

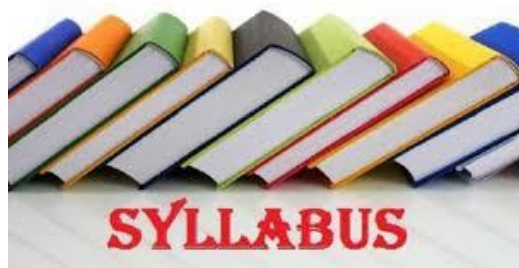
**ST. XAVIER'S COLLEGE OF EDUCATION
(AUTONOMOUS)**

[Re-accredited (4th Cycle) at 'A+' Grade by NAAC]

Palayamkottai - 627 002, Tirunelveli, Tamil Nadu, India



B.ED.



2022-2024

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Semester I

Course I: Philosophical Foundations of Education

B.Ed.: Sem. I

Course Code: BCPF

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. grasps the concept of education and its premises
2. comprehends the concept of philosophy of education and educational philosophy
3. imbibes the importance and role of education in the Indian society
4. acquires knowledge on Eastern and Western schools of philosophy
5. familiarizes with the educational system in ancient and contemporary India

Unit I: Education: Nature and Aims (L.10, T.2, P.3)

Education: Meaning, definition, concept, nature and purpose - UNESCO: Pillars of Education - Aims of Education: Individual, social and vocational - Types of Education: Formal, informal and non-formal Education - Functions of Education

Unit II: Philosophy and its Schools (L.10, T.2, P.3)

Philosophy: Meaning, definition and nature - Philosophy of Education: Meaning, definition, scope and branches - Educational Philosophy: Meaning, definition - Relation between Philosophy and Education - Different Schools of Philosophy: Idealism, naturalism, pragmatism, realism, humanism and their educational implications

Unit III: Educational Thinkers (L.9, T.2, P.3)

Eastern thinkers: Thiruvalluvar, Swami Vivekananda, Rabindranath Tagore, J. Krishnamurthi and Maulana Abul Kalam Azad - Western thinkers: Froebel, Rousseau, John Dewey and Maria Montessori

Unit IV: Education in Pre-Independent India (L.11, T.2, P.3)

Vedic, Buddhist and Islamic System of Education - Christian Contribution to Education - British System of Education: Charter Act of 1813, Macaulay's Minutes (1835), Filtration Theory, Wood's Despatch (1854), Hunter Commission (1882) - Wardha Scheme of Education (1937)

Unit V: Education in Post Independent India (L.10, T.2, P.3)

University Education Commission 1948-49 (Dr. S. Radhakrishnan) - Secondary Education Commission 1952-53 (Dr. A.L. Mudaliar) - Indian Education Commission 1964-66 (Dr. D.S. Kothari) - National Policy on Education 1986 - Revised National Policy on Education 1992 - National Knowledge Commission (NKC) 2005

Practicum (any two)

1. Compare and contrast the educational thoughts of any two philosophers.
2. Create a digital presentation on any one of the topics.
3. Identify the strategies to strengthen the pillars of education to live together.

4. Prepare a reflective report on Montessori schools at present.
5. Write a reflective report on the role of Maulana Abul Kalam Azad in modernizing Indian Education.

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Course II: Educational Psychology - I

B.Ed.: Sem. I

Course Code: BCEP1

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. acquires knowledge of educational psychology
2. acquaints with the concepts of growth and development
3. familiarizes with cognitive process
4. understands different dimensions of development
5. applies the theories of learning in enhancing learning

Unit I: Nature of Educational Psychology (L.8, T.2, P.3)

Psychology: Meaning, definition and branches - Methods: Introspection, Observation, Case study and Interview - Educational Psychology: Meaning, definition, nature, scope and significance

Unit II: Human Growth and Development (L.8, T.2, P.3)

Growth and development: Concept, meaning, definition and general principles - Distinction among growth, development and maturation - Interaction between nature and nurture - Dimensions of development: Physical, cognitive, emotional, social and moral - Phases of development and developmental tasks: Infancy, childhood and adolescence

Unit III: Cognitive Development and Process (L.12, T.2, P.3)

Theories of Cognitive Development: Piaget and Bruner - Cognitive process: Attention and factors relating to attention - Kinds of attention: Inattention, distraction, division of attention and span of attention - Sensation - Perception: Factors relating to perception and perceptual errors - Concept formation: Nature and types - Language, thinking, reasoning and problem solving - Role of teachers in developing Reasoning and Problem solving

Unit IV: Emotional, Social and Moral Development (L.10, T.2, P.3)

Emotional development: Meaning, emotional control and maturity - Place of emotions in life - Daniel Goleman's Theory of emotional intelligence - Social development: Meaning and factors - Social maturity - Erikson's stages of social development - Moral development: Meaning - Kohlberg's stages of moral development

Unit V: Theoretical Perspectives on Learning (L.12, T.2, P.3)

Learning: Nature and importance - Learning curve - Theories of learning: Trial and Error, classical conditioning and operant conditioning, learning by insight and Gagne's theory - Transfer of learning: Meaning, types and educational implications - Theories of transfer of learning: E.L. Thorndike's theory of identical components, Judd's theory of generalization and Bagley's theory of ideals - Learning by imitation - Carl Roger's Experiential Theory - Levels of learning - Remembering - Forgetting: Curve of forgetting

Practicum (any two)

1. Construct an observation schedule to observe the students in the class.
2. Make a review of one case study.
3. Write a reflective report by conducting an experiment to measure the attention of a subject.
4. Analyse critically the educational contribution of any one of the Psychologists.
5. Develop a digital presentation for a topic from any one of the units.

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Course III: Pedagogy of Special English - I

B.Ed.: Sem. I

Course Code: BPE1

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. acquires the concepts of language
2. gains the knowledge of micro teaching
3. familiarizes him/herself with the methodology of teaching Prose, Poetry, Grammar, Composition and Supplementary Reader
4. practises the grammatical concepts as prescribed in the Tamil Nadu Government Textbooks
5. converts sentences into different structural forms

Unit I: Language and its Features (L.10, T.2, P.3)

Concepts of language - Misconceptions of language - Definitions of language - Nature and characteristics of language - Properties of human language - Functions of language. Teaching of English: Aims of teaching English at the primary, secondary and higher secondary level - Objectives of teaching English - Need for teaching English in India - Principles of teaching English as a second language - Problems of teaching English as a second language - Suggestions to improve the quality of language teaching

Unit II: ELT Preparation at Micro Level (L.10, T.2, P.3)

Micro teaching: Meaning and definition - Steps of Micro Teaching - Micro Teaching cycle - Advantages of Micro Teaching - Skills of Micro Teaching - Episode Writing - Evaluation of Micro Teaching Skills - Micro Teaching Practice Skills: Skill of Probing Questioning, Skill of Explaining, Skill of Increasing Pupil's Participation, Skill of Closure and Skill of Using Blackboard - Link lesson - Meaning and Definition - Steps of Link Teaching Practice - Writing a lesson plan for link practice - Evaluation of link practice

Unit III: ELT Preparation at Macro Level (L.10, T.2, P.3)

Bloom's taxonomy, Revised Bloom's taxonomy of educational objectives - Formulating Instructional objectives for teaching Prose, Poetry, Grammar, Composition and Supplementary Reader - Year plan, Term plan, Unit plan and Lesson plan - Methodology of teaching of Prose, Poetry, Grammar, Composition and Supplementary Reader - Basic Components of a lesson plan - Lesson plan preparation for Prose, Poetry, Grammar, Composition and Supplementary Reader - Demonstration of macro teaching lessons - Observing Demo Teaching and recording - Introduction to Peer Teaching: Concept and advantages

Unit IV: Teaching the Grammatical Content of English (L.12, T.2, P.3)

Conjugation - Kinds of sentences - Finite and Non-finite verbs - Prefixes and Suffixes - Verbal and 'Wh' question formation - Question Tags - Active and Passive Voice - Sentence Pattern

Unit V: Teaching the Grammatical Content of English - II (Standary - XII) (L.10, T.2, P.3)

Negative formation - Verb division and sentence construction - Direct and Indirect Speech - Simple, Compound and Complex sentences - Transformation of sentences

Practicum (any two)

1. Prepare an ICT integrated lesson plan.
2. Organize a discussion on problems of teaching English and submit the report.
3. Compare the Old and the Revised Taxonomy of Objectives, and prepare ELT objectives based on the Revised Taxonomy.
4. Recite the Conjugation of a verb in Postive, Negative form with your neighbour and produce a report
5. Select a passage and identify whether the sentences are Simple or Complex or Compound

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Course III: சிறப்புத் தமிழ் கற்பித்தல் - I

B.Ed.: Sem. I

Course Code: BPT1

Credit: 3

கற்றல் விளைவுகள்:

ஆசிரிய மாணவர்

1. தமிழ்மொழி கல்வியின் சிறப்பம்சங்களை அறிந்து கொள்கிறார்
2. கற்பித்தல் திறன்கள், பயிற்சித் திறன்களை வளர்த்து கொள்கிறார்
3. பாடத்திட்டம் அமைப்பதற்கான கோட்பாடுகளைப் புரிந்துகொள்கிறார்
4. தமிழ்ப்பாடப்பொருள் கற்பித்தல் பற்றி அறிந்துகொள்கிறார்
5. தமிழ்ப்பாடப்பொருள் கற்பித்தல் கொள்கைகளைத் தெரிந்துகொள்கிறார்

அலகு I: தமிழ்மொழி கல்வியின் சிறப்புகள் (L.12, T.2, P.3)

தாய்மொழி கற்பித்தல்: நோக்கங்கள், பயன்கள் - மொழித்தோற்ற கொள்கை, சிறப்புகள்; பண்புகள் - திராவிடமொழியின் சிறப்பியல்புகள் - மொழியும் சமூகமும் - மொழி வளர்ச்சியில் சூழ்நிலையின் பங்கு - உயர்தனிச் செம்மொழி: சிறப்புகள், பண்புகள்

அலகு II: கற்பித்தல் திறன்கள் பயிற்சி (L.10, T.2, P.3)

நுண்ணிலைக் கற்பித்தல்: தோற்றம், விளக்கங்கள், படிகள், சுழற்சி, நன்மைகள், குறைபாடுகள் - திறன் விளக்கம்: கிளர்வினா, மாணவர் பங்கேற்பை அதிகரிக்கும் திறன், விளக்குதல் திறன் - நிகழ்வு எழுதப் பயிற்சி - திறன் பயிற்சி

அலகு III: பாடத்திட்டம் அமைப்பதற்கான கோட்பாடுகள் (L.10, T.2, P.3)

புளும் கோட்பாடுகள் - திருத்தியமைக்கப்பட்ட புளும் கோட்பாடுகள் - ஹெர்பார்டின் படிகள் - ஆண்டுத்திட்டம் - அலகுத்திட்டம்: அமைப்பு, இன்றியமையாமை, பயன்கள் - பாடத்திட்டம்: நோக்கங்கள், அமைக்கும் முறைகள் மற்றும் உட்கூறுகள், நன்மைகள் - மாதிரிப் பாடத்திட்டம் எழுதப் பயிற்சி

அலகு IV: செய்யுள், உரைநடைப்பாடப் பொருள் கற்பித்தல் (L.8, T.2, P.3)

இன்பத்தமிழ் - தமிழ்க்கும்மி - திருக்குறள் - அறிவியல் ஆத்திசூடி - அறிவியல் ஆள்வோம் - கணினியின் நண்பன் - ஒளிபிறந்தது - மூதுரை - நூலகம் நோக்கி - ஆசாரக்கோவை - கடலோடு விளையாடு பராபரக்கண்ணி - ஆசியஜோதி (ஆறாம் வகுப்பு பாடப்பொருள்.)

அலகு V: இலக்கணப்பாடம், துணைப்பாடப்பொருள் கற்பித்தல் (L.10, T.2, P.3)

தமிழ் எழுத்துக்களின் வகையும் தொகையும் - முதலெழுத்தும் சார்பெழுத்தும் - மொழி முதல் இறுதி எழுத்துகள் - இன எழுத்துக்கள் - மயங்கொலிகள் - சுட்டு எழுத்துக்கள், வினா எழுத்துக்கள் - நால்வகைச் சொற்கள் - பெயர்ச்சொல் - அணி இலக்கணம் (ஆறாம் வகுப்பு பாடப்பொருள்.)

செய்முறை பயிற்சிகள் (ஏதேனும் இரண்டு)

1. தமிழ் எண் பட்டியல் தயாரித்தல்.
2. சொற்களஞ்சிய தொகுப்பு தயாரித்தல்.
3. வலிமிகும், வலிமிகா இடங்களைப் பட்டியலிடுக.
4. அலகுத்திட்டம் தயாரித்தல்.
5. ஆண்டுத்திட்டம் தயாரித்தல்.

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Course III: Pedagogy of Computer Science - I

B.Ed.: Sem. I

Course Code: BPC1

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. understands the aims and objectives of teaching Computer Science
2. masters the teaching skills of Computer Science
3. familiarizes with the different instructional methods in teaching Computer Science
4. acquires the content and constructs knowledge of Standard XI Computer Science
5. develops knowledge of word processor, spreadsheet of Standard XI Computer Science textbook

Unit I: Aims and Objectives of Teaching Computer Science (L.10, T.2, P.3)

Teaching of Computer Science: Aims, objectives, need, values - Bloom's taxonomy of Educational objectives, Revised Bloom's Taxonomy (Anderson and Krathwohl) - Computer Science teaching at different levels of schools: Primary, Secondary and Higher Secondary

Unit II: Techniques of Teaching (L.10, T.2, P.3)

Microteaching: Meaning and cycle - Skill of probing questions, Skill of explaining, Skill of increasing pupils participation, Skill of closure, Skill of use of black board and Skill of reinforcement - Link lesson - Lesson plan - Unit plan

Unit III: Instructional Methods and Aids (L.14, T.2, P.3)

Instructional methods: Individulised Instruction, Programmed Instruction, Computer Assisted Instruction, Computer Managed Instruction, Lecture method, Demonstration method, Problem solving method, Project method, Analytic and Synthetic methods of instruction, Inductive and Deductive methods - Instructional aids: Meaning, use and importance, principles, classification of AV aids, Multimedia presentation - Computer Science club

Unit IV: Fundamentals of Computer and Working with a Typical Operating Systems (Windows & Linux) (Standard - XI, Vol. I) (L.8, T.2, P.3)

Introduction to computers - Number systems - Computer organization - Theoretical concepts of operating system - Working with typical operating system: Working with Windows and Working with Linux - Algorithmic problem solving: Specification and abstraction - Composition and Decomposition - Iteration and Recursion

Unit V: Applications of Computer Science (Standard - XI, Vol. II) (L.8, T.2, P.3)

Introduction to Word Processor - Inserting tables, Objects and Printing document - Mail Merge & Additional Tools - Introduction to Spreadsheet - Functions and Chart - Data tools and Printing - Presentation Basics - Presentation Advanced - Computer Network - Internet and Email

Practicum (any two)

1. Develop a CAI package for a topic from Standard XI textbook.
2. Write a branching program for any one of the topics from Standard XI textbook.
3. Evaluate an educational website and submit the report.
4. Prepare different charts using MS Excel for the achievement of your classmates in I CIA.
5. Draw a mind-map for a topic from Standard XI textbook.

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Course III: Pedagogy of Mathematics - I

B.Ed.: Sem. I

Course Code: BPM1

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. understands the nature of Mathematics
2. acquires the aims and objectives of teaching Mathematics
3. improves his/her competencies in teaching secondary level Mathematics
4. masters the various instructional strategies and their appropriate use in teaching Mathematics at the secondary level
5. acquaints with the basic concepts of Mathematics

Unit I: Nature and Values of Mathematics Education (L.6, T.2, P.3)

Nature of Mathematics: Precision and accuracy, logical sequence, abstractness, symbolism and logical structure of Mathematics - Values of teaching Mathematics: Practical, social, cultural and disciplinary - Integration of Mathematics with other disciplines (Science, Social Science, Language and Literature, Art and Architecture)

Unit II: Aims and Objectives of Teaching Mathematics (L.12, T.2, P.3)

Aims and objectives of teaching Mathematics at primary, secondary and higher secondary levels - Bloom's taxonomy of educational objectives, Revised Bloom's Taxonomy (Anderson and Krathwohl) - Writing GIOs and SIOs - Year plan - Unit plan, lesson plan: Preparation, characteristics, steps and advantages - Herbartian steps

Unit III: Instructional Strategies (L.14, T.2, P.3)

Microteaching: Meaning and cycle - Skill of probing questioning, skill of explaining, skill of increasing pupils participation, skill of closure, skill of use of black board and skill of reinforcement - Link lesson - Inductive and deductive methods - Analytic and synthetic methods - Heuristic and project methods - Problem solving method - Activity Based Learning (ABL) - Active Learning Method (ALM) - Applications of ABL and ALM

Unit IV: Algebra, Trigonometry, Set language Types and Real Numbers (L.9, T.2, P.3)

Algebra: Remainder theorem, algebraic identities, factorization - Trigonometry: Special angles and complementary angles - Set language: Set operations and properties - Real Numbers: Rational number, Irrational number, Rationalization of surds

Unit V: Coordinate Geometry, Mensuration, Probability (L.9, T.2, P.3)

Coordinate Geometry: Distance between two points, the mid point and point of trisection of line segment, section formula - Mensuration: Heron's Formula and its application, Surface area and volume of Cuboid and Cube - Probability: Classical and Empirical Approach, Types of Events

Practicum (any two)

1. Develop a unit plan from the content of Standard IX.
2. Prepare an album on how Mathematics is correlated with other subjects.
3. Critically analyze the old and revised Bloom's Taxonomy.
4. Write an ALM lesson plan.
5. Analyze the relevance of School content with real life situations.

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Course III: Pedagogy of Physical Science - I

B.Ed.: Sem. I

Course Code: BPP1

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. acquires the knowledge of the nature and scope of Physical Science
2. understands the objectives of teaching Physical Science in secondary and higher secondary schools
3. recognizes the skills relating planning the lessons and presenting them effectively
4. applies the knowledge of the various techniques and methods of teaching of Physical Science
5. masters the knowledge about physical and chemical nature of matter

Unit I: Nature and Scope of Physical Science (L.7, T.2, P.3)

Physical Science: Nature and Scope: Science as a Product, a Process, a Way of Knowledge, a Way of Investigation and a Way of Thinking - Values of Teaching Physical Science - Developing Scientific Attitude and Scientific Temper - Correlation among various Branches of Science - Interdisciplinary approach

Unit II: Aims and Objectives of Teaching Physical Science (L.16, T.2, P.3)

Aims and objectives of teaching Physical Science: Primary, Secondary, Higher Secondary - General and Specific Objectives of Teaching Physical Sciences - Bloom's Taxonomy of Educational Objectives (Cognitive, Affective and Psychomotor) - Revised Bloom's Taxonomy (Anderson and Krathwohl) - Year Plan - Unit Plan - Lesson Plan - Criteria of a Good Lesson Plan - Herbartian Steps

Unit III: Techniques and Methods of Teaching Physical Science (L.15, T.2, P.3)

Microteaching: Meaning and Cycle - Skill of Probing Questioning, Skill of Explaining, Skill of Increasing Pupils Participation, Skill of Closure, Skill of Use of Black Board and Skill of Reinforcement - Link Lesson - Teacher-Centered Methods: Lecture and Lecture cum Demonstration - Pupil-Centered Methods: Heuristic, Scientific, Programmed Learning, Project, Assignment, Problem Solving, Computer Assisted Instruction (CAI), Activity Based Learning (ABL) and Active Learning Method (ALM)

Unit IV: Fundamental Principles in Physics (L.6, T.2, P.3)

Fluids: Thrust and Pressure, Pressure in Fluids, Atmospheric Pressure, Pascal's Law, Density, Buoyancy, Archimede's Principle, Laws of Floatation - Electric Charge and Electric Current: Meaning and Definition, Electric Circuit diagrams and Types of Current - Magnetism and Electromagnetism: Magnetic Flux, Magnetic Field Lines, Electric Motor, Electric Generator, Transformer and Applications of Electromagnets

Unit V: Fundamental Principles in Chemistry (L.6, T.2, P.3)

Chemical Bonding: Kossel-Lewis Approach, Lewis Dot Structure and Types - Oxidation, Reduction and Redox Reactions - Periodic Classification of Elements: Modern Periodic Table - Metals, Non-metals and Metalloids - Alloys - Atomic Structure: Discovery of Nucleus, Neutrons - Atomic and Mass Number - Laws of Chemical Combination

Practicum (any two)

1. Identify any two superstitious beliefs and prepare a reflective report about the science and myths behind it.
2. Critically analyze the Old and Revised Bloom's Taxonomy.
3. Prepare a unit plan for any one of the Physical Science units from Standard IX Science textbook.
4. Write an episode for the skill of using black board by selecting a topic from IX Standard textbook.
5. Draw a Mind-map for a topic from Standard IX Science textbook.

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Course III: Pedagogy of Biological Science - I

B.Ed.: Sem. I

Course Code: BPB1

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. understands the nature, scope, aims and objectives of teaching Biological Science
2. comprehends the methods and techniques of teaching Biological Science
3. develops necessary competence in teaching for macro and micro level
4. identifies the different types of microorganisms
5. acquaints with the importance of medicinal plants and their uses

Unit I: Nature, Scope, Aims and Objectives of Biological Science (L.10, T.2, P. 3)

Biological Science: History, nature and scope - Concept: Process and product - Values of teaching Biological Science - Inter-correlation with other subjects - Impact of Biological Science on community - Aims and objectives of teaching Biological Science at different levels: Primary, secondary and higher secondary - Benjamin Bloom's approach to the taxonomy of educational objectives - Revised Bloom's Taxonomy (Anderson and Krathwohl)

Unit II: Methods and Techniques of Teaching Biological Science (L.12, T.2, P. 3)

Criteria for selection of a method: Levels of the class, size of the class, time availability and subject matter - General methods of teaching Biological Science: Lecturer method - Demonstration method - Scientific method - Project method - Heuristic method - Biographical and Assignment method - Activity Based Learning (ABL) - Active Learning Methods (ALM) - Programmed Learning Methods (PLM) - Development of programmed learning material - Teaching machines - Computer Assisted Instruction (CAI) - Modular approach

Unit III: Teaching Preparation at Macro and Micro level (L.12, T.2, P. 3)

Lesson plan: Essential features of lesson plan, Preparing lesson plan, steps in lesson planning (Herbartian) - Unit plan: Steps, characteristics - Distinguishing lesson plan and unit plan - Year plan - Semester plan - Trimester plan - Microteaching: Meaning and cycle - Skill of probing questioning, skill of explaining, skill of increasing pupil's participation, skill of closure, skill of use of black board and skill of reinforcement - Link lesson

Unit IV: Microorganisms - Standard VIII (L-7, T-2, P-3)

Virus: Structure and Characteristics - Bacteria: Cell structure - Fungi: Cell structure of Yeast - Algae: Cell structure of Chlamydomonas - Protozoa: Cell structure - Prions - Virions - Uses of Microorganisms: Medicine, Agriculture, Industry and in daily life - Microbes in Food Process: Food preservation and production - Harmful microorganisms: Diseases caused by microorganisms in animals, humans and relationship between man and microbes

Unit V: Plant Kingdom - Standard VIII (L-7, T-2, P-3)

Algae: Classification and Economic importance - Fungi: Classification, Economic importance and Harmful effects - Bryophytes - Pteridophytes - Gymnosperms: General characters, Classification and Economic importance - Angiosperms: General characters and Classification - Characteristic features of Dicotyledons and Monocotyledons - Taxonomy: Classification - Artificial and Natural system - Binomial Nomenclature - Outline of Bentham and Hooker's system - Uses of medicinal plants

Practicum (any two)

1. Prepare a digital presentation for a topic from any one of the units.
2. Design a unit plan for a unit in Biology.
3. Develop an e-lesson plan.
4. Produce a reflective report on diseases caused by microorganisms in humans.
5. Collect and preserve various medicinal plants in your area.

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Course III: Pedagogy of History - I

B.Ed.: Sem. I

Course Code: BPH1

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. acquires knowledge of the concept History
2. understands the objectives of teaching History at varied levels
3. develops competence in employing different methods of teaching
4. gets acquainted with content knowledge of History
5. analyses the different forms of Government and Electoral system

Unit I: History: Meaning, Nature and Scope (L.10, T.2, P.2)

History: Meaning, definition and different concepts - Nature of History - Dimensions of History: Time, place, ideas, continuity and development - Correlation: Meaning, types and importance - Correlation of History with other subjects - Values of learning History: Disciplinary, practical, cultural and ethical

Unit II: Objectives of Teaching History and Lesson Planning (L.10, T.2, P.3)

Aims and objectives of teaching History at different levels: Primary, secondary and higher secondary - Bloom's taxonomy of educational objectives - Revised Bloom's Taxonomy (Anderson and Krathwohl) - Writing instructional objectives - Planning: Year plan, Unit plan, Lesson Plan and its importance - Preparation of year plan, unit plan and lesson plan

Unit III: Teaching Strategies in History (L.10, T.2, P.4)

Microteaching: Meaning and cycle - Skill of probing questioning, skill of explaining, skill of increasing pupils participation, skill of closure, skill of use of black board and skill of reinforcement - Link lesson - Traditional methods: Lecture - Story Telling - Biographical and Textbook - Dramatization - Modern Methods: Programmed learning - Computer Assisted Instruction (CAI) and Team teaching

Unit IV: World's Early History (Standard - IX) (L.10, T.2, P.3)

Evolution of humans and society - Prehistoric period: Origin of the earth, the geological ages - Prehistory: Human evolution and migration - Prehistoric cultures: Lower, middle and upper Palaeolithic, Mesolithic and Neolithic - Prehistoric Tamilagam: Lower and middle, Palaeolithic, Mesolithic, Neolithic and Megalithic periods - Ancient civilisations: Egyptian, Mesopotamian, Chinese and Indus valley - Early Tamil society and culture: Sources for the study - Sangam age: Polity, society, economy, towns and ports, faith and belief system and culture of arts

Unit V: Government and Electoral System (Standard - IX) (L.10, T.2, P.3)

Forms of Government and Democracy - Government: Meaning and forms - Aristocracy, monarchy, autocracy, oligarchy, theocracy, democracy and republic -

Democracy: Meaning, definition, salient features, evolution, types, merits and demerits, democracy in India and major challenges to Indian democracy - Election, political parties and pressure groups - Electoral system in India: Constitutional provisions, process, types, NOTA - Political parties: Meaning, types and role of opposition party - Pressure group : Meaning, categories and functions - Mobilizing people towards socially productive activities

Practicum (any two)

1. Prepare a digital presentation for a topic from any one of the units.
2. Write a drama based on a historical event.
3. Read a biography of a historian and submit a report.
4. Prepare a picture album of ancient civilizations.
5. Sketch a unit plan for any one of the unit from Standard IX syllabus.

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Course IV: Pedagogy of General English - I

B.Ed.: Sem. I

Course Code: BPGE1

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. acquires the knowledge of micro teaching skills
2. constructs general and specific objectives for teaching English
3. develops the skill of writing lesson plans for prose, poetry, grammar, composition and supplementary reader
4. prepares a diagnostic test question paper
5. constructs an achievement test question paper

Unit I: ELT at Micro Level (L.10, T.2, P.3)

Introduction to micro teaching - Explanation of micro teaching skills and their components - Demonstration of three micro teaching skills - Episode writing for teaching and re-teaching - Practicing three micro teaching skills - Introduction to link practice teaching - Lesson plan writing for link practice - Practicing link lesson

Unit II: Methodology of Teaching Prose (L.10, T.2, P.3)

Instructional objectives: Meaning, significance, formulation of instructional objectives based on Bloom's taxonomy and LSRW skills, differences between general instructional objectives and specific instructional objectives - Teaching of prose: Objectives, stages of teaching prose, steps involved in teaching prose, selecting the unit of teaching, writing a lesson plan for the selected prose unit, significance of preparing an outline to write the first draft, to review the first draft and to finalize the fair draft - Teaching of vocabulary: Types of vocabulary - Techniques of teaching and improving vocabulary - Peer teaching: Concept, merits, practice teaching and critical observation

Unit III: Methodology of Teaching Poetry (L.10, T.2, P.3)

Teaching of poetry: Objectives, stages and steps involved in teaching poetry, selecting the unit, writing of lesson plan for a poetry unit - Comparisons and contrasts of prose and poetry - Demonstration of Poetry Teaching - Observing demo teaching and recording their observations

Unit IV: Methodology of Teaching Grammar and Composition (L.8, T.2, P.3)

Teaching of grammar: Objectives, Types of grammar - Formal and Functional, Methods of teaching grammar - Deductive method and inductive method, merits and demerits of each method, Writing a lesson plan for teaching grammar - Use of mind maps in teaching grammar - Teaching of composition: Objectives and principles - Types of composition: Pictorial, guided and free, oral and written - Importance of correction, follow up, symbols commonly used in correction, advantages and disadvantages - Demonstration of Composition Teaching - Observing demo teaching and recording their observations

Unit V: Methodology of Teaching Supplementary Reader and Evaluation (L.12, T.2, P.3)

Teaching of Supplementary Reader: Objectives, steps involved in teaching supplementary reader - writing a lesson plan for supplementary reader unit - Demonstration of Supplementary Reader teaching - Observing demo teaching and recording their observations - Evaluation: Meaning, characteristics of a good test - Need for skill based evaluation - Diagnostic testing: Nature and need, Preparation of diagnostic test items in English - Achievement testing: Nature and need, Blue print preparation and Preparation of achievement test items in English

Practicum (any two)

1. Prepare a digital lesson plan.
2. Divide a lesson from Standard IX into different teaching units.
3. Prepare a list of active and passive vocabulary.
4. Prepare any three pictorial compositions.
5. Design mind maps for teaching any five grammar topics.

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Course IV: பொதுத் தமிழ் கற்பித்தல் - I

B.Ed.: Sem. I

Course Code: BPGT1

Credit: 3

கற்றல் விளைவுகள்:

ஆசிரிய மாணவர்

1. வகுப்பறை திறன்கள் வளர்த்து கொள்கிறார்
2. மொழியின் பயன்பாடுகள் பற்றி அறிந்து கொள்கிறார்
3. மொழித் திறன்களை வளர்த்து கொள்கிறார்
4. தமிழ் செய்யுள் பாடப்பொருள் கற்பித்தல் நுட்ப கூறுகளை அறிந்து கொள்கிறார்
5. தமிழ் உரைநடை, இலக்கணப் பாடப்பொருள் கற்பித்தல் பயன்களை அறிந்து கொள்கிறார்

அலகு I: வகுப்பறை திறன்கள் வளர்த்தல் (L.12, T.2, P.3)

தூண்டல் மாறுபாட்டுத்திறன், பாடம் தொடங்குதல் திறன், வலுவூட்டல் திறன், விளக்கம், பயிற்சி, நிகழ்வு எழுதுதல் - இணைப்பு பாடவிளக்கம், பயிற்சி, நிகழ்வு எழுதுதல் - நுண்ணிலை கற்பித்தல், பேரியல் கற்பித்தலுக்குமுள்ள வேறுபாடுகள் - நுண்ணிலை கற்பித்தலின் பயன்கள் - உற்றுநோக்கல்: விளக்கம், கூறுகள், பயன்கள்

அலகு II: கொள்திறன் கற்பித்தல் (L.10, T.2, P.3)

கேட்டல் திறன்: நோக்கங்கள், கேட்டல் திறனை வளர்ப்பதற்குரிய வழிகள், வகைகள் - பேசுதல் திறன்: நோக்கங்கள், பயன்கள், தொடக்க, இடைநிலைப் பள்ளிகளில் வாய்மொழிப் பயிற்சி வழியாக மொழிப்பாடம் கற்பதற்கான முறைகள், திருந்தியப் பேச்சின் தன்மைகள், திருத்தமில்லா பேச்சின் இயல்புகள், உச்சரிப்பில் ஏற்படும் சிக்கல்கள், நாநெகிழ், நாபிறழ் பயிற்சி, மூச்சுப் பயிற்சி, வாய்மொழிப் பயிற்சித் தரும் ஆசிரியரின் நல்லியல்புகள்

அலகு III: அறிதிறன் கற்பித்தல் (L.10, T.2, P.3)

வாசித்தல்: தொடக்க வகுப்பில் கற்பிக்கும் முறைகள் - வாய்விட்டு படித்தல், வாய்க்குள் படித்தல்: நோக்கங்கள், நிறைகள், குறைகள் - படிக்க பயிற்றும் முறைகள் (எழுத்து, சொல், சொற்றொடர், கண்டுசொல்லுதல், கதைமுறைகள், நிறை, குறைகள்) ஆழ்ந்த, அகன்ற படிப்பின் நோக்கங்கள், நிறைகள், குறைகள் - படிப்பில் ஆர்வத்தைத் தூண்டும் முறைகள், மனப்பாடம் செய்தலின் பயன்கள் - எழுதுதல் திறன்: நோக்கம், முதற் பயிற்சிகள், எழுது கருவிகளைப் பிடிக்கும் முறைகள், நல்ல கையெழுத்தின் நல்லியல்புகள்

அலகு IV: செய்யுள், உரைநடை பாடப்பொருள் கற்பித்தல் (L.8, T.2, P.3)

தமிழ்மொழி வாழ்த்து - தமிழ் மொழிமரபு - ஓடை - கோணக்காத்துப் பாட்டு - நோயும் மருந்தும் - வருமுன் காப்போம் - கல்வி அழகே அழகு - புத்தியைத் தீட்டு - திருக்கேதாரம் - பாடறிந்து ஒழுகுதல் - வளம் பெறுக - மழைசோறு - விடுதலை திருநாள் - ஒன்றே குலம் - உயிர்க்குணங்கள் - பால் மனம் (எட்டாம் வகுப்பு பாடப்பொருள்.)

அலகு V: இலக்கணம், துணைப்பாடப் பொருள் கற்பித்தல் (L.10, T.2, P.3)

எழுத்துக்களின் பிறப்பு - வினைமுற்று - எச்சம் - வேற்றுமை - தொகைநிலை, தொகைநிலை தொடர்கள் - புணர்ச்சி - வலி மிகும் இடம் - வலி மிகா இடங்கள் - யாப்பு இலக்கணம் - அணி இலக்கணம் (எட்டாம் வகுப்பு பாடப்பொருள்.)

செய்முறை பயிற்சிகள் (ஏதேனும் இரண்டு)

1. நா பிறழ், நா நெகிழ் பயிற்சிக்குரிய சொல், தொடர்கள் தயார் செய்க.

2. செய்யுள் பாடப்பொருளுக்கு உற்றுநோக்கல் ஒன்று எழுதுக.
3. இணைப்புப் பாடம் ஒன்று தயார் செய்க.
4. குறையறித்தேர்வு மாதிரி வினாத்தாள் தயார் செய்க.
5. மரபுச் சொற்களைப் பட்டியலிடுக.

பார்வை நூல்கள்

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6. சுப்புரெட்டியார், ந. (2000). நற்றமிழ் பயிற்றுமுறை. சிதம்பரம்: மெய்யப்பன் தமிழாய்வகம்.
7. தண்டபாணி, சு. (2012). தமிழ் - கற்பித்தல் பொதுத்தமிழ். மதுரை: மீனா பதிப்பகம்.
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Course V: Human Rights and Duties Education

B.Ed.: Sem. I

Course Code: BEHD

Credit: 2

Course Learning Outcomes:

The prospective teacher

1. acquires knowledge of human rights and duties and its types
2. masters the methods and techniques of teaching human rights education
3. comprehends the concept, meaning and theories of human rights
4. analyzes the issues related to human rights violations with regard to the marginalized sections
5. learns the role of government and non-governmental agencies in human rights and duties

Unit I: Introduction to Human Rights (L.5, T.2, P.2)

Human rights and duties: Meaning and definition - Theories of human rights: Natural, legal, social welfare, idealists and historical - Different kinds of human rights: Civil, political, economical, social and cultural - Duties of a citizen and professional ethics of a teacher - Cyber rights and duties

Unit II: Human Rights Education (L.6, T.2, P.2)

Human rights education: Meaning, need and principle - Human rights education at different levels: Primary, secondary and higher education - Methods of human rights teaching: Lecture, discussion, project, case study and role play - Use of mass media - Role of teachers in promoting human rights education

Unit III: Human Rights Acts (L.9, T.2, P.2)

Universal Declaration of Human Rights (1948) - Protection of Human Rights Act (1993) - Right to Information Act (2005) - Tamil Nadu Prohibition of Ragging Act (1997) and the Tamilnadu Prohibition of Harassment of Women Act (1998) - Sexual Harassment of Women at Work Place (Prevention, Prohibition and Redressal) Act (2013) - Right to Education Act (2009) - Transgender Act (2014)

Unit IV: Human Rights Violations (L.5, T.2, P.2)

Human rights violation against women, children, differently abled, refugees, religious minorities, SC/STs and transgenders - Policies and programmes designed to prevent such atrocities

Unit V: Role of Government and Non Governmental Agencies (L.5, T.2, P.2)

Role, structure and functions: UNO, National Human Rights Commission and State Human Rights Commission, Amnesty International, International Red Cross Society, Peoples Watch, Social Watch and AIDWA

Practicum (any two)

1. Write a review on a documentary film on human rights violation.
2. Prepare a scrap book on human rights issues.

3. Create a digital presentation on any human rights issue.
4. Organize a seminar on human rights issues and prepare a report.
5. Make a collage using newspaper cuttings on a theme about human rights violation.

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1. Bhakry & Savita. (2006). *Children in India and their Rights*. New Delhi: NHRC.
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15. Nirmal, C.J. (1990). *Human Rights in India*. New Delhi: Oxford University Press.
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Course V: Environmental Education

B.Ed.: Sem. I

Course Code: BEEE

Credit: 2

Course Learning Outcomes:

The prospective teacher

1. understands the concept, nature and scope of environmental education
2. comprehends the impact of population explosion over environment
3. applies the methods of teaching in environmental education
4. identifies the use of ICT in environmental education
5. acquires the need for conservation of natural resources

Unit I: Environment and Environmental Issues (L.6, T.2, P.2)

Environmental education: Meaning, importance and scope - Ecosystem: Meaning, Structure and Functions of different ecosystem - Disaster management: Natural and man-made disasters - Pollution: Meaning, definition and types: Air, Water, Soil, Noise and Radioactive pollution - Global environmental problems: Global warming - Green house effect - Acid rain - Depletion of Ozone layer and its effects - Urbanization - Deforestation - and Soil erosion

Unit II: Population Education (L.5, T.2, P.2)

Population Education: Meaning, Definition, Need and Objectives - Population Education in India - Role of teacher in population education - Population and Ecology: Natality and Mortality - Population explosion: Meaning, reasons and impact of population explosion over the environment

Unit III: Methods in Environmental Education (L.6, T.2, P.2)

Methods in environmental education: Discussion, seminar, workshop, problem-solving, projects, exhibitions, field trip - Role of schools, teachers and students in environmental conservation and sustainable development

Unit IV: Information Technology and Environmental Education (L.6, T.2, P.2)

Role of Information Technology in Environment: Data Base, Environmental Information System (ENVIS), Remote Sensing, Geographical Information System (GIS), Global Positioning System (GPS) and United Nations Environment Programme (UNEP) – Role of Mass Media in Environmental Education

Unit V: Environmental Management (L.7, T.2, P.2)

Natural Resources: Definition and need - Managing the natural resources - Renewable and non-renewable resources - Role of individual in conservation of natural resources: Water, Food, Energy and Forest - Waste Management: E-waste, Medical Waste, Nuclear Waste and Solid Waste - Water Management: Rain Water harvesting - Environmental Protection Act 1986 - Swachh Bharat Movement - National Disaster Management Act (2005) - Environmental Impact Assessment (2020) - Role of UN bodies and NGOs

Practicum (any two)

1. Create any two varieties of seed balls.
2. Design a collage on environmental issues.
3. Prepare a reflective report on global warming/disaster management.
4. Organize any activity of enhancing environmental awareness and submit the reflective report.
5. Write a reflective report on the contributions of any one of the Indian natural agriculturist.

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Course V: Value Education

B.Ed.: Sem. I

Course Code: BEVE

Credit: 2

Course Learning Outcomes:

The prospective teacher

1. acquires knowledge of the nature, importance and classification of values
2. understands the need and importance of promoting value education in schools
3. applies relevant strategies to promote value education
4. develops the skill of assessing values using various techniques
5. imbibes ethical qualities needed for a teacher

Unit I: Introduction to Values (L.6, T.2, P.2)

Values: Meaning, definition, nature - Personal, social, professional, moral, spiritual, cultural, aesthetic values, biological, instrumental and intrinsic values - Sources of values: Socio-cultural tradition, literature, philosophy, religion and constitution - Causes for the value crisis in the present day - solution to overcome the crisis

Unit II: Value Education in Schools (L.6, T.2, P.2)

Value Education: Meaning, definition, objectives - Status of value education in the curriculum - Need for value education in 21st century - Place of value education in the school subject - Inculcating values: Role of parents, teachers, peer group, mass media and government - Objectives of Value education at primary level, secondary level and higher secondary level

Unit III: Approaches and strategies of teaching Value Education (L.6, T.2, P.2)

Methods: Value Analysis Model, Value Clarification Model and Value Judgment Model - Approaches: Direct, indirect, integrated, media approach Teaching strategies: Value based curricular and co-curricular programmes, activities: storytelling, songs, role play, sharing personal experience and role modelling, dramatization, identification of values in prose and poetry and awareness programmes

Unit IV: Assessment of Values (L.6, T.2, P.2)

Measurement and evaluation of values: need and importance - Allport - Vernon study of values, Edward personal preference schedule - Evaluation of values: Meaning, need - Tools and techniques: Questionnaire, problem solving, check list, art computation - Methods: Self evaluation by students, evaluation by teachers and peer group evaluation

Unit V: Professional ethics and role of teachers in inculcating values (L.6, T.2, P.2)

Professional norms: Meaning, characteristics, types, factors affecting professional norms, advantages - Professional ethics: Meaning, components, code of ethics for teachers - Role of teachers in inculcating values and their social responsibilities.

Practicum (any two)

1. Identify the educational value concept in Thirukkural and prepare a report.
2. Prepare a reflective report on any one of the values and illustrate it in art form.
3. Critically analyse the democratic values in India and give a reflective report.
4. Prepare a questionnaire to evaluate the values of your peers.
5. Write a script for a street play portraying the importance of social values.

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Course VI: Strengthening English Language Proficiency - I

B.Ed.: Sem. I

Course Code: BES1

Credit: 2

Course Learning Outcomes:

The prospective teacher

1. improves pronunciation
2. acquires knowledge of using language laboratory
3. understands the basics of phonetics
4. develops communicative skills through activities
5. gets knowledge of grammar for expressions

Unit I: Tongue Twisters (L.4, P.6)

Meaning - Role of tongue twisters in improving pronunciation and fluency - Demonstration of reciting the tongue twisters - Practising guided recitation of tongue twisters in large groups, in small groups and individually - Testing the recitation of tongue twisters

Unit II: Language Laboratory (L.4, P.6)

Orientation - Role of language laboratory in developing communicative skills - Language lab softwares - Learning the functions and operating language laboratory - Listening to recorded communicative software materials for pronunciation and speaking skill - Note-taking activities by listening from language laboratory

Unit III: Basics of Phonetics (L.4, P.6)

Meaning and definition - Identifying 44 phonemes - Classification of phonemes - Difference between alphabet and phoneme - Listening to the consonant sounds, vowel sounds and diphthong sounds

Unit IV: Communicative Skill Development Activities (L.4, P.6)

Types of Communication - Narrating/describing an account of one's life experience - Introducing self and others - Making announcements - Conversing in pairs - Group discussion on pre-prepared and extempore topics - Story telling - Writing an application for a job - Preparing curriculum vitae - Conversation writing - Preparing a write-up for notice board - Report writing for newspapers

Unit V: Grammar for Expressions (L.4, P.6)

Verbal structure and usage of tenses - Sentence pattern - Question tags - Active and passive voice - Transformation of sentences: Simple, complex and compound - Conditional clauses: Coordinating conjunctions and subordinating conjunctions - Relative pronouns

Practicum (any two)

1. Recite/Create tongue twisters.
2. Write a reflective report on any one of the English language laboratory software.

3. Construct a phonetics chart to teach at secondary level.
4. Conversation practice for 8 to 10 minutes.
5. Prepare a write up for notice board.

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Course VII: Arts and Aesthetics

B.Ed.: Sem. I

Course Code: BEAA

Credit: 2

Course Learning Outcomes:

The prospective teacher

1. acquires the higher style of hand writing
2. develops creativity in arts
3. makes handicrafts
4. applies the knowledge of modern theatre skills
5. acquaints with the art of living

Unit I: Writing and Drawing (L.3, P.5)

Writing practice: Writing in charts, Flash Cards, English Alphabets, Italic Hand writing practice, Alphabets, Tamil Alphabets, Writing practice in the blackboard, Drawing practice: Poster colour making, stick diagram, kalicraft nib practice

Unit II: Exposing Creativity (L.4, P.6)

Rangoli, clay modeling, fabric painting, photograph, videography, dance, instrumental music, acting in drama practice, mono act, mime, fancy dress - Folk dance: Karakattam, Oyilattam and Silambattam

Unit III: Handicraft Training (L.4, P.7)

Preparation of decorative items from waste material, flower vase using waste paper and crepe papers, stage decoration, classroom and hall arrangement

Unit IV: Theatre Workshop (L.5, P.6)

Modern art practice, make-up, training in small scale home making products, visit to schools using handicrafts, difference between art education and education, introducing ancient Indian culture handicrafts related to education, important Indian ancient cultural programmes and celebrations

Unit V: Health Management (L.4, P.6)

Acupuncture practice, breathing exercise, oil pulling, diet control, health hygiene, meditation, memory, stress management, body heat control

Practicum (any two)

1. Write English and Tamil letters in charts.
2. Draw a picture to depict your creativity.
3. Prepare any five handcraft materials.
4. Prepare a model Indian handcraft material related to Education.
5. Draw a picture chart on the celebrations of Indian festivals.

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Course VIII: Physical Education and Yoga

B.Ed.: Sem. I

Course Code: BEPY

Credit: 2

Course Learning Outcomes:

The prospective teacher

1. acquires the knowledge of physical education
2. develops interest in learning physical education
3. creates awareness of health hazard and protective measures
4. masters fitness related skills
5. experiences the effects of yogic practices in day today life

Unit I: Foundation of Physical Education (L.12, T.2, P.3)

Physical Education: Meaning, definition, need and importance - Ancient Olympics and Modern Olympics - Layout, basic skills, rules and regulation of Badminton, Ball Badminton, Basketball, Football, Hockey, Kabaddi and Volleyball - Layout and techniques of 400 meters standard track, Long Jump and Shot Put

Unit II: Methods of Physical Education (L.10, T.2, P.3)

Teaching methods in Physical Education: Command, demonstration, imitation, dramatization, At-Will method, Whole-Part-Whole method, visualization and observation method - Intramural and extramural competitions - Fixtures: Knock out and league tournaments - Lesson plan - Lead up activity - Minor games - Rhythmic activities - Gymnastics

Unit III: Nutrition and Safety Education (L.12, T.2, P.3)

Health: Meaning, definition and concepts - Factors influencing health - Health needs for children, adolescents and differently-abled children - Nutrition: Meaning and essentials - Diet: Balanced diet - Diet adulteration - Malnutrition - Principles of safety education - Safety in playground, road, home and school - Safety for fire and water accident - First aid - Snake bite - Dog bite

Unit IV: Physical Fitness Components (L.8, T.2, P.3)

Fitness: Meaning, definition, need and importance - Health related fitness: Endurance, strength, flexibility and body composition - Skill related fitness: Agility, balance, coordination, power, speed and reaction time - Training methods for development of physical fitness - Fit India Movement (2019)

Unit V: Yoga for Wellness (L.8, T.2, P.3)

Yoga: Meaning, origin and development - Need and importance - Eight limbs of Yoga - Procedures and benefits of basic standing, sitting and lying asanas - Pranayama: Puraka, kumbhaka and rechaka - Kriyas in Yoga

Practicum (any two)

1. Draw a layout for any one of the games.
2. Observe a sports meet and prepare a report.
3. Demonstrate asanas and pranayamas.
4. Organize a health check-up programme and submit the reflective report.
5. Prepare a reflective report on a traditional game of Tamilnadu.

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Semester - II

Course IX: Schooling, Socialization and Identity

B.Ed.: Semester II

Course Code: BCSS

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. grasps the sociological foundations of education
2. comprehends the socialization processes, socialization of families, schools and various parenting styles and their impact on learners
3. imbibes the meaning of identity formation, its determining factors such as caste, class, gender, religion, language on their own sense of identity as a teacher
4. masters the influence of education on democracy, secularism and other social issues
5. becomes familiar with his/her own identity as a teacher

Unit I: Educational Sociology (L.8, T.2, P.3)

Educational Sociology: Meaning, Characteristics and Scope - Sociological Functions of a School - Inter relationship between School and Community - Social Groups: Primary, Secondary and Tertiary - Social Processes - Social Stratification - Social Mobility and Social Change

Unit II: Socialization and Development of Self (L.12, T.2, P.3)

Socialization: Meaning, Definition, Characteristics, Process and Types - Agencies of Socialization and their Functions: Family and Extended Family, Community: Neighbourhood, Religion and School - The Necessity and Relevance of Family in Socializing the Child - Parenting Styles and their Impact: Meaning and Types: Authoritative, Authoritarian, Indulgent, Neglectful - Gender Socialization in Family and School - Role of Teacher in Socializing the Child

Unit III: Self and Evaluation Practices (L.9, T.2, P.3)

Self and Self-concept: Meaning, Definition and Dimensions - Construction of a Positive and Productive Sense of Self - Pillars of Self-concept: Self-esteem and Self-efficacy - Self-evaluation Practices: Self-understanding, Self-assessment, Self-enhancement, Self-regulation and Self-monitoring

Unit IV: Identity Development and Social Issues (L.13, T.2, P.3)

Identity: Meaning, Definition, Nature and Types - Determinants and their Impact: Caste, Class, Gender, Religion, Language and Media - Impact of LPG on Identity - Identity Formation: Erik Erikson's Psycho-social Development Theory, James Marcia's Identity Status Theory - Schooling as a Process of Identity Formation - Hidden Curriculum for Identity Formation - Role of School in Developing National, Secular and Humanistic Identities

Unit V: Teacher's Professional Identity (L.8, T.2, P.3)

Professionalism: Meaning, Definition - Components of Professionalism - Teacher's Professional Identity: Meaning, Definition and Characteristics - Development of Teacher's Self-efficacy: Orientation Programmes, Pre and In-service Training, Personal Enrichment Courses - Impact of Teacher Efficacy on Classroom Learning

Practicum (any two)

1. Analyse a social issue and prepare a report.
2. Prepare a report on the socio-economic status of rural people.
3. Organise a seminar, debate and panel discussion on a social issue and prepare a report.
4. Make a poster on personal and social identity.
5. Evaluate your own identity and prepare a report.

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Course X: Innovations in Education

B.Ed.: Sem. II

Course Code: BCIE

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. knows various forms of educational technology and its educational implications
2. acquires adequate understanding of instructional media in education
3. learns the basic concept of Information and Communication Technology (ICT)
4. understands the impact of ICT in the classroom
5. recognises the basic concept of Artificial Intelligence and its applications

Unit I: The Concept of Educational Technology (L.8, T.2, P.3)

Educational Technology: Concept, Definition, Need, Importance and Scope - Technology in Education and Technology of Education - Forms of Educational Technology: Teaching Technology, Instructional Technology, Behavioural Technology, Systems Approach and their Educational Implications

Unit II: Instructional Media and Emerging Strategies (L.10, T.2, P.3)

Instructional Media: Need, Importance and Classification - Edgar Dale's Cone of Experience - Types of Media: Print and Non-print Media - Selection and Integration of Media in Teaching Learning Process - Multi-media Package - Learning Management System (LMS): Need and importance - Flipped Classroom - Blended Learning and m-Learning: Merits and Demerits

Unit III: ICT in Education (L.11, T.2, P.3)

ICT: Meaning and Importance - Computer Assisted Instruction (CAI) - Programmed Instruction: Linear and Branching - Uses of MS-Office in Education - E-learning - E-Resources in Teaching-Learning: E-Book, E-Journal - Videoconferencing - Google Apps for Education: Google Drive, Google Meet and Google Classroom - Interactive White Board: Meaning, Components and Types - ICT tools used for testing and assessment (evaluation)

Unit IV: Communication, Interaction and Emerging Educational Technologies (L.12, T.2, P.3)

Meaning and Types of Communication - Communication Cycle - Factors affecting Communication - Techniques of Good Communication - Classroom Interaction Analysis: FIACS: Concept, Assumptions, Coding and Decoding Procedures - Internet - Email - Search Engine - Using Blogs in Teaching and Learning - Recent Communication Technologies in Education - Cloud Computing - MOOCs

Unit V: Artificial Intelligence in Education (L.9, T.2, P.3)

Artificial Intelligence (AI) - Difference between AI and Human Intelligence - Natural Language Processing (NLP): Stages and Application - Virtual Reality, Virtual Classroom -

Intelligent Tutoring System (ITS) - Bio-metric Classroom Attendance - Using Artificial Intelligence Applications in Education - Digital India

Practicum (any two)

1. Develop a linear programme with 15-20 frames.
2. Design a digital presentation with narration on any of the topic from the above units.
3. Prepare a report on the Merits and Demerits of any one of the Social Media.
4. Create a Blog/website of your own.
5. Create a Google Classroom. Add any 5 students (from peer group). Upload any material and share the link.

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Course XI: Educational Psychology - II

B.Ed.: Sem. II

Course Code: BCEP2

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. acquires the knowledge of intelligence and creativity
2. understands the concepts of motivation and leadership
3. understands the theories of personality and the methods of assessing personality
4. improves the concepts of mental health and hygiene
5. familiarizes with the different types of guidance and counseling

Unit I: Intelligence and Creativity (L.10, T.2, P.3)

Intelligence: Meaning, definition, nature and distribution - Theories of intelligence: Single, Two factor and Multifactor theories, Guilford's structure of intellect and Gardner's multiple intelligence theory - Assessment of intelligence: Individual and group tests: Differences and examples - Individual differences: Meaning, definition and causes - Creativity: Meaning, definition, process, identification and promotion - Assessment of creativity: Paul Torrance's test and Baqur Mehedi's test

Unit II: Motivation and Group Dynamics (L.8, T.2, P.3)

Motivation: Meaning, definition, types, cycle - Theories of motivation: Maslow's hierarchy of needs and achievement motivation - Techniques of developing achievement motivation - Role of rewards and punishments - Level of aspiration - Leadership: Meaning, definition and traits - Types: Autocratic, democratic and laissez faire - Classroom climate

Unit III: Personality and Assessment (L.12, T.2, P.3)

Personality: Meaning and definition, determinants - Theories of personality: Type - Carl Jung, Trait - Cattell, Type cum Trait - Eysenck and psychoanalytic - Assessment of personality: Projective Techniques: Rorschach Ink Blot Test, Thematic Apperception Test (TAT) and non-projective techniques: Inventories, rating scales - Concept and measurement: Aptitude, attitude and interest - Integrated personality

Unit IV: Mental Health and Hygiene (L.8, T.2, P.3)

Mental health and hygiene: Concept - Conflict: Meaning and types - Frustration - Adjustment and Maladjustment - Defence mechanisms - Mental illness - Juvenile delinquency - Promotion of mental health

Unit V: Guidance and Counselling (L.12, T.2, P.3)

Guidance: Meaning, definition, nature and needs - Types: Educational, vocational and personal - Counselling: Meaning, definition, nature and needs - Types: Directive, Non-Directive and Eclectic - Identification of children with counselling needs - Counselling techniques: Individual and group techniques - Guidance for the children with learning difficulties, under-achievers and gifted

Practicum (any two)

1. Conduct an experiment on creativity and prepare a report.
2. Prepare a digital presentation for a topic from any one of the units.
3. Write a reflective report on the experience you had regarding guiding your peer.
4. Perform an experiment on intelligence and prepare a reflective report.
5. Analyze the procedure of establishing a guidance cell.

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Course XII: Assessment of Learning

B.Ed.: Sem. II

Course Code: BCAL

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. acquaints with the basic concepts and practices adopted in educational measurement and educational evaluation
2. understands the relationship between measurement and evaluation in education and the existing models of evaluation
3. applies the tools and techniques of measurement and evaluation
4. develops the skills and competencies in constructing and standardizing a test
5. recognizes how various requirements of education are measured, evaluated, interpreted and how their results are recorded to help learners

Unit I: Measurement, Assessment and Evaluation (L.6, T.2, P.3)

Measurement, assessment and evaluation: Concept, scope, principle, need, purpose, difference, functions, types and role of assessment in learning - Tests: Definition, purpose and types - Subjective techniques: Questionnaires, Inventories, Observation - Objective techniques: Rating scales, Anecdotal record, Schedules and Check lists - Peer rating

Unit II: Test Construction (L.10, T.2, P.3)

General principles of test construction - Guidelines for writing test items: Objective, short, essay and interpretive type - Item analysis: Discrimination and difficulty levels - Characteristics of good measuring instrument: Validity, Reliability, Objectivity and Usability - Standardization of a measuring instrument

Unit III: Educational Diagnosis and Achievement Test (L.9, T.2, P.3)

Meaning and importance of educational diagnosis - Diagnostic test: Construction, purpose and uses - Areas and content of diagnostic testing - Remedying learning difficulties: Steps and strategies - Achievement test: Blue print preparation, test administration, scoring and interpretation of test results

Unit IV: Statistics and Evaluation (L.13, T.2, P.3)

Forming frequency table - Measures of central tendency: Mean, median and mode - Measures of variability: Range, quartile deviation and standard deviation - Normal probability: skewness and kurtosis - Classroom applications - Correlation: Types - Rank order and product moment correlation: Calculation and uses - Graphical representation of data: Histogram, Frequency Polygon, Cumulative frequency curve and Ogive curve

Unit V: Examination Reforms (L.12, T.2, P.3)

Lakshmanaswamy Mudaliar Education Commission (1952-53), Kothari Commission (1964-66), NPE (1986) and National Curriculum Framework (2005), Acharya Ramamurti Committee (1990), National Policy on Education Review Committee (NPERC) -

Continuous and Comprehensive Evaluation (CCE) - Continuous Internal Assessment (CIA), semester, trimester - Question bank - On-line examination and open book exams - Grading - Progress report - Student's profile: Cumulative record

Practicum (any two)

1. Construct a rating scale to assess a classroom climate.
2. Design a model cumulative record for the students of your class.
3. Write a reflective report on the grading system followed in any one of the colleges in your area.
4. Assess Students learning by using "students academic portfolio".
5. Prepare an observation schedule to assess the learning of the students.

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Course XIII: Pedagogy of Special English - II

B.Ed.: Sem. II

Course Code: BPE2

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. improves the reading skills
2. develops study skill techniques
3. picks up the art of writing
4. understands the Standard XI English grammar
5. constructs diagnostic and achievement test papers

Unit I: Reading Skills (L.10, T.2, P.3)

Purpose of reading: Reading for pleasure, reading for information - Classroom activities to develop reading skill: Application of SQ3R study technique, reading club, classroom library, span of attention, intensive and extensive reading activities - Levels of reading - Increasing reading speed, do's and don'ts in mastery reading, word attack skill - Reading and critically reviewing short stories and novels - Guidelines for reviewing a book - Word-formation devices

Unit II: Study Skills (L.12, T.2, P.3)

Meaning, need for training the students in study skills - Types of study skills: gathering skills, storage skills and retrieval skills - Developing study skills: exploring the dictionary, examination of different types of dictionaries, use of thesaurus - Skill of note-making and note-taking, tips for development - Preparation of bibliography, collecting data and relevant materials from primary and secondary sources

Unit III: Reproductive and Creative Writing in English (L.8, T.2, P.3)

Essay writing: Types of essays, guidelines for writing an essay, writing essays on given topics, writing a lesson plan for teaching an essay - Letter writing: Types, writing letters for different needs, teaching of letter writing as a guided composition, writing a lesson plan for letter writing - Summary writing: Steps, points to be noted while writing a lesson plan for summarizing - Translation: Guidelines, translating the given passage - Creative writing: Collection of newspaper reports on events and functions, preparation of a report for newspapers, writing for journals

Unit IV: Teaching the Grammatical Content of English - I (Standard - XI) (L.10, T.2, P.3)

Homophones - Primary and modal auxiliaries - Relative clause - 'If' clause - Phrase and clause

Unit V: Evaluation (L.8, T.2, P.3)

Concept of Measurement, Assessment and Evaluation - Characteristics of good Evaluation - Diagnostic testing: meaning, need, question preparation and item analysis -

Achievement Test: Meaning, need, different types of question, designing the Blueprint, and question preparation

Practicum (any two)

1. Critically review a short story you read.
2. Collect 'Worksheets' from the websites on 'Word Formation' and work out.
3. Translate a passage and brief how you have tackled the problems faced.
4. Collect a list of homophones and differentiate their usage with appropriate examples.
5. Design the Blueprint for the Standard IX term-end examination.

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Course XIII: சிறப்புத் தமிழ் கற்பித்தல் - II

B.Ed.: Sem. II

Course Code: BPT2

Credit: 3

கற்றல் விளைவுகள்:

ஆசிரிய மாணவர்

1. தமிழ்ப்பாடப் பொருள் கற்பித்தல் கோட்பாடுகளை அறிந்து கொள்கிறார்.
2. தமிழ்ப்பாடப் பிரிவுகளைக் கற்பிக்கும் நோக்கங்கள், முறைகள் பற்றி அறிந்து கொள்கிறார்.
3. மொழிப்பயிற்சியின் இன்றியமையாமையை உணர்ந்து பயிற்சி பெறுகிறார்.
4. இலக்கிய நயங்களை அறிந்து கொள்கிறார்.
5. அளவீடு, மதிப்பீடு பயன்பாடுகள் பற்றி அறிந்து கொள்கிறார்.

அலகு I: தமிழ்ப்பாடப்பிரிவுகளைக் கற்பிக்கும் நோக்கங்கள், முறைகள்
(L.16, T.2, P.3)

செய்யுள் கற்பித்தல்: நோக்கங்கள், கற்பிக்கும் முறைகள், தொடங்கும் முறைகள், உரைநடை கற்பித்தல் நோக்கங்கள்: வகைகள், கற்பித்தல் முறைகள், பயன்கள் - உரைநடை, செய்யுளுக்குமுள்ள வேறுபாடுகள், செய்யுள், உரைநடை கற்பித்தல் முறையிலுள்ள வேறுபாடுகள் - இலக்கணம் கற்பித்தல்: நோக்கங்கள், கற்பிக்கும் முறைகள், நிறை, குறைகள், இலக்கணம் கற்பிக்கும் முறைகளிடையேயுள்ள வேறுபாடுகள், இலக்கணம் வெறுக்கப்படுவதற்கான காரணங்கள், இலக்கணம் இனிமையாக்கும் வழிமுறைகள் - உரைநடை, செய்யுள், கட்டுரைப்பாடத்தில் இலக்கணத்தை இணைத்து கற்பிக்கும் முறைகள் - துணைப்பாடம் கற்பித்தல்: நோக்கங்கள், தன்மைகள், பயிற்சிகள், ஆசிரியர் செயல்பாடுகள் - துணைக்கருவிகளின் பங்கு

அலகு II: வினாக்கள் (L.6, T.2, P.3)

வினாக்களின் நோக்கம், வகைகள், சிறப்பியல்புகள் - வினா வினவும் முறைகள், பயன்கள், இன்றியமையாமை - வினாக்கள் வினவும் போது கவனிக்க வேண்டியவை - நன்னூலார் கொள்கை - தேர்வு வினாக்கள் தயாரித்தல் - தேர்வு, வகுப்பறை வினாக்களுக்கு கிடைக்கக்கூடிய வேறுபாடுகள் - வினாவங்கியின் பயன்கள்

அலகு III: அளவீடும் மதிப்பீடும் (L.12, T.2, P.3)

விளக்கங்கள், நோக்கங்கள், பயன்கள், வேறுபாடுகள் - தேர்வின் இன்றியமையாதப் பண்புகள், தேர்வின் பயன்கள் - ஆசிரியர் தயாரிக்கும் தேர்வுகள்: வாய்மொழி, எழுத்துத் தேர்வு நிறைகள், குறைகள், சாதனைத்தேர்வு (அ) அடைவுத்தேர்வு விளக்கம், பயன்கள் - குறையறி, அடைவுத்தேர்விற்குமுள்ள வேறுபாடுகள் - வினாத்தாள் அமைப்பு: வினாத்தாள் அமைப்பில் கவனிக்க வேண்டியவை, புறவயவினாக்கள், குறுவினாக்கள், கட்டுரை வினாக்களின் நிறைகள், குறைகள் - தேர்வு சீர்திருத்தம் - வினாத்தாள் வடிவமைப்பு விளக்கம், தயாரித்தல்

அலகு IV: தமிழ் செய்யுள், உரைநடைப் பாடப்பொருள் கற்பித்தல் (L.8, T.2, P.3)

ஏறு தழுவுதல் - மணிமேகலை - அகழாய்வுகள் - திருக்குறள் இயந்திரங்களும் இணைய வழி பயன்பாடும் - ஓ என் சமகால தோழர்களே - உயிர்வகை - விண்ணையும் சாடுவோம் - புறநானூறு - தண்ணீர் (ஒன்பதாம் வகுப்பு பாடப்பொருள்.)

அலகு V: தமிழ் இலக்கணம், துணைப்பாடப் பொருள் கற்பித்தல் (L.8, T.2, P.3)

தமிழோவியம் - தமிழ்விடு தூது - வளரும் செல்வம் - நீரின்றி அமையாது உலகு - பட்ட மரம் - பெரிய புராணம் தொடர் இலக்கணம் - துணை வினைகள் - வல்லினம் மிகும் இடங்கள் - வலி மிகா இடங்கள் (ஒன்பதாம் வகுப்பு பாடப்பொருள்.)

செய்முறை பயிற்சிகள்

1. ஒன்பதாம் வகுப்பு பாடநூலில் செய்யுள் பகுதியிலுள்ள அணிகளைத் தொகுத்து எழுதுக.
2. ஒன்பதாம் வகுப்பு பாடநூலில் செய்யுள் பகுதி ஒன்றைக் காட்சிப்படுத்துக.
3. புதுக்கவிஞர்களைப் பற்றித் தொகுத்து எழுதுக. (ஒன்பதாம் வகுப்பு பாடநூல் ஆசிரியர்கள் மட்டும்)
4. வினாவங்கி ஒன்று தயார் செய்க.
5. வினாத்தாள் வடிவமைப்புத் திட்டம் ஒன்றைத் தயார் செய்க.

பார்வை நூல்கள்

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Course XIII: Pedagogy of Computer Science - II

B.Ed.: Sem. II

Course Code: BPC2

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. analyses the uses of computers in education
2. applies the methods and techniques of evaluation in teaching computer science
3. grasps the use of computer science textbook
4. understands the concepts of C++
5. knows the applications of computer science

Unit I: Computers in Education (L.5, T.2, P.3)

Use of Computers in Education - Role of Computers in Educational Planning and Administrative Planning - Computers in Open Learning

Unit II: Evaluation in Computer Science (L.12, T.2, P.3)

Concept, objective, tools and techniques, Criteria and norm referenced tests, Types of test, Principles of test construction and administration of an achievement test, Blueprint, Characteristics of a good test, Item analysis, Continuous and Comprehensive Evaluation, Computer Aided Evaluation, Online examination

Unit III: Computer Science Textbooks (L.10, T.2, P.3)

Meaning - Qualities of good Computer Science textbook - Use of textbook in and outside the classroom - Criteria for evaluation of a Computer Science textbook - Setting a Computer Science library - Values of a Computer Science library

Unit IV: Computer Technology and C++ (Standard - XI, Vol. II) (L.10, T.2, P.3)

Computer ethics and Cyber security - Tamil computing - Introduction to Windows 10 - Windows 10 explorer - Introduction to C++ - Flow of control - Functions - Arrays and Structures - Classes and Objects - Polymorphism - Inheritance

Unit V: Applications of Computer Science (Standard – XI, Vol. II) (L.13, T.2, P.3)

Introduction to Internet and Email - HTML: Structural Tags, Formatting text, Creating Tables, List and Links - Adding multimedia elements and Forms - Cascading Style Sheets (CSS) - Introduction to JavaScript - Control structure in JavaScript - JavaScript functions

Practicum (any two)

1. Create your own blog and post learning materials for your students.
2. Develop a simple website using HTML and CSS.
3. Identify the differences between JavaScript functions and C++ functions.
4. Validate a student personal form using JavaScript functions.
5. Write a reflective report on the initiatives of UNESCO for computer literacy.

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Course XIII: Pedagogy of Mathematics - II

B.Ed.: Sem. II

Course Code: BPM2

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. acquires the knowledge of modern approach in Mathematics education
2. analyses the role of electronic media in Mathematics teaching
3. applies the knowledge of evaluation in Mathematics teaching
4. develops the skill in writing Visual Basic programs
5. masters the competencies in the pedagogical analysis of content of various branches of mathematics

Unit I: Technology and Modern Approaches in Mathematics Education (L.12, T.2, P.3)

Importance of audio visual aids, role of electronic media in teaching - Radio, TV, CCTV, Computer and Internet - Individualised instruction: Meaning, characteristics and advantages - Programmed Learning Material (PLM) - Computer Assisted Instruction (CAI): Meaning, steps, modes, advantages and limitations - Development of CAI package in mathematics teaching - Intelligent Tutoring System (ITS) in teaching mathematics - Smart classroom - Use of improvised aids in mathematics teaching

Unit II: Evaluation (L.9, T.2, P.3)

Characteristics of a good test in Mathematics: Validity, reliability and objectivity - Different types of test items: Objective, short answer, essay - Nature and construction of diagnostic test and achievement test - Error analysis - Remedial teaching - Action research in Mathematics teaching

Unit III: Introduction to Visual Basic Programming (L.13, T.2, P.3)

Visual Basic - Integrated development environment - Project window - Tool box - Control structure: If, If - then else, Nested if, Select case - Loop Structure: do while loop, For Next Loop - Form layout window - Properties window - Programs: Calculating simple interest, compound interest - Area of a triangle - Area of a circle - Testing odd and even number - Testing the nature of the roots - Volume of a cone, a sphere, cylinder - Solving quadratic equation

Unit IV: Relations and Functions, Algebra, Coordinate Geometry (L.9, T.2, P.3)

Relations and Functions: Concept, types and composition - Algebra: Simultaneous linear equation in three variable, GCD & LCD of Polynomials, Rational Expressions - Coordinate Geometry: Area of Triangle and Quadrilateral, Inclination of a line, straight line

Unit V: Trigonometry, Mensuration, Probability (L.7, T.2, P.3)

Trigonometry: Trigonometric identities, Heights and Distances - Mensuration: Surface Area and Volume of Right Circular Cylinder, Hollow cylinder, right circular cone,

sphere and hollow hemisphere - Probability: Probability of the event, addition theorem of probability

Practicum (any two)

1. Design a model question paper based on Bloom's Taxonomy.
2. Create a booklet on puzzles in Mathematics.
3. Prepare a lab record on Visual Basic.
4. Develop a CAI package for any one of the topic from Standard IX Mathematics syllabus.
5. Construct a list of Mathematics websites.

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Course XIII: Pedagogy of Physical Science - II

B.Ed.: Sem. II

Course Code: BPP2

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. acquires knowledge about the fundamentals of Physics and Chemistry at Secondary level
2. analyses the recent trends in Physical Science Education
3. organizes different co-curricular activities in Science
4. understands the contribution of Eminent Scientists in the field of Physics and Chemistry
5. appreciates the various resources for teaching Physical science

Unit I: Contribution of Scientists and Recent Trends in Physical Science Education

(L.14, T.2, P.3)

Einstein - Sir Issac Newton - Mendeleev - Sir C.V. Raman - Homi Jehangir Bhaba - A.P.J. Abdul Kalam - Emerging Branches of Science: Bio-Technology - Nano-Technology - Chemo-Informatics - Geo-Informatics - Information Technology

Unit II: Resources and Evaluation of Teaching Physical Science (L.13, T.2, P.3)

Visual Resources: Pictures - Flashcard - Charts - Posters - Models - ICT Resources: Television - Internet - Multimedia - Smart Classroom - Science Textbook: Qualities of a Good Science Textbook - Criteria for Evaluation of Science Textbooks - Science Library: Values - Journals and Other Resource Materials in Physical Science Education - Test items and its types - Diagnostic Test - Item Analysis - Remedial Teaching - Achievement Test - Blue Print - Principles of Test Construction - Criteria of a Good Test

Unit III: Co-curricular activities in Physical Science (L.7, T.2, P.3)

Co-curricular Activities: Need and Importance - Science Club: Need, Importance, Aims and Objectives, Types and Organization - Science Exhibition and fair: Importance and Values, Organization - Field Trip: Values, Organization - Improvisation of Apparatus: Need, Characteristics, Process of Development, Significance - Action Research: Meaning, Definition, Objectives, Steps and Advantages

Unit IV: Fundamentals of Physics (L.7, T.2, P.3)

Light: Real and Virtual images - Curved Mirrors - Concave Mirror - Convex Mirror - Total Internal Reflection - Heat: Effects of Heat - Transfer of Heat - Concept of Temperature - Specific Heat Capacity - Thermal Capacity - Sound: Speed of Sound - Reflection of Sound - ECHO - Reverberation - Ultrasonic Sounds - SONAR

Unit V: Fundamentals of Chemistry (L.9, T.2, P.3)

Acids, Bases and Salts - Carbon and its Compounds: Compounds of Carbon, Physical and Chemical Properties of Carbon - Plastics - New rules to make Tamil Nadu Plastic Free - Role of Students in the Prevention of Plastics - Applied Chemistry: Pharmaceutical

Chemistry - Electro Chemistry - Radio Chemistry - Dye Chemistry - Agriculture and Food Chemistry - Forensic Chemistry

Practicum (any two)

1. Prepare a digital album on the life and contribution of a scientist.
2. Prepare any two improvised apparatus.
3. Construct 20 objective type questions from Physical Science content in Standard IX Science textbook.
4. Conduct a discussion (select two topics from unit I or II) and prepare a report.
5. Prepare an Achievement Test for any two units from Standard IX Science textbook.

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Course XIII: Pedagogy of Biological Science - II

B.Ed.: Sem. II

Course Code: BPB2

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. understands various biologists and their contributions
2. acquires the knowledge relating to the organization and administration of a Biology laboratory
3. develops skills in making aids, preparing instructional materials and using audio visual aids
4. comprehends the importance of textbooks in the teaching-learning process
5. gets acquainted the content related to school curriculum

Unit I: Biologists and Laboratory Resources (L.12, T.2, P.3)

The great Biologists: Louis Pasteur, Charles Darwin, Gregor Mendel, Christian Bernard, Ian Wilmut, Hargobind Khorana and their contributions - Laboratory: General laboratory - Designing Biology laboratory - Developing science kit - Laboratory planning - Apparatus and equipments: Purchase and maintenance - Organizing practical work - Laboratory rules - Laboratory accidents and remedies - Laboratory registers - Laboratory manuals - Instruction cards - Laboratory techniques in preserving specimens - Virtual Biology laboratory

Unit II: Technology in Teaching Biological Science (L.8, T.2, P.3)

Projected aids - Audio visual aids - Audio video players - CDs - Liquid Crystal Display (LCD), Radio and TV (Broad Cast and Telecast) - Interactive White Board (IWB) and E-devices - Document reader - Non projected aids: Charts, models (Static and working), flash cards, pictures, different types board, flannel, magnetic and bulletin boards - Exhibits - Improvised aids - Evaluation: Formative, summative, norm-based and criterion-based - Diagnostic testing and remedial teaching - Construction of unit test - Design and Blue print - Item construction and marking scheme

Unit III: Curricular and Co-curricular Activities (L.12, T.2, P.3)

Reading materials - Library - Textbooks: Characteristics, need and importance - Journals - Magazines - Curricular activities: Debate, discussion, drama, poster making on issues related to Biology - Organizing events on specific day: World Earth day - World Environmental day - International Forest Day - International day for the preservation of the Ozone layer - Role of a teacher in organizing curricular activities - Co-curricular activities: Need and importance - Museum: Importance and preparation of museum materials - Biology club: Objectives, organization and activities - Maintenance of aquarium, vivarium and terrarium - Garden: School garden and home garden - Herbarium - Field trip - Using community resources for Biology learning

Unit IV: Plant Physiology and Organ Systems in Animals (Standard - IX) (L.8, T.2, P.3)

Tropism in Plants - Types of Tropism - Nastic Movements - Photosynthesis - Transpiration - Types - Exchange of gases - Human digestive system: Structure of the alimentary canal - Human excretory system: Skin - Kidneys - Structure of Nephron - Mechanism of urine formation - Human Reproductive system: Male reproductive system - Female reproductive system

Unit V: Economic Biology (Standard - IX) (L.10, T.2, P.3)

Horticulture: Pomology or fruit farming - Olericulture or vegetable farming - Floriculture or Flower farming - Landscape gardening - Manuring (Biomanuring): Animal manure - Compost - Green manure - Biofertilizers: Types of Biofertilizers - Medicinal plants - Mushroom cultivation - Hydroponic - Aeroponics - Aquaponics - Dairy farming: cattle breeds - Composition of cattle feed - Feed management - improvement of livestock development in India - Aquaculture: Types of aquaculture - Prospects of aquaculture - Pisciculture: Types of fish culture - Types of ponds for fish culture - cultivable food fishers - nutritional value of fishers - Prawn Culture: Types of prawn culture - Methods of prawn culture - Vermitechnology: Vermiculture - Vermicomposting - Apiculture: Types of Honey bee - varieties of honey bee - Structure of bee comb - Products from honey bee

Practicum (any two)

1. Write the life history and contributions of any two Nobel prize winners in Biological Science.
2. Visit a dairy farm and prepare a report.
3. Collect and preserve Biological specimens.
4. Prepare a report on important Indian Herbaria.
5. Organize a field trip and prepare nature album.

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Course XIII: Pedagogy of History - II

B.Ed.: Sem. II

Course Code: BPH2

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. gets acquainted with technology in teaching History
2. gets training in the art of preparation and utilization of instructional aids
3. inculcates practical knowledge in the preparation and the administration of test and interpretation of test results
4. acquires knowledge of physical Geography
5. understands the economic development

Unit I: Technology in Teaching History (L.10, T.2, P.5)

Audio visual aids: Meaning, characteristics, principles and importance - Traditional and modern aids: Black board, text book, Radio, TV, Computer, Internet, Powerpoint presentation, Motion pictures, Maps, Charts, Time lines, Models, Cut-outs, Pictures, Atlas and Globe

Unit II: Recent Trends in Teaching-Learning History (L.10, T.2, P.3)

Recent trends in teaching: Mind mapping - Activity Based Learning (ABL) and Active Learning Methods (ALM) - Classroom seminar, assignment and action research - Recent trends in learning: Field trip to related fields: Temples, museums and art galleries - Educational tours and community camps - Difficulties in learning of History

Unit III: Evaluation (L.12, T.2, P.3)

Evaluation: Meaning, need, importance, functions and advantages - Difference between Examination and Evaluation - Evaluation devices: Oral, written: Essay, short answer and objective tests - Diagnostic test: Meaning, need, importance and preparation - Achievement test: Meaning, need, importance, blue print and preparation - Test administration - Interpretation of test results

Unit IV: Man and Environment (Standard-IX) (L.9, T.2, P.2)

Environment: Meaning and definition - Classification of environment: Natural, human and manmade - Population: Growth, distribution and density - Over population and under population - Human settlements: Meaning and definition - Classification of human settlements: Rural and urban - Economic activities: Meaning and definition - Types of economic activities: Primary, Secondary, Tertiary, Quaternary and Quinary - Deforestation and need for sustainable development - Mapping skills: Meaning and definition - Components of map: Title, Scale, Direction, Grid System, Projection, Legend, Conventional Signs and Symbols - Remote sensing as a source of map data: Aerial photography, Satellite remote sensing, Global Navigation Satellite System: Global Positioning System and Geographic Information System - Disaster Management: Meaning and definition - Responding to disasters : Earthquake, Tsunami, Riot and Fire

Unit V: Economic Development and Employment (Standard - IX) (L.9, T.2, P.2)

Understanding development: Perspectives, measurement and sustainability: Development perspectives, indicators of economic development: Net National Product (NNP), Per Capita Income (PCI), Purchasing Power Parity (PPP) and Human Development Index (HDI) - Sustainability of development: Natural resources: Renewable resources and non-renewable resources - Use of non-conventional sources of energy: Solar power - Employment in India and Tamil Nadu: Employment sectors: Primary, secondary and tertiary - Types of employment: Organised, unorganised, public and private sector - Money and credit: Barter system, Coins, Natural money, Paper money - Functions of money - Relationship between money and price - Electronic transactions

Practicum (any two)

1. Develop a radio program.
2. Prepare a mind map for a topic from Standard IX History syllabus.
3. Construct an achievement test.
4. Draft a reflective report on the weather and climate of your locality.
5. Create a questionnaire to evaluate the rational use of natural resources.

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Course XIV: Pedagogy of General English - II

B.Ed.: Sem. II

Course Code: BPGE2

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. acquires knowledge about the methods of teaching English
2. acquires the knowledge of approaches in English Language Teaching
3. applies the resources for teaching English
4. understands Standard VII English grammar
5. understands Standard VIII English grammar

Unit I: Methods of Teaching English (L.10, T.2, P.3)

Aims and objectives of teaching English at primary level, secondary level and higher level - Scope of B.Ed. English course - Grammar Translation Method: Principles, procedure, merits and demerits - Direct Method: Principles, advantages and disadvantages - Play-way method: Principles, procedure, techniques, a few games, advantages and challenges - Activity Based Learning (ABL) - Active Learning Method (ALM) - Total Physical Response Method (TPR)

Unit II: Approaches in English Language Teaching (L.10, T.2, P.3)

Structural approach: Features, word order, inflexions, structural and content words, principles, types of structures, criteria for the selection of structures - Teaching of structures: Oral method and situational method, drilling of structures using substitution table and evaluation - Oral approach: Principles, question-answer method, characteristics of a good questioning, types of questions, relationship with Socratic method, activities employed in oral approach and evaluation - Situational approach: Concept, kinds of situation, different ways of creating situation and evaluation - Communicative approach: Principles of communicative approach, activities employed in communicative approach - Discourse chain and role play, integration of skills to master oral and written communication skills and evaluation

Unit III: Resources for Teaching English (L.8, T.2, P.3)

Audio-visual aids - Blackboard: Guidelines for usage and writing, do's and don'ts on the blackboard - Stick diagrams: developing the skill to draw stick diagrams to explain situations - ELT websites - PLM: Principles, types, preparation of ELT materials in PLM

Unit IV: Teaching the Grammatical Content of English - I (Standard - VII) (L.8, T.2, P.3)

Noun, Adjectives - Adverbs - Concord - Punctuation - Regular and irregular verb forms

Unit V: Teaching the Grammatical Content of English - II (Standard - VIII) (L.14, T.2, P.3)

Gerund - Infinitives - Participles - Phrases and Clauses - Transitive and Intransitive verbs - Tenses - Direct and Indirect speech

Practicum

1. Collect a profile of communicative activities in English.
2. Prepare a role play integrating LSRW skills.
3. Draw a stick diagram on a concept.
4. Write a reflective report on ELT website.
5. Design a linear programme for ELT material on a topic.

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Course XIV: பொதுத் தமிழ் கற்பித்தல் - II

B.Ed.: Sem. II

Course Code: BPGT2

Credit: 3

கற்றல் விளைவுகள்:

ஆசிரிய மாணவர்

1. தமிழ் செய்யுள் பாடப்பொருள் கற்பிக்கும் பல்வேறு முறைகளை அறிந்து கொள்கிறார்
2. தமிழ் உரைநடைக் கருத்துக்களை அறிந்து கொள்கிறார்
3. விழுமங்களை அறிந்து கொள்கிறார்
4. முத்தமிழ் வளர்ச்சி நிலைகளை அறிந்து கொள்கிறார்
5. பாடத்திட்டம் தயாரித்தல் உத்திகளை அறிந்து கொள்கிறார்

அலகு I: பாடத்திட்டம் அமைப்பதற்கான கோட்பாடுகள் (L.8, T.2, P.3)

பாடக்குறிப்பு: இன்றியமையாமை, நன்மைகள், ஆசிரியர் மனதிற் கொள்ள வேண்டியன - பாடக்குறிப்புத் தயாரித்தல்: செய்யுள், உரைநடை, இலக்கணம், துணைப்பாடம் - கட்டுரை எழுதப் பயிற்சி - பாடத்திட்டத்திற்கும், ஆசிரியர் கற்பித்தல் குறிப்பிற்குமுள்ள வேறுபாடுகள் - கடிதம்: வகைகள், பாடத்திட்டம்

அலகு II: முத்தமிழ் வளர்ச்சி நிலை (L.18, T.2, P.3)

இயல் தமிழ்: இலக்கியம் விளக்கம், மரபு, புதுக்கவிதை, கவிதை மேனாட்டார், தமிழறிஞர்கள் தரும் விளக்கம் - கற்பனை - வகைகள் - உணர்ச்சி - வடிவம் - பாடுப்பொருள் - உள்ளுறை உவமம் - இறைச்சி - செய்யுள் நலம் பாராட்டல் - இசைத்தமிழ்: தொல்காப்பியம், சிலப்பதிகாரத்தில் காணப்படும் இசைக்குறிப்புகள், தேவார இசைக்கூறுகள், பிற்கால வளர்ச்சி நிலை - நாடகத்தமிழ்: தோற்றம், வளர்ச்சி, சிலப்பதிகாரத்தில் காணப்படும் நாடகச் செய்திகள், செய்யுளை நாடகமாக்கிக் கற்பித்தல், நாடக உத்திகள், நாடக வகைகள்

அலகு III: தமிழ் மொழியும் விழுமக்கோட்டுபாடுகள் (L.8, T.2, P.3)

விழுமக் கல்வி: நோக்கங்கள், வகைகள், ஆசிரியர் பங்கு, தேவைகள் - தேசியக் கல்வி ஆராய்ச்சி மற்றும் பயிற்சி குழு பரிந்துரைக்கும் விழுமங்கள், தமிழ் இலக்கியத்தில் சங்க கால முதல் பக்தி இலக்கிய காலம் வரை காணப்பெறும் விழுமங்கள்

அலகு IV: செய்யுள், உரைநடைப் பாடப்பொருள் கற்பித்தல் (L.8, T.2, P.3)

எங்கள் தமிழ் - பேச்சுமொழியும் எழுத்துமொழியும் - கலங்கரை விளக்கம் - தமிழரின் கப்பற்கலை - காடு - அழியாச் செல்வம் - விலங்குகள் உலகம் - புலி தங்கிய குகை - கீரைப்பாத்தியும் குதிரையும் - வாழ்விக்கும் கல்வி - பேசும் ஓவியங்கள் (ஏழாம் வகுப்பு பாடப்பொருள்.)

அலகு V: இலக்கணம், துணைப்பாடப் பொருள் கற்பித்தல் (L.8, T.2, P.3)

குற்றியலுகரம், குற்றியலிகரம் - சொலவடைகள் - இலக்கிய வகை சொற்கள் - ஆழ்கடலின் அடியில் - நால்வகைக் குறுக்கங்கள் - இந்திய வனமகன் - ஓரெழுத்து ஒருமொழி - பள்ளி மறுதிறப்பு - பகுபதம், பகாபதம் - வழக்கு - தொழிற்பெயர் (ஏழாம் வகுப்பு பாடப்பொருள்.)

செய்முறை பயிற்சி (ஏதேனும் இரண்டு)

1. மதிப்புக்கல்வி தரும் சிறு கதை ஒன்று எழுதுக.
2. துணைப்பாடம் ஒன்றினை நாடகமாக மாற்றி எழுதுக.

3. இலக்கியநயம் பாராட்டல் ஒன்று எழுதுக.
4. பழமொழிகளைத் தொகுத்து எழுதுக.
5. கடிதம் ஒன்றிற்குப் பாடக்குறிப்புத்தயார் செய்க.

பார்வை நூல்கள்

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11. தமிழ்நாடு பாடநூல் நிறுவனம், ஒன்பதாம் வகுப்பு, எட்டாம் வகுப்பு பாடநூல்கள்.
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Course XV: Physical and Health Education

B.Ed.: Sem. II

Course Code: BEPH

Credit: 2

Course Learning Outcomes:

The prospective teacher

1. gains scientific knowledge of various parts of human body
2. knows the rules and regulations of sports and games
3. acquires knowledge of health and safety education
4. obtains the information about food for healthy life
5. procures the skill of unifying body, mind and soul to create elasticity in the body movements

Unit I: Functional Anatomy and Physiology (L.5, T.2, P.2)

Anatomy and Physiology: Meaning and definition - Classification of bones - Systems of the human body - Forms and functions of joints - Structures and functions of muscles - Effect of exercise on muscular, circulatory, respiratory and digestive systems - Human body: Growth and development - Body types: Ectomorph, endomorph and mesomorph

Unit II: Fundamental Skills and Rules of Sports and Games (L.5, T.2, P.2)

Dimensions of the play field, fundamental skills, rules and regulations: Badminton, Basketball, Football, Hockey, Kabaddi, Volleyball - Track and Field (400 metres, Long Jump, Shot Put, Javelin Throw and 4x100 metres relay)

Unit III: Health and Nutritional Diet (L.8, T.2, P.2)

Health: Definition and dimensions - Concepts of health: Physical health, mental health and community health - Hygiene - Personal hygiene - School health programmes: Health services, health instruction and health supervision - Nutrition: Sources of nutrition - Factors affecting nutrition - Balanced diet - Forms of food safety - Food components for the growing children

Unit IV: Managing Health Disorders and Sports Trauma (L.6, T.2, P.2)

Life style disorders: Causes and prevention of blood pressure, cancer, diabetes mellitus and back pain - Harmful effects of alcohol, drugs, doping and smoking - Communicable diseases: Causes, symptoms and prevention of dengue, malaria, cholera, tuberculosis, swine flu, small pox, chicken pox and COVID-19 - Sexually transmitted infections: RTI and HIV / AIDS - Common sports injuries - Exposed injuries: Abrasion, laceration, incision, avulsion, blister and puncture wound - Unexposed injuries: Contusion, sprain, strain, dislocation and fractures - first aid

Unit V: Yoga for Healthy Life (L.6, T.2, P.2)

Yoga: Definition and stages - Difference between physical exercises and Yoga - Procedures, physical and psychological effects of asanas: Padmasana, Paschimottanasana,

Vakrasana, Trikonasana, Vajrasana, Dhanurasana, Savasana and Makarasana - Procedures and benefits of Surya Namaskar - Types of Pranayama

Practicum (any two)

1. Prepare an album for sports and games.
2. Organize a project from any one of the topics from the above units and submit a reflective report.
3. Write a reflective report on safety measures for sports injuries.
4. Demonstrate asanas and pranayamas.
5. Create a digital presentation on any one of the topics from the above units.

References

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11. Venugopal, B. & Ranganayaki. (2010). *Yoga and Yogic Practice: Yogasana and Pranayama*. New Delhi: Neelkamal Publications.

Course XV: Guidance and Counselling

B.Ed.: Sem. II

Course Code: BEGC

Credit: 2

Course Learning Outcomes:

The prospective teacher

1. understands the concept of guidance and counselling
2. acquires knowledge of counselling process
3. identifies the different types of guidance in schools
4. knows the different techniques for collection of information
5. develops skills in organizing guidance programme in their schools

Unit I: Fundamentals of Guidance and Counselling (L.5, T.2, P.2)

Guidance and counselling: Meaning, definitions, aims, nature, principles and needs - Difference between guidance and counselling - Benefits - Drawbacks - History of guidance movement in India - Present Status of guidance movement in India - Ways to improve guidance movement in India

Unit II: Counselling Process (L.6, T.2, P.2)

Stages in counselling: Preparation stage, counselling stage, termination stage - Counselling skills: Attending skills, responding skills, skill of personalising, initiating skills - Types: Directive counselling, Non-directive counselling, eclectic counselling - Group counselling - Counsellor: Qualification, qualities, training and professional ethics

Unit III: Guidance in School (L.6, T.2, P.2)

Types of guidance - Educational, vocational, social and personal: Need, objective, process and role of teachers - Guidance of children with special needs: Gifted and creative, under achievers, disadvantaged and learning disabled

Unit IV: Tools and Techniques of Guidance and Counselling (L.6, T.2, P.2)

Psychological tests: Meaning, need, limitations - Testing: Intelligence, aptitude, attitude, interest, personality - Interview: Types, procedure - Case study, cumulative record, anecdotal record and questionnaire

Unit V: Organization of a Guidance Programme (L.7, T.2, P.2)

Principles of organization - Various types of services: Individual inventory service and information orientation services - Placement services: Career guidance, career talk, career conference, career bulletin and follow-up services - Essential activities of a good school guidance programme - Evaluation of guidance programme - Role of guidance personnel in school: Headmaster, counsellor, school psychologist, and health specialist

Practicum (any two)

1. Collect career information and prepare an album.
2. Construct an interest inventory.

3. Prepare a digital presentation for a topic from the above units.
4. Collect information about a job.
5. Write the procedure of establishing a guidance cell in your school.

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1. Anastasi Annie. (1984). *Psychological Testing*. London: The MacMillan.
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21. Vishala Mary. (2009). *Guidance and Counselling*. New Delhi: S.Chand and Company.
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Course XV: Library and Information Science Management

B.Ed.: Sem. II

Course Code: BELI

Credit: 2

Course Learning Outcomes:

The prospective teacher

1. acquires knowledge about library
2. knows the basic functions of the library
3. understands the origin and historical background of the library
4. develops the knowledge in the day to day functions of the library
5. becomes familiar with the ICT applications in libraries

Unit I: Library and Society (L.7, T.2, P.2)

Library: Definition - Development of Library and Information Science in India - Five Laws of Library Science - Types of Libraries: Public Libraries, Academic Libraries, Special Libraries, College Libraries - Importance of Libraries in Teacher Education Institutions - Library Associations: SALIS

Unit II: Information Sources (L.6, T.2, P.2)

Information Sources: Types of Information Sources - Reference Sources: Encyclopaedias', Dictionaries - Geographical Sources: Year Books, Handbooks and Directories - Electronic Resources: E-books and E-journals - ISSN - ISBN

Unit III: Information Services (L.5, T.2, P.2)

Information Services: Reference Service, Current Awareness Services, Web Based Library Services, Reprographic Services, and Extension Services - Role of Teacher and Librarian in the Use of Library

Unit IV: Library Management (L.7, T.2, P.2)

POSDCoRB System of Management in Libraries - Library Routine Services: Book Selection - Accessioning - Processing - Circulation Section - Serial Section and Maintenance Section - Library Finance: Library Annual Budget and Library Statistical Reports - Stack Verification - Preservation and Conservation of Information Materials: Binding and Digitization

Unit V: ICT in Libraries (L.5, T.2, P.2)

Library Automation: OPAC, Library Software: KOHA - Remote Access OPAC - Library Networks: DELNET and NISSAT - RFID Technology in Libraries: 2CQR - Consortia: UGC-N-List Consortium - e-Shodsindu - e-Shodhganga and National Digital Library

Practicum (any two)

1. Prepare a reflective report on Libraries of National importance and its functions.
2. Create a digital presentation on Library Management System.

3. Write a reflective report on any one of the topic from the above units.
4. Construct a catalogue for the books in your home.
5. Write a review on any five books that you have read.

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17. *KOHA Library Software* - <https://koha-community.org/en/>
18. *National Digital Library of India* - <https://ndl.iitkgp.ac.in/>
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Course XVI: Strengthening English Language Proficiency - II

B.Ed.: Sem. II

Course Code: BES2

Credit: 2

Course Learning Outcomes:

The prospective teacher

1. understands spoken English in a variety of situations and responds appropriately
2. lays stress on the right syllable in a word/right words in a sentence
3. uses correct intonation in speaking
4. uses pause meaningfully
5. communicates English appropriately in academic, social and business contexts

Communicative Function in Focus (50 hours)

Unit I: Making and responding to requests (L.2, P.8)

How polite requests are made - use of conditional clauses to indicate willingness or prediction - making requests in a social environment - using rising tone to ask for a favour or to make requests - using falling tone while responding to requests - speaking on a given topic for two minutes - discussing a topic with a partner - participating in spontaneous spoken discourse in familiar situations

Unit II: Seeking permission (L.2, P.8)

Making short conversations using the right tone-using correct tones for seeking permission in formal, semi-formal or informal situations - presenting an oral report on a project - use of one-word adverbs - use of approximations - Request "X" to be the chief guest of the event - request for permission to meet him formally-work with a partner making and accepting offers

Unit III: Expressing and asking for opinion (L.2, P.8)

Expressions: to express sarcasm, lack of enthusiasm, criticism, disappointment- to show enthusiasm, agreement, surprise - to accept offer - to decline offer (using falling tone) - expressions to ask for opinions in formal situations - Role play conversations with your partner - speak on any topic like: Describe the village you live in, describe an old person you like and respect, describe an electronic equipment that you have

Unit IV: Making suggestions (L.2, P.8)

How to express opinion on something that has been said or done(to express surprise) - giving appropriate responses - presenting an argument in favour of/against a topic - polite suggestions using phrases - distinction between making suggestions and giving advice - engage in a conversation suggesting how things can be done. Take turns for role-play. Make suggestions by way of responses to your partner's questions. Argument for or against: Money alone does not make one happy, it is talent and not hard work that leads to success

Unit V: Expressing possibility or probability (L.2, P.8)

Talking about possibilities that may emerge from situations - to indicate that you agree or have understood something - difference in the use of probably and likely - how to show

one's interest or to encourage the speaker to continue - Talk for two minutes on any one of the topics: What would you do if you were given a chance to put the clock back?, What would you do if you found a wallet with lots of money but no name or address in it?, What would you do if you were suddenly transferred to a state of strange language?

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Course XVII: Modern Theatre Skills

B.Ed.: Sem. II

Course Code: BEMT

Credit: 1

Course Learning Outcomes:

The prospective teacher

1. understands the concept of theatre.
2. builds intellectual and aesthetic understanding of the craft and technique of theatre arts.
3. explores the diversity of theatre and its intersection with community, culture and society.
4. reviews, analyzes and gives constructive criticism on performance.
5. discusses the relationship between physical gestures, body language and communication.

Unit I: Introduction

Definition: What is theatre - Drama and theatre - Acting - Performance

Practical: Body Warm-up and Known our body health. Introduce our self for theater method

Unit II: Origin of theatre

The Theory of Ritual Origin theatre - The Origin of Drama - Modern Theatre - Modern Tamil Drama - History of Drama

Practical: Warm up - Theatre Exercise - Theatre games

Unit III: Method of Acting

Theory of Acting - Art of Acting - Measurement of Acting - Method Acting

Practical: Use of Space - Use of Property - Action and Reaction - Concentration and Observation of theatre Workshop

Unit IV: Thought and action

Theatre Games - Mind and body - Body thinking, Use and balance - The Principles of Co-ordination - Tension on the actor. (With Practical)

Unit V

Script Writing and Play Production

References

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Semester IV

Course XVIII: Curriculum and School

B.Ed.: Sem. IV

Course Code: BCCS

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. understands the concept of curriculum
2. acquires knowledge about curriculum determinants and considerations
3. knows about curriculum development at school level
4. comprehends the distinctive features of progressive school
5. appreciates the importance of school based curriculum

Unit I: Concept of Curriculum (L.6, T.2, P.3)

Curriculum & Syllabus: Meaning and definition - Changing concept of curriculum - Components of curriculum - Difference between curriculum and syllabus

Unit II: Curriculum Determinants and Consideration (L.12, T.2, P.3)

Determinants of curriculum making: Philosophical, sociological, psychological, scientific and political - Curriculum development at the school level: Teaching Learning process, environment, school, community, and societal needs - Curriculum and cultural heritage - National Curriculum Framework (2014)

Unit III: Curriculum Development (L.12, T.2, P.3)

Introduction - Curriculum design: Vertical and Horizontal organization - ABC of curriculum design - Major categories of curriculum Design: Subject-centred, Learner-centred, Broad Field, Social problem, Curriculum development as a dynamic process - Principles of curriculum development - Criteria for selection and organization of content - Curricular development agencies: NCERT, SCERT, University: Board of Studies and Academic Council

Unit IV: School as the Site of Curriculum Engagement (L.10, T.2, P.3)

Meaning and definition of school - Need and importance of school - Role of school philosophy and administration in creating a context for implementation of curriculum: Available infrastructure, curricular sites and resources, school culture, climate and environment as the context for teacher's work

Unit V: Curriculum Implementation and Evaluation (L.10, T.2, P.3)

Curriculum Construction - Curriculum Transaction - Learners at the center of the curriculum transaction - Teachers as curriculum developers and implementers - Role of stakeholders in curriculum Development and implementation: Community, parents, alumni and other stakeholders - Process of curriculum evaluation - Models of curriculum evaluation: Bradley's Effectiveness Model, Tyler's Objectives Centred Model,

Stufflebeam's CIPP Model, Scriven's Goal-free Model, Stake's Responsive Model and Eisner's Connoisseurship Model - Curriculum Analysis (Standard (IX))

Practicum (any two)

1. Write a reflective report on the community resources available for implementation of curriculum.
2. Identify the role of SCERT in curriculum development in Tamil Nadu.
3. Prepare a reflective report on the activities of board of studies and academic council of your college/university.
4. Make a reflective report by interviewing a school headmaster about the existing school curriculum.
5. Critically analyze the merits and demerits of the curriculum followed in state board schools of Tamil Nadu.

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Course XIX: School Management

B.Ed.: Sem. IV

Course Code: BCSM

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. understands the concept of management.
2. acquires knowledge about various management approaches.
3. develops the skill of maintaining school plant.
4. masters the methods of managing human resources.
5. gains knowledge on total quality management.

Unit I: Introduction to Management (L.4, T.2, P.2)

Management: Meaning, Definition, Objectives and Principles - Functions: Planning, Organizing, Staffing, Directing, Coordinating, Reporting and Budgeting (POSDCoRB) - Educational Management: Meaning, Definition and Components

Unit II: School and Classroom Management (L.5, T.2, P.2)

School Management: Meaning, Definition, Aims, Objectives, Characteristics, Principles, Scope and Process - Elements of School Organization and School Administration - Difference between School Organization and School Administration - Classroom Management: Meaning, Definition, Characteristics and Tips for Effective Classroom Management

Unit III: Management of Physical Resources (L.6, T.2, P.2)

School Plant: Meaning, Importance, Location, Design, Constructions and Maintenance - Components: School Office, Library, Classrooms, Staff Room, Laboratory, Play Ground, Indoor Auditorium, Assembly Hall - Art and Craft Room - Music Room - School Clinic/Sick Room - School Farm - Hostel - School Exhibition and Museum - School Records and Registers: Need, Importance, Types and Modes of Keeping Records - Important School Records - Educational Management Information System (EMIS)

Unit IV: Management of Human Resources (L.8, T.2, P.2)

Headmaster/Principal: Qualification, Qualities, Duties and Responsibilities, Relationship with Teachers, Students, Parents and Community - Demands made on the Headmaster/Principal in the Society - Teachers: Qualification and Qualities, Duties and Responsibilities, Relationship with Headmaster/Principal, Colleagues, Students and Community - Role of Headmaster/Principal and Teachers in Guidance and Motivation - Supervision and Inspection: Meaning, Aims, Qualities of an Effective Supervision - Types and Qualities of Supervisor - Difference between Supervision and Inspection - Student Welfare Services: Meaning, Types and Need

Unit V: Management of Financial Resources and Total Quality Management (TQM)

(L.7, T.2, P.2)

Financial Resources: Meaning, Principles, Administration, Sources and Expenditure - Educational Grants - Budget: Meaning, Types, Preparation and Process - TQM: Meaning, Methods and Rules for Managing Quality Education - Total Quality Management in Education and Total Quality Management Based Education

Practicum (any two)

1. Create a digital presentation on any one of the topics from the above units.
2. Prepare a questionnaire to find out the leadership style of the head of the institution.
3. Prepare a reflective report on the classroom management skills of your mentor in intensive teaching practice.
4. Critically analyze the utilization of modern gadgets to administer a school.
5. Design a school layout of your own interest based on the standard format.

References

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Course XX: Soft Skills Development

B.Ed.: Sem. IV

Course Code: BCSD

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. understands soft skills and hard skills
2. develops an understanding of effective communication skills
3. familiarizes effective presentation skills
4. becomes aware of self
5. experiences the skills needed for teachers

Unit I: Soft Skills (L.10, T.2, P.3)

Soft skills: Meaning, definition, hard skills vs soft skills, components, importance, need, identifying, training and practising soft skills - Soft skills: thinking, coping and social - Improving and developing soft skills

Unit II: Intrapersonal Soft Skills (L.12, T.2, P.3)

Self awareness - Joe Harry, SWOT analysis, self-confidence - Self-esteem: Definition, ways of improving, Self talk - Empathy - Attitude: Meaning, features, formation, change, positive attitude, power of attitude, developing positive attitude, obstacles - Values: Meaning, importance, formation, types, personal, cultural and social

Unit III: Interpersonal Soft Skills (L.11, T.2, P.3)

Communication: Definition, features, Sources, process, elements, tools for advanced communication - Team building: Meaning, strategies, advantages - Group dynamics: Meaning, need, benefits - Problem Solving Skills (PSS): Definition, meaning, effectiveness, developing PSS and creativity / lateral thinking skills - Decision making skill: Meaning, need, types

Unit IV: CAST Skills (L.9, T.2, P.3)

Conflict management - Assertive skill - Stress management: Meaning, types, sources, managing conflicts - Time Management (TM): Meaning, secrets of TM, steps, overcoming procrastination, negotiations, interview skills

Unit V: Skills for Teachers (L.8, T.2, P.3)

Presentation skills: Meaning, components - Listening skills - Employability skills - Perception: Meaning, factors, improving perception - Body language: Meaning, types, observation and improving gesture - Ethics - Etiquette, meaning, benefits - Motivation: Meaning, definition, developing motivation - Emotions - EI, managing emotions - Rational Emotive Behavior Therapy (REBT), Multiple Intelligence

Practicum (any two)

1. Identify the soft skills of your neighbour by a paper pencil test.
2. Prepare some exercises to develop self-esteem.
3. Know yourself through SWOT analysis and prepare a report.
4. Organize group activity to train assertive skills.
5. Write an assignment on developing rational beliefs.

References

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Course XXI: Pedagogy of Special English - IV

B.Ed.: Sem. IV

Course Code: BPE4

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. analyses State Board and CBSE ELT Curriculum
2. acquires the knowledge of phonetics and linguistics
3. comprehends expressions of concepts in English
4. develops the skills of classroom English
5. becomes competent in remedial English teaching

Unit I: ELT Curriculum (L.10, T.2, P.3)

Definition - Principles of curriculum development - Steps of curriculum construction - Contents in ELT curriculum - Types of ELT curriculum - Analysis of State Board and CBSE curriculum. - Action Research: Concept, steps and advantages - Action research in ELT

Unit II: Teaching of Phonetics (L.10, T.2, P.3)

Meaning and definition of phonetics, phoneme, phonology, Received Pronunciation (R.P.), International Phonetic Alphabets (IPA) - Syllable: Meaning and syllable division - Types: Mono-syllabic, disyllabic, tri-syllabic and polysyllabic words - Organs of speech and speech mechanism - Classification of consonant sounds according to place and manner of articulation, description of each phoneme according to place and manner - Classification of 44 English sounds on the basis of voiced and voiceless sounds, differences between voiced and voiceless sounds - Classification of vowels - Diphthongs - Differences between vowel and consonant sounds - Transcription of a given passage in phonetic script - Analysis of phonetic exercises given in the Tamil Nadu state board English textbook - Stress: Meaning, primary and secondary stress, word stress and sentence stress - Intonation: Meaning and types: Falling, Rising, Falling-rising and Rising-falling - Usage - Intonation marking

Unit III - Teaching of Linguistics (L.10, T.2, P.3)

Linguistics: Meaning and definition - Scope of theoretical and applied linguistics - Components of linguistics: Phonetics, phonology, morphology, syntax, semantics and pragmatics - Morphology: Definition - Morpheme: Meaning - Classification of morphemes: Free and bound morphemes - Syntax: Definition - Basic constituents of structures: Noun phrase, verb phrase, adjective phrase, adverb phrase and prepositional phrase - Basic structure of a NP: MHQ (Modifier, Head, Qualifier) - Different types of NP structures: H type, MH type, HQ type and MHQ type - Analysis of constituents of structures using tree diagram - Semantics: Definition - Pragmatics: Definition

Unit IV: Expressions of Concepts in English (L.8, T.2, P.3)

Idiomatic expressions - Phrasal expressions - Phrasal verb expressions - Informal and formal expressions - Greeting - Concluding - Giving instructions - Clarifying - 'Wh' questions for a class - Verbal questions for a class

Unit V: Bridging the Gap in ELT (L.12, T.2, P.3)

Bridge course: Meaning, designing a bridge course - Remedial English: Need, planning and organizing different remedial activities at school level - English for Specific Purposes (ESP): Definition, classification, English for Academic Purposes (EAP), English for Occupational Purposes (EOP)

Practicum (any two)

1. Compare IX standard State Board and CBSE English's textbook.
2. Create a digital presentation on Phonetics.
3. Select a paragraph and analyze its linguistic aspects.
4. Collect the idioms and phrases used in an English newspaper.
5. Prepare a file on expressions of concepts in English.

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Course XXI: சிறப்புத் தமிழ் கற்பித்தல் - IV

B.Ed.: Sem. IV

Course Code: BPT4

Credit: 3

கற்றல் விளைவுகள்:

ஆசிரிய மாணவர்

1. கலைத்திட்டத்தில் தாய்மொழி பெறுமிடம் பற்றி அறிந்து கொள்கிறார்
2. மொழியியல் கோட்பாடுகளை அறிந்து கொள்கிறார்
3. மொழியின் பல்வேறு வளர்ச்சி நிலைகள் பற்றி அறிந்து கொள்கிறார்
4. வகுப்பறைத்திறன்கள் மேம்படுத்துதல் உணர்ந்து பயிற்சி பெறுகிறார்
5. தமிழ் வளர்த்த பெரியவர்கள் மற்றும் கிறித்துவர்கள் தமிழ்ப்பணியை அறிந்து கொள்கிறார்

அலகு I: கலைத்திட்டத்தில் தாய்மொழி பெறுமிடம் (L.14, T.2, P.3)

கலைத்திட்டம் - கல்வியின் நோக்கம் - தேசியக் கல்விக்கொள்கை: நோக்கங்கள், குறிக்கோள்கள், பரிந்துரைகள் - கலைத்திட்டத்தில் தாய்மொழியின் இடம் - கலைத்திட்டம் உருவாக்குவதில் அடிப்படைக் கொள்கைகள் - கலைத்திட்டத்திற்கும் பாடத்திட்டத்திற்குமுள்ள வேறுபாடுகள்

அலகு II: மொழியியல் கோட்பாடு (L.14, T.2, P.3)

மொழித்தோற்ற கொள்கைகள் - ஒலி மொழியாதல் - தமிழ் ஒலிகளின் பிறப்பு - பேச்சு உறுப்புகளும் செயல்பாடுகளும் - ஒலியனியல் - ஒலியன்களைக் கண்டறிவதற்குத் துணைபுரியும் கொள்கைகள் - பிறப்பு அடிப்படையில் உயிரொலிகள், மெய்யொலிகள்

அலகு III: மொழியின் பல்வேறு வளர்ச்சி நிலைகள் (L.8, T.2, P.3)

மொழிபெயர்ப்பு: விளக்கம், நோக்கங்கள், வகைகள், சிக்கல்கள், நன்மைகள் - மொழிபெயர்க்கும் போது கடைப்பிடிக்க வேண்டியவை - அறிவியல் தமிழ்: அறிவியல் தமிழ் முதன்மைப் பெற செய்ய வேண்டுவன, ஆக்க வழிமுறைகள் - தமிழ் ஆட்சி மொழி நீதி மன்ற மொழியாய் செயல்படுவதால் ஏற்படும் பயன்கள் - பிறமொழிச்சொற்கள்

அலகு IV: வகுப்பறைத்திறன்களை மேம்படுத்துதல் (L.8, T.2, P.3)

இலக்கிய கழகங்களின் அமைப்பும் செயல்முறையும், பயன்கள் - எழுத்தாற்றலை வளர்த்தல்: பள்ளி இதழ், கையெழுத்து இதழ்கள் தயாரித்தல் - படைப்பாற்றல் வளர்க்க உதவும் சூழல் - படைப்பாற்றல் வடிவம், தலைப்புத்தருதல், குறிப்புத்தருதல், முடிவை மாற்றித் தருதல்

அலகு V: தமிழ் வளர்த்த சான்றோர்கள் (L.6, T.2, P.3)

உமறுப்புலவர், வீரமாமுனிவர், டாக்டர் கால்டுவெல், ஜி.யு. போப், தேவநேயப் பாவாணர், புதுமைப்பித்தன், வரதராசனார், கி. இராஜநாராயணன், ஜெயகாந்தன், அப்துல் ரகுமான், அ. லார்துசாமி, சே.ச.

செய்முறை பயிற்சிகள் (ஏதேனும் இரண்டு)

1. சங்க இலக்கியப் பாடல் ஒன்றினை நாடகமாக்குக.
2. புதுமைப்பித்தன் சிறுகதைகளுள் ஒன்றினை நாடகமாக எழுதுக.
3. கையெழுத்துப் பிரதி ஒன்றினை உருவாக்குக.

4. உரைச்சித்திரம் ஒன்று எழுதுக.
5. ஏதேனும் ஒரு இலக்கிய நூல் பற்றி திறனாய்வு கட்டுரை எழுதுக.

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Course XXI: Pedagogy of Computer Science - IV

B.Ed.: Sem. IV

Course Code: BPC4

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. analyzes the curriculum construction in computer science
2. identifies the specific qualities of a good teacher
3. develops skill in preparing CBI courseware
4. acquires knowledge on various google apps in education
5. understands the basic concepts of Python

Unit I: Curriculum Construction in Computer Science (L.8, T.2, P.3)

Meaning - Curriculum, Difference between curriculum and syllabus - Principles of curriculum construction - Selection and organization of content - Approaches in curriculum construction - Critical evaluation of Tamilnadu Higher Secondary Computer Science Curriculum

Unit II: Computer Science Teacher (L.9, T.2, P.3)

Academic and professional qualification of a Computer Science teacher - Qualities - In-service training - Evaluation of teachers: Rating by supervisor or peers - Self-evaluation - Evaluation by prospective teachers - Online Assessment tools for teachers

Unit III: Design and Development of CBI Courseware (L.10, T.2, P.3)

Courseware - Writing objectives - Task analysis - Media selection issues - Development styles and screen design - Testing and evaluation - Integrated unitized package - Implementation of software - Criteria for evaluation of a courseware

Unit IV Google apps and Chrome Extensions used in Education (L.12, T.2, P.3)

Google Drive features: Google docs, Google slides, Google sheets, Google forms, Google classroom, Google blogger, Google Sites, and Google calendar – Extension features: Certify Em, Flubaroo, Kami extension, Zorbi, and other applications

Unit V: Computer Language - Python - (Standard - XII) (L.11, T.2, P.3)

Python - Variables and Operators - Control structures - Python functions - Strings and String manipulations - Lists, Tuples, Sets and Dictionary - Python Classes and objects - Database concepts - SQL - Python and CSV files - Importing C++ files in Python - Data manipulation through SQL

Practicum (any two)

1. Develop a courseware material for secondary curriculum.
2. Conduct peer assessment using any one online assessment tool. Evaluate the same using rubrics and write a reflective report.
3. Organize an online quiz for your classmates in the classroom.

4. Create a student database for complete reference.
5. Design a CSV address book using Python.

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Course XXI: Pedagogy of Mathematics - IV

B.Ed.: Sem. IV

Course Code: BPM4

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. understands the historical developments leading to concepts in modern Mathematics
2. analyses the Mathematics curriculum at the secondary level
3. applies the implication of learning theories in classroom situation
4. acquires the knowledge of learning resources in Mathematics
5. develops the competencies in effective teaching

Unit I: Historical Developments in Mathematics (L.9, T.2, P.3)

Historical development of notations and number systems (Egyptians, Babylonians, Chinese, Greeks, Romans, Mayans, Hindu-Arabic System) - Biography and contributions of Indian and Western Mathematicians: Aryabhata, Bhaskaracharya, Ramanujam, Euler, Euclid, Pythagoras

Unit II: Curriculum Construction in Mathematics (L.8, T.2, P.3)

Curriculum: Definition and principles - Content selection - Methods of organization of content: Psychological, logical, unitary, integrated, topical and spiral - Critical evaluation of Mathematics syllabus at the secondary stage

Unit III: Theories of Learning Mathematics (L.12, T.2, P.3)

Psychological theories - Piaget, Bruner - Mathematical theory: Repair theory of learning - McCarthy's 4 MAT model of teaching and learning - Concept attainment model (Reception, Selection and unorganized), advanced organiser model and inquiry training model

Unit IV: Learning Resources in Mathematics (L.9, T.2, P.3)

Mathematics library - Need and importance - Mathematics text book: Need and qualities - Mathematics workbook: Function and characteristics - Mathematics club: Functions, organisation and activities - Field trip and its Advantages - Mathematics laboratory: Need, material and equipments - Mathematics journal

Unit V: Developing Effectiveness and Techniques of Teaching and Learning Mathematics (L.11, T.2, P.3)

Managing individual differences - Developing speed and accuracy in Mathematics - Remedial measures for slow learners and the differently abled in the classroom - Meaningful learning: Principles - Drill and review: Principles and advantages - Graded assignments: Steps, uses - Types: Class assignment and home assignment - Self study: Meaning, importance - Group work - Supervised study: Meaning, merits and limitations - Qualities of a good teacher, professional growth and developing proficiency in Mathematics teaching

Practicum (any two)

1. Conduct a quiz competition in Mathematics and write a reflective report.
2. Critically analyse the content of Standard X Mathematics textbook.
3. Organize a field trip and write a reflective report based on it.
4. Analyze any article from a Mathematics Journal.
5. Prepare a list of books and equipments needed for a Mathematics library.

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Course XXI: Pedagogy of Physical Science - IV

B.Ed.: Sem. IV

Course Code: BPP4

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. acquires knowledge about the meaning, principles of curriculum and the various curricular improvement project
2. understands various models of teaching Physical Science
3. analyzes the emerging strategies in teaching Physical science
4. provides opportunities to familiarize with the problems of organizing and maintaining a general science laboratory
5. understands the various roles and responsibilities of Physical Science teacher

Unit I: Physical Science Curriculum (L.9, T.2, P.3)

Meaning and Scope - Principles of Curriculum Construction, Selection and Organization of Science Content, Types of Curriculum - Approaches to Curriculum Organization: Spiral Approach, Concentric Approach, Nature Study, Topic Method - Curriculum Improvement Projects in India - UNESCO, UNICEF - Curriculum Improvement Project Abroad - PSSC, CHEM study and Nuffield projects

Unit II: Models of Teaching Physical Science (L.7, T.2, P.3)

Models: Meaning, Definition, Nature, Elements, Uses - Concept Attainment Model, Advanced Organiser Model, Inductive Thinking Model, Inquiry Training Model with one Illustration for each type of Model - Gagne and Piaget Theory in Science Teaching

Unit III: Emerging Strategies for Teaching Physical Science (L.12, T.2, P.3)

Cooperative Learning - Types and Methods - Brain-Based Learning - Collaborative Learning - Flipped Learning - Blended Learning - e-Learning, m-Learning: Advantages and Disadvantages

Unit IV: Physical Science Laboratory (L.15, T.2, P.3)

Physical Science Laboratory - Structure and Design: White House Plan, Organization and Maintenance of Physical Science Laboratory, Administration, Grouping of Pupils, Instruction to Pupils, Discipline in the Laboratory, Laboratory Manual -Stock Registers, Instruction Cards - Safety Precautions - Some Common Laboratory Mishaps and their Remedies, Preparation of Indent - Science Kits

Unit V: Physical Science Teacher (L.7, T.2, P.3)

Qualities of a Good Science Teacher - Duties and Responsibilities of a Science Teacher - Teaching as a Profession - Professional Growth of Physical Science Teachers: In-service Training - Different Roles of Science Teacher: Mentor, Scaffolder, Social Engineer, Knowledge Worker, Supervisor, Facilitator and Leader

Practicum (any two)

1. Design a plan for a Physical Science class using any one of the emerging strategies.
2. Critically analyze the different roles of Science teacher in the context of your internship practice.
3. Write a lesson plan from standard VIII or IX based on models of teaching.
4. Develop a multimedia package on any one content in Physical Science.
5. Prepare a laboratory instructional card (2 experiments).

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Course XXI: Pedagogy of Biological Science - IV

B.Ed.: Sem. IV

Course Code: BPB4

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. acquires the principles of curriculum construction
2. acquaints with different models of teaching biological science
3. comprehends the special qualities of good biological science teacher
4. identifies the significance and value of National Talent Search Scheme (NTSS)
5. understands the recent trends in biological science

Unit I: Biological Science Curriculum (L.10, T. 2, P.3)

Curriculum: Definition - Concept - Science curriculum at different stages: Primary, upper primary, secondary and higher secondary - Principles to be observed in the selection of subject content - Arrangement of syllabus: Logical, psychological, concentric, topical, historical and biographical - NCERT curriculum - Biological Science Curriculum Studies (BSCS) - Nuffield science projects

Unit II: Models of Teaching Biological Science (L.8, T. 2, P.3)

Models of teaching: Definition, characteristics, functions and sources - Elements of a model - Types: Concept attainment model, advance organizer model, Synectics and Biological science enquiry training model

Unit III: Professional Development of Biology Teacher (L.12, T. 2, P.3)

Biology teacher: Academic and professional qualifications, special qualities needed for a Biology teacher - Professional development programmes: In-service training - Seminar, conferences and orientation courses - Role of reflective practices in professional development of Biology teachers: Field visits, visit to botanical garden, science centre, zoo - Evaluation of teaching competency: Self evaluation, pupil's evaluation and colleagues evaluation

Unit IV: National Talent Search Scheme (L.10, T. 2, P.3)

Objectives - Eligibility - Procedure of selection for NTS scholarship - Value of scholarship - The follow-up programme of the Awardees - Summer schools for NTS scholars - Programme of summer schools - Sample test items - State Science Talent Search Programmes

Unit V: Recent Trends in Biological Science (L.10, T. 2, P.3)

Concept and meaning: Plant science - Animal science - Microbiology - Applied science - Physical science - Biochemistry - Biophysics - Developmental biology behaviour and Neurophysiology - Population genetics and evolution - Genetic engineering

Practicum (any two)

1. Visit to a zoological park or botanical garden and prepare a report.
2. Prepare a digital presentation on models of teaching.
3. Develop a few questions to evaluate the teaching competency of your peers.
4. Write the historical background of NTS scheme in India.
5. Visit any Biology lab and prepare a report.

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Course XXI: Pedagogy of History - IV

B.Ed.: Sem. IV

Course Code: BPH4

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. understands the principles of curriculum designing
2. realizes the importance of resources and equipment in teaching History
3. develops interest for professional growth and enrichment
4. responds to the needs of various types of learners
5. acquires practical knowledge about the recent trends in directing students' participation

Unit I: Curriculum Designing for History (L.12, T.2, P.3)

Curriculum and syllabus: Meaning, definition and difference - Principles of curriculum designing - Theories influencing selection of materials: Culture epoch theory, proceeding from near to remote, doctrine of natural tastes and interests - Organization of content: chronological, topical, concentric, spiral, regressive and unit approaches

Unit II: Resources and Equipments (L.10, T.2, P.5)

History classroom library: Need, importance and essential equipments - Textbook: Meaning, importance and qualities - Collateral reading: Objectives, types and materials - History club: Objectives and activities - History room: Need and essential equipments - History museum: Importance and essential equipments - Community resources: Guest lectures and community survey - Archaeological resources

Unit III: History Teacher (L.12, T.2, P.2)

Essential qualifications and qualities - Pre-service and In-service training: Meaning, need, importance, agencies and problems related to in-service training - History teacher and current affairs: Meaning, nature, scope, objectives, criteria for selecting current affairs and special role of a History teacher - History teacher and controversial issues: Meaning, types, criteria for selecting controversial issues and role of a History teacher - History teaching and national integration: Meaning, need, problems, co-curricular activities and role of History teaching - History teaching and international understanding: Meaning, need, barriers, co-curricular activities and role of History teaching

Unit IV: Catering to Learning needs of Students (L.10, T.2, P.3)

Diagnosis of children: Meaning, grouping, tools used to group and importance - Enrichment programmes: Project: Meaning, definition, principles, characteristics, steps, types, merits and demerits - Discussion: Meaning, forms, constituents, advantages, disadvantages and role of a History teacher - Supervised study: Meaning, need, methods, merits and demerits - Remedial teaching: Meaning, aims, principles, need, procedures, strategies for remediation, merits and demerits.

Unit V: Techniques for Directing Student's Participation (L.8, T.2, P.2)

Students' Participation: Meaning - Forms: Group or individual Participation: Techniques: Intellectual and manipulative - Intellectual: Recitation, drill, review, note taking, use of work book, debate and role play - Manipulative: Preparation of charts, picture album, scrap book, time line, models, interpreting pictures and reading of history related books

Practicum (any two)

1. Analyze the content of the IX Standard Social Science textbook.
2. Write a reflective report on your visit to a close by museum.
3. Prepare the life sketch of any one of your History teacher.
4. Conduct a debate on current events and prepare a reflective report.
5. Create a role play for any historical event.

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Course XXII: Pedagogy of General English - IV

B.Ed.: Sem. IV

Course Code: BPGE4

Credit: 3

Course Learning Outcomes:

The prospective teacher

1. comprehends the position of English in India
2. acquires the knowledge of teaching, and testing of listening and speaking skills
3. acquires the knowledge of testing reading and writing skill
4. analyses the content of English text book at secondary level
5. enhances professional competencies

Unit I: Position of English in India (L.8, T.2, P.3)

English as a colonial language - English in post-colonial times - Status of English in India: Need and value of English in the contemporary age - Language policy - Causes for the poor standard of English - Suggestions for improving the standard of English

Unit II: Teaching, Developing and Testing of Listening and Speaking Skill (L.12, T.2, P.3)

Listening: Types - Active and passive - Kinds of listening materials: Authentic, recorded and live - Listening skills to be developed at primary, secondary and higher level - Three phases of teaching listening skill - Listening activities: Dictation, reading for comprehension, listen and do, draw, repeat and answer activities, listening to radio, television, telephone call and writing the message - Testing of listening - Role of the teacher - Speaking: Basic functions of a language, need, activities for developing oral fluency - Conversation class, discussion class, tongue-twisters, task-centred group activities, creation of language L2 environment, dialogue, role play, narrating incidents, poem recitation and stories, describing persons and things, speech sounds and their symbols, minimal pairs, stress, testing of spoken English skill - role of the teacher

Unit III: Teaching, Developing and Testing of Reading and Writing Skill (L.10, T.2, P.3)

Reading: Importance - Types of reading: Silent and loud, intensive and extensive - Techniques: Skimming and scanning - Methods of teaching reading to the beginners: Alphabetic method, phonic method, word method, phrase method, sentence method and eclectic method - problems in reading, improving the speed of reading, role of text book in developing reading skill, testing of reading skill - Writing: Need for good handwriting - Types of handwriting: Print, italic and cursive - Characteristics of good handwriting - Activities for developing writing skill at primary, secondary and higher level - Mechanics of writing: Good handwriting, spelling and punctuation - Contribution of composition - Testing of writing skill

Unit IV: Textbook and Teaching of English (L.12, T.2, P.3)

Psychological and linguistic principles of teaching English - Merits of skill based teaching - Difference between L1 and L2 teaching-learning process - Textbook: Need and functions of a textbook, characteristics of a good textbook - Analysis of textbooks and its

activities for effective teaching-learning process - Language laboratory: Concept, requirements, infrastructure facility, hardware and software, teacher's role, evaluation - Computer Assisted Instruction (CAI), Computer Assisted Language Learning (CALL)

Unit V: Enhancing Professional Competencies of an English Teacher (L.8, T.2, P.3)

Factors affecting language learning - Role and competencies of a good English language teacher - Challenges in teaching of English for the second language learners - Developing the professional competencies of an English teacher

Practicum (any two)

1. Create a digital presentation on the skills needed for an English teacher.
2. Write a critical review on English reader of IX or X standard textbook.
3. Construct a vocabulary file based on at least three dictionaries (Minimum 10 words).
4. Draw a vocabulary chart based on intensive teaching practice (Minimum 10 words).
5. Develop a CAI package to teach grammar at secondary level.

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Course XXII: பொதுத் தமிழ் கற்பித்தல் - IV

B.Ed.: Sem. IV

Course Code: BPGT4

Credit: 3

கற்றல் விளைவுகள்:

ஆசிரிய மாணவர்

1. பண்டைய, தற்கால பயிற்றுமுறைகளை அறிந்து கொள்கிறார்
2. புதிய அணுகு முறைகளை அறிந்து கொள்கிறார்
3. பாடநூலின் தன்மையைப் பற்றி அறிந்து கொள்கிறார்
4. மொழிப்பயிற்சியின் இன்றியமையாமையை உணர்ந்து பயிற்சி பெறுகிறார்
5. தமிழ் கற்பித்தலில் தகவல் தொழில் நுட்பம் பற்றி அறிந்து கொள்கிறார்

அலகு I: பயிற்றுமுறைகள் (L.14, T.2, P.3)

சங்ககால தாய்மொழி பயிற்று முறைகள் - மொழியாசிரியர்கள் அறிந்திருக்க வேண்டிய அடிப்படை விதி, மொழியாசிரியர் தகுதிகள், பண்புகள் - பண்டைய, தற்காலிக பயிற்று முறைக்குள்ள வேறுபாடுகள் - பண்டைய பயிற்று முறையின் நிறை, குறைகள் - பயிற்று முறையில் தொல்காப்பியர் கருத்துகள் - நன்னூலார் கருத்துகள் - நூல்களும் அதன் வகைகளும் - ஆசிரியர், மாணவர் தகுதி, பண்பு - கற்பிக்கும் முறை, மாணவர் கேட்கும் முறை

அலகு II: கற்பித்தலில் புதிய அணுகு முறைகள் (L.12, T.2, P.3)

குழுமுறைகள்: கிண்டர்கார்டன் முறை, விளையாட்டு முறை, செயல்திட்ட முறை, வார்த்தா கல்வி முறை, நடிப்பு முறை விளக்கங்கள், நிறைகள், குறைகள் - தனிமுறைகள்: தனிப்பயிற்சி முறை, டால்டன் திட்டம், மாண்டிசோரிமுறை, மேற்பார்வை படிப்பு, கண்டறி முறை விளக்கங்கள், நிறைகள், குறைகள்

அலகு III: பாடநூலும் தன்மையும் (L.10, T.2, P.3)

பாடநூல்கள்: நல்லியல்புகள், சிறந்த பாட நூல் தயாரிப்பின் போது மனதிற்கொள்ளத்தக்கவைகள் - இலக்கியத் திறனாய்வு கொள்கைகள்: திறனாய்வு தோற்றங்கள், இன்றைய திறனாய்வு நிலைகள், வகைகள்: விளக்க முறை, படைப்பு வழித் திறனாய்வு - மரபு வழி, விதி முறை, அழகியல், பாராட்டு, மதிப்பீட்டு, வரலாற்று ஒப்பீடு, பகுப்பு, இலக்கிய ஆய்வு நெறிமுறைகள்

அலகு IV: பள்ளி நூலகம் (L.6, T.2, P.3)

வகுப்பு நூலகம் - வகுப்பு நூலகங்களில் வைப்பதற்கான நூல் தேர்ந்தெடுக்கும் போது கவனத்தில் கொள்ளத்தக்கவைகள் - பள்ளி நூலகம் - மேற்கோள் நூலகம் - பார்வை நூல்கள்: நிகண்டுகள், அகராதி, கலைக் களஞ்சியம், அபிதான சிந்தாமணி, மொழியாசிரியர் கடமை

அலகு V: தமிழ் கற்பித்தலில் தகவல் தொழில் நுட்பம் (L.8, T.2, P.3)

மொழிப்பயிற்றாய்வு கூடம் அமைப்பு, பயன் - கணினித் தமிழ்: கணினி வழி மொழிக் கற்பித்தல், பயன்கள் - இலக்கண இலக்கியம் கற்பித்தல் - இணையம்: இணைய வழிக்கல்வி, தமிழ் இணையத்தின் சிறப்பு, தமிழ் இணையப் பல்கலைக்கழக நோக்கம், குறிக்கோள் - மொழிக்கல்வி குறுந்தகடு - பல்லாடகம் வழி தமிழ் கற்பித்தல்

செய்முறை பயிற்சிகள் (ஏதேனும் இரண்டு)

1. ஒப்படைப்புத்தாள் ஒன்று தயார் செய்க.
2. செய்யுள் ஒன்றிற்கு இணையதள ஒப்பீடு தயார் செய்க.
3. வாக்கிய வகைகளைச் சான்றுடன் எழுதுக.
4. கணினி வழி இலக்கண இலக்கியம் சார்ந்த பாடத்தொகுப்பு தயார் செய்க.
5. மொழிப்பயிற்றாய்வுக்கூடம் பற்றி கட்டுரை ஒன்று எழுதுக.

பார்வை நூல்கள்

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Course XXIII: Education of Exceptional Children

B.Ed.: Sem. IV

Course Code: BEEC

Credit: 2

Course Learning Outcomes:

The prospective teacher

1. understands the concept of children with special needs
2. identifies the problems of exceptional children
3. cultivates new attitudes towards special children
4. familiarizes with national declarations and educational schemes for exceptional children
5. develops classroom strategies involving inclusive practices

Unit I: Exceptional Children (L.5, T.2, P.2)

Exceptional Children: Definition, Characteristics, Needs and problems - Concept of impairment, disability and handicap by WHO - Positive, negative and multiple exceptionalities - Growth and development of exceptional children - influence of Heredity and Environment on Special children.

Unit II: Physically, Intellectually and Socially Exceptional (L.7, T.2, P.2)

Physically Exceptional: Ortho, Visual and Hearing - Their characteristics, causes and educational needs - Intellectually Exceptional: Gifted, Slow and Retarded - Characteristics, causes and educational needs - Dyslexia, Dyscalculia and Dysgraphia - Socially Disadvantaged on the basis of sex, language, religion, culture - Causes, problems and educational measures

Unit III: Approaches and Perspectives (L.5, T.2, P.2)

Tracing the history of education of exceptional children - Approaches of viewing Disabilities: Cross disability approach, Charity model, bio-centric model, functional model and human rights model - Concept of special, integrated and inclusive schools: merits and demerits of above schools

Unit IV: National Declarations and Educational Schemes (L.7, T.2, P.2)

The Persons With Disabilities Act (PWD Act) 1995 - The Rehabilitation Council of India Act (RCI, 1992) - Right to Education Act (2009) - Education of Special Group of Children with SSA (2000) - Comprehensive Action Plan for Children with Disabilities (2005) - Inclusive Education for Disabled at Secondary School (IEDSS, 2009)

Unit V: Inclusive Practices in Classrooms (L.6, T.2, P.2)

Components of Inclusive Classrooms - Adaption of curriculum - Classroom management - Lesson Plan - Individualized Education Plan (IEP): Definition, development and implementation - Role of special teacher, speech therapist, psycho therapist, occupational therapist and counsellor in inclusive education - Assistive Technology

Practicum (any two)

1. Create a digital presentation on the types of exceptional children.
2. Visit a school for differently abled children and write a reflective report.
3. Critically observe Resource Rooms in Inclusive schools. Submit your reflective report and suggestions.
4. Write a reflective report on the welfare schemes of Government of Tamil Nadu for differently abled children.
5. Prepare an album on assistive technology.

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Course XXIII: Gender Issues in Education

B.Ed.: Sem. IV

Course Code: BEGI

Credit: 2

Course Learning Outcomes:

The prospective teacher

1. acquires knowledge about the core concepts of gender studies
2. understands the major shift in gender studies
3. learns the various theories on gender
4. familiarizes with the gender issues in education
5. comprehends the gender violence and their remedies

Unit I: Concepts of Gender Studies (L.5, T.2, P.2)

Meaning and definition: Gender, sex, sexuality, transgender, patriarchy, matriarchy, masculinity and feminism - Social norms and implication of sexuality - Gender bias - Gender stereotype - Gender role: Family, Society, Caste and Religion

Unit II: Gender Issues (L.6, T.2, P.2)

Social reform movements in 19th Century in India - Gender inequality: Meaning and definition and causes - Gender inequality across the: Family, society, educational institutions and work place - Gender identity: Meaning, definition and role of teacher in identity formation

Unit III: Theories on Gender (L.6, T.2, P.2)

Theories: Functionalist, conflict, symbolic interaction and feminist - Schooling of girls - Empowerment of girl child - Gender issues in media - Objectification of women in Print media, TV, Cartoons and cinema

Unit IV: Gender Issues in Education (L.6, T.2, P.2)

Gender issues: Text book, classroom practices and pedagogy - Gender based education and curriculum: Meaning and definition - Gender difference in text book - Role of teachers in maintaining gender equality in classroom

Unit V: Gender violence and Remedies (L.7, T.2, P.2)

Gender violence: Meaning and definition - Types of violence against women - Factors restricting progress of women and Remedies - The sexual harassment of women at workplace act 2013 - Protection of children from sexual offences act 2012 (POCSO)

Practicum (any two)

1. Prepare a digital presentation on any one of the topic from the above units.
2. Make posters on gender issues.
3. Suggest ways and means of improving the schooling of girls.
4. Write a reflective report on women issues of your locality by taking a survey.
5. Take a survey on gender violence of your locality and submit the reflective report.

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Course XXIV: Vision of Education in India

B.Ed.: Sem. IV

Course Code: BEVI

Credit: 2

Course Learning Outcomes:

The prospective teacher

1. acquires knowledge about the historical development and vision of Indian education
2. understands the relationship between society and education
3. recognizes the issues and challenges of contemporary Indian schooling system
4. comprehends the emerging global concerns on education
5. identifies the role of various educational agencies

Unit I: Education in India (L.14, T.2, P.3)

Aims and Objectives of Education at National Level - Vision of Indian Education at Different Levels - Vision of Sri Aurobindo Ghosh - Vision 2020 of Dr. A.P.J. Abdul Kalam and Vision 2023 of Tamil Nadu Government

Unit II: Indian Society and Education (L.6, T.2, P.3)

Aspirations of Indian Society: Nationalism, Social Order, Social Justice and Universalism - Role of Education Relevant to Indian Society - Problems of Indian Society - Education and Indian Social Structure - School as a Social Unit - Vision of Teacher Education

Unit III: Contemporary Indian Schooling: Concerns and Issues (L.10, T.2, P.3)

Right to Education bill and its Provisions - Equality and Equity: Challenges - Wastage: Causes and Remedies - Medium of Instruction - Evaluation and Examination Patterns: Trends and Challenges

Unit IV: Emerging Global Concerns and Education (L.6, T.2, P.3)

Education for Peace: Issues of National and International Conflicts, Social Injustice, Communal Conflict and Individual Alienation - Pro-active Role of Individuals for Peace - Way of Life - Education for Environmental Conservation - Environmental Crises: Global and Local - Action for Environmental Conservation and Regeneration

Unit V: Educational Agencies and Schemes (L.14, T.2, P.3)

Role of educational agencies - Ministry of Education: UGC, DEB, NUEPA, NCTE, NAAC, NCERT, NTA - TANSCH, SCERT - Schemes: RUSA, Integrated Scheme of School Education (ISSE): Samagra Shiksha

Practicum (any two)

1. Create a digital presentation on any one of the topics from the above units.
2. Prepare a reflective report on the strategies to overcome the issues in school.
3. Analyze the criteria to assess a school in terms of quality.

4. Write a report on your pro-active role for Universal peace.
5. Suggest the ways and means to protect river Thamirabarani.

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Course XXIV: Peace Education

B.Ed.: Sem. IV

Course Code: BEPE

Credit: 2

Course Learning Outcomes:

The prospective teacher

1. understands the concept of peace education
2. acquires the knowledge about integration of peace education in curriculum
3. familiarizes the nature of conflicts and their resolutions
4. realises the significance of values of different personalities
5. imbibes the knowledge, attitudes and skills needed to achieve and sustain a global culture of peace

Unit I: Peace Education (L.4, T.2, P.2)

Peace education: Meaning, concepts and nature - Aims and objectives of peace education - Significance of peace education in the curriculum - Determinants of peace

Unit II: Integration of Peace Education in Curriculum (L.4, T.2, P.2)

Modes of integration: Subject content, subject perspectives, teaching methods, co-curricular activities, staff development, classroom management, school management - Practical steps to build peace culture in schools

Unit III: Conflict Resolution (L.8, T.2, P.2)

Bases of conflicts - Positive and negative aspects of conflicts - Types of conflict - Conflict management - Conflict resolution - Role of peace education in resolving conflict - Reducing conflicts among students

Unit IV: Global Issues and Peace Movements (L.8, T.2, P.2)

Factors affecting peace: Human rights, ecology, population, economy, culture, religion and politics - Contributors to peace: Gandhi, Thalailama and Mother Theresa - Non-aligned movement - Campaign for nuclear disarmament - Role of world organizations in promoting peace: UNO, SAARC and Common Wealth Organization

Unit V: Education for a Culture of Peace (L.6, T.2, P.2)

Ecological thinking and respects for life (age 8-12) - Tolerance and respect for human rights (age between 11-16) - Critical thinking and active non-violence (age 12+) - Social justice and civic responsibility (age 14+) - Leadership and global citizenship (age 16+) knowledge, attitude and skills to be learnt in each of them - Classroom activities

Practicum (any two)

1. Collect the peace concept in Thirukkural (any ten) and submit a reflective report.
2. Prepare a reflective report on any one of the NGOs promoting peace.
3. Identify a personality at International level who stood for peace and prepare a reflective report.

4. Find out the factors that affect peace in your area and prepare a reflective report on it.
5. Write a reflective report on cultural barriers in promoting peace.

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Course XXV: Strengthening English Language Proficiency - III

B.Ed.: Sem. IV

Course Code: BES3

Credit: 1

Course Learning Outcomes:

The prospective teacher

1. communicates in English with confidence at any situation
2. faces native speakers with courage
3. adopts interactive approach
4. develops the communication skills in a graded manner based on international framework of learning
5. prepares themselves in tasks for assessment

Communicative Function in Focus (25 hours)

Unit I: Making Logical Deductions (L.2, P.5)

Through investigations - imagining what may have happened and responding - based on the information available - words and phrases (attention to the tone) - Speak on the topic for two minutes: The final exam question paper has leaked, Think of the possible reasons that could have led this, A shop in your neighbourhood was gutted in a fire accident, What do you think may have happened?, You come home and find that all the plants have been uprooted and the flowers are missing. What do you think might have happened?

Unit II: Complaining and Apologizing (L.2, P.4)

Complaining about something - using a rising tone for making apologies - expressions accepting an apology - phrases used while complaining - expressions for apologizing - offering solution to the problem caused - some action that needs to be taken - Speak on any one of the topics: You have broken the window of your neighbour's house while playing cricket. Apologize to them: The street near your school is full of potholes. Complain to the corporation

Unit III: Advising Someone (not) To Do Something (L.1, P.3)

To give advice in a particular situation - questions to give instructions - negative yes/no questions - positive yes/no questions - phrases to start advise - Work with your partner - What advice would you give in these situations, I am worried that I'm getting fat, I hate mathematics. My parents want me to study engineering

Unit IV: Expressing Obligation (L.1, P.3)

To ask a question and suggest a possible answer before the listener replies - using a falling tone while expressing obligation - Phrases to express obligation - Speak on the topic for two minutes: On Your birthday, a poor friend gives you an expensive gift, Anish was standing in a queue at the bank. One person tried to jump the queue. Anish created a scene there

Unit V: Making offers (L.1, P.3)

Making offers in formal, semi-formal, informal situations - making announcements - accepting offers to sound serious and genuine - expression declining offers - making offers with elders, strangers, people in authority - Talk for two minutes: Describe a time when you had offered to help someone, Describe a time when a stranger had offered to help you

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