matter knowledge to be taught in secondary schools.
- Appreciate the role of teacher in prevailing socio-cultural and political systems in general and education system in particular.
- To initiate the discourse on education by organizing seminars, debates, lectures and discussion groups for student-teachers.
- To organize inter institutional activities for student-teachers on themes of educational significance and also make them participate in such events. A participatory teaching approach is adopted to help student- teachers develop reflective thinking and questioning skills.
- To provide strong professional base through diverse educational experiences.

PROGRAM SPECIFIC OUTCOMES

- **Enrichment of Intellectual and Epistemic Tradition:** The programme develops students' wide understanding of and on the major concepts, thoughts, and ideas of Applied Statistics, Computer Applications, Dramatic Art (Theatre), Drawing and Painting, Economics, English Literature, Geography, Hindi Literature, History, Mathematics, Physical Education, Political Science, Psychology, Sanskrit, Sociology and Statistics. It also enriches their analytical, critical, creative faculties.
- **Amelioration of Problem-Solving Skills:** The programme prepares

students to contextualize and to rationalize the principles of scientific enquiry, theoretical and philosophical thoughts, analytical and creative thinking for solving problems and making decision in the socio-pragmatic realities of life. These problem-solving skills are instrumental in finding, analysing, evaluating and applying information systematically so that judicious decision could be made.

- **Appropriate Application of Methodological Tools:** The programme makes a candid attempt of familiarizing students with some relevant methodological tools which help them exploring the underlying ideas, thoughts, concepts and meanings in the available discourses of law, humanities, social sciences, art and aesthetics etc. A text is embedded into a rich cultural, social, pragmatic, and political realities and the apposite application of those methodological tools may unravel the textual and contextual richness.
- **Developing Communicative Competence:** The programme intends to develop grammatical and communicative competence among students and make them aware of the nature, form and function of language. Language is not merely a medium to communicate but is more fundamental to the process of the formation of ideas, thoughts and concepts. The programme therefore nurtures listening, writing, speaking and reading skills of students which allow them to communicate effectively in textual, personal and interpersonal contexts so that the discursive practices may be enriched and the trajectory of knowledge may get strengthened.
- **Environment and Sustainability:** The unprecedented growth and development in the world on industry, technology, trade and commerce etc have damaged the balance between nature and culture, Environment, ecology and all-natural resources have been exploited to such a level that many of them are exhausted. Looking at these miserable conditions, the programme intends to prepare students to respond to some major issues of environment and sustainability.

SEMESTER-I

Course 1 (YOGA EDUCATION)

Through this course students will be able to

- Know the historical and philosophical background of Yoga.
- Solve health related issues with the help of Pranayama's
- Use meditation for reducing day to day stress

- Correlate Yoga with Education

Course 2 (ENGLISH)

Through this course students will be able to

- Speculate and acquire the basic knowledge of English literature, grammar, and composition.
- Analyse the difference between prose and poetry.
- Trace and learn the skill of writing in English.

Course 3 (PUNJABI)

Through this course students will be able to

- Speculate and acquire the basic knowledge of Punjabi literature, grammar, and composition.
- Analyse the difference between prose and poetry.
- Trace and learn the skill of writing in Punjabi.
- Deduce literal comprehension of the texts.

Course 4 (Stream 1 – English Elective)

Through this course students will be able to

- Trace and learn the skill of writing in English.
- Deduce literal comprehension of the texts.

Course 4 (Stream 1 – Punjabi Elective)

Through this course students will be able to

- Provide an introduction for language skills and enhance literary skillstoo.
- Provide an introduction to the Punjabi literature related plays and biography of eminent writers.

Course 4 (Stream 1 – Hindi Elective)

Through this course students will be able to

- Develop literary skills
- Know about Adhunik hindi kaviyon ke kavya ka gyaan karana, unke sahyik parichya aur sahyia gat visheshataaon ka gyaan karana.

Course 4 (Stream 1 – PHILOSOPHY)

Through this course students will be able to

- Interpret the concept of philosophy
- Appraise the contribution of various Indian thinkers to the field of education
- Includes the formation and text of the thoughts of great Indian political thinkers like M.K. Gandhi, Swami Vivekananda and Shri Guru Nanak Dev Ji.

Course 4 (Stream 1 – PSYCHOLOGY)

Through this course students will be able to

- Identify learning opportunities for learners by understanding perspectives of development

- Develop skills to assess and enhance intelligence and personality of learners.
- Understand the role of teacher in holistic perspective of learner and learning

Course 4 (Stream 1 – PSYCHOLOGY - PRACTICAL)

Through this course students will be able to

- Assess and analyse intelligence of learners.
- Measure and analyse Verbal and serial learning.

Course 4 (STREAM–1 SOCIOLOGY)

Through this course students will be able to

- Understand the relationship between education and society.
- Acquaint students with contemporary philosophy.
- Analyse the role of family and society in modernisation.

Course 5 & 6 STREAM–2

MATHEMATICS PAPER–I: ALGEBRA

PAPER–II: CALCULUS AND TRIGONOMETRY

Through this course students will be able to

- Understand learning theories and their applications in mathematics education.
- Improve their competencies in secondary level mathematics.
- Prepare themselves for future lives with the help of practical values.
- Develop problem-solving abilities, critical thinking, creativity and reasoning abilities.

Course 5 & 6 STREAM–2 COMPUTER SCIENCE

Through this course students will be able to

- Understand the concept of Computer Science.
- Understand the values of learning computer.
- Correlate Computer science with other school subject
- Equip them with knowledge to set up and maintain a Computer laboratory.
- Acquire knowledge on latest trends in Information Technology.
- Differentiate different types of computer devices.

COURSE 5 & 6 STREAM–2 COMPUTER SCIENCE (PRACTICAL)

Through this course students should be able to

- Develop presentation slides to interact with outside learning community.
- Construct excel sheets and use them in evaluation.

COURSE 5 & 6 STREAM–2 ECONOMICS

Through this course students will be able to

- Understand about the various fundamental Concepts of Economic and statistics (Meaning, nature, scope and significance of fundamental Concepts). –
- Distinguish between micro and macro Economics, Static and dynamic Analysis and stock and flow variables.
- Understand about the importance of National Income in Economic Welfare.

COURSE 5 & 6 STREAM–3 HISTORY

Through this course students will be able to

- Make the student teachers aware about the role of history in developing National integration and International understanding.
- Know the legacies of the early history of India.
- Provide the knowledge of the spread of Indian culture in the other countries.

COURSE 5 & 6 STREAM–3GEOGRAPHY

Through this course students will be able to

- Acquaint the students with the nature of man environment relationship and human capability to adopt and modify the environment under its varied conditions from primitive life style to the modern living
- Identify and understand environment and population in terms of their quality and spatial distribution pattern
- Comprehend the contemporary issues facing the global community.

COURSE 5 & 6 STREAM–3GEOGRAPHY (CARTOGRAPHY)

Through this course students will be able to

- Acquaint themselves with laboratory exercises, particularly to show directions and bearings and different methods of representing relief.

COURSE 5 & 6 STREAM–3 POLITICAL SCIENCE

Through this course students will be able to

- Understand the nature and scope of Political Science.
- Distinguish between the traditional and modern perspectives of Political Science.
- Understand some basic concepts of Political Science.
- Acquaint themselves with various aspects and agents involved in the political process.

COURSE 5 & 6 STREAM–3 ECONOMICS

Through this course students will be able to

- Understand about the various fundamental Concepts of Economic and statistics (Meaning, nature, scope and significance of fundamental Concepts). –
- Distinguish between micro and macro Economics, Static and dynamic Analysis and stock and flow variables.

- Understand about the importance of National Income in Economic Welfare.

COURSE 5 & 6 STREAM-4 PHILOSOPHY

Through this course students will be able to

- Interpret the concept of philosophy
- Appraise the contribution of various Indian thinkers to the field of education
- Includes the formation and text of the thoughts of great Indian political thinkers like M.K. Gandhi, Swami Vivekananda and Shri Guru Nanak Dev Ji.

COURSE 5 & 6 STREAM-4 PSYCHOLOGY

Through this course students will be able to

- Identify learning opportunities for learners by understanding perspectives of development
- Develop skills to assess and enhance intelligence and personality of learners.
- Understand the role of teacher in holistic perspective of learner and learning.

Course 5 & 6 Stream 4– (PSYCHOLOGY - PRACTICAL)

Through this course students will be able to

- Assess and analyse intelligence of learners.
- Measure and analyse Verbal and serial learning.

Course 5 & 6 (STREAM-4 SOCIOLOGY)

Through this course students will be able to

- Understand the relationship between education and society.
- Acquaint students with contemporary philosophy.
- Analyse the role of family and society in modernisation.

Course EPC LIFE SKILLS EDUCATION

Through this course students will be able to

- Understand the concept and need of life skills in life.
- Correlate life skills with Success in life.
- Develop the skill of creative thinking, decision making and problem-solving ability.
- Manage stress using various Stress coping strategies.

SEMESTER-II

Course I ENVIRONMENTAL EDUCATION

Through this course students will be able to

- Reflect upon the concept and need of environmental education.
- Define major eco-systems and their conservation.
- Understand the role of different agencies in the protection of environment.
- Develop desirable attitude, values and respect for protection of environment.

Course 2 ENGLISH

Through this course students will be able to

- identify and understand the latest trends in poetry, prose and plays.
- develop skills to evolve ideas into expressions
- apply the learnt skills in constructive writing

Course 3 (PUNJABI)

Through this course students will be able to

- Speculate and acquire the basic knowledge of Punjabi literature, grammar, and composition.
- Analyse the difference between prose and poetry.
- Trace and learn the skill of writing in Punjabi.
- Deduce literal comprehension of the texts.

Course 4 (Stream 1 – English Elective)

Through this course students will be able to

- Trace and learn the skill of writing in English.
- Deduce literal comprehension of the texts.

Course 4 (Stream 1 – Punjabi Elective)

Through this course students will be able to

- Provide an introduction for language skills and enhance literary skillstoo.
- Speculate Punjabi literature related plays and biography of eminent writers

Course 4 (Stream 1 – Hindi Elective)

Through this course students will be able to

- Develop literary skills
- Know about Adhunik hindi kaviyon ke kavya ka gyaan karana, unke sahyik parichya aur sahyia gat visheshataaon ka gyaan karana.

Course 4 (Stream 1 – PHILOSOPHY)

Through this course students will be able to

- Know the relation of Ethics with Religion and Science.
- Critical analysis about Utilitarianism, Bhagavad Gita, Guru GranthSahib etc.

Course 4 (Stream 1 – PSYCHOLOGY)

Through this course students will be able to

- Know about Concept and Nature of Motivation and various types of Motivation.
- Explain about personality of an individual and various theoriesrelating to it.

Course 4 (Stream 1 – PSYCHOLOGY PRACTICAL)

Through this course students will be able to

- Know about effect of Knowledge of Results on Performance.
- Describe about Projective Techniques.
- Acquaint themselves with Zeiger nick-effect

Course 4 (STREAM–1 SOCIOLOGY)

Through this course students will be able to

- Know about social structure and social stratification.
- Explain the meaning of cultural lag.
- Discuss about Social Control and its significance in human life.

Course 5 & 6 STREAM–2 MATHEMATICS

PAPER–I: CALCULUS AND DIFFERENTIAL EQUATIONS

PAPER–II: CALCULUS

Through this course students will be able to

- Understand learning theories and their applications in mathematics education.
- Improve their competencies in secondary level mathematics.
- Prepare themselves for future lives with the help of practical values.
- Enhance their problem-solving abilities.

Course 5 & 6 STREAM–2 COMPUTER SCIENCE

Through this course students will be able to

- Understand the concept of Computer Science.
- Understand the values of learning computer.
- Correlate Computer science with other school subject
- Equip them with knowledge to set up and maintain a Computer laboratory.
- Acquire knowledge on latest trends in Information Technology.
- Differentiate different types of computer devices.
- Have knowledge about various programming languages and operators.

COURSE 5 & 6 STREAM–2 COMPUTER SCIENCE (PRACTICAL)

Through this course students will be able to

- Know each and every thing about practical usage of programming in C language.

COURSE 5 & 6 STREAM–2 ECONOMICS

Through this course students will be able to

- Develop and understanding about important principles of micro economic.
- Understand Classical and Keynesian models of Economics
- Know the how prices and output of good/services and factor of production are determined.
- Understand about the type of market and their equilibriums.

COURSE 5 & 6 STREAM-3 HISTORY

Through this course students will be able to

- Know the various conquests like The Conquests of the Ghaznavidin India.
- Discuss about Advent of the Mughals and various battles fought by them.
- Explain about The Mughal Government, Administration and Culture.
- Understand how the establishment of Maratha Power occurred in India.

COURSE 5 & 6 STREAM-3 GEOGRAPHY

Through this course students will be able to

- Acquaint the students with the elements and attributes of climatology and oceanography as climate plays a very vital role in human life and oceans are storehouses of resources.

COURSE 5 & 6 STREAM-3GEOGRAPHY (CARTOGRAPHY II)

Through this course students will be able to

- Know about laboratory exercises particularly to show directions and bearings and different methods of representing relief. Knowledge of directions and bearings is essential and an introduction to weather maps is also required.

COURSE 5 & 6 STREAM-3 POLITICAL SCIENCE

Through this course students will be able to

- Understand the nature and scope of Political Science.
- Distinguish between the traditional and modern perspectives of Political Science.
- Understand some basic concepts of Political Science like Human Rights, Democracy etc.
- Acquaint themselves with various aspects and agents involved in the political process.

COURSE 5 & 6 STREAM-3 ECONOMICS

Through this course students will be able to

- Develop and understanding about important principles of micro economic.
- Understand Classical and Keynesian models of Economics
- Know the how prices and output of good/services and factor of production are determined.
- Understand about the type of market and their equilibriums.

COURSE 4 STREAM-4 PHILOSOPHY

Through this course students will be able to

- Know the relation of Ethics with Religion and Science.
- Know about Utilitarianism, Bhagavad Gita, Guru Granth Sahib etc.

COURSE 4 STREAM-4 PSYCHOLOGY

Through this course students will be able to

- Know about Concept and Nature of Motivation and various types of Motivation.
- Explain about personality of an individual and various theories relating to it.

COURSE 4 STREAM-4 PSYCHOLOGY PRACTICAL

Through this course students will be able to

- Know about effect of Knowledge of Results on Performance.
- Describe about Projective Techniques.
- Acquaint themselves with Zeiger nick-effect

COURSE 4 STREAM-4 SOCIOLOGY

Through this course students will be able to

- Know about social structure and social stratification.
- Explain the meaning of cultural lag.
- Understand about Social Control and its significance in human life.

COURSE EPC UNDERSTANDING THE SELF

Through this course students will be able to

- Discover and develop open-mindedness, the attitude of a self-motivated learner, having self-knowledge and self-restraint.

- Develop the capacity for sensitivity, sound communication skills and ways to establish peace and harmony.
- Develop the capacity to facilitate personal growth and social skills in their own students.

COURSE 7 DRUG ABUSE: PROBLEM, MANAGEMENT AND PREVENTION

Through this course students will be able to

- Know the nature and extent of Drug Abuse in India and Punjab.
- Recognize the various consequences of Drug Abuse
- Know the methodologies to Prevent Drug abuse
- Identify how school and teacher can sensitize the students in creation of awareness of consequences of drug abuse
- Understand how media can act effectively to stop the usage of drugs by putting Restraint on advertisements of drugs, advertisements on bad effects of drugs.

SEMESTER III

COURSE 1 UNDERSTANDING EDUCATION AND ITS PERSPECTIVES

Through this course students will be able to

- Develop an insight into the fundamentals of Education.
- Understand the interdisciplinary nature of Education.
- Reflect upon the educational thoughts of Indian and Western thinkers.
- Critically examine the issues and concerns of education in the socio-cultural contexts of India.
- Understand the role of different agencies in promoting socialization.
- Correlate School with Societal needs.

COURSE 2 GENDER, SCHOOL AND SOCIETY

Through this course students will be able to

- Develop an insight into the different gender issues and concerns in the society.
- Understand various Constitutional provisions related to gender.
- Identify various efforts taken by different agencies to tackle gender issues in India.
- Perform his/her role for minimizing gender inequalities in the society.

COURSE 3 ENGLISH

Through this course students will be able to

- Analyse the knowledge of grammar and vocabulary
- Consider and comprehend the unseen passages and learn the art of various

- types of writing
- Develop skills to evolve ideas into expressions
- Apply the learnt skills in constructive writing

COURSE 4 PUNJABI

Through this course students will be able to

- Provide an introduction for language skills and enhance literary skillstoo.
- Analyse the Punjabi literature related plays and biography of eminent writers

Course 5,6,7(Stream 1 – English Elective)

Through this course students will be able to

- Make the student teacher aware of the cardinal literary forms.
- Inform the learner on the aesthetics of literature and its perceptible similarities and borrowing from allied themes of artistic expression.

Course 5, 6, 7(Stream 1 – Punjabi Elective)Through

this course students will be able to

- Provide an introduction for language skills and enhance literary skillstoo.
- Analyse the Punjabi literature related plays and biography of eminent writers

Course5,6,7 (Stream 1 – Hindi Elective)

Through this course students will be able to

- Develop literary skills
- Know about Adhunik hindi kaviyon ke kavya ka gyaan karana, unke sahiyik parichya aur sahiya gat visheshataaon ka gyaan karana.

Course5,6,7 STREAM–1 PHILOSOPHY DEDUCTIVE LOGIC AND APPLIEDETHICS

Through this course students will be able to

- Know the Nature and Utility of Western Logic.
- Understand the De-ontological Approach and Teleological Approach to Moral Action.
- Recognize about Medical Ethics, Educational Ethics, Legal Ethics Business Ethics

Course5,6,7 STREAM–1 PSYCHOLOGY

Through this course students will be able to

- Know about types of Variables like Stimulus, Organismic and Response Variables.
- Identify about Concept and Nature of Attention.
- Comprehend about concepts of Perception of Space and Movement

Course5,6,7 STREAM–1 PSYCHOLOGY PRACTICAL

Through this course students will be able to

- Competent in experimentation and practical handling of various concepts like Span of Attention/Division of Attention, Muller-Lyer Illusion and Figure-ground differentiation

Course 5,6,7 STREAM-1 SOCIOLOGY

Through this course students will be able to

- Know about the Changing patterns in society and differences that exist between class and society
- Distinguish in detail about Society in Rural, Urban and Tribal India.

Course 5,6,7 STREAM-2 MATHEMATICS

Paper 1: - Analysis

Paper 2: - ANALYTICAL GEOMETRY

Through this course students will be able to

- Draw the differences between various Comparison Tests like Cauchy's root test. Raabe's test, logarithmic test, De Morgan's and Bertrand's test.
- Know about Theorems on limits of sequences.
- Recognize about Parabola, Ellipse and hyperbola along with their properties.
- Understand about Transformation of axes, Rotation of axes in two dimension and three dimensions
- Comprehend the concepts like Intersection of three planes, Intersection of a line and a sphere

Course 5,6,7 STREAM-2 COMPUTER SCIENCE

COMPUTER ORIENTED NUMERICAL AND STATISTICAL METHODS

Through this course students will be able to

- Understand about various concepts of simultaneous Solution of Equations, Gauss Elimination Method Gauss Jordan method. Gauss Seidel Method, Matrix Inversion Method.
- Know about various Numerical methods versus numerical analysis, Non-linear Equations, Iterative Solutions, Multiple roots etc.

Course 5,6,7 STREAM-2 COMPUTER SCIENCE (Practical)

Through this course students will be able to

- Inculcate in themselves the computer oriented practical skills
- Gain the knowledge about various Statistical Methods.

Course 5,6,7 STREAM-2 ECONOMICS

Through this course students will be able to

- Describe nature of Micro Economic analysis and Macro Economic Analysis
- Analyse concepts of employment unemployment and full employment.
- Calculate National Income and its related aggregates and analyse the problems and limitation of National income estimation

Course5,6,7 STREAM–3 HISTORY

Through this course students will be able to

- Assess the consolidation of foreign powers on Indian soil
- Develop critical thinking about the political impact of British Raj
- Understand how India got independence with partition
- Evaluate the structure of British administrative system.
- Locate the nature of various peasant, tribal movement and the discourse on 1857 event.

Course5,6,7 STREAM–3 GEOGRAPHY

Through this course students will be able to

- Understand concept of resources and their interface with environment
- Examine use and misuse of various resources, and analyse future prospects
- Study various methods and approaches of conservation and management of natural resources
- Recognize the quantitative and qualitative aspects of human resources in spatial perspectives and the associated environmental problems.

Course5,6,7 STREAM–3 CARTOGRAPHIC REPRESENTATION OF GEOGRAPHIC DATA (PRACTICAL)

Through this course students will be able to

- Apprise the students with symbolization of different types of geographical data and depiction of various spatial data.
- Provide training in application of various graphical methods of depicting geographic data.

Course5,6,7 STREAM–3 POLITICAL SCIENCE

Through this course students will be able to

- Understand the Salient features of Indian Constitution
- Aware about Rights and Duties of the citizens
- Analyse working of central Government of India.

Course5,6,7 STREAM–3 ECONOMICS

Through this course students will be able to

- Understand the basic concepts of consumption, savings, investment, inflation.
- Appreciate the tenets of Keynesian Economics and apply them through the aggregate demand and supply model.

- Explain how the equilibrium interest rate is determined in the money market.

Course 5,6,7 STREAM-4 PHILOSOPHY

Through this course students will be able to

- Understand the nature and Utility of Western Logic
- Know about Medical Ethics, Educational Ethics, Legal Ethics and Business Ethics.
- Be well verse with teleological Approach and De-ontological Approach to Moral Action

Course 5,6,7 STREAM-4 PSYCHOLOGY EXPERIMENTAL PSYCHOLOGY-I

Through this course students will be able to

- Study about cause and effect relationship.
- Know about the concept and Nature of Types of Variables like Stimulus, Organismic and Response Variables.
- Understand about various Theories of Colour Vision

Course 5,6,7 STREAM-4 PSYCHOLOGY PRACTICAL

Through this course students will be able to

- Discuss and demonstrate the utility of various psychological tests
- Relate and restate theoretical concepts to a real-world problem in a written report in terms of a statistical model or algorithm.

Course 5,6,7 STREAM-4 SOCIOLOGY

Through this course students will be able to

- Describe the concepts and features of family, kinship and marriage in India.
- Understand demographic profile of Indian society.
- Explain Familial and Social issues.

SEMESTER IV

COURSE 1 LANGUAGE PROFICIENCY AND COMMUNICATION SKILLS

Through this course students will be able to

- Understand the concept and process of communication.
- Enhance his/her skills of listening, speaking, reading and writing.
- Develop the required communication skills necessary for classroom interaction.
- Develop a thorough understanding of linguistics and paralinguistics skills.

COURSE 2 ENGLISH

Through this course students will be able to

- Understand the art of reading and comprehending stories and prose

- develop the skill of advanced grammar and composition
- inculcate humane values and ethics through the given poem
- engage in the praxis of applying those theoretical and philosophical underpinnings for the analysis of a particular poem
- learn grammar as a rule governed behaviour

COURSE 3 PUNJABI

Through this course students will be able to

- Speculate and acquire the basic knowledge of Punjabi literature, grammar, and composition.
- Analyse the difference between prose and poetry.
- Trace and learn the skill of writing in Punjabi.
- Deduce literal comprehension of the texts.

COURSE 4 & 5 STREAM 1 – ENGLISH (ELECTIVE)

Through this course students will be able to

- Demonstrate knowledge of the select texts and traditions in the specific social, cultural and historical context.
- Assimilate the correct patterns of the language.
- learn grammar as a rule governed behaviour

COURSE 4 & 5 STREAM 1- PUNJABI (ELECTIVE)

Through this course students will be able to

- Know the historical and theoretical aspects of modern Punjabi period with special reference to the different trends and forms of literature such as poetry, novel, story, play and types of prose.

COURSE 4 & 5 STREAM 1- HINDI ELECTIVE

Through this course students will be able to

- Gain knowledge about Hindi upanayanas - premchand, lakshmiNarayan aadi ke upanyason evam kahaniyon ka samikshatmak gyaan
- Understand Drama Texts in Their Culture and Historical Contexts.
- Analyse full length dramas using appropriate terminology and common theatrical figures.

COURSE 4 & 5 STREAM 1- PHILOSOPHY (INDUCTIVE LOGIC AND ENVIRONMENTAL ETHICS)

Through this course students will be able to

- Know about Simple Enumeration, Scientific Induction and Analogy.
- Understand about Indian Logic, Nyaya Syllogism and Anumana in Nyaya Darshan
- Know about the nature of Environmental Ethics

COURSE 4 & 5 STREAM 1- PSYCHOLOGY **(EXPERIMENTAL PSYCHOLOGY-II)**

Through this course students will be able to

- Explain the concepts and uses of various statistical techniques
- Implicate the principles of psychophysics in sensation and perception theoretically
- Know about Weber- Fechner law, Concept of Absolute and Differential Thresholds

COURSE 4 & 5 STREAM 1 PSYCHOLOGY PRACTICAL

Through this course students will be able to

- Apply the fundamental concepts of empirical researches
- Demonstrate knowledge of experimental psychology in understanding psychological process empirically

COURSE 4 & 5 STREAM 1 SOCIOLOGY - SOCIAL CHANGE IN INDIA

Through this course students will be able to

- Explain Indian society and culture in sociological perspective.
- Analyse the concept of social and cultural change.
- Explain the concept of static aspect of society.

COURSE 4 & 5 STREAM 2- MATHEMATICS

PAPER-I: STATICS AND VECTOR CALCULUS

PAPER-II: SOLID GEOMETRY

Through this course students will be able to

- Apply numerical methods to obtain approximate solutions to mathematical problems
- Demonstrate precise and proficient use of complex functions continuity, differentiability
- Know about parallelogram law, triangle law, polygon law, Lami's Theorem, $(\lambda-\mu)$ theorem, Vector differentiation, Vector identity and Vector integration
- Understand the concept of Cylinder as surface generated by a line moving parallel to a fixed line and through fixed curve.
- Understand about the concept of Cone with a vertex at the origin as the graph of homogeneous equation of second degree in x, y, z

COURSE 4 & 5 STREAM 2 COMPUTER SCIENCE

DATA STRUCTURES & PROGRAMMING LANGUAGE USING C++

Through this course students will be able to

- Choose appropriate data structure as applied to specified problem definition.
- Handle operations like searching, insertion, deletion, traversing mechanism etc. on various data structures.
- Use linear and non-linear data structures like stacks, queues, linkedlist etc.
- Understand internal representation of Linear and nonlinear datastructures.
- Apply appropriate algorithms to solve selected problems, both manually and by writing computer programs.

COURSE 4 & 5 STREAM 2 COMPUTER SCIENCE

DATA STRUCTURES & PROGRAMMING LANGUAGE USING C++ LAB(PRACTICAL

Through this course students will be able to

- Do Practical based on Data Structures & Programming Language Using C++

COURSE 4 & 5 STREAM 2 ECONOMICS

INTERNATIONAL ECONOMICS AND PUBLIC FINANCE

Through this course students will be able to

- Discuss and explain trade policy issues such as protectionism and free trade.
- Understand and apply the principle of comparative advantage.
- Apply partial equilibrium models in analysing the economic effects of trade policy instruments such as tariffs and quotas.
- Understand the concept of Balance of Payments and its disequilibrium
- Critically analyse different theories of determination of exchange rate.

COURSE 4 & 5 STREAM 3

HISTORY(HISTORY OF THE

PUNJAB)

Through this course students will be able to

- Know about Socio-Religious condition of the Punjab around 1500 A.D.
- Attain the knowledge about Foundation of Sikh Panth, Guru Nanak Dev and his Teachings.
- Understand about Development of the Sikh Panth, Creation of Khalsa and Circumstances leading to the creation of the Khalsa
- Know about Political Organisations of the Sikhs in the 18th Century.

COURSE 4 & 5 STREAM 3 GEOGRAPHY

(GEOGRAPHY OF PUNJAB)

Through this course students will be able to

- Understand the regional setting of Punjab State in detail through physical and political maps.
- Examine the pattern of select population characteristics.
- Study the distribution of major crops, industries and transport links in the state.
- Understand the intra-regional variations in the select aspects.

COURSE 4 & 5 STREAM 3 GEOGRAPHY

MAPWORK AND PRACTICAL GEOGRAPHY (PRACTICAL)

Through this course students will be able to

- Apprise the students with symbolization of different types of geographical data and depiction of various spatial data.
- Provide training in application of various graphical methods of depicting geographic data.
- Train the students to interpret the topographical sheets at different scales course Content.

COURSE 4 & 5 STREAM 3 POLITICAL SCIENCE

INDIAN POLITICAL SYSTEM

Through this course students will be able to

- Understand the basic structure of federal system
- Know about electoral process in India.
- Critically Analyse the Indian Democracy.
- Understand the foreign Policy its determinants and relevance.
- Critically analyse the India's bilateral relations with major powers and its neighbour countries.

COURSE 4 & 5 STREAM 3 ECONOMICS

INTERNATIONAL ECONOMICS AND PUBLIC FINANCE

Through this course students will be able to

- Discuss and explain trade policy issues such as protectionism and free trade.
- Understand and apply the principle of comparative advantage.
- Apply partial equilibrium models in analysing the economic effects of trade policy instruments such as tariffs and quotas.
- Understand the concept of Balance of Payments and its disequilibrium
- Critically analyse different theories of determination of exchange rate.

COURSE 4 & 5 STREAM 4 PHILOSOPHY

INDUCTIVE LOGIC AND ENVIRONMENTAL

ETHICS

Through this course students will be able to

- Know about Simple Enumeration, Scientific Induction and Analogy.

- Understand about Indian Logic, Nyaya Syllogism and Anumana in Nyaya Darshan
- Know about the nature of Environmental Ethics

COURSE 4 & 5 STREAM 4

PSYCHOLOGY EXPERIMENTAL

PSYCHOLOGY-II

Through this course students will be able to

- Explain the concepts and uses of various statistical techniques
- Implicate the principles of psychophysics in sensation and perception theoretically
- Know about Weber- Fechner law, Concept of Absolute and Differential Thresholds

COURSE 4 & 5 STREAM 4 PSYCHOLOGY PRACTICAL

Through this course students will be able to

- Apply the fundamental concepts of empirical researches
- Demonstrate knowledge of experimental psychology in understanding psychological process empirically

COURSE 4 & 5 STREAM 4 SOCIOLOGY - SOCIAL CHANGE IN INDIA

Through this course students will be able to

- Explain Indian society and culture in sociological perspective.
- Analyse the concept of social and cultural change.
- Explain the concept of static aspect of society.

COURSE EPC - DRAMA AND ART IN EDUCATION

Through this course students will be able to

- Develop imagination and sense of appreciation of art and interest in art.
- Develop aesthetic sense.
- Prepare effective teaching aids.
- Gain basic knowledge about colour scheme.
- Use drama processes to examine their present and to generate new knowledge
- Understand the world and themselves in it.

COURSE 6 ENVIRONMENTAL STUDIES

Through this course students will be able to

- Discuss on objective and Need of Environment Education.
- Reflect Importance of environment education in School Curriculum.
- Appreciate the Role of Various media in environment education.
- Analyse Environment crisis.

- Organize different Activities related to Environment Education
- Perform activities for awareness of Environment Education.
- Utilize the acquired knowledge to maintain the environmentally friendly philosophy with sustainability of various environmental resources. Also, to create awareness amongst others to keep the environment safe and clean.

B.Sc. BED INTEGRATED (4 YEAR DEGREE PROGRAM)

PROGRAMME LEARNING OUTCOMES

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

- Analyze the secondary school curriculum of various schools affiliated to different Boards.
- Make use of subject specific pedagogical knowledge and skills
- Practice skills and approaches for enhancing understanding of subject matter knowledge to be taught in secondary schools.
- Appreciate the role of teacher in prevailing socio-cultural and political systems in general and education system in particular.
- To initiate the discourse on education by organizing seminars, debates, lectures and discussion groups for student-teachers.
- To organize inter institutional activities for student-teachers on themes of educational significance and also make them participate in such events. A participatory teaching approach is adopted to help student- teachers develop reflective thinking and questioning skills.
- To provide strong professional base through diverse educational experiences.

PROGRAM SPECIFIC OUTCOMES

- **Enrichment of Intellectual and Epistemic Tradition:** The programme develops students' wide understanding of and on the major concepts, thoughts, and ideas of Applied Statistics, Computer Applications, Dramatic Art (Theatre), Drawing and Painting, **Physics, Chemistry, Mathematics, Botany, Zoology**. It also enriches their analytical, critical, creative faculties.
- **Amelioration of Problem-Solving Skills:** The programme prepares students to contextualize and to rationalize the principles of scientific enquiry, theoretical and philosophical thoughts, analytical and creative thinking for solving problems and making decision in the socio-pragmatic realities of life. These problem-solving skills are instrumental in finding, analysing, evaluating and applying information systematically so that judicious decision could be made.
- **Appropriate Application of Methodological Tools:** The programme makes a candid attempt of familiarizing students with some relevant

methodological tools which help them exploring the underlying ideas, thoughts, concepts and meanings in the available discourses of law, humanities, social sciences, art and aesthetics etc. A text is embedded into a rich cultural, social, pragmatic, and political realities and the apposite application of those methodological tools may unravel the textual and contextual richness.

- **Developing Communicative Competence:** The programme intends to develop grammatical and communicative competence among students and make them aware of the nature, form and function of language. Language is not merely a medium to communicate but is more fundamental to the process of the formation of ideas, thoughts and concepts. The programme therefore nurtures listening, writing, speaking and reading skills of students which allow them to communicate effectively in textual, personal and interpersonal contexts so that the discursive practices may be enriched and the trajectory of knowledge may get strengthened.
- **Environment and Sustainability:** The unprecedented growth and development in the world on industry, technology, trade and commerce etc have damaged the balance between nature and culture, Environment, ecology and all-natural resources have been exploited to such a level that many of them are exhausted. Looking at these miserable conditions, the programme intends to prepare students to respond to some major issues of environment and sustainability.

SEMESTER-I

Course 1 (YOGA EDUCATION)

Through this course students will be able to

- Know the historical and philosophical background of Yoga.
- Solve health related issues with the help of Pranayama's
- Use meditation for reducing day to day stress
- Correlate Yoga with Education

Course 2 (ENGLISH)

Through this course students will be able to

- Speculate and acquire the basic knowledge of English literature, grammar, and composition.
- Analyse the difference between prose and poetry.
- Trace and learn the skill of writing in English.

Course 3 (PUNJABI)

Through this course students will be able to

- Speculate and acquire the basic knowledge of Punjabi literature, grammar, and composition.
- Analyse the difference between prose and poetry.
- Trace and learn the skill of writing in Punjabi.
- Deduce literal comprehension of the texts.

Course 4, 5, 6, Stream 1(PHYSICS)

PAPER A- MECHANICS

Through this course students will be able to

- Understand the concept of Cartesian coordinates system, spherical polar coordinate and plane polar coordinate
- Understand the concept of various forces in nature and about the rotation of earth about its axis and various laws of Kepler and equation of orbit.
- Know about the different frames of references like internal frames and non-internal frames and various virtual forces existing in non-inertial frames of references.
- Understand the concept of collisions(elastic and inelastic) in lab system and centre of mass system and various scattering occurring in both systems.
- Understand the concept of ether and about special theory of relativity.

PAPER B- ELECTRICITY AND MAGNETISM

Through this course students will be able to

- Understand Basic ideas of Vector Calculus Gradient, Divergence, curl
- understand the basic idea of Work and potential difference.
- understand Poisson and Laplace's equation
- know Interaction between moving charges and force between parallel currents

Course 4, 5, 6, Stream 1&2(CHEMISTRY)

INORGANIC CHEMISTRY-I

Through this course students will be able to

- understand structure of the atom.
- understand periodic properties of atom.
- understand ionic solids and the weak interactions.
- understand chemical bonding.

ORGANIC CHEMISTRY-I

Through this course students will be able to

- understand concept of hybridisation
- understand alkenes and alkynes
- understand Alkyl Halides and Cycloalkanes
- understand Arenes and Aromaticity

MATHEMATICSPAPER-I: ALGEBRA

PAPER-II: CALCULUS AND TRIGONOMETRY

Through this course students will be able to

- Understand learning theories and their applications in mathematics education.
- Improve their competencies in secondary level mathematics.
- Prepare themselves for future lives with the help of practical values.
- Develop problem-solving abilities, critical thinking, creativity and reasoning abilities.

Course 4, 5, 6, Stream 2(BOTANY)

PAPER -I A: DIVERSITY OF MICROBES

Through this course students will be able to

- learn Algae: General characters, classification and economic importance
- learn Viruses, Bacteria
- learn Classification and Economic Importance of Fungi
- learn Basidiomycotina; Deuteromycotina

PAPER -I B: DIVERSITY OF CRYPTOGAMS

Through this course students will be able to

- know about the diversity of Cryptogams and Phanerogams.
- understand the life cycle pattern of Bryophytes, Pteridophytes
- understand the important characteristics of Psilopsida, Lycopsidea, Sphenopsida and Pteropsida
- understand the structure, reproduction in Rhynia,
- understand the life cycle pattern of Lycopodium, Selaginella. Equisetum, Pteris and Marsilea

Course 4, 5, 6, Stream 2(ZOOLOGY)

ZOO -I A: CELL BIOLOGY

Through this course students will be able to

- understand about the structural and functional unit of life.
- understand the different types of fixatives \fixation and staining techniques.
- understand about different cell organelles and also to draw their detailed structures.
- learn about transformation in cancer.
- get an elementary idea of cellular basis of immunity.

ZOO -I B: BIODIVERSITY-I (PROTOZOATO-ANNELIDA)

Through this course students will be able to

- To enable the students to learn about different phylums.
- To enable the students to understand about parazoa and coelentrata
- To enable the students to understand protozoans
- To enable the students to learn about the characteristic features of aschelminthes and annelida

Course EPC -I LIFE SKILLS EDUCATION

Through this course students will be able to

- Understand the concept and need of life skills in life.
- Correlate life skills with Success in life.
- Develop the skill of creative thinking, decision making and problem-solving ability.
- Manage stress using various Stress coping strategies.

SEMESTER-II

Course I ENVIRONMENTAL EDUCATION

Through this course students will be able to

- Reflect upon the concept and need of environmental education.
- Define major eco-systems and their conservation.
- Understand the role of different agencies in the protection of environment.
- Develop desirable attitude, values and respect for protection of environment.

Course 2 ENGLISH

Through this course students will be able to

- Identify and understand the latest trends in poetry, prose and plays.
- Develop skills to evolve ideas into expressions
- Apply the learnt skills in constructive writing

Course 3 (PUNJABI)

Through this course students will be able to

- Speculate and acquire the basic knowledge of Punjabi literature, grammar, and composition.
- Analyse the difference between prose and poetry.
- Trace and learn the skill of writing in Punjabi.
- Deduce literal comprehension of the texts.

Course 4, 5, 6, Stream 1(PHYSICS)

PAPER A- RELATIVITY AND ELECTROMAGNETISM

Through this course students will be able to

- discuss the key observations and events that led to the development of Einstein's theory of special relativity and Maxwell's equations of electromagnetism;
- explain the fundamental principles of special relativity and electromagnetism and the far-reaching connections between them
- use these fundamental physical principles in the analysis of simple problems;
- discuss the experimental basis of these fundamental principles and how this contributed to the subsequent development of fundamental physics.

PAPER B- VIBRATION AND WAVES

Through this course students will be able to

- Know about a variety of physical phenomena, including mechanical and electrical oscillations, mechanical and electromagnetic waves
- Appreciate the wide applicability of vibration and wave concepts.
- Experience the related mathematical description.

Course 4, 5, 6, Stream 1&2(CHEMISTRY)

INORGANIC CHEMISTRY-II

Through this course students will be able to

- appreciate the general trends in the chemistry of p-block elements;
- describe the trends in physical and chemical properties of group 13, 14, 15, 16 elements;
- explain anomalous behavior of boron and carbon;
- describe allotropic forms of carbon;
- know the chemistry of some important compounds of boron, carbon and silicon
- list the important uses of group 13, 14, 15, 16 elements and their compounds

PHYSICAL CHEMISTRY-I

Through this course students will be able to

- interpret the real gases, the student will be able to solve the problems.
- describe the ideal and real gases.
- use the Van Der Waals gas equation.
- use the real gas and Van Der Waals isotherms.
- describe the critical state, adapts critical state equation to the problems.
- interpret some properties of liquids and solids, and solve the problems.
- describe the condensed phases.
- express and use the vapour pressure.
- Interpret the phase equilibrium in simple systems and solve questions related to them.
- express the stability of the phases in the pure substance.
- interpret the pressure dependence of T-M curve.

MATHEMATICSPAPER-I:

CALCULUS AND DIFFERENTIAL EQUATIONS

PAPER-II: CALCULUS

Through this course students will be able to

- Understand learning theories and their applications in mathematics education.
- Improve their competencies in secondary level mathematics.
- Prepare themselves for future lives with the help of practical values.
- Develop problem-solving abilities, critical thinking, creativity and

reasoning abilities.

Course 4, 5, 6 Stream 2(BOTANY)

PAPER –II A: CELL BIOLOGY

Through this course students will be able to

- understand the structures and purposes of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes, and organelles
- understand how these cellular components are used to generate and utilize energy in cells
- understand the cellular components underlying mitotic cell division.
- apply their knowledge of cell biology to selected examples of changes or losses in cell function.

PAPER –II B: GENETICS

Through this course students will be able to

- understand DNA structure, its replication, DNA–protein interaction
- understand Cell Division, Genetic Inheritance, laws of segregation and independent assortment
- understand Structure of gene and transfer of genetic information;
- understand Genetic Variations, DNA, damage and repair

Course 4, 5, 6, Stream 2(ZOOLOGY)

ZOO –II A: ECOLOGY

Through this course students will be able to

- understand definition, subdivisions and scope of ecology
- elaborate ecosystem and its components
- define nutrients and understand biogeochemical cycles and concept of limiting factors.
- understand ecological adaptations such as Morphological, physiological and behavioural adaptations in animals in different habitats.
- understand and explain Population, its characteristics and regulations of population.
- understand Natural Resources and differentiate between Renewable and nonrenewable natural resources and their conservations.
- understand environmental issues, their causes, impact and control of environmental pollution.

ZOO –II B: BIODIVERSITY-II (ARTHROPODA TO HEMICHORDATA)

Through this course students will be able to

- create appreciation on diversity of life on earth
- understand different levels of biological diversity
- familiarize taxa level identification of animals

- learn biodiversity estimation techniques
- create interest for conservation of biodiversity

COURSE EPC II UNDERSTANDING THE SELF

Through this course students will be able to

- Discover and develop open-mindedness, the attitude of a self-motivated learner, having self-knowledge and self-restraint.
- Develop the capacity for sensitivity, sound communication skills and ways to establish peace and harmony.
- Develop the capacity to facilitate personal growth and social skills in their own students.

COURSE 7 DRUG ABUSE: PROBLEM, MANAGEMENT AND PREVENTION

Through this course students will be able to

- Know the nature and extent of Drug Abuse in India and Punjab.
- Recognize the various consequences of Drug Abuse

SEMESTER III

COURSE 1 UNDERSTANDING EDUCATION AND ITS PERSPECTIVES

Through this course students will be able to

- Develop an insight into the fundamentals of Education.
- Understand the interdisciplinary nature of Education.
- Reflect upon the educational thoughts of Indian and Western thinkers.
- Critically examine the issues and concerns of education in the socio-cultural contexts of India.
- Understand the role of different agencies in promoting socialization.
- Correlate School with Societal needs.

COURSE 2 GENDER, SCHOOL AND SOCIETY

Through this course students will be able to

- Develop an insight into the different gender issues and concerns in the society.
- Understand various Constitutional provisions related to gender.
- Identify various efforts taken by different agencies to tackle gender issues in India.
- Perform his/her role for minimizing gender inequalities in the society.

COURSE 3 ENGLISH

Through this course students will be able to

- Analyse the knowledge of grammar and vocabulary
- Consider and comprehend the unseen passages and learn the art of various types of writing
- Develop skills to evolve ideas into expressions
- Apply the learnt skills in constructive writing

COURSE 4 PUNJABI

Through this course students will be able to

- Provide an introduction for language skills and enhance literary skills too.
- Analyse the Punjabi literature related plays and biography of eminent writers

Course 5, 6, 7 Stream 1 (PHYSICS)

PAPER A- STATISTICAL PHYSICS & THERMODYNAMICS

- To enable the students to understand Basic ideas of Statistical Physics
- To enable the students to understand Comparison of M.B, B.E and F.D statistics
- To enable the students to understand entropy
- To enable the students to understand Maxwell Thermodynamics relations

PAPER B- OPTICS AND LASERS

- To enable the students to understand Interference of Light
- To enable the students to understand Diffraction
- To enable the students to understand Polarization
- To enable the students to understand Laser Fundamentals

Course 5, 6, 7 Stream 1&2 (CHEMISTRY)

ORGANIC CHEMISTRY-II

Through this course students will be able to

- To enable the students to understand Stereochemistry Organic Compounds
- To enable the students to understand Isomerism
- To enable the students to understand Alcohols
- To enable the students to understand Phenols
- To enable the students to understand Preparation of Aldehydes and Ketones
- To enable the students to understand Properties of Aldehydes and Ketones and Coupling reaction using Transition metal/metal complexes (formation of C-C bonds)

PHYSICAL CHEMISTRY-II

- Through this course students will be able to
- To enable the students to understand First Law of Thermodynamics
- To enable the students to understand Kirchhoff's equation.
- To enable the students to understand Second Law of Thermodynamics and Third Law of Thermodynamics
- To enable the students to understand Concept of Entropy, Introduction to Phases

MATHEMATICS PAPER-I: ANALYSIS

PAPER-II: ANALYTICAL GEOMETRY

Through this course students will be able to

- Draw the differences between various Comparison Tests like Cauchy's root test, Raabe's test, logarithmic test, De Morgan's and Bertrand's test.
- Know about Theorems on limits of sequences.
- Recognize about Parabola, Ellipse and hyperbola along with their properties.
- Understand about Transformation of axes, Rotation of axes in two dimension and three dimensions
- Comprehend the concepts like Intersection of three planes, Intersection of a line and a sphere

Course 5, 6, 7 Stream 2(BOTANY)

PAPER III-A: STRUCTURE, DEVELOPMENT AND REPRODUCTION IN FLOWERING PLANTS-I

Through this course students will be able to

- understand structure, development and reproduction in flowering plants with diagram.
- understand root system and draw well labelled diagrams related to vegetative reproduction in plants.
- understand and draw well labelled diagrams related to structure and function of anther and pistil in plants.
- understand and draw well labelled diagrams related to double fertilization in plants.

PAPER -III B: STRUCTURE, DEVELOPMENT AND REPRODUCTION IN FLOWERING PLANTS-II

Through this course students will be able to

- understand the Root System, differentiation of primary and secondary tissues and their roles;
- understand structural modification for storage, respiration, reproduction and for interaction with microbes.
- understand Vegetative Reproduction and various methods of vegetative propagation.
- know about Flower structure, development and varieties of flower and its functions
- understand the structure of anther and pistil
- know about types of pollination
- understand the concept of double fertilization:
- know about the significance of Seed

Course 5, 6, 7 Stream 2(ZOOLOGY)

ZOO -III A: EVOLUTION

Through this course students will be able to

- To enable the students to understand about the concept of Evolution.
- To enable the students to understand about the origin of life and concept of micro, macro

and mega evolution.

- To enable the students to get a thorough knowledge about fossils, evolutionary rate and evolution of man.
- To enable the students to understand the concept of migration in birds and pisces.

ZOO –II B: BIODIVERSITY-III (CHORDATES)

- Through this course students will be able to
- To enable the students to understand about urochordates and cephalochordates
- To enable the students to understand about cyclostomata and pisces and also to draw the well labelled diagrams of type animals
- To enable the students to understand about the characteristics of amphibians and reptiles.
- To enable the students to understand about the type animals of aves and mammals and also to draw the diagrams of their systems.

SEMESTER IV

COURSE 1 LANGUAGE PROFICIENCY AND COMMUNICATION SKILLS

Through this course students will be able to

- Understand the concept and process of communication.
- Enhance his/her skills of listening, speaking, reading and writing.
- Develop the required communication skills necessary for classroom interaction.
- Develop a thorough understanding of linguistics and paralinguistics skills.

COURSE 2 ENGLISH

Through this course students will be able to

- Understand the art of reading and comprehending stories and prose
- develop the skill of advanced grammar and composition
- inculcate humane values and ethics through the given poem
- engage in the praxis of applying those theoretical and philosophical underpinnings for the analysis of a particular poem
- learn grammar as a rule governed behaviour

COURSE 3 PUNJABI

Through this course students will be able to

- Speculate and acquire the basic knowledge of Punjabi literature, grammar, and composition.
- Analyse the difference between prose and poetry.
- Trace and learn the skill of writing in Punjabi.
- Deduce literal comprehension of the texts.

Course 4, 5, 6 Stream 1(PHYSICS)

PAPER A- QUANTUM MECHANICS

Through this course students will be able to

- understand the failure of classical physics at the microscopic level
- understand Basic non-relativistic Quantum Mechanics
- describe Matrix representation of Quantum Mechanics
- Apply principles of Quantum Mechanics to calculate observables for given wave functions
- Solve Schrodinger equation for simple systems like simple harmonic oscillator, hydrogen atom, particle in a box, etc.

PAPER B- ATOMIC AND MOLECULAR SPECTRA

Through this course students will be able to

- describe the atomic spectra, Types of spectra, Light sources, Spectral analysis,
- describe Bohr's Theory
- describe the atomic spectra of one, two and many valance electron atoms.
- explain the change in behavior of atoms in external applied electric and magnetic field.
- explain rotational, vibrational, electronic and Raman spectra of molecules.
- Describe electron spin and nuclear magnetic resonance spectroscopy and their applications.
- explain X-ray spectra, Mosley law, Absorption spectra and Auger effect
- Describe exclusion principle, shells, subshells in atoms, atomic spectra (Helium).
- Elaborate spectra of alkaline earth atoms, LS coupling, selection rules, Regularities in atomic spectra.

Course 4, 5, 6 Stream 1&2(CHEMISTRY)

INORGANIC CHEMISTRY-III

Through this course students will be able to

- know about Coordination Compounds and its Nomenclature of coordination compounds,
- explain Werner's coordination theory and its experimental verification, effective atomic number, polydentate, chelating ligands and chelation, factors affecting stability of chelates
- describe Magnetic properties and colour of coordination compounds.
- Explain Physical properties of a solvent and their role in chemical reaction.
- describe types of solvents and their general characteristics,
- Elaborate Oxidation and Reduction Oxidation-reduction as electron transfer reaction, oxidation number, redox reactions,
- explain methods of separation of lanthanide from each other, Electronic absorption and uses of lanthanides
- explain essential and trace elements in biological processes, essential bulk elements and their role in biological processes.
- know about importance of trace elements in biology.

ORGANIC CHEMISTRY-III

Through this course students will be able to

- explain Carboxylic Acids, its nomenclature, Structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength.

- explain Structure and nomenclature of acid chlorides, esters, amides and acid anhydrides, Relative stability & reactivity of acyl derivatives.
- describe nomenclature of ethers and methods of their formation, physical properties.
- explain heterocyclic Compounds Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine.
- describe preparation of nitroalkanes and nitroarenes
- explain organomagnesium compounds
- explain organozinc and organo copper Compounds its nomenclature, structural features, methods of formation and chemical reactions.

Course 4, 5, 6 Stream 1 MATHEMATICS

PAPER-I: STATICS AND VECTOR CALCULUS

PAPER-II: SOLID GEOMETRY

Through this course students will be able to

- Apply numerical methods to obtain approximate solutions to mathematical problems
- Demonstrate precise and proficient use of complex functions continuity, differentiability
- Know about parallelogram law, triangle law, polygon law, Lami's Theorem, $(\lambda-\mu)$ theorem, Vector differentiation, Vector identity and Vector integration
- Understand the concept of Cylinder as surface generated by a line moving parallel to a fixed line and through fixed curve.
- Understand about the concept of Cone with a vertex at the origin as the graph of homogeneous equation of second degree in x, y, z

Course 4, 5, 6 Stream 2(BOTANY)

PAPER IV-A: DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATICS-I

Through this course students will be able to

- understand structure, development and reproduction in flowering plants with diagram.
- understand root system and draw well labelled diagrams related to vegetative reproduction in plants.
- understand and draw well labelled diagrams related to structure and function of anther and pistil in plants.
- understand and draw well labelled diagrams related to double fertilization in plants.

PAPER -IV B: DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATICS-II

Through this course students will be able to

- explain angiosperm taxonomy, its aims and fundamental components
- explain Botanical nomenclature
- explain major contribution of cytology
- describe diversity of flowering plants as illustrated by members of the families
- explain diversity of flowering plants as illustrated by members of the families Apocynaceae, Asclepiadaceae, Solanaceae, Lamiaceae, Chenopodiaceae, Euphorbiaceae, Liliaceae, Orchidaceae and Poaceae.

Course 4, 5, 6 Stream 2(ZOOLOGY)

ZOO –IV A: BIOCHEMISTRY

Through this course students will be able to

- To enable the students to understand biochemistry and biotechnology and draw well labelled diagrams related to plant biochemistry and plant biotechnology
- To enable the students to understand plant enzymology and draw well labelled diagrams related to plant enzymology.
- To enable the students to understand plant respiration and draw well labelled diagram related to plant respiration
- To enable the students to understand nitrogen and lipid metabolism.
- To enable the students to understand genetic engineering in plants and draw well labelled diagrams related to genetic engineering.
- To enable the students to understand biotechnology of plants and draw well labelled diagrams related to plant biotechnology.

ZOO –IV B: ANIMAL PHYSIOLOGY

Through this course students will be able to

- know about digestion of dietary constituents
- know about various Respiration processes and transport of O₂ and CO₂, Haldane effect and control of breathing.
- understand Heart, its origin and regulation of heart beat, cardiac cycle, electrocardiogram, cardiac output, Blood pressure and micro-circulation.
- understand Blood, Composition and functions of blood and lymph.
- explain excretion: Urine formation and osmoregulation.
- understand Muscles: Ultrastructure, chemical and physical basis of skeletal muscle contraction.
- understand and elaborate Structure and physiology of thyroid, parathyroid, adrenal, hypothalamus, pituitary, pancreas and gonads.

COURSE EPC III - DRAMA AND ART IN EDUCATION

Through this course students will be able to

- Develop imagination and sense of appreciation of art and interest in art.
- Develop aesthetic sense.

- Prepare effective teaching aids.
- Gain basic knowledge about colour scheme.
- Use drama processes to examine their present and to generate new knowledge
- Understand the world and themselves in it.

COURSE 7 ENVIRONMENTAL STUDIES

Through this course students will be able to

- Discuss on objective and Need of Environment Education.
- Reflect Importance of environment education in School Curriculum.
- Appreciate the Role of Various media in environment education.
- Analyse Environment crisis.
- Organize different Activities related to Environment Education
- Perform activities for awareness of Environment Education.
- Utilize the acquired knowledge to maintain the environmentally friendly philosophy with sustainability of various environmental resources. Also, to create awareness amongst others to keep the environment safe and clean.

PGDCA (1-year programme)

PROGRAM LEARNING OUTCOMES

- Demonstrate the technical knowhow in field of IT Application.
- Design and develop basic IT Application as per customer requirements.
- Work as a team member and team leader as an when needed.
- Render efficient skills to climb the hierarchy of an organization.
- Exhibit skills for a continuous and lifelong learning.
- Understand and dispatch his Professional and Ethical responsibilities towards self and society at large.

PROGRAM SPECIFIC OUTCOMES

- To train graduate students in basic computer technology concepts and information technology applications.
- To enhance their career opportunities in the software development sector in the state.
- Java being the current programming language taught in the course, it will help students to develop confidence in handling information applications.
- To enable students to decide in choosing the options available if the students wishes to go for further studies
- To expose the students to Open Source technologies so that they become

familiar with it and can seek appropriate opportunity in trade and industry.

- To give hands on to students while developing real life IT application as part of the study.

COURSE LEARNING OUTCOMES

SEMESTER I

COURSE 1 FUNDAMENTALS OF COMPUTER & OPERATING SYSTEMS

Through this course students will be able to

- Acquire the basic knowledge of computer and its various applications, Components and Input-output devices.
- Explain about Windows 95 and its various utilities in daily lives.
- Acquaint with various practical skills of how to operate DOS.

COURSE 2 PC COMPUTING (MS OFFICE & DTP)

Through this course students will be able to

- Assess practical knowledge about MS Office, Excel and MS Access.
- Know about all the concepts regarding Desktop Publishing.

COURSE 3 INTRODUCTION TO SCRIPTING LANGUAGES AND WEB DESIGNING

Through this course students will be able to

- Know about all the basic concepts of Internet including Web Browser and various Protocols.
- Practically add hyperlinks to their pages, publishing their web pages and adding navigation bars to their pages.

COURSE 4 PROGRAMMING IN C

Through this course students will be able to

- Know about various Data Types, Operators, their precedence, expressions and their evaluation.
- Recognize how to declare arrays, initialize arrays, process arrays and pass arrays as arguments to functions.

SEMESTER II

COURSE 1 COMPUTER AIDED TEACHING

Through this course students will be able to

- Understand the Meaning and Concept Behind Teaching, Learning,

Programmed Learning.

- Well verse with usage of computers in daily lives.
- Know how to use computers in making records and register.

COURSE 2 DATABASE MANAGEMENT SYSTEM, SYSTEM ANALYSIS & DESIGN

Through this course students will be able to

- Explain about database Management and Relational database systems.
- Assess practical knowledge about ORACLE 8 and PL/SQL.