

ST. XAVIER'S COLLEGE OF EDUCATION

(AUTONOMOUS)

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

Palayamkottai - 627 002, Tirunelveli District, Tamil Nadu, India



SYLLABUS FOR B.ED. PROGRAMME

2026-2028



ST. XAVIER'S COLLEGE OF EDUCATION (AUTONOMOUS)

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

PALAYAMKOTTAI – 627 002, TAMIL NADU, INDIA

OUTCOME BASED EDUCATION (OBE)

Outcome Based Learning B.Ed. Curriculum Framework

Outcome-Based Education (OBE) is a student-centric teaching and learning methodology in which the course delivery and assessment are planned to achieve stated outcomes. It focuses on measuring student performance i.e. outcomes at different levels.

Some important aspects of the Outcome Based Education:

1. **Programme** is defined as the specialization or discipline of a degree. It is the interconnected arrangement of courses, co-curricular and extracurricular activities to accomplish predetermined objectives, leading to the awarding of a degree. For Example: B.Ed. Programme.

2. **Program Educational Objectives (PEOs):** The Programme Educational Objectives of a program are the statements that describe the expected achievements of graduates in their career, and also in particular, what the graduates are expected to perform and achieve during the first few years after graduation.

3. **Programme Learning Outcomes (PLOs):** Program Learning Outcomes are narrower statements that describe what students are expected to be able to do by the time of graduation.

4. **Course** is defined as a theory, practical or theory cum practical subject studied in a semester. For E.g. Educational Psychology.

5. **Course Learning Outcomes (CLOs):** Course Learning Outcomes are statements that describe significant and essential learning that learners have achieved and can reliably demonstrate at the end of a course.

6. Knowledge levels for assessment of Outcomes based on Blooms Taxonomy (BTL):

Level	Parameter	Description
BTL 1	Remembering	It is the ability to remember the previously learned material / information
BTL 2	Understanding	It is the ability to grasp the meaning of material.
BTL 3	Applying	It is the ability to use learned material in new and concrete situations
BTL 4	Analysing	It is the ability to break down material/concept into its component parts/subsections so that its organizational structure may be understood
BTL 5	Evaluating	It is the ability to judge the value of material / concept / statement / creative material /research report for a given purpose
BTL 6	Creating	It is the ability to put the elements together to form a coherent whole; reorganize into a new pattern or structure.

Programme Educational Objectives (PEOs)

St. Xavier's College of Education aims at

1. Providing integral formation to the prospective teachers
2. Preparing the prospective teachers to be Competent, Conscientious, Compassionate, committed and Creative to shape the future citizens of India
3. Equipping the prospective teachers with professional skills of 21st century
4. Orienting the prospective teachers towards the creation of new society based on brotherhood, social justice and dignity of the downtrodden
5. Forming the prospective teachers as the torch bearers of Indian culture, values and ethos

Programme Learning Outcomes (PLOs)

The Programme will enable the prospective teachers to

- PLO 1** : learn the basics of education such as Philosophical, Psychological and Sociological Foundations of Education, Educational Technology and Curriculum Development.
- PLO 2** : familiarize with various teaching methods in their major subjects.
- PLO 3** : develop teaching skills among them.
- PLO 4** : develop the problem-solving skills among them.
- PLO 5** : promote technological skills among them.
- PLO 6** : be innovative, competent and compassionate.
- PLO 7** : imbibe the basic human values.
- PLO 8** : acquire positive attitude towards teaching profession.
- PLO 9** : become committed teachers who would be the agents of social change.
- PLO 10** : hold responsible positions in the society.

**Semester-wise Distribution of Courses
Semester I**

1 Credit = 25 Hours

S. No	Course Code	Course Title	Cre dits	Hours	Marks		
					Internal	External	Total
Core Courses							
1	BCPF	Philosophical Foundations of Education	4	100	30	70	100
2	BCEP1	Educational Psychology-I	4	100	30	70	100
Pedagogy Course I (Any one)							
3	BPB1	Pedagogy of Biological Science-I	3	75	30	70	100
	BPC1	Pedagogy of Computer Science-I			30	70	100
	BPCA1	Pedagogy of Commerce and Accountancy-I			30	70	100
	BPE1	Pedagogy of Special English-I			30	70	100
	BPH1	Pedagogy of History-I			30	70	100
	BPM1	Pedagogy of Mathematics-I			30	70	100
	BPP1	Pedagogy of Physical Science-I			30	70	100
	BPT1	Pedagogy of Special Tamil-I			30	70	100
Pedagogy Course II (Any one)							
4	BPGE1	Pedagogy of General English-I	3	75	30	70	100
	BPGCA1	Fundamentals of Commerce and Accountancy-I			30	70	100
	BPGT1	Pedagogy of General Tamil-I			30	70	100
Experience for Social and Environmental Sensitivity (Electives - Any One)							
5	BEHD	Human Rights and Duties Education	2	50	30	70	100
	BEEE	Environmental Education			30	70	100
	BEVE	Value Education			30	70	100
	BEGC	Guidance and Counselling			30	70	100
	BELI	Library and Information Science Management			30	70	100
	BEYE	Yoga Education			30	70	100
Experience for Teacher Enrichment (Internal)							
6	BES1	Strengthening English Language Proficiency-I	2	50	50	-	50
7	BEAA	Arts and Aesthetics	1	25	50	-	50
8	BEPH	Physical and Health Education	1	25	50	-	50
9	BEMT1	Modern Theatre Skills-I	1	25	25	-	25
10		Preparation for Teaching	2	50			
11		School Exposure (Practical)*	1	25			
		Total Credit	24	600	310		675

***School Exposure (1 Week)**

- **Preparing Profile of a Normal School (Model/State/KV/CBSE/IGCSC) (1 Week)**
(Shall observe the School with regard to infrastructure, equipments, teaching learning materials, functioning, human resources, organization of various activities)

Semester II (2026-28)

S. No	Course Code	Course Title	Credits	Hours	Marks		
					Internal	External	Total
Core Courses							
1	BCSS	Schooling, Socialization and Identity	4	100	30	70	100
2	BCEP2	Educational Psychology-II	4	100	30	70	100
3	BCAL	Assessment of Learning	4	100	30	70	100
Pedagogy Course I (Any one)							
4	BPB2	Pedagogy of Biological Science-II	3	75	30	70	100
	BPC2	Pedagogy of Computer Science-II			30	70	100
	BPCA2	Pedagogy of Commerce and Accountancy-II			30	70	100
	BPE2	Pedagogy of Special English-II			30	70	100
	BPH2	Pedagogy of History–II			30	70	100
	BPM2	Pedagogy of Mathematics-II			30	70	100
	BPP2	Pedagogy of Physical Science-II			30	70	100
	BPT2	Pedagogy of Special Tamil-II			30	70	100
Pedagogy Course II (Any one)							
5	BPGE2	Pedagogy of General English-II	3	75	30	70	100
	BPGCA2	Fundamentals of Commerce and Accountancy-II			30	70	100
	BPGT2	Pedagogy of General Tamil-II			30	70	100
Experience for Teacher Enrichment (Internal)							
6	BES2	Strengthening English Language Proficiency-II	1	25	50	-	50
7	BEMT2	Modern Theatre Skills-II	1	25	25	-	25
Self-study Courses (Internal)							
8	SCGT/ SCTP/ SCTB	Offline (Any one) Gandian Thought/ Thoughts of Periyar/ Thoughts of Bharathiar	1	25	25	-	25
9		Online Course	1	25	-	-	-
Practical's							
		School Exposure*	1	25	-	-	-
		Extension Activity**	1	25	-	-	-
		Total	24	600			600

School Exposure I Week

***1. Preparing Profile of the Special School (1 Week) - 1 Credit**

- Various curricular activities,
- The teaching-learning process in the classroom, ICT use, student participation, classroom management.
- The student teachers shall observe curricular activities for which they may use observation schedules.

****2. Extension Activity**

Mother Teresa Evening Study Centre (MOTESC)

Semester III – School Internship**Phase – 1: Pre-Internship**

Orientation a) to the Heads of the schools with respect to the objectives of internship and their roles, b) unit planning, lesson planning, blueprint and unit tests/diagnostic tests, CCE with student teachers, c) on records to be maintained by student teachers during internship d) the role of student teachers in the schools, forms of evaluation by the mentor, Heads and peers.

Phase – 2: Internship

Lesson Planning, Observation of Senior Teachers, Criticism of Peers, Case Study, Action Research, Students Attendance Register, Progress Report, School Based Activities, Diagnostic Test, Achievement Test, Class timetable, Reflective Journal, Conducting Guidance and Counseling, Unit Test.

Phase – 3: Post Internship

- Presentation of the reflections of internship by student teachers, which will be conducted in smaller group/subject wise and assessed by the supervisors.
- Inviting feedback from cooperating schools.

Group A: Teaching Competence and Practice Teaching			
S.No	Items	Credits	Marks
1.	Micro, Peer & Preliminary Teaching		40
2.	School Internship	16	60
3.	Teaching Competency (External)		100
	Total	16	200
Group B : Lesson Plan, Teaching Learning Materials and Practical Records			
1	Lesson Plan (Ped. I & Ped II)	6	10+10 (2)
2	Observation		10 (1)
3	Criticism		10 (1)
4	Micro Teaching		10 (1)
5	Test and Measurement		10 (1)
6	Subject Club Activities		10 (1)
7	Lab /Science Experiment Album / Software		10 (1)
8	Psychology Experiment		10 (1)
9	Teaching Learning Material (Ped. I & Ped II)		10 +10
10	Educational Technology		10 (1)
	Total	6	120
Group C: School and Community Based Activities Records			
1	School Exposure Record	4	10 (1)
2	School-based Activities		10 (1)
3	Action Research		10 (1)
4	Case Study		10 (1)
5	Textbook Review		10 (1)
6	SUPW		10 (1)
7	Physical Education		10 (1)
8	Seminar & Symposium		10 (1)
9	Reflective Journal		10 (2)
	Total	4	90
	Grand Total	26	410

Semester IV

S. No	Course Code	Course Title	Credits	Hours	Marks		
					Internal	External	Total
Core Courses							
1	BCCSM	Curriculum and School Management	4	100	30	70	100
2	BCSD	Soft Skills Development	4	100	30	70	100
3	BCIE	Innovations in Education	4	100	30	70	100
Pedagogy Course I (Anyone)							
4	BPB3	Pedagogy of Biological Science-III	3	75	30	70	100
	BPC3	Pedagogy of Computer Science-III			30	70	100
	BPCA3	Pedagogy of Commerce and Accountancy-IV			30	70	100
	BPE3	Pedagogy of Special English-III			30	70	100
	BPH3	Pedagogy of History-III			30	70	100
	BPM3	Pedagogy of Mathematics-III			30	70	100
	BPP3	Pedagogy of Physical Science-III			30	70	100
	BPT3	Pedagogy of Special Tamil-III			30	70	100
Experience for Social and Environmental Sensitivity (Electives-Any One)							
5	BEEC	Education of Exceptional Children	2	50	30	70	100
	BEG1	Gender Issues in Education			30	70	100
	BEVI	Vision of Education in India			30	70	100
	BEPE	Peace Education			30	70	100
	BEDM	Disaster Management			30	70	100
	BECCS	Cyber Crime and Cyber Security			30	70	100
	BEPAE	Parenting Education			30	70	100
Experience for Teacher Enrichment (Internal)							
6	BES3	Strengthening English Language Proficiency-III	1	25	50	-	50
7	BESKC	Subject Knowledge Competency (SKC)	1	25	50	-	50
8	BEUL	Utilization of Library Resources	1	25	20	-	20
Self-study Courses (Internal)							
9	SCTA / SCTBD / SCKT	Offline (Any one) Thoughts of Ambedkar / Thoughts of Bharathidasan / Thoughts of Kamarajar	1	25	25	-	25
10		Online Course	1	25		-	
Extension Activities (Practical's)							
		Social Project (Internal)	1	25			
		Visit to ARCH	1	25			
		Total	24	600			645

Theory - Summary

S. No.	Particulars	Number of Courses	Credits	Number of Hours	Maximum Marks
1.	Core Courses	8	32	800	800
2.	Pedagogy Courses	5	15	375	500
3.	Experience for Social and Environmental Sensitivity (Electives)	2	4	100	200
4.	Experience for Teacher Enrichment	9	10	250	370
5.	Self-study Courses (Online Offline)	4	4	100	50
Total			65	1625	1920

Practical - Summary

S. No.	Particulars	Credits	Maximum Marks	
			Pedagogy-I & II	Total
1.	Group A: Teaching Competence and Practice Teaching Preparation for Teaching Practice Microteaching Peer Teaching & Preliminary Teaching Internship Teaching Competency	1 1 16 - - - -	20 10+10 60 100 - - -	200
2.	Group B : Lesson Plan, Teaching Learning Materials and Practical Records	6	120	120
3.	Group C: School and Community Based Activities Record	4	90	90
4.	Group D: School Exposure & Extension Activities	5	-	-
Total		33	410	410

Summary

Semester	Credits	Marks
I	24	675
II	24	600
III	26	410
IV	24	645
Total	98	2330

Syllabus

S.No.	Content	Pg. No.
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Semester I

Core Courses

1.	Course I	:	Philosophical Foundations of Education	12
2.	Course II	:	Educational Psychology - I	16

Pedagogy Courses

3.	Course III	:	Pedagogy of Biological Science - I	19
4.	Course III	:	Pedagogy of Computer Science - I	22
5.	Course III	:	Pedagogy of Commerce and Accountancy-I	25
6.	Course III	:	Pedagogy of Special English - I	28
7.	Course III	:	Pedagogy of History - I	31
8.	Course III	:	Pedagogy of Mathematics - I	34
9.	Course III	:	Pedagogy of Physical Science - I	37
10.	Course III	:	சிறப்புத் தமிழ் கற்பித்தல்- I	40
11.	Course IV	:	Pedagogy of General English - I	42
12.	Course IV	:	Fundamentals of Commerce and Accountancy-I	45
13.	Course IV	:	பொதுத் தமிழ் கற்பித்தல்- I	48

Experience for Social and Environmental Sensitivity

14.	Course V	:	Human Rights and Duties Education	50
15.	Course V	:	Environmental Education	53
16.	Course V	:	Value Education	56
17.	Course V	:	Guidance and Counselling	59
18.	Course V	:	Library and Information Science Management	62
19.	Course V	:	Yoga Education	65

Experience for Teacher Enrichment

20.	Course VI	:	Strengthening English Language Proficiency - I	67
21.	Course VII	:	Arts and Aesthetics	69
22.	Course VIII	:	Physical and Health Education	71
23.	Course IX	:	Modern Theatre Skills - I	73

Semester II

Core Courses

24.	Course X	:	Schooling, Socialization and Identity	75
25.	Course XI	:	Educational Psychology – II	78
26.	Course XII	:	Assessment of Learning	81

Pedagogy Courses

27.	Course XIII	:	Pedagogy of Biological Science - II	84
28.	Course XIII	:	Pedagogy of Computer Science - II	87
29.	Course XIII	:	Pedagogy of Commerce and Accountancy-II	90
30.	Course XIII	:	Pedagogy of Special English – II	93
31.	Course XIII	:	Pedagogy of History - II	96
32.	Course XIII	:	Pedagogy of Mathematics - II	99
33.	Course XIII	:	Pedagogy of Physical Science - II	102
34.	Course XIII	:	சிறப்புத் தமிழ் கற்பித்தல்- II	105
35.	Course XIV	:	Pedagogy of General English - II	108
36.	Course XIV	:	Fundamentals of Commerce and Accountancy-II	111
37.	Course XIV	:	பொதுத் தமிழ் கற்பித்தல்- II	114

Experience for Teacher Enrichment

38.	Course XV	:	Strengthening English Language Proficiency – II	116
39.	Course XVI	:	Modern Theatre Skills - II	118

Semester IV

Core Courses

40.	Course XVII	:	Curriculum and School Management	120
41.	Course XVIII	:	Soft Skills Development	123

42.	Course XIX	:	Innovations in Education	126
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Pedagogy Courses

43.	Course XX	:	Pedagogy of Biological Science - III	129
44.	Course XX	:	Pedagogy of Computer Science - III	132
45.	Course XX	:	Pedagogy of Commerce and Accountancy-III	135
46.	Course XX	:	Pedagogy of Special English - III	138
47.	Course XX	:	Pedagogy of History – III	141
48.	Course XX	:	Pedagogy of Mathematics - III	144
49.	Course XX	:	Pedagogy of Physical Science - III	147
50.	Course XX	:	சிறப்புத் தமிழ் கற்பித்தல் - III	150

Experience for Social and Environmental Sensitivity

51.	Course XXI	:	Education of Exceptional Children	153
52.	Course XXI	:	Gender Issues in Education	156
53.	Course XXI	:	Vision of Education in India	159
54.	Course XXI	:	Peace Education	162
55.	Course XXI	:	Disaster Management	164
56.	Course XXI	:	Cyber Crime and Cyber Security	167
57.	Course XXI	:	Parenting Education	169

Experience for Teacher Enrichment

58.	Course XXII	:	Strengthening English Language Proficiency – III	172
59.	Course XXIII	:	Subject Knowledge Competency (SKC)	174

Semester I

Course I: Philosophical Foundations of Education

B.Ed.: Sem. I

Course Code: BCPF

Credits: 4

Course Learning Outcomes:

The prospective teacher

1. defines the concept of education and its premises. (BTL 1)
2. estimates the importance and role of education in the Indian society. (BTL 5)
3. discovers the relationship between education and philosophy. (BTL 3)
4. compares the different schools of philosophy. (BTL 5)
5. integrates the thoughts of various philosophers with the current educational context. (BTL 6)
6. examines the thoughts of eastern and western philosophers. (BTL 3)
7. recognizes the position of education in Pre-Independent India and Post Independent India. (BTL 1)
8. analyses the recommendations of various education commissions and policies. (BTL 4)

Unit I: Education: Nature and Aims (L.13, T.2, P.5)

Education: Meaning, definition, concept, nature and purpose - UNESCO: Five Pillars of Education (Learning to transform oneself and Society) - 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.13, T.2, P.5)

Philosophy: Meaning, definition and nature - Philosophy of Education: Meaning, definition, scope and branches - Relation between Philosophy and Education - The utility of knowledge of philosophy to the teacher - Different Schools of Philosophy: Idealism, naturalism, pragmatism, realism, humanism and their educational implications

Unit III: Educational Thinkers (L.12, T.2, P.5)

Indian thinkers: Thiruvalluvar, Rabindranath Tagore, Savithribai Phule, M.K Gandhi, B.R. Ambedkar, Maulana Abul Kalam Azad

Western thinkers: Plato, Rousseau, Antonio Gramsci, Paulo Freire, and Maria Montessori

Unit IV: Education in Pre-Independent India (L.13, T.2, P.5)

Indian System of Education: Vedic, Buddhistic and Islamic - 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.14, T.2, P.5)

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 – Right to Education Act (2009) -National Education Policy (NEP) 2020

Practicum (any two)

1. Compare and contrast the educational thoughts of any two philosophers.
2. Create a digital presentation on any one of the Schools of Philosophy.
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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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	defines the concept of education and its premises.	Remembering (BTL 1)	1,6,8
CLO 2	estimates the importance and role of education in the Indian society.	Evaluating (BTL 5)	1,7,9,10
CLO 3	discovers the relationship between education and philosophy.	Applying (BTL 3)	1,6,9
CLO 4	compares the different schools of philosophy.	Evaluating (BTL 5)	1,4,7,8
CLO 5	integrates the thoughts of various philosophers with the current educational context.	Creating (BTL 6)	1,4,6,7,9
CLO 6	examines the thoughts of eastern and western philosophers.	Applying (BTL 3)	1,4,7,9,10
CLO 7	recognizes the position of education in Pre-Independent India and Post Independent India.	Remembering (BTL 1)	1,4,7,8,9,10

CLO 8	analyses the recommendations of various education commissions and policies.	Analysing (BTL 4)	1,4,6,7,8,10
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Course II: Educational Psychology - I

B.Ed.: Sem. I

Course Code: BCEP1

Credits: 4

Course Learning Outcomes:

The prospective teacher

1. describes the nature of educational psychology. (BTL 1)
2. explains the concepts of growth and development. (BTL 2)
3. determines different dimensions of development. (BTL 3)
4. relates nature with nurture. (BTL 2)
5. discovers the cognitive process and development. (BTL 3)
6. estimates the place of emotions in life. (BTL 5)
7. applies the theories of learning in the suitable environment. (BTL 3)
8. facilitates the transfer of learning in their life. (BTL 6)

Unit I: Nature of Educational Psychology (L.11, T.2, P.4)

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.13, T.2, P.5)

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.15, T.2, P.5)

Theories of Cognitive Development: Piaget, Vygotsky 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.13, T.2, P.5)

Emotional development: Meaning and importance -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.13, T.3, P.5)

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 – Yoga-based learning -

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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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	describes the nature of educational psychology.	Remembering (BTL 1)	1,4,6,8,7,10
CLO 2	explains the concepts of growth and development.	Understanding (BTL 2)	1,4,6, 8,7,10
CLO 3	determines different dimensions of development.	Applying (BTL 3)	1,4,6, 8,7,10
CLO 4	relates nature with nurture.	Understanding (BTL 2)	1,4,6, 8,7,10
CLO5	discovers the cognitive process and development.	Applying (BTL 3)	1,4,6, 8,7,10
CLO 6	estimates the place of emotions in life.	Evaluating (BTL 5)	1,4,6,7,8,9,10
CLO 7	applies the theories of learning in the suitable environment.	Applying (BTL 3)	1,4,6,7,8,9,10
CLO 8	facilitates the transfer of learning in their life.	Creating (BTL 6)	1,4,6,7,8,9,10

Course III: Pedagogy of Biological Science - I

B.Ed.: Sem. I

Course Code: BPB1

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. recognizes the nature, scope of Biological Science. (BTL 1)
2. develops necessary competence in microteaching. (BTL 6)
3. applies the microteaching skills in macro teaching. (BTL 3)
4. prepares lesson plan for teaching Biological Science. (BTL 6)
5. analyses various methods of teaching Biological Science. (BTL 4)
6. appraises the approaches and strategies for learning Biological Science. (BTL 5)
7. identifies different groups of animals. (BTL 1)
8. compares the different types of tissues and their morphology. (BTL 4)

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

Biological Science: Historical and developmental perspective of Biological Science, nature and scope - Aims and objectives of teaching Biological Science at different levels: Primary, secondary and higher secondary - Concept: Process and product - Values of teaching Biological Science - Inter-correlation with other subjects - Impact of Biological Science on community

Unit II: Teaching Preparation at Micro and Macro level (L.14, T.2, P. 3)

Microteaching: Meaning, Definition, Steps and Cycle - Skills: Skill of probing questioning, skill of explaining, skill of increasing pupil's participation, skill of closure and skill of using the blackboard - Link lesson - Benjamin Bloom's approach to the taxonomy of educational objectives - Revised Bloom's Taxonomy (Anderson and Krathwohl) - Lesson plan: Essential features of lesson plan, preparing lesson plan, steps in lesson plan (Herbartian) - Unit plan: Steps, characteristics - Distinguishing lesson plan and unit plan - Year plan - Semester plan - Trimester plan

Unit III: Methods of Teaching (L.12, T.2, P. 3)

Lecture method - Demonstration method - Scientific method - Project method - Heuristic method - Programmed Learning Method (PLM) - Computer Assisted Instruction (CAI) - Recent Trends: Constructivist learning: 5E Model - Problem based learning - Brain based learning - Collaborative learning - The Concentric Approach - Topical Approach - Chronological Approach - Unit Approach - Correlated Approach - Integrated Approach

Unit IV: Animal Kingdom (L.7, T.2, P.3)

Classification of living organisms-Basis for Classification-Binomial Nomenclature-Invertebrata: Phylum Porifera - Phylum Coelenterata - Phylum Platyhelminthes-Phylum Aschelminthes - Phylum Annelida-Phylum Arthropoda - Phylum Mollusca-Phylum Echinodermata - Phylum Hemichordata - Chordata: Prochordata - Vertebrata: Cyclostomata-Pisces - Amphibia - Reptilia - Aves-Mammalia (Standard IX School Content)

Unit V: Organisation of Tissues (L.7, T.2, P.3)

Plant Tissues: Meristematic Tissues - Permanent Tissues-Animal Tissues - Epithelial Tissues: Simple Epithelium - Compound Epithelium - Connective Tissues: Connective tissue proper-Supportive Connective Tissue - Dense Connective Tissue - Fluid connective tissue - Muscular Tissues - Nervous Tissue - Cell Division - Types of Cell Division: Amitosis - Mitosis – Meiosis (**Standard IX School Content**)

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 from Class IX Science textbook.
3. Develop a Digital lesson plan on a topic from class IX.
4. Prepare a temporary slide of a stem cross-section to observe Xylem and Phloem.
5. Collect and preserve any two Arthropods in your area.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	recognizes the nature, scope, aims and objectives of teaching Biological Science.	Remembering (BTL 1)	2,6,7,9,10
CLO 2	develops necessary competence in microteaching.	Creating (BTL 6)	3,4,6,7,8,9
CLO 3	applies the microteaching skills in macro teaching.	Applying (BTL 3)	3,4,6,7,8,9
CLO 4	prepares lesson plan for teaching Biological Science.	Creating (BTL 6)	2,3,4,6,7,8,9,10
CLO5	analyses various methods of teaching Biological Science.	Analysing (BTL 4)	2,5,6,7,8,9
CLO 6	appraises the approaches and strategies for learning Biological Science.	Evaluating (BTL 5)	2,5,6,7,8,9
CLO 7	identifies different groups of animals.	Remembering (BTL 1)	2,6,7,9,10
CLO 8	compares the different types of tissues and their morphology.	Analysing (BTL 4)	2,5,6,7,8,9

Course III: Pedagogy of Computer Science - I

B.Ed.: Sem. I

Course Code: BPC1

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. describes the nature and scope of teaching Computer Science. (BTL 1)
2. practices micro teaching skills. (BTL3)
3. applies the microteaching skills in macro teaching. (BTL 3)
4. prepares lesson plan for teaching Computer Science. (BTL 6)
5. identifies the different instructional methods in teaching Computer Science. (BTL 1)
6. summarizes the content of Standard XI Computer Science. (BTL2)
7. compares the usage of word processor, spreadsheet in Standard XI Computer Science textbook. (BTL4)
8. employs the knowledge of HTML in web page development. (BTL3)

Unit I: Nature and Scope of Computer Science (L.8, T.2, P.3)

Computer Science: Nature and Scope - Teaching Computer Science at different levels: Primary, Secondary and Higher Secondary - Values of teaching Computer Science - Correlation of Computer Science at different stages of a school - Impact of Computer Science in modern communities

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

Microteaching: Meaning, Definition, Steps and Cycle – Skills: Skill of probing questions, Skill of explaining, Skill of increasing pupils' participation, Skill of closure, skill of using the blackboard and Skill of questioning - Link lesson - Bloom's taxonomy of educational objectives with Anderson's revision - Lesson plan and its steps – Digital Lesson Plan - Unit plan, Year plan

Unit III: Methods of Teaching (L.14, T.2, P.3)

Instructional methods: Individulised Instruction, Lecture method, Demonstration method, Problem solving method, Project method, Analytic and Synthetic methods of instruction, Inductive and Deductive methods - Computer Assisted Instruction - Programmed Instruction, Computer Managed Instruction

Unit IV: Computing Science in Ancient India and Office Automation Tools (L.8, T.2, P.3)

Introduction: Computer Systems - Computer languages and Indian Classical languages: A comparison – Computer language statement and Vedic statements: A comparison
Introduction to Word Processor: Introduction, Formatting Text, and Paragraph, Find & Replace and Spell check, Mail merge, Keyboard shortcut Keys - Introduction to spreadsheet: Evolution of Spreadsheet, Parts of the Open Office Calc Window, Creating Formulae, Working with Functions - Presentation Basics: Parts of the main Impress window and Formatting a presentation (Standard XI, Vol. I School Content)

Unit V: Web Page Development using HTML and CSS (L.10, T.2, P.3)

HTML: Introduction - Text Formatting Tags of HTML - Tables in HTML - Lists in HTML - Adding multimedia elements and Forms: Inserting Images, scrolling text using HTML, Adding Video and Sound and Working with Forms - CSS (Cascading Style Sheets): Frequently using Text formatting Properties and Values, Creating CSS style sheets, Linking CSS with HTML (Standard XI, Vol. II School Content)

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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**Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes
(CLOs)**

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	describes the nature and scope of teaching Computer Science.	Remembering (BTL 1)	2,6,9,10
CLO 2	practices microteaching skills.	Applying (BTL3)	3,4,6,7,8,9
CLO 3	applies the microteaching skills in macro teaching.	Applying (BTL 3)	3,4,6,7,8,9
CLO 4	prepares lesson plan for teaching Computer Science.	Creating (BTL 6)	2,3,4,6,7,8,9, 10
CLO5	identifies the different instructional methods in teaching Computer Science.	Remembering (BTL 1)	2,3,5,6,8,9
CLO 6	summarizes the content of Standard XI Computer Science.	Understanding (BTL 2)	2,3,4,5,6,8,9
CLO 7	compares the usage of word processor, spreadsheet in Standard XI Computer Science textbook.	Analysing (BTL 4)	6,7,8,9,10
CLO 8	employs the knowledge of HTML in web page development.	Applying (BTL 3)	6,7,8,9,10

Course III: Pedagogy of Commerce and Accountancy - I

B.Ed.: Sem. I

Course Code: BPCA1

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Differentiates aims and objectives of teaching commerce and accountancy (BTL 2)
2. Appreciates various approaches and strategies of teaching and learning of Commerce and Accountancy (BTL 2)
3. Selects suitable methods of teaching Commerce and Accountancy for the classroom situation (BTL 3)
4. Formulates a lesson plan in Commerce and Accountancy (BTL 6)
5. Develops individualised instructional material using the theoretical basis. (BTL 6)
6. Analyses various pedagogies of Commerce and Accountancy (BTL 4)
7. Demonstrates some simple concepts in Commerce and Accountancy (BTL 3)
8. Infers the fundamental concepts of Commerce and Accountancy. (BTL 6)

UNIT I: Nature and Scope of Commerce and Accountancy [L - 11, P – 2, T - 2]

Need and Significance of Teaching Commerce and Accountancy –Place of Commerce and Accountancy in Higher Secondary Curriculum - Aims and Objectives of Teaching Commerce and Accountancy - Correlation with Other Subjects – Commerce and Accountancy and NEP 2020 - Digital Commerce (E-Commerce) - Artificial Intelligence in Business.

UNIT II: Skills in Teaching Commerce and Accountancy [L - 8, P – 8, T - 1]

Micro teaching Skill: Meaning, Objectives, Phases, Cycle, Steps and procedure – Micro Teaching Skills: Skill of Probing Questioning – Skill of Explaining - Skill of Pupil's Participation - Skill of Closure - skill of using the blackboard – Skill of Questioning - Link lesson – Instructional Objectives - Bloom's Taxonomy of Educational Objectives - Anderson Revised Taxonomy - Year Plan - Unit Plan – Lesson Plan - Herbartian Approach - Digital Lesson Plan

UNIT III: Methods of Teaching Commerce and Accountancy [L - 8, P – 5, T - 3]

Methods of Teaching: Lecture Method, Discussion- Group and Panel Method, Case Study Method, Demonstration Method, Lecture cum Demonstration Method, Heuristic Method, Project Method, Survey Method, Market Study. Individualised Instruction: Characteristics and Approaches- Programmed Instruction: Types- Computer Assisted Instruction: Modes and Benefits–Instructional Modules: Features, Components.

Unit IV: Significant Concepts in Commerce (Class XI Commerce Textbook) [L - 11, P – 2, T - 2]

Historical Background of Commerce in the Indian Sub-continent - Objectives of Business - Classification of Business Activities: Sole Proprietorship, Hindu Undivided Family and Partnership - Joint Stock Company - Cooperative Organisation - Multinational Corporations (MNCs) - Government Organisation - Reserve Bank of India - Types of Banks – The Origin of Early Trade: Indus Valley and Barter System - Evolution of Trade Routes.

Unit V: Significant Concepts in Accountancy (Class XI Accountancy Textbook) [L - 8, P - 2, T - 2]

Introduction to Accounting - Conceptual Framework of Accounting - Books of Prime Entry - Subsidiary Books – I - Subsidiary Books – II - Bank Reconciliation Statement - Rectification of Errors - Depreciation Accounting - Capital and Revenue - Transactions - Final Accounts - Computerised Accounting - Accounting for Bills of Exchange (included under Subsidiary Books – I) - Ancient Tamil Accounting Practices.

Practicum (Any Two)

1. Develop an instructional module for a topic of your own.
2. Write General Instructional Objectives and Specific Instructional Objectives for any two content areas in Commerce and Accountancy
3. Submit a concept map for any one of the topics from the XI Std Syllabus.
4. Prepare an action plan for any one method of teaching.
5. Prepare a Programmed learning material for any content using a linear style

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	differentiates the aims and objectives of teaching Commerce and Accountancy.	Understanding (BTL 2)	2, 6, 7, 9, 10
CLO 2	appreciates various approaches and strategies of teaching and learning of Commerce and Accountancy.	Understanding (BTL 2)	3, 4, 6, 8, 9
CLO 3	selects suitable methods of teaching Commerce and Accountancy for the classroom situation.	Applying (BTL 3)	3, 4, 6, 7, 8, 9
CLO 4	formulates a lesson plan in Commerce and Accountancy.	Creating (BTL 6)	2, 3, 4, 6, 7, 8, 9, 10
CLO 5	develops individualised instructional material using the theoretical basis.	Creating (BTL 6)	3, 4, 6, 7, 8, 9
CLO 6	analyses various pedagogies of Commerce and Accountancy.	Analysing (BTL 4)	2, 5, 6, 7, 8, 9
CLO 7	demonstrates some simple concepts in Commerce and Accountancy.	Applying (BTL 3)	3, 4, 6, 7, 8, 9
CLO 8	infers the fundamental concepts of Commerce and Accountancy.	Creating (BTL 6)	2, 4, 6, 7, 8, 9, 10

Course III: Pedagogy of Special English - I

B.Ed.: Sem. I

Course Code: BPE1

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. identifies the concepts of language. (BTL 2)
2. recommends the ways to improve the quality of English Language Teaching. (BTL 5)
3. practices micro teaching skills. (BTL 3)
4. applies the microteaching skills in microteaching. (BTL 3)
5. prepares lesson plan for teaching Prose, Poetry, Grammar, Composition and Supplementary Reader. (BTL 6)
6. plans to teach the grammatical topics prescribed in the Tamil Nadu Government Textbooks. (BTL 6)
7. illustrates the grammatical concepts with examples. (BTL 4)
8. makes use of grammatical concepts in speaking English. (BTL 3)

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

Concepts of language: Definitions - Characteristics - Properties of human language - Functions of language. Aims of teaching English at the primary, secondary and higher secondary levels - Principles of teaching English as a second language –ELT in the Indian context: Need for teaching English in India- 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, Definition, Steps and Cycle - Skills: Skill of Probing Questioning, Skill of Explaining, Skill of Increasing Pupil's Participation, Skill of Closure and skill of using the blackboard and Skill of Questioning- Episode writing – Practice and feedback - Link lesson: Episode writing – Practice and feedback

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

Traditional and Revised Bloom's taxonomy: Formulating instructional objectives for teaching Prose, Poetry, Grammar, Composition and Supplementary Reader – Planning for teaching: Year plan, Term plan, Unit plan and Lesson plan - Methodology of teaching of Prose, Poetry, Grammar, Composition and Supplementary Reader - Components of a lesson plan – Herbartian steps – Lesson plan writing for Prose, Poetry, Grammar, Composition and Supplementary Reader - Advantages of lesson planning - Demo teaching and observation - Peer teaching and criticism

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

Conjugation - Kinds of sentences – Types of pronouns: Subject pronoun, Object pronoun - Possessive pronoun, Possessive adjective and Reflexive pronoun - Finite and non-finite verbs - Prefix and suffix - Verbal and 'Wh' questions - Question Tags - Sentence Pattern – Degrees of comparison (Standard IX School Content)

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

Active and passive voice – Types of verbs: Regular and irregular, Transitive and intransitive - Verb division – Contractions - Direct and indirect speech - Simple, compound and complex sentences (Standard IX School Content)

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 Positive, Negative form with your neighbour and produce a report
5. Select a passage from IX standard textbook and identify whether the sentences are Simple or Complex or Compound

References

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	identifies the concepts of language.	Understanding (BTL 2)	4,6,7,10
CLO 2	recommends the ways to improve the quality of English Language Teaching.	Evaluating (BTL 5)	3,4,6,7,9,10
CLO 3	practices micro teaching skills.	Applying (BTL3)	2,3,4,6,8,9
CLO 4	applies the microteaching skills in macro teaching.	Applying (BTL 3)	2,3,4,6,8,9
CLO5	prepares lesson plan for teaching Prose, Poetry, Grammar, Composition and Supplementary Reader.	Creating (BTL 6)	2,3,4,6,7,8,9,10
CLO 6	plans to teach the grammatical topics prescribed in the Tamil Nadu Government Textbooks.	Creating (BTL 6)	2,3,4,6,7,8,9,10
CLO 7	illustrates the grammatical concepts with examples.	Analyzing (BTL 4)	2,3,4,6,7,8,9,10
CLO 8	make use of grammatical concepts in speaking English.	Applying (BTL3)	2,3,4,6,7,8,9,10

Course III: Pedagogy of History - I

B.Ed.: Sem. I

Course Code: BPH1

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. estimates the values of learning History. (BTL 2)
2. compiles instructional objectives insight of Bloom's Taxonomy. (BTL 6)
3. prepares lesson plan for teaching History. (BTL 6)
4. develops necessary competence in microteaching. (BTL 6)
5. applies the microteaching skills in macro teaching. (BTL 3)
6. appraises different methods of teaching History. (BTL 6)
7. examines the world's early History. (BTL 3)
8. validates the different forms of government of electoral system. (BTL 6)

Unit I: Nature and Scope of History (L.10, T.2, P.3)

History: Meaning, Nature, Scope and importance - Dimensions of History: Time, place, ideas, continuity and development - Correlation: Meaning, types and importance - Correlation of History with allied subjects– Development of values through teaching History: Educational, Social, Cultural, Ethical and vocational - Objectives of teaching History at different stages of school education: Primary, secondary and higher secondary

Unit II: Teaching Preparation at Micro and Macro level (L.10, T.2, P.3)

Microteaching: Meaning, Definition, Steps and Cycle – Skills: Skill of probing questioning, skill of explaining, skill of increasing pupils' participation, skill of questioning, skill of using the blackboard and skill of closure, - Link lesson - Bloom's taxonomy of educational objectives - Revised Bloom's Taxonomy (Anderson and Krathwohl) - Writing instructional objectives - Planning: Meaning, need and importance of Year plan, Unit plan, Lesson Plan

Unit III: Methods of Teaching (L.10, T.2, P.5)

Traditional methods: Lecture, Story Telling, Biographical, Textbook and Dramatization - Modern Methods: Programmed learning, Computer Assisted Instruction (CAI) and Team teaching

Unit IV: World's Early History (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 (Standard IX School Content)

Unit V: Government and Electoral System (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 (Standard IX School Content)

Practicum (any two)

1. Prepare a report on how to correlate a selected topic from IX standard Social Science textbook with various other subjects.
2. Sketch a unit plan for any one of the units from Standard IX syllabus.
3. Read a biography of a historian and submit a report.
4. Prepare a picture album of ancient civilizations.
5. Prepare a digital presentation on the Electoral system in India.

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**Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes
(CLOs)**

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	estimates the values of learning History.	Understanding (BTL 2)	2,6,7,9,10
CLO 2	compiles instructional objectives insight of Bloom's Taxonomy.	Creating (BTL 6)	3,4,6,8,9
CLO 3	prepares lesson plan for teaching History.	Creating (BTL 6)	2,3,4,6,7,8,9, 10
CLO 4	develops necessary competence in microteaching.	Creating (BTL 6)	3,4,6,7,8,9
CLO5	applies the microteaching skills in macro teaching.	Applying (BTL 3)	3,4,6,7,8,9
CLO 6	appraises different methods of teaching History.	Creating (BTL 6)	2,5,6,7,8,9
CLO 7	examines the world's early History.	Applying (BTL 3)	3,4,6,7,8,9
CLO 8	validates the different forms of government of electoral system.	Creating (BTL 6)	2,4,6,7,8,9,10

Course III: Pedagogy of Mathematics – I

B.Ed.: Sem. I

Course Code: BPM1

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. describes the nature and values of Mathematics. (BTL 1)
2. traces the aims and objectives of teaching Mathematics. (BTL 2)
3. practices micro teaching skills. (BTL 3)
4. applies the microteaching skills in macro teaching. (BTL 3)
5. prepares lesson plan for teaching Mathematics. (BTL 6)
6. categorizes the various instructional strategies for teaching Mathematics. (BTL 4)
7. states the basic concepts of Mathematics. (BTL 1)
8. facilitates his/her competencies in teaching secondary level Mathematics. (BTL 6)

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

Nature of Mathematics: Abstractness, Preciseness, Brevity, Logical and Symbolism -
Values of teaching Mathematics: Cultural, Disciplinary, Practical, Social and Utilitarian -
Correlation of Mathematics within and other disciplines (Science, Art and Architecture)
History of Indian Numerals - Aims and objectives of teaching mathematics at Primary, secondary and higher secondary levels

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

Microteaching: Meaning, Definition, Steps and Cycle – Skills: Skill of probing questioning, skill of explaining, skill of increasing pupils' participation, skill of closure, skill of using the blackboard and skill of questioning - Link lesson - Bloom's taxonomy of educational objectives with Anderson's revision. Instructional Objectives: Meaning, Characteristics, Framing GIOs and SIOs of teaching Mathematics –Development of Year plan and Unit plan – Lesson plan: Meaning, Characteristics and steps – Herbartian Approach to lesson plan

Unit III: Methods of Teaching (L.14, T.2, P.3)

Inductive and deductive method - Analytic and synthetic method - Heuristic and project method - Problem solving method - Active Learning Method (ALM)

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

Set language: Representation, Types, Set operations and its properties, De Morgan's Laws, Application on cardinality of sets- Real Numbers: Rational number, Irrational number, Real numbers, Radical notation, surds, Rationalization of surds (Standard IX School Content)

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

Algebra: Polynomials, Remainder theorem, Algebraic identities, Factorization, Division of polynomials, Greatest common divisor, Linear equation in two variables - Coordinate Geometry: Distance between two points, the mid point of the line segment and point of trisection of line segment, section formula, The coordinates of centroid (Standard IX School Content)

Practicum (any two)

1. Develop a Year plan from the content of Standard IX.
2. Prepare a timeline tracing the evolution of Indian numerals.
3. Critically analyze the old and revised Bloom's Taxonomy.
4. Write an ALM lesson plan.
5. Prepare a digital presentation on any one of the topics from IX standard.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	describes the nature and values of Mathematics.	Remembering (BTL 1)	2,6,7,9,10
CLO 2	traces the aims and objectives of teaching Mathematics.	Understanding (BTL 2)	3,4,6,8,9
CLO 3	practices microteaching skills.	Applying (BTL 3)	3,4,6,7,8,9
CLO 4	applies the microteaching skills in macro teaching.	Applying (BTL 3)	3,4,6,7,8,9

CLO5	prepares lesson plan for teaching Mathematics.	Creating (BTL 6)	2,3,4,6,7,8,9,10
CLO 6	categorizes the various instructional strategies for teaching Mathematics.	Analysing (BTL 4)	2,5,6,7,8,9
CLO 7	states the basic concepts of Mathematics.	Remembering (BTL 1)	2,6,7,8,9
CLO 8	facilitates his/her competencies in teaching secondary level Mathematics.	Creating (BTL 6)	3,4,6,7,8,9

Course III: Pedagogy of Physical Science - I

B.Ed.: Sem. I

Course Code: BPP1

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. identifies the nature and scope of Physical Science. (BTL 2)
2. traces the aims and objectives of teaching Physical Science. (BTL 2)
3. practices micro teaching skills. (BTL3)
4. prepares lesson plan for teaching Physical Science. (BTL 3)
5. applies the microteaching skills in macro teaching. (BTL 3)
6. analyses various pedagogies of Physical Science. (BTL 4)
7. demonstrates some simple experiments in Physics and Chemistry. (BTL 2)
8. infers the fundamental concepts of Physics and Chemistry. (BTL 6)

Unit I: Nature and Scope of Physical Science (L.8, T.2, P.3)

Physical Science: Nature and Scope: Science as a Process, a Product, a Way of Investigation and a Way of Thinking - Developing Scientific Attitude and Scientific Temper - Interdisciplinary Approach - Science for Sustainable Development - Values of Teaching Physical Science - Aims and Objectives of Teaching Physical Science: Primary, Secondary and Higher Secondary

Unit II: Teaching Preparation at Micro and Macro Level (L.14, T.2, P.3)

Microteaching: Meaning, Definition, Steps and Cycle - Skills: Skill of Probing Questioning, Skill of Explaining, Skill of Increasing Pupils Participation, Skill of Closure, skill of using the blackboard and Skill of Questioning - Link Lesson - Bloom's Taxonomy of Educational Objectives (1956) - General and Specific Objectives of Teaching Physical Sciences - Revised Bloom's Taxonomy (Anderson and Krathwohl, 1990) - Planning for Teaching: Need and Importance - Year Plan - Unit Plan - Lesson Plan - Criteria of a Good Lesson Plan - Herbartian Steps

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

Pedagogy: Meaning and Importance - Teacher-Centered Methods: Lecture and Lecture cum Demonstration - Pupil-Centered Methods: Heuristic, Scientific, Project, Laboratory, Programmed Learning, Computer Assisted Instruction (CAI)-Active Learning Method (ALM)

Unit IV: Fundamental Principles in Physics (L.9, 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 (Standard IX School Content)

Unit V: Fundamental Principles in Chemistry (L.9, 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 (Standard IX School Content)

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. Prepare a Linear Programmed Learning Material with at least 10 frames for any one of the topics in Physical Science from Standard IX.
5. Draw a Mind-map for a topic from Standard IX Science textbook.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	identifies the nature and scope of Physical Science.	Understanding (BTL 2)	2,6,7,9,10
CLO 2	traces the aims and objectives of teaching Physical Sciences.	Understanding (BTL 2)	3,4,6,8,9
CLO 3	practices micro teaching skills.	Applying (BTL 3)	3,4,6,7,8,9
CLO 4	prepares lesson plan for teaching Physical Science.	Creating (BTL6)	2,3,4,6,7,8,9,10
CLO5	applies the microteaching skills in macro teaching.	Applying (BTL 3)	3,4,6,7,8,9
CLO 6	analyses various pedagogies of Physical Science.	Analysing (BTL 4)	2,5,6,7,8,9
CLO 7	demonstrates some simple experiments in Physics and Chemistry.	Understanding (BTL2)	3,4,6,7,8,9
CLO 8	infers the fundamental concepts of Physics and Chemistry.	Creating (BTL6)	2,4,6,7,8,9,10

Course III: சிறப்புத்தமிழ் கற்பித்தல் - I

B.Ed. Sem. I

Course Code: BPT1

Credits: 3

கற்றல் விளைவுகள்:

ஆசிரிய மாணவர்

1. தமிழ்மொழி கல்வியின் சிறப்பம்சங்களை அறிந்து நினைவு கூர்கிறார். (BTL 1)
2. கற்பித்தல் திறன்களை அடையாளப்படுத்துகிறார். (BTL 3)
3. நுண்ணிலை கற்பித்தல் திறன் பயிற்சி பெறுகிறார். (BTL 3)
4. நுண்ணிலை கற்பித்தல் திறனை கற்பித்தலில் பயன்படுத்துகிறார். (BTL 3)
5. பாடத்திட்டம் அமைப்பு கோட்பாடுகளைக் கட்டமைக்கிறார். (BTL 6)
6. தமிழ்ப் பாடப்பொருள் கற்பித்தலைக் கையாளுகிறார். (BTL 3)
7. தமிழ்ப் பாடப்பொருள் வழி படைப்பாற்றலை வடிவமைக்கிறார். (BTL 6)
8. இலக்கணப் பிழையின்றி எழுதப் பயிற்சி பெறுகிறார். (BTL 3)

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

தாய்மொழி கற்பித்தல்: நோக்கங்கள், மொழியின் சிறப்புகள், மொழியின் பண்புகள், பயன்கள் - திராவிடமொழியின் சிறப்பியல்புகள், மொழியின் சமுதாயப்பணிகள், மொழிவளர்ச்சியில் சூழ்நிலையின் பங்கு - உயர்தனிச் செம்மொழி: சிறப்புகள், பண்புகள் - இந்திய செப்பேடுகள் உணர்த்தும் தமிழ்மொழி சிறப்புகள்

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

நுண்ணிலை கற்பித்தல்: தோற்றம், விளக்கங்கள், படிகள், சுழற்சி, நன்மைகள், குறைபாடுகள் - திறன் விளக்கம்: கிளர்வினா, மாணவர் பங்கேற்பை அதிகரிக்கும் திறன், விளக்குதல் திறன் - பாடம் முடிக்கும் திறன் - கரும்பலகை பயன்பாட்டுத் திறன் - நிகழ்வு எழுதப் பயிற்சி - திறன் பயிற்சி

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

புளும் கோட்பாடுகள் - திருத்தியமைக்கப்பட்ட புளுமின் கோட்பாடுகள் - ஹெர்பார்டின் படிகள் - ஆண்டுத்திட்டம் - அலகுத்திட்டம்: அமைப்பு, இன்றியமையாமை, பயன்கள் - பாடத்திட்டம்: நோக்கங்கள், அமைக்கும் முறைகள்

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

இன்பத்தமிழை - தமிழ்க்குமத்மி - சிலப்பதிகாரம் - காணி நிலம் - திருக்குறள் - அறிவியல் ஆத்திச்சூடி - அறிவியல் ஆள்வோம் - வளர்தமிழ் - சிறகின் ஓசை - கணியின் நண்பன் (ஆறாம் வகுப்பு)

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

கனவு பலித்தது - கிழவனும் கடலும் - ஒளி பிறந்தது - தமிழ் எழுத்துக்களின் வகையும் தொகையும் - முதலெழுத்தும் சார்பெழுத்துதம் - மொழி முதல் இறுதி எழுத்துக்கள்

செய்முறை பயிற்சிகள் (ஏதேனும் இரண்டு)

1. தமிழ் மொழியின் சிறப்பு குறித்த கட்டுரை ஒன்று வரைக.
2. கரும்பலகை பயன்பாட்டுத் திறனுக்கு நிகழ்வு ஒன்று எழுதுக.
3. அலகுத்திட்டம் ஒன்று எழுதுக.
4. ஆறாம் வகுப்பு அணி இலக்கணம் பொருந்திய செய்யுள் ஒன்றை காட்சிப்படுத்துக.
5. ஆறாம் வகுப்புத்தமிழ் இலக்கணப் பாடப்பொருள் ஒன்றிற்கு குச்சிப்பட தொகுப்பு ஒன்று தயாரிக்க.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	தமிழ்மொழி கல்வியின் சிறப்பம்சங்களை அறிந்து நினைவு கூர்கிறார்.	நினைவாற்றல் (BTL 1)	3,6,9,10
CLO 2	கற்பித்தல் திறன்களை அடையாளப்படுத்துகிறார்.	பயன்பாடு (BTL 3)	3,4,8,9,10
CLO 3	நுண்ணிலை கற்பித்தல் திறன் பயிற்சிபெறுகிறார்.	பயன்பாடு (BTL 3)	3,4,8,9,10
CLO 4	நுண்ணிலை கற்பித்தல் திறனை கற்பித்தலில் பயன்படுத்துகிறார்.	பயன்பாடு (BTL 3)	3,4,8,9,10
CLO5	பாடத்திட்டம் அமைப்பு கோட்பாடுகளைக் கட்டமைக்கிறார்.	படைப்பாற்றல் (BTL 6)	2,3,4,8,9,10
CLO 6	தமிழ்ப் பாடப்பொருள் கற்பித்தலைக் கையாளுகிறார்.	பயன்பாடு (BTL 3)	3,4,8,9,10
CLO 7	தமிழ்ப் பாடப்பொருள் வழி படைப்பாற்றலை வடிவமைக்கிறார்.	படைப்பாற்றல் (BTL 6)	2,3,4,8,9,10
CLO 8	இலக்கணப் பிழையின்றி எழுதப் பயிற்சி பெறுகிறார்.	பயன்பாடு (BTL 3)	3,4,8,9,10

Course IV: Pedagogy of General English – I

B.Ed. Semester I

Course Code: BPGE1

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. explains the role of English and rationale for learning English as a second language. (BTL 2)
2. practices micro teaching skills. (BTL 3)
3. applies the teaching skills in macroteaching. (BTL 3)
4. formulates general and specific objectives for any topic in English. (BTL 6)
5. develops the skill of writing lesson plans for prose, poetry, grammar, composition and supplementary reader. (BTL 6)
6. analyses the forms of prose, figures of speech and basic grammar. (BTL 4)
7. Practises the use of instructional aids in Teaching English (BTL 6)
8. Integrates Technology in Teaching English Language (BTL 6)

Unit I: Role of English language in Indian classroom (L.10, T.2, P.3)

Teaching English as a skill subject - Position of English as second language in India- Rationale for Learning English in global context; Aims of teaching English at the Primary, Secondary and Higher Secondary Level - Scope of B. Ed English course - Psychological and linguistic principles of teaching English - Challenges of teaching and learning English

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

Micro Teaching: Meaning, Definition, Steps and Cycle - Skill: Meaning, Objectives, Phases, Steps and procedure, Demonstration of three micro teaching skills: Skill of Introduction, Stimulus Variations, Skill of Reinforcement – Episode writing and practicing three micro teaching skills – Feedback- Practicing and writing Link lesson plan. – Traditional and Revised Bloom’s Taxonomy: Meaning, significance, formulation of General and Specific instructional objectives

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

Teaching of prose: Objectives, stages of teaching prose, steps involved in teaching of prose - Vocabulary: Types and Techniques of teaching vocabulary – Selection and Gradation of vocabulary - Teaching of poetry: Objectives, stages and steps involved in teaching of poetry - Difference between teaching of prose and poetry – Teaching of grammar: Objectives, Steps involved in teaching of grammar. Teaching of composition: Objectives and principles - Types of composition: Importance of correction, symbols used in correction. Teaching of Supplementary Reader: Objectives, steps involved in teaching of supplementary reader - Critical observation

Unit IV: Language Content in School Teaching (L.8, T.2, P.3)

Prose - Types of prose: Biography, Autobiography, Short story, Composition, Essay, and Play. Poetry: Figures of speech: Simile, Metaphor, Personification, Alliteration, Repetition, Assonance, Onomatopoeia, Oxymoron, Rhyme pattern - Grammar: Tenses, Verbs, Adjectives, Adverb, Conjunctions, Degrees of Comparisons (Standard VII & VIII level) Composition: Controlled, Guided and Free Composition

Unit V: Resources for Teaching English (L.9, T.2, P.3)

Impact of Technology in language learning – Audio-Visual Aids: Textbooks, films, plays, radio programs, multimedia, digital learning resources (video - audio, animations, images, lectures, speeches). Blackboard - Role of Teachers in Language Laboratory - ELT Websites – Text book: Need and functions of a text book, characteristics and analysis of a good English textbooks

Practicum (any two)

1. Prepare a digital lesson plan for a topic from VI to VIII Standard English textbook.
2. Divide a lesson in English textbook from VI to VIII standard into different teaching units.
3. Prepare a list of active and passive vocabulary.
4. Prepare any three pictorial compositions.
5. Write a reflective report on ELT Website

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	explains the role of English and rationale for learning English as a second language.	Understanding (BTL 2)	2,4,6,9,10
CLO 2	practices micro teaching skills.	Applying (BTL 3)	2,3,4,6,8,9,10
CLO 3	applies the teaching skills in macroteaching.	Applying (BTL 3)	2,3,4,6,8,9,10
CLO 4	formulates general and specific objectives for any topic in English.	Creating (BTL 6)	2,3,4,6,8,9,10
CLO5	develops the skill of writing lesson plans for prose, poetry, grammar, composition and supplementary reader.	Creating (BTL 6)	2,3,4,6,8,9,10
CLO 6	analyses the forms of prose, figures of speech and basic grammar.	Analysing (BTL 4)	2,3,4,6,8,9,10
CLO 7	Practices the use of instructional aids in Teaching English	Applying (BTL 3)	2,3,4,6,8,9,10
CLO 8	Integrates technology in Teaching English Language	Creating (BTL 6)	2,3,4,6,8,9,10

Course IV: Fundamentals of Commerce and Accountancy – I

B.Ed. Semester I

Course Code BPGCA1

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Describes the classification of business activities (BTL 2)
2. Evaluates the characteristics and advantages of non-corporate business organisations (BTL 5)
3. Classifies the different types of internal and foreign trade. (BTL 2)
4. Explains the primary and secondary functions of commercial banks. (BTL 2)
5. Analyses emerging modern business models and practices, (BTL 4)
6. Understands the concept of social responsibility (BTL 2)
7. Understands the foundational concepts and terminologies of accounting, (BTL 2)
8. Evaluates the fundamental bases and principles of accounting, (BTL 5)

Unit I: Forms of Business Organisation [L - 10, P – 3, T - 2]

Human Activities and Introduction to Business: Human Activities: Difference between economic and non-economic activities - Types of Economic Activities – Business - Objectives and Characteristics of Business - Socio-economic objectives of a business - Classification of Business Activities - Industry: Meaning and classification - Commerce: Role and Importance - Forms of Business Organisation: Sole Proprietorship and Partnership - Importance of a Partnership Deed.

Unit II: Trade, Banking, and Auxiliary Services [L - 10, P – 3, T - 2]

Types of Trade and Channels of Distribution - Internal Trade: Wholesale and Retail trade - Foreign Trade: Basics of Import and Export - Entrepot trade - Channels of Distribution: Direct and indirect channels - Banking Services - Central Bank and Commercial Banks - Functions of Commercial Banks: Primary and Secondary functions - Warehousing: Types of warehouses - Functions of Warehousing – Transportation and its types.

Unit III: Modern Business Practices and Social Responsibility [L - 10, P – 3, T - 2]

Emerging Service Businesses - Models: B2B, B2C, and C2C – Outsourcing, Franchising and brand - Social Responsibility of Business: Concept, Kinds: Economic, Legal, Ethical, and Discretionary - Responsibility towards Interest Groups: Obligations towards owners, investors, employees, suppliers, customers, and the government - Business Ethics: Concept and Key Elements - Code of Business Ethics.

Unit IV: Fundamentals and Conceptual Framework of Accounting [L - 10, P – 3, T - 2]

Introduction to Basic Accounting: Meaning, Accounting Cycle - Basic Terminologies: Asset, Liability, Debtor, and Creditor - Bases and Principles of Accounting: Cash, Accrual and Mixed/Hybrid basis - Accounting Concepts: Business Entity and Dual Aspect concept.

Unit V: Recording of Transactions and Verifying Accuracy [L - 10, P – 3, T - 2]

Books of Prime Entry and the Double Entry System - Source Documents - Golden Rules of Accounting – Journal - Ledger and Trial Balance: Ledger Accounting - Posting and Balancing - Difference between the debit and credit sides - Trial Balance.

Practicum (Any Two)

1. Interview a local sole proprietor and a partnership firm to compare their business characteristics and objectives.
2. Map the distribution channels of a common consumer product and document the banking services that facilitate its trade.
3. Analyse the specific social responsibility initiatives and ethical codes of a popular e-commerce platform or local franchise.
4. Identify and classify the initial assets, liabilities, debtors, and creditors from the source documents of a hypothetical startup business.
5. Record a month of simulated business transactions in a journal, post them to the ledger, and prepare a trial balance to verify accuracy.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	describes the classification of business activities.	Understanding (BTL 2)	2, 4, 6, 7, 9
CLO 2	evaluates the characteristics and advantages of non-corporate business organisations.	Evaluating (BTL 5)	2, 4, 5, 6, 8, 9
CLO 3	classifies the different types of internal and foreign trade.	Understanding (BTL 2)	2, 4, 6, 7, 9
CLO 4	explains the primary and secondary functions of commercial banks.	Understanding (BTL 2)	2, 4, 6, 7, 8, 9
CLO5	analyses emerging modern business models and practices.	Analysing (BTL 4)	2, 5, 6, 7, 8, 9
CLO 6	understands the concept of social responsibility.	Understanding (BTL 2)	3, 4, 6, 8, 9
CLO 7	understands the foundational concepts and terminologies of accounting.	Understanding (BTL 2)	2, 4, 6, 7, 8, 9
CLO 8	evaluates the fundamental bases and principles of accounting.	Evaluating (BTL 5)	2, 4, 5, 6, 7, 8, 9, 10

Course IV: பொதுத் தமிழ் கற்பித்தல் - I

B.Ed : Sem. I

Course Code: BPGT1

Credits: 3

கற்றல் விளைவுகள்:

ஆசிரியமாணவர்

1. பயிற்றுமுறைகளைப் பட்டியலிடுகிறார். (BTL 1)
2. வகுப்பறை திறன்களை மேற்கொள்கிறார். (BTL 3)
3. நுண்ணிலை கற்பித்தல் திறன் பயிற்சிப் பெறுகிறார். (BTL 3)
4. நுண்ணிலை கற்பித்தல் திறனைக் கற்பித்தலில் பயன்படுத்துகிறார். (BTL 3)
5. தமிழ்ப் பாடப்பொருள் கற்பித்தல் கோட்பாடுகளை விளக்குகிறார். (BTL 2)
6. பள்ளி பாடப்பொருள் கற்பித்தல் நுட்ப கூறுகளைத் திட்டமிடுகிறார். (BTL 6)
7. இலக்கணப் பாடப்பொருள் கற்பித்தல் திறன்களைக் கையாளுகிறார். (BTL 3)
8. இலக்கணப் பிழையின்றி எழுத பயிற்சி பெறுகிறார். (BTL 3)

அலகு I: பயிற்றுமுறைகள் (L.10, T.2, P.3)

சங்ககால தாய்மொழி பயிற்றுமுறைகள் - மொழியாசிரியர்கள் அறிந்திருக்க வேண்டிய அடிப்படைவிதி, மொழியாசிரியர் தகுதிகள், பண்புகள் - நூல்களும் அதன் வகைகளும் பண்டைய, தற்காலிக பயிற்றுமுறைக்குள்ள வேறுபாடுகள் - பண்டைய பயிற்றுமுறையின் நிறை, குறைகள் - புதிய பயிற்றுமுறைகள்: குழுமுறைகள்: கிண்டர்கார்டன் முறை, விளையாட்டுமுறை, செயல்திட்டமுறை, வார்த்தா கல்விமுறை, நடிப்புமுறை விளக்கங்கள், நிறைகள், குறைகள் - தனிமுறைகள்: தனிப் பயிற்சிமுறை, டால்டன் திட்டம், மாண்டிசோரிமுறை, மேற்பார்வை படிப்பு, கண்டறிமுறை விளக்கங்கள், நிறைகள், குறைகள்

அலகு II: வகுப்பறை திறன்கள் வளர்த்தல் (L.10, T.2, P.3)

நுண்ணிலை கற்பித்தல் - தூண்டல் மாறுபாட்டுத் திறன், 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 III: தமிழ்ப் பாடப் பிரிவுகளைக் கற்பிக்கும் நோக்கங்கள், முறைகள் (L.14, T.2, P.3)

செய்யுள் கற்பித்தல்: நோக்கங்கள், வடிவங்கள், கற்பிக்கும் முறைகள், தொடங்கும் முறைகள் - உரைநடை கற்பித்தல்: நோக்கங்கள், நடை வகைகள், கற்பித்தல் முறைகள், பயன்கள், உரைநடை, செய்யுளுக்குமுள்ள வேறுபாடுகள், செய்யுள், உரைநடை நோக்கத்தின் அடிப்படையில் வேறுபாடுகள், செய்யுள், உரைநடை கற்பித்தல் முறையில் வேறுபாடுகள் - இலக்கணம் கற்பித்தல்: நோக்கங்கள், வகைகள், கற்பிக்கும் முறைகள், இலக்கணம் கற்பிக்கும் முறைகளிடையேயுள்ள வேறுபாடுகள், நிறை, குறைகள், இலக்கணம் வெறுக்கப்படுவதற்கான காரணங்கள், இலக்கணம் இனிமையாக்கும் வழிமுறைகள், உரைநடை, செய்யுள், கட்டுரைப் பாடத்தில் இலக்கணத்தை இணைத்து கற்பிக்கும் முறைகள் - துணைப்பாடம் கற்பித்தல்: நோக்கங்கள், பயிற்சிகள், கற்பிக்கும் முறைகள், ஆசிரியர் செயல்பாடு, துணைக்கருவிகளின் பங்கு

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

தமிழ்மொழி வாழ்த்து - ஆழிக்கு இணை - இயற்கையைப் போற்றுவோம் - பட்ட மரம் - கோணகாத்துப் பாட்டு - புத்தியைத் தீட்டு - பாடறிந்து ஒழுகுதல் - வளம் பெருகுக - தமிழ் வரிவடிவ வளர்ச்சி - தமிழர் மருத்துவம் - திருக்கேதாரம் - தமிழர் இசைக் கருவிகள் - கொங்கு நாட்டு வணிகம் (எட்டாம் வகுப்பு)

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

சொற்பூங்கா - எழுத்துக்களின் பிறப்பு - வெட்டுக்கிளியும் சருகுமானும் - மயங்கொலிகள் - ஆன்ற குடி பிறத்தல் - வினைமுற்று - தமிழர் இசைக் கருவிகள் - எச்சம் - காலம் உடன் வரும் - வினையால் அமையும் தொடர் (எட்டாம் வகுப்பு)

செய்முறை பயிற்சிகள் (ஏதேனும் இரண்டு)

1. தற்கால கற்பித்தல் முறைகள் குறித்த கட்டுரை ஒன்று எழுதுக.
2. செய்யுள் பாடப்பொருளுக்கு ஆசிரியருக்கான உற்றுநோக்கல் ஒன்று எழுதுக.
3. இணைப்புப் பாடத்திற்கு நிகழ்வு ஒன்று தயார் செய்க.
4. வலி மிகும், மிகா இடங்களைப் பட்டியலிட்டு சான்றுடன் எழுதுக.

5. மரபுச் சொற்களைப் பட்டியலிட்டு புத்தகக் குறிப்பு ஒன்று தயாரிக்க.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	பயிற்றுமுறைகளைப் பட்டியலிடுகிறார்.	நினைவாற்றல் (BTL 1)	2,3,6,8,9,10
CLO 2	வகுப்பறை திறன்களை மேற்கொள்கிறார்.	பயன்பாடு (BTL 3)	3,4,8,9,10
CLO 3	நுண்ணிலை கற்பித்தல் திறன் பயிற்சி பெறுகிறார்.	பயன்பாடு (BTL 3)	3,4,8,9,10
CLO 4	நுண்ணிலை கற்பித்தல் திறனை கற்பித்தலில் பயன்படுத்துகிறார்.	பயன்பாடு (BTL 3)	3,4,8,9,10
CLO5	தமிழ்ப் பாடப்பொருள் கற்பித்தல் கோட்பாடுகளை விளக்குகிறார்.	புரிதல்(BTL 2)	2,3,4,8,9,10
CLO 6	பள்ளி பாடப்பொருள் கற்பித்தல் நுட்ப கூறுகளைத் திட்டமிடுகிறார்.	படைப்பாற்றல் (BTL 6)	2,3,4,8,9,10
CLO 7	இலக்கணப் பாடப்பொருள் கற்பித்தல் திறன்களைக் கையாளுகிறார்.	பயன்பாடு (BTL 3)	2,3,4,8,9,10
CLO 8	இலக்கணப் பிழையின்றி எழுத பயிற்சி பெறுகிறார்.	பயன்பாடு (BTL 3)	2,3,4,8,9,10

Course V: Human Rights and Duties Education

B.Ed.: Sem. I

Course Code: BEHD

Credits: 2

Course Learning Outcomes:

The prospective teacher

1. describes human rights and duties. (BTL1)
2. analyses theories of human rights. (BTL 4)
3. identifies the different types of human rights. (BTL 1)
4. compares the different methods and techniques of teaching human rights education. (BTL 2)
5. deduces the different laws on human rights. (BTL 5)
6. categorizes the issues related to human rights violations with regard to the marginalized sections. (BTL4)
7. examines the various policies and programmes designed to prevent human rights violation. (BTL 4)
8. appraises the role of government and non-governmental agencies in human rights and duties. (BTL5)

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 - Indian Knowledge System: Fundamental rights: Civil, political, economical, social and cultural - Duties of a citizen - 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 teaching human rights: 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 Tamil Nadu Prohibition of Harassment of Women Act (1998) - Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) - POSH Act (2013) - 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 transgender- 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, Indian 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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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	describes human rights and duties.	Remembering (BTL1)	1,3,4,6,7,9,10
CLO 2	analyses the theories of human rights.	Analysing (BTL 4)	1,4,6,7,9,10
CLO 3	identifies the different types of human rights.	Remembering (BTL 1)	1,4,6,7,9,10
CLO 4	compares the different methods and techniques of teaching human rights education.	Understanding (BTL2)	1,2,4,6,7,9,10
CLO5	deducts the different laws on human rights.	Evaluating (BTL 5)	1,4,6,7,9,10
CLO 6	categorizes the issues related to human rights violations with regard to the marginalized sections.	Analysing (BTL 4)	1,4,6,7,9,10
CLO 7	examines the various policies and programmes designed to prevent human rights violation.	Analysing (BTL 4)	1,4,6,7,9,10
CLO 8	appraises the role of government and non-governmental agencies in human rights and duties.	Evaluating (BTL 5)	1,2,4,6,7,9,10

Course V: Environmental Education

B.Ed.: Sem. I

Course Code: BEEE

Credits: 2

Course Learning Outcomes:

The prospective teacher

1. identifies the concept, nature and scope of environmental education. (BTL 1)
2. estimates the effects of global warming. (BTL 5)
3. explains environmental movements and projects. (BTL 2)
4. applies the methods of teaching in environmental education. (BTL 3)
5. integrates the use of ICT in environmental education. (BTL 6)
6. decides to conserve the natural resources. (BTL 5)
7. discriminates renewable and non-renewable resources. (BLT 5)
8. prepares a plan for waste management in their locality. (BTL 6)

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 (Apat Nivarana): Natural and man-made disasters – Pollution (Degrading Prakriti): Meaning, definition and types: Air, Water, Soil, Noise and Radioactive pollution - Global environmental problems: Climate Change - Global warming - greenhouse effect - Acid rain - Depletion of Ozone layer and its effects - Urbanization - Deforestation - Soil erosion

Unit II: Environmental Movements, Projects and Laws (L.5, T.2, P.2)

Movements: Chipko (CHIPKO ANDOLAN) - Narmada Bachao (ANDOLAN) - Swachh Bharat Movement – Palmyra Development Mission - Projects: Tiger project - Ganga River Basin Project (Namami Ganga programme) - Silent valley project - Dal Lake study - Laws of conservation and Protection: Environmental Protection Act (1986) - Wild life Protection Act - Noise Pollution Rule – Constitutional Provisions for Protecting the Environment 48A & 51A(g)

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, Eco club - Role of schools, teachers and students in environmental conservation and sustainable development goals.

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 conservation (Jal Sanrakshan), Food, Energy and Forest - Waste Management: E-waste, Medical Waste, Nuclear Waste and Solid Waste - Water Management (Jal

prabandhan): Rain Water harvesting (Jal Sanchay) - National Disaster Management Act (2005) - Environmental Impact Assessment (2020)

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. Organize a field trip and prepare a report on it.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	identifies the concept, nature and scope of environmental education.	Remembering (BTL 1)	1,3,4,6,7,9,10
CLO 2	estimates the effects of global warming.	Evaluating (BTL 5)	1,4,6,7,9,10
CLO 3	explains environmental movements and projects.	Understanding (BTL 2)	1,4,6,7,9,10
CLO 4	applies the methods of teaching in environmental education.	Applying (BTL 3)	1,3,4,6,7,9,10
CLO5	integrates the use of ICT in environmental education.	Creating (BTL 6)	1,3,4,5,6,7,9,10
CLO 6	decides to conserve the natural resources.	Evaluating (BTL 5)	1,3,4,6,7,9,10
CLO 7	discriminates renewable and non-renewable resources.	Evaluating (BTL 5)	1,3,4,6,7,9,10
CLO 8	prepares a plan for waste management in their locality.	Creating (BTL 6)	1,3,4,6,7,9,10

Course V: Value Education

B.Ed.: Sem. I

Course Code: BEVE

Credits: 2

Course Learning Outcomes:

The prospective teacher

1. defines values and value education. (BTL 1)
2. deduces the status of value education in school curriculum. (BTL 4)
3. formulates solutions to overcome value crisis in the present day. (BTL 6)
4. applies appropriate methods and approaches to promote values. (BTL 3)
5. constructs a questionnaire to measure values. (BTL 6)
6. develops the skill of evaluating values using various tools. (BTL 3)
7. expresses the ethical qualities needed for a teacher. (BTL 6)
8. modifies his/her behaviour as a value-oriented teacher. (BTL 6)

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

Values: Meaning, classification of values – personal, social, professional, cultural, spiritual, moral, instrumental and intrinsic values- modern concepts of human values for good life - Sources of value formation in India - Value Education: Objectives, Need for value education in 21st century – Status of value education in school curriculum

Unit II: Value Conflicts (L.6, T.2, P.2)

Value conflict: Meaning, Resolution of value conflict – forcing, collaborating, compromising, withdrawing, smoothing – causes for the value crisis in the present day- solution to overcome the crisis – Economic status and value

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

Methods: Value Analysis Model, Value Clarification Model, Jurisprudential Inquiry Model- Approaches to study value education: Direct approach, Total Atmospheric approach, Integrated Concurrent approach and Critical Inquiry approach – Mann Ki Baat programme

Unit IV: Evaluation of values (L.6, T.2, P.2)

Evaluation of values: Need – Allport - Vernon study of values, Edward Personal Preference Schedule – Tools and techniques: Questionnaire, Problem solving, Check list

Unit V: Ideal and Effective teacher (L.6, T.2, P.2)

Essential traits of a value-oriented teacher: scholarship, professional training, personality, human relations, high level of moral, psychological development, socialization - Role and qualities of a value-oriented teacher

Practicum (any two)

1. Identify the personal value concept in Thirukkural and prepare a report
2. Prepare a personal reflective report on any one of the values of your life and illustrate it.
3. Critically analyze the democratic values in India
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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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	defines values and value education.	Remembering (BTL 1)	1,4,6,7,8,9,10
CLO 2	deduces the status of value education in school curriculum.	Analysing (BTL 4)	1,4,6,7,8,9,10
CLO 3	formulates solutions to overcome value crisis in the present day.	Creating (BTL 6)	1,4,6,7,8,9,10
CLO 4	applies appropriate methods and approaches to promote values.	Applying (BTL 3)	1,2,3,4,6,7,8,9,10
CLO5	constructs a questionnaire to measure values.	Creating (BTL 6)	1, 3, 4, 6,7,8,9,10
CLO 6	develops the skill of evaluating values using various tools.	Applying (BTL 3)	1, 3, 4, 6,7,8,9,10
CLO 7	expresses the ethical qualities needed for a teacher.	Creating (BTL 6)	1, 3, 4, 6,7,8,9,10
CLO 8	modifies his/her behaviour as a value oriented teacher.	Creating (BTL 6)	1, 3, 4, 6,7,8,9,10

Course V: Guidance and Counselling

B.Ed.: Sem. I

Course Code: BEGC

Credits: 2

Course Learning Outcomes:

The prospective teacher

1. describes the different types of guidance offered in the schools. (BTL 1)
2. distinguishes between guidance and counselling. (BTL 5)
3. develops the skills used in counselling. (BTL 6)
4. categorizes the different types of techniques used in guidance. (BTL 4)
5. constructs an attitude scale to measure the students' attitude towards school. (BTL 6)
6. identifies the different types of students in a classroom. (BTL 3)
7. integrates the knowledge on guiding special children in their real teaching. (BTL 6)
8. prepares a plan to organise a guidance programme in schools. (BTL 6)

Unit I: Nature of Guidance (L.5, T.2, P.2)

Guidance: Concept, aims, objectives, functions and principles - Need and procedure for Educational, Vocational and Social guidance- Guidance at secondary Level: Need and importance - Group Guidance: Concept, Need, Significance and Principles

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

Counselling: Meaning and nature; Difference between Guidance and Counselling; Principles and approaches of counselling, Individual and Group Counselling- Skills in Counselling – Attending, Listening, Empathy, Respect, Concreteness, Genuineness, Confrontation, Self-disclosure - Process of Counselling - Counsellor: Qualification, qualities, training and professional ethics

Unit III: Tools of Guidance (L.6, T.2, P.2)

Tools: Questionnaire, anecdotal record, Cumulative Record - Role of the teacher in Testing and Assessment - Testing Techniques: Intelligence tests, Aptitude tests, attitude scales, Interest inventories, and Personality Tests - Non-testing Techniques: Interview, Observation and Case Study

Unit IV: Guidance for Special children and Therapeutic Approaches (L.6, T.2, P.2)

Guidance of children with special needs: Gifted and creative, slow learners, under achievers, socially disadvantaged and learning disabled - Therapeutic Approaches: Rational Emotive Therapy (Play, Music, Dance and Art Therapy)

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

Principles of organization - 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 - Role of guidance personnel in school: Headmaster, teacher, counsellor and health specialist

Practicum (any two)

1. Prepare a digital presentation for a topic from the above units.
2. Collect career information and prepare an album.
3. Construct an interest inventory.
4. Prepare a checklist to identify a gifted child in your class.
5. Write the procedure of establishing a guidance cell in your school.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	describes the different types of guidance offered in the schools.	Remembering (BTL 1)	1,3,4,6,7,8,9
CLO 2	distinguishes between guidance and counselling.	Evaluating (BTL 5)	1,3,4,6,7,8,9,10
CLO 3	develops the skills used in counselling.	Creating (BTL 6)	1,3,4,6,7,8,9,10
CLO 4	categorizes the different types of techniques used in guidance.	Analysing (BTL 4)	1,3,4,6,7,8,9,10
CLO5	constructs an attitude scale to measure the students' attitude towards school.	Creating (BTL 6)	1,3,4,6,7,8,9,10
CLO 6	identifies the different types of students in a classroom.	Applying (BTL 3)	1,3,4,6,7,8,9,10
CLO 7	integrates the knowledge on guiding special children in their real teaching.	Creating (BTL 6)	1,3,4,6,7,8,9,10
CLO 8	prepares a plan to organise a guidance programme in schools.	Creating (BTL 6)	1,3,4,6,7,8,9,10

Course V: Library and Information Science Management

B.Ed.: Sem. I

Course Code: BELI

Credits: 2

Course Learning Outcomes

The prospective teacher

1. explains the concept of library. (BTL 2)
2. identifies the different types of libraries. (BTL 3)
3. summarizes the basic functions of the library. (BTL 2)
4. indicates the various information sources. (BTL 2)
5. reports the various information services in library. (BTL 3)
6. paraphrase the management system followed in library. (BTL 2)
7. examines the ICT usage in library. (BTL 4)
8. utilizes the ICT facilities available in the college. (BTL 3)

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: Academic Libraries: Importance of Libraries in Schools and Colleges - Public Libraries - Special Libraries -Library Associations: SALIS

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

Information Sources: Types of Information Sources - Reference Sources: Encyclopedia's - 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: Library Management System– KOHA: OPAC – Web OPAC / Remote Access –RFID Technology in Libraries: 2CQR RFID Systems - Library Networks: DELNET - INFLIBNET Services: e-Shodhganga – e-Shodhgangothri e-PGpathsala - National Digital Library of India

Practicum (any two)

1. Prepare a report on Libraries of National importance and its functions.
2. Prepare a digital presentation on Library Management System.
3. Write a report on any one of the topics from the above units.
4. Prepare a catalogue for the books in your home.
5. Write a review on any five books that you have read.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	explains the concept of library.	Understanding (BTL 2)	1,4,6,7,8,10
CLO 2	identifies the different types of library.	Applying (BTL 3)	1,4,6,7,8,9,10
CLO 3	Summarizes the basic functions of the library.	Understanding (BTL 2)	1,4,6,7,8,9,10
CLO 4	indicates the various information sources.	Understanding (BTL 2)	1,4,6,8,9,10
CLO5	reports the various information services in library.	Applying (BTL 3)	1,4,5,6,8,9,10
CLO 6	paraphrase the management system followed in library.	Understanding (BTL 2)	1,4,5,6,8,9,10
CLO 7	examines the ICT usage in library.	Analysing (BTL 4)	1,4,5,6,8,9,10
CLO 8	utilizes the ICT facilities available in the college.	Applying (BTL 3)	1,4,5,6,8,9,10

Course V: Yoga Education

B.Ed.: Sem. I

Course Code: BEYE

Credits: 2

Course Learning Outcomes:

The prospective teacher

1. recognizes the eight limbs of yoga (BTL 1)
2. distinguishes asanas from physical exercises (BTL 5)
3. practices the standing and sitting position of asanas (BTL 3)
4. identifies the prone and supine positions of asanas. (BTL 3)
5. analyses the phases of pranayama practices (BTL 4)
6. differentiates the different types of Bandhas (BTL 4)
7. summarises the different types of kriyas (BTL 2)
8. practices meditation in their day-to-day life. (BTL 3)

Unit I: Introduction to Yoga (L.7, T.2, P.2)

Yoga: Meaning, definition – Aim and objectives – Eight limbs of Yoga: Yama, Niyama, Asana, Pranayama, Prathiyahara, Dharana, Dhyana, Samadhi - Benefits of yoga practices - Differences between yoga and physical exercises

Unit II: Postures and Performance of Asanas (L.6, T.2, P.2)

Asana: Meaning and definition - Guidelines for practicing asanas – Standing Position: Tadasana, Trikonasana, Vriksasana, Utkatasana - Long Sitting Position: Padmasana, Pascimottasana, Vajrasana, Vakarasana

Unit III: Yogasanas and Surya Namaskar (L.5, T.2, P.2)

Prone Position: Bhujangasana, Dhanurasana, Salabhasana, Makarasana - Supine Position: Chakrasana, Sarvangasana, Halasana, Shavasana - Surya Namaskar: Meaning, steps and benefits

Unit IV: Yogic Breathing and Bandhas (L.7, T.2, P.2)

Pranayama: Meaning and definition – Phases of pranayama: Purka, Kumbhaka, Rechaka-Nadis: Ida Nadi, Pingala Nadi, Shushma –Nadi Suddhi – Nadi Shodhana– Nadi Bhandas: Jalandhara Bandha, Uddiyana Bandha, Mula Bandha

Unit V: Yoga purifications and Meditation (L.5, T.2, P.2)

Kriyas: Meaning - Types of Kriyas: Neti, Dhauti, Basti, Nauli, Trataka, Kapalabhati – Meditation – Meaning– Techniques of Meditation

Practicum (any two)

1. Prepare an album for Asanas.
2. Demonstrate the steps of Surya Namaskar.
3. Create a digital presentation on any one of the topics from the above units.
4. Practice yoga purifications and meditation.
5. Create e-content for yoga practice.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Recognizes the eight limbs of yoga.	Remembering (BTL1)	3,4,6,9,10
CLO 2	Distinguishes asanas from physical exercises.	Evaluating (BTL5)	3,4,6,7,9,10
CLO 3	practices the standing and sitting position of asanas.	Applying (BTL3)	3,4,6,9,10
CLO 4	identifies the prone and supine positions of asanas.	Applying (BTL3)	3,4,6,9,10
CLO5	analyses the phases of pranayama practices.	Analysing (BTL4)	3,4,6,9,10
CLO 6	differentiates the different types of Bandhas.	Analysing (BTL4)	3,4,6,9,10
CLO 7	summarises the different types of kriyas.	Understanding (BTL 2)	3,4,6,9,10
CLO 8	practices meditation in their day today life.	Applying (BTL3)	3,4,6,9,10

Course VI: Strengthening English Language Proficiency - I

B.Ed.: Sem. I

Course Code: BES1

Credits: 2

Course Learning Outcomes:

The prospective teacher

1. recites tongue twisters. (BTL 1)
2. creates their own tongue twisters. (BTL 6)
3. recognizes correct pronunciation of words. (BTL 1)
4. employs the proper phonetics in their teaching. (BTL 3)
5. develops oral communicative skills through activities. (BTL 6)
6. prepares a curriculum vitae of their own. (BTL 6)
7. writes a report for newspaper. (BTL 6)
8. practises the proper usage of grammar in communication. (BTL 3)

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

Meaning - Role of tongue twisters in improving pronunciation and fluency - Demonstration of reciting the tongue twisters – creating their own tongue twisters - Testing the recitation of tongue twisters

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

Meaning and definition - Identifying 44 phonemes - Classification of phonemes - Listening to the consonant sounds, vowel sounds and diphthong sounds – transcribing a sentence/paragraph

Unit III: Oral Communicative 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

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

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 Activities (L.4, P.6)

Building word vocabulary – Tense Race – Question Tag: Matching activity – usage of Passive voice in a real situation

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	recites tongue twisters.	Remembering (BTL 1)	3,4,6,8,9,10
CLO 2	creates their own tongue twisters.	Creating (BTL 6)	3,4,6,8,9,10
CLO 3	recognizes correct pronunciation of words.	Remembering (BTL 1)	3,4,6,8,9,10
CLO 4	employs the proper phonetics in their teaching.	Applying (BTL 3)	3,4,6,8,9,10
CLO 5	develops oral communicative skills through activities.	Creating (BTL 6)	3,4,6,8,9,10
CLO 6	prepares a curriculum vitae of their own.	Creating (BTL 6)	3,4,6,8,9,10
CLO 7	writes a report for newspaper.	Creating (BTL 6)	3,4,6,8,9,10
CLO 8	practises the proper usage of grammar in communication.	Analysing (BTL 4)	4,6,8,9,10

Course VII: Arts and Aesthetics

B.Ed.: Sem. I

Course Code: BEAA

Credit: 1

Course Learning Outcomes:

The prospective teacher

1. practices the higher style of hand writing. (BTL 3)
2. creates a poster. (BTL 6)
3. develops creativity in arts. (BTL 6)
4. dramatise a skit. (BTL 3)
5. designs a clay model. (BTL 6)
6. practices modern arts. (BTL 3)
7. facilitates the skill of decoration using waste materials. (BTL 6)
8. practices craft works. (BTL 3)

Unit I: Writing and Drawing (L.1, P.3)

Writing practice: Writing in charts, flash cards, English alphabets, italic hand writing practice, Tamil alphabets, writing practice: poster colour making, stick diagram, kalicraft nib practice

Unit II: Exposing Creativity (L.1, P.5)

Rangoli, clay modelling, fabric painting, photography, videography, dance instrumental music, acting in drama practice, mono art, mime, fancy dress, folk dance, karakattam, oyilattam and silambattam

Unit III: Handicraft Training (L.1, P.4)

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.1, P.5)

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

Unit V: Craft Work (L.1, P.3)

Woollen thread - jute work (wall hanging) ice stick work - origami projects - wire bag - cloth painting - office cover

Practicum (any two)

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

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	practices the higher style of hand writing.	Applying (BTL 3)	3,4,6,8,9,10
CLO 2	creates a poster.	Creating (BTL 6)	3,4,6,8,9,10
CLO 3	develops creativity in arts.	Creating (BTL 6)	3,4,6,8,9,10
CLO 4	dramatizes a skit.	Applying (BTL 3)	3,4,6,8,9,10
CLO5	designs a clay model.	Creating (BTL 6)	3,4,6,8,9,10
CLO 6	practices modern arts.	Applying (BTL 3)	3,4,6,8,9,10
CLO 7	facilitates the skill of decoration using waste materials.	Creating (BTL 6)	3,4,6,8,9,10
CLO 8	practices craft works.	Applying (BTL 3)	3,4,6,8,9,10

Course VIII: Physical and Health Education

B.Ed.: Sem. I

Course Code: BEPH

Credit: 1

Course Learning Outcomes:

The prospective teacher

1. extends the knowledge of physical education. (BTL 2)
2. prepares layout for different games. (BTL 6)
3. distinguishes the different methods of teaching in Physical Education. (BTL 5)
4. identifies the different physical fitness components. (BTL 3)
5. examines the various school health programmes. (BTL 4)
6. applies the safety measures in playground, home and school. (BTL 3)
7. creates awareness on life style disorders and sports Trauma. (BTL 6)
8. classifies the various types of injuries in day today life. (BTL 4)

Unit I: Unit I: Foundation of Physical Education (L.2, T.1, P.2)

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 and Volleyball – Indian Traditional Games: Kabaddi and Kho-Kho - Layout and techniques of 400 meters standard track, Long Jump and Shot Put

Unit II: Methods of Physical Education (L.2, T.1, P.2)

Methods: Meaning and definition – Teaching methods in physical education - Intramural and extramural competitions - Fixtures: Knockout and league tournaments - Lesson plan: Meaning, importance and format - Lead up activity - Minor games - Rhythmic activities

Unit III: Physical Fitness Components (L.2, T.1, P.2)

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 IV: Health, Nutrition and Safety Education (L.2, T.1, P.1)

Health: Meaning, definition and concepts - Factors influencing - School health programmes: Health services, health instruction and health supervision - Hygiene - Personal hygiene - Nutrition: Meaning and Sources - Balanced diet - Malnutrition –Safety education: meaning and principles - Safety in playground, road, home and school

Unit V: Managing Health Disorders and Sports Trauma (L.3, T.1, P.2)

Life style disorders: Causes and prevention of blood pressure, cancer, diabetes mellitus and back pain - Communicable diseases: Causes, symptoms and prevention of dengue, malaria, cholera, tuberculosis and COVID-19-Sports injuries - Exposed injuries: Abrasion, laceration, incision, avulsion, blister and puncture wound - Unexposed injuries: Contusion, sprain, strain, dislocation and fractures - first aid

Practicum (any two)

1. Prepare an album for sports and games.
2. Observe a sports meet and prepare a report.
3. Write a reflective report on safety measures for sports injuries.
4. Organize a health check-up programme and submit the reflective report.
5. Create a digital presentation on any one of the topics from the above units.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	extends the knowledge of physical education.	Understanding (BTL 2)	3,4,6,9,10
CLO 2	prepares layout for different games.	Creating (BTL 6)	3,4,6,7,9,10
CLO 3	distinguishes the different methods of teaching in Physical Education.	Evaluating (BTL 5)	2,3,4,6,7,9,10
CLO 4	identifies the different physical fitness components.	Applying (BTL 3)	3,4,6,7,9,10
CLO5	examines the various school health programmes.	Analysing (BTL 4)	3,4,6,7,9,10
CLO 6	applies the safety measures in playground, home and school.	Applying (BTL 3)	3,4,6,7,9,10
CLO 7	creates awareness on life style disorders and sports Trauma.	Creating (BTL 6)	3,4,6,7,9,10
CLO 8	classifies the various types of injuries in day today life.	Analysing (BTL 4)	3,4,6,7,9,10

Course IX: Modern Theatre Skills - I

B.Ed.: Sem. I

Course Code: BEMT1

Credit: 1

Course Learning Outcomes:

The prospective teacher

1. describes the concept of theatre. (BTL 1)
2. builds intellectual and aesthetic understanding of the theatre arts. (BTL 3)
3. explains the origin of theatre and drama. (BTL 2)
4. practices the warm-up exercises to maintain good health. (BTL 3)
5. practices modern Tamil drama. (BTL 3)
6. makes use of concentration and observation method in their future life. (BTL 3)
7. extends the knowledge in the development of drama. (BTL 2)
8. practices theatre games. (BTL 3)

Unit I: Introduction (L.2, P.3)

Definition: Theatre - Drama and Modern Drama

Unit II: History of Drama (L.2, P.3)

Tamil Drama and Development of drama

Practical: Warm up - Theatre Exercise - Theatre games

Unit III: Origin of Theatre (L.2, P.3)

The Theory of Ritual Origin theatre - The Origin of Drama

Practical: Warm up - Theatre workshop – Concentration and Observation method

Unit IV: Acting (L.2, P.3)

Acting – Performance – Theatre artist - Player

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

Unit V: Folk Theatre (L.2, P.3)

Theruk-k-kuthu, Paska Drama

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	describes the concept of theatre.	Remembering (BTL 1)	3,4,6,9,10
CLO 2	builds intellectual and aesthetic understanding of the theatre arts.	Applying (BTL3)	3,4,6,7,9,10
CLO 3	explains the origin of theatre and drama.	Understanding (BTL 2)	3,4,6,9,10
CLO 4	practices the warm-up exercises to maintain good health.	Applying (BTL3)	3,4,6,9,10
CLO5	practices modern Tamil drama.	Applying (BTL3)	3,4,6,9,10
CLO 6	makes use of concentration and observation method in their future life.	Applying (BTL3)	2,3,4,6,9,10
CLO 7	extends the knowledge in the development of drama.	Understanding (BTL 2)	3,4,6,9,10
CLO 8	practices theatre games.	Applying (BTL3)	3,4,6,9,10

Semester - II

Course X: Schooling, Socialization and Identity

B.Ed.: Sem. II

Course Code: BCSS

Credits: 4

Course Learning Outcomes:

The prospective teacher

1. Recognizes the basic concepts in educational sociological (BTL 1)
2. Examines the relationship between school and community. (BTL 4)
3. Creates awareness on social mobility and social change. (BTL 6)
4. Identifies the role of school in developing national, secular and humanistic identities. (BTL 3)
5. Describes the process of socialization. (BTL 2)
6. Identifies their strengths and weaknesses through SWOC analyses. (BTL 3)
7. Evaluates different self-evaluation practices. (BTL 5)
8. Infers the importance of establishing teacher identity. (BTL 6)

Unit I: Educational Sociology (L.12, T.2, P.5)

Sociology: Meaning and purpose - Educational Sociology: Meaning, characteristics and scope - School and Community: Relationship and sociological functions - Social groups: Primary, Secondary and Tertiary - Social process - Social Stratification - Social mobility and Social change - Education and Indian Culture

Unit II: Schooling and identity formation (L.13, T.2, P.5)

School as a Social Institution: Meaning, Definition and Concept - Need and Importance - Functions - Value formation in the context of schooling - Role of school in developing national, international, secular and humanistic identities

Unit III: Understanding Socialization Process (L.12, T.2, P.5)

Socialization: Meaning, definition, process and types - Social institution: Family - Parenting styles and their impact - Transmission of parental expectations and values - Community - Neighbourhood - Extended family - Religious groups and their socialization functions - Important programmes of the socialization - School: School as a centre of community service

Unit IV: Self and Evaluation Practices (L.15, T.2, P.5)

Dimensions of development of self - JOHARI Window - SWOC Analysis - Transaction Analysis - Evaluation practices: Self-understanding, Self-assessment, Self-enhancement, Self-regulation and Self-monitoring

Unit V: Evolving Identity as a Teacher (L.13, T.2, P.5)

Identity: Meaning, nature and types - Determinants and their impact - Theories of Identity formation: Erik Erikson's Psycho-social Development and James Marcia's Identity Status – Teacher is a Reflective Practitioner- Teacher's Professional Identity: Meaning and dimension - Teacher Identity formation: Role of Pre-service, In-service teacher education programmes and Enrichment courses - Teachers' professional ethics

Practicum (any two)

1. Observe the society in which you are living and find out the reasons for stratification.

2. Prepare a report of parenting activities with reference to your family.
3. Describe one's own process of socialization on quoting some experiences.
4. Evaluate your own identity and prepare a report.
5. Organize Debates on any social issues and prepare a report.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Recognizes the sociological foundations of Education.	Remembering (BTL 1)	1,4,6,8,9
CLO 2	Examines the relationship between school and community.	Analysing (BTL 4)	1,4,6,7,8,9,10
CLO 3	Creates awareness on social mobility and social change.	Creating (BTL 6)	1,4,6,7,8,9,10
CLO 4	Identifies the role of school in developing national, secular and humanistic identities.	Applying (BTL 3)	1,4,6,7,8,9,10
CLO5	Describes the process of socialization.	Remembering (BTL 1)	1,4,6,7,8,9,10
CLO 6	Identifies their strengths and weakness through SWOC analyses.	Applying (BTL 3)	1,4,6,7,8,9,10
CLO 7	Evaluates different self-evaluation practices.	Evaluating (BTL 5)	1,4,6,7,8,9,10
CLO 8	Infers the importance of establishing teacher identity.	Creating (BTL 6)	1,4,6,7,8,9,10

Course XI: Educational Psychology - II

B.Ed.: Sem. II

Course Code: BCEP2

Credits: 4

Course Learning Outcomes:

The prospective teacher

1. Describes the concept of intelligence and creativity. (BTL 1)
2. Applies the knowledge of individual differences in their classroom teaching. (BTL 3)
3. Discovers the concepts of motivation and leadership. (BTL 3)
4. Experiments with reward and punishment in their teaching. (BTL 3)
5. Explains the theories of personality and its assessment. (BTL 3)
6. Explains mental health and hygiene. (BTL 2)
7. Examines the different types of defense mechanisms. (BTL 3)
8. Identifies the different types of guidance and counseling. (BTL 3)

Unit I: Intelligence and Creativity (L.13, T.2, P.5)

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.12, T.2, P.5)

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 - Motivational strategies in Ancient Indian classrooms - Level of aspiration - Leadership: Meaning, definition and traits - Types: Autocratic, democratic and laissez faire - Classroom climate

Unit III: Personality and Assessment (L.14, T.2, P.5)

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.12, T.2, P.5)

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.14, T.2, P.5)

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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**Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes
(CLOs)**

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Describes the concept of intelligence and creativity.	Remembering (BTL 1)	1,6,8
CLO 2	Applies the knowledge of individual differences in their classroom teaching.	Applying (BTL 3)	1,7,9,10
CLO 3	Discovers the concepts of motivation and leadership.	Applying (BTL 3)	1,6,9
CLO 4	Experiments with reward and punishment in their teaching.	Applying (BTL 3)	1,4,8,7
CLO5	Explains the theories of personality and its assessment.	Understanding (BTL 2)	1,4,7,9,10
CLO 6	Explains mental health and hygiene.	Understanding (BTL 2)	1,4,7,9,10
CLO 7	Examines the different types of defense mechanisms.	Applying (BTL 3)	1,4,7,8,9,10
CLO 8	Identifies the different types of guidance and counseling.	Applying (BTL 3)	1,4,6,8,9,10

Course XII: Assessment of Learning

B.Ed.: Sem. II

Course Code: BCAL

Credits: 4

Course Learning Outcomes:

The prospective teacher

1. Differentiates among measurement, assessment and evaluation. (BTL 4)
2. Practices continuous and comprehensive evaluation in schools. (BTL 3)
3. Examines the various tools and techniques of assessment. (BTL 3)
4. Identifies the procedures for the construction of a test to maintain the quality of learning and teaching. (BTL 3)
5. Constructs an achievement test. (BTL 6)
6. Computes the basic statistical methods to measure the performance of the individual. (BTL 3)
7. Compares the examination reforms given by the commissions to the current challenges. (BTL 4)
8. Describes the use of ICT in conducting examinations. (BTL 1)

Unit I: Perspectives on Assessment and Evaluation (L.11, T.2, P.5)

Measurement, Assessment, Evaluation: Meaning, objectives, purpose, interrelationship, functions and types – Role of Assessment in learning – Continuous and Comprehensive Evaluation - Assessment in Indian Education System

Unit II: Assessment Tools and Techniques (L.12, T.2, P.5)

Subjective: Questionnaire, Inventory – Observation, Objective: Rating scales, Anecdotal record, Schedules and Checklists – Constructing Portfolio – Rubric-Based Assessment – Quality assurance: Validity, Reliability, Objectivity, Practicability - Digital Assessment tool

Unit III: Construction of Test (L.12, T.2, P.5)

Preparing test items: Objective, restricted, extended – Test: Definition, purpose, types and principles – Diagnostic Test: Construction and purpose - Item Analysis -Remedial measures: Need, steps and strategies – Achievement Test: Construction steps and uses

Unit IV: Elementary Statistics (L.15, T.2, P.5)

Descriptive Statistics: Frequency distribution, Central tendency: Mean, median and mode, Variation: Range, quartile deviation and standard deviation, Normal distribution: Classroom applications, Correlation: Rank order and product moment – Graphical representation of data: Histogram, Frequency Curve, Frequency Polygon, Cumulative frequency curve and Ogive curve

Unit V: Examination Reforms (L.15, T.2, P.5)

Dr. Radhakrishnan Commission (1948)-Secondary Education Commission (1953), Kothari Commission (1966), National Policy on Education (NPE) 1986, Programme of Action (POA) 1992, National Curriculum Framework (NCF) 2005– National Education Policy (NEP) 2020– Non-detention Policy – ICT in Examination –Semester, trimester – Question bank – Online examination and open book exams – Marking Vs Grading – Progress report – Proctored examination-NCF 2023

Practicum (any two)

1. Preparation of 50 objective-based items, at least 5 from each type of test items in any school subject.
2. Construction of an achievement test on any topic (carrying 25 marks), its administration and interpretation of the results
3. Analysis of examination marks obtained by the students in any subject in a class and preparation of a report for sharing.
4. Construct a test or an examination paper in one's subject area and collect feedback from fellow teachers on the same.
5. Create Quizzes using Google Forms

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Differentiates among measurement, assessment and evaluation.	Analysing (BTL 4)	3,4,6,8,9,10
CLO 2	Practices continuous and comprehensive evaluation in schools.	Applying (BTL 3)	3,4,6,8,9,10
CLO 3	Examines the various tools and techniques of assessment.	Applying (BTL 3)	3,4,6,8,9,10
CLO 4	Identifies the procedures for the construction of a test to maintain the quality of learning and teaching.	Applying (BTL 3)	3,4,6,8,9,10
CLO5	Constructs an achievement test.	Creating (BTL 6)	3,4,6,8,9,10
CLO 6	Computes the basic statistical methods to measure the performance of the individual.	Applying (BTL 3)	3,4,6,8,9,10
CLO 7	Compares the examination reforms given by the commissions to the current challenges.	Analysing (BTL 4)	3,4,6,8,9,10
CLO 8	Describes the use of ICT in conducting examination.	Remembering (BTL1)	3,4,6,8,9,10

Course XIII: Pedagogy of Biological Science - II

B.Ed.: Sem. II

Course Code: BPB2

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Develops and uses various learning resources in Biology teaching. (BTL 6)
2. Estimates the recent trends in Biological Science. (BTL 5)
3. Identifies the different types of tissue culture (BTL 3)
4. Categorises the various digital resources for teaching of Biology. (BTL 4)
5. Analyses the assessment in pedagogy of Biological Science. (BTL 4)
6. Distinguishes between assessment and evaluation. (BTL 5)
7. Recognises the importance of organ systems. (BTL 1)
8. Practices the concepts of economic biology. (BTL 3)

Unit I: Learning Resources (L.12, T.2, P.3)

Textbook – Handbooks - laboratory manuals – Encyclopedia- Developing and using Charts – graphs - bulletin boards – models - science kits – museum- botanical garden - national parks - aquarium, vivarium and terrarium -herbarium - Using community resources for Biology learning - specimens: collection and preservation methods - preparation of slides - Science laboratories: designing – management - safe practices - Improvised aids - Developing and using digital resources: websites, videos, games, simulations, mobile apps, presentation, OER, interactive multimedia resources, e-books, podcasts, digital concept maps and digital graphics-Role of AI in Learning Biological Science

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

Microbiology: Meaning - Scope - History - Classification of microorganisms (Whittaker) - Biotechnology: Plant Tissue Culture - Media preparation, Types of tissue culture and its applications - Immunology: Overview of Immune system - Components of immune system: Innate, Adaptive– Passive and Active: Artificial and Natural Immunity - Genetic engineering: Applications of genetic engineering

Unit III: Evaluation (L.10, T.2, P.3)

Evaluation: Meaning, Need and Importance – Types of evaluation: Formative, Summative - Characteristics of a Good Test: Validity, Reliability and Objectivity - Different Types of Test Items: Objective, Short Answer, Essay - Diagnostic Test - Item Analysis - Remedial Teaching - Principles and steps involved in the Construction of an Achievement test

Unit IV: Plant Physiology and Organ Systems in Animals (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 (Standard IX School Content)

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

Horticulture: Pomology - Olericulture - Floriculture - Landscape gardening - Manuring: 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 (Standard IX School Content)

Practicum (any two)

1. Collect and preserve Biological specimens.
2. Prepare a report on important Indian Herbaria.
3. Analyse any two websites for recent trends in Biology and write a report on it.
4. Organize a field trip and prepare nature album.
5. Visit a local dairy plant at Reddiarpatti and prepare a report.

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<https://www.bing.com>assessment of portfolio

<https://www.youtube.com>(13) Assessment of Portfolios, Reflective Journal, Field Engagement Rubrics, Competency Based Evaluation

Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Develops and uses a variety of learning resources in biology instruction.	Creating (BTL 6)	3,4,6,8,9,10
CLO 2	Estimates the recent trends in Biological Science.	Evaluating (BTL 5)	1,4,6,7,9,10
CLO 3	Identifies the different types of tissue culture	Applying (BTL 3)	3,4,6,8,7,10
CLO 4	Categorises the various digital resources for teaching Biology.	Analysing (BTL 4)	3,4,5,6,8,9,10
CLO5	Analyses the Assessment in Pedagogy of Biological Science.	Analysing (BTL 4)	3,4,6,8,9,10
CLO 6	Distinguishes between assessment and evaluation.	Evaluating (BTL 5)	3,4,6,8,9,10
CLO 7	Recognises the importance of organ systems.	Remembering (BTL 1)	3,4,6,7,8,9,10
CLO 8	Practices the concepts of economic biology.	Applying (BTL 3)	3,4,6,8,9,10

Course XIII: Pedagogy of Computer Science - II

B.Ed.: Sem. II

Course Code: BPC2

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Evaluates the Computer Science school textbook. (BTL 5)
2. Analyses the uses of computers in educational planning. (BTL 4)
3. Describes the role of computers in educational administration. (BTL 1)
4. Constructs diagnostic and achievement tests. (BTL 6)
5. Applies the methods and techniques of evaluation in teaching Computer Science. (BTL 3)
6. Compiles the concepts of object-oriented language. (BTL 6)
7. Estimates the applications of Computer Science. (BTL 4)
8. Recognises the use of the Tamil language on the internet. (BTL 1)

Unit I: Learning Resources (L.10, T.2, P.3)

Meaning - Qualities of a good Computer Science textbook - Use of a 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- Role of AI in Learning Computer Science

Unit II: Recent Trends in Computer Science Education (L.5, T.2, P.3)

Educational Planning: Types, Process and Advantages - Role of Computers in Educational Administration: Payroll - Administration of Student Data - Inventory management - Library systems - Test administration and answer scoring and Question banking – Computers in open learning systems

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

Evaluation: Meaning, Need and Importance – Types of evaluation: Formative, Summative - Characteristics of a Good Test: Validity, Reliability and Objectivity - Different Types of Test Items: Objective, Short Answer, Essay - Diagnostic Test - Item Analysis - Remedial Teaching - Principles and steps involved in the Construction of an Achievement test

Unit IV: Object Oriented Language C++ (L.10, T.2, P.3)

Introduction to C++ - Character set – Lexical units – I/O operators - Data Types, Variables and Expressions - Flow of control: Statements - Control Statements, Selection statements, Iteration statements, Jump statements - Arrays - Classes and Objects - Polymorphism – Inheritance (Standard XI School Content)

Unit V: Computer Ethics and Cyber Security (L.13, T.2, P.3)

Introduction - Ethics – Computer ethics – Ethical issues – Cyber security and threats – Introduction to Information Technology Act – Tamil computing – Tamil on the internet – Search engines in Tamil – e-Governance – e-Library – Tamil typing and interface software - Tamil Information Interchange Coding Systems (Standard XI School Content)

Practicum (any two)

1. Create your own blog and post learning materials for your students.
2. Develop a simple employee payroll management system.
3. Identify the differences between JavaScript functions and C++ functions.
4. Prepare a report on school cyber security management.
5. Write a reflective report on the initiatives of the Ministry of Education for computer literacy.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Evaluates the Computer Science school textbook.	Evaluating (BTL 5)	3,4,5,6,9,10
CLO 2	Analyses the uses of computers in educational planning.	Analysing (BTL 4)	3,4,5,6,8,9
CLO 3	Describes the role of computers in educational administration.	Remembering (BTL 1)	3,4,5,6,8,10
CLO 4	Constructs diagnostic and achievement tests.	Creating (BTL 6)	3,4,5,6,8,9,10
CLO5	Applies the methods and techniques of evaluation in teaching Computer Science.	Applying (BTL 3)	2,3,4,5,6,8,9,10
CLO 6	Compiles the concepts of object-oriented language.	Creating (BTL 6)	4,5,6,9,10
CLO 7	Estimates the applications of Computer Science.	Analysing (BTL 4)	4,5,6,8,9,10
CLO 8	Recognises the use of the Tamil language on the internet.	Remembering (BTL 1)	3,4,5,6,8,9,10

Course XIII: Pedagogy of Commerce and Accountancy- II

B.Ed.: Sem. II

Course Code: BPCA2

Credits: 3

Course Learning Outcomes:

The prospective teacher

- i) Familiarises with the learning resources in commerce and accountancy (BTL 2)
- ii) Develops various techniques in teaching skills (BTL 6)
- iii) Acquires competency in planning and teaching of Commerce and Accountancy (BTL 3)
- iv) Applies the concept of current affairs in the teaching of Commerce. (BTL 3)
- v) Analyses the school content in Commerce and its pedagogical implications (BTL 4)
- vi) Analyses the school content in Accountancy and its pedagogical implications (BTL 4)
- vii) Grasps the concepts of evaluation and its procedure (BTL 2)
- viii) Prepares effective teaching -learning materials (BTL 6)

UNIT I: Learning Resources [L - 11, P – 2, T - 2]

Teaching Learning Materials: Concept and Importance - Edgar Dale's Cone of Learning Experiences - Classification of Teaching Learning Material: Visual Aids, Audio Aids, Audio-Visual Aids –Community Resources and Ways of Utilising Community Resources -Commerce Textbook: Need and Qualities - Rating Scale to evaluate a Commerce and Accountancy Textbook - e-resources: Websites, Journals, Books, Blogs, Educational Apps- Role of AI in Learning Commerce and Accountancy

UNIT II: Approaches in Teaching Commerce and Accountancy [L - 11, P – 2, T - 2]

Approaches: Scientific, Constructivist, Inductive and Deductive, Problem Solving-Strategies: Concept Mapping, Team Teaching, Supervised Study, Collaborative, Co-operative, Experiential, Self, Mastery, Blended and Flipped Learning.

UNIT III: Evaluation [L - 10, P – 3, T - 2]

Evaluation: Meaning, Need and Importance – Types of evaluation: Formative, Summative - Characteristics of a Good Test: Validity, Reliability and Objectivity - Different Types of Test Items: Objective, Short Answer, Essay - Diagnostic Test - Item Analysis - Remedial Teaching - Principles and steps involved in the Construction of an Achievement test

Unit IV: Knowledge of Commerce Content – II (Commerce Syllabus – Class XII) [L - 10, P – 3, T - 2]

Basics of Management - Principles and Functions of Management - Financial Markets, Capital Market and Money Market, - Marketing and Marketing Mix - Consumer Protection, Consumer Rights and Consumer Redressal Agencies - Business Environment - Government Policies relating to Business - Sale of Goods Act (1930) - Negotiable Instruments Act (1881) - Entrepreneurship Development - Entrepreneurial Competencies - Company Law - Secretarial Practice - E-Business - Business Communication and Contemporary Trends in Commerce.

Unit V: Knowledge of Accountancy Content – II (*Accountancy Syllabus – Class XII*) [L - 10, P – 3, T - 2]

Accounts from Incomplete Records, Accounts of Non-Profit Organisations, Partnership Accounts – Admission, Retirement and Death of a Partner, Dissolution of Partnership Firm, Company Accounts – Issue and Forfeiture of Shares, Issue and Redemption of Debentures, Financial Statement Analysis, Ratio Analysis, Cash Flow Statement, Computer Applications in Accounting, Accounting Software, Accounting Information System and Introduction to Accounting Standards - Economic Administration in Kautilya's Arthashastra - Economic Philosophies of Thiruvalluvar.

Practicum (Any Two)

1. Construct a test item for a unit of XI/XII syllabus
2. Submit a report on self-analysis of acquiring microteaching skills.
3. Prepare a unit plan for any unit in Commerce and Accountancy of class XI/XII.
4. Develop e-content for a Commerce/Accountancy concept
5. Prepare a wall poster on any topic in Current Affairs in Commerce.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	familiarises with the learning resources in Commerce and Accountancy.	Understanding (BTL 2)	2, 4, 6, 7, 9
CLO 2	develops various techniques in teaching skills.	Creating (BTL 6)	3, 4, 6, 7, 8, 9
CLO 3	acquires competency in planning and teaching of Commerce and Accountancy.	Applying (BTL 3)	2, 3, 4, 6, 7, 8, 9, 10
CLO 4	applies the concept of current affairs in the teaching of Commerce.	Applying (BTL 3)	3, 4, 6, 7, 8, 9
CLO5	analyses the school content in Commerce and its pedagogical implications.	Analysing (BTL 4)	2, 5, 6, 7, 8, 9
CLO 6	analyses the school content in Accountancy and its pedagogical implications.	Analysing (BTL 4)	2, 5, 6, 7, 8, 9
CLO 7	grasps the concepts of evaluation and its procedure.	Understanding (BTL 2)	3, 4, 6, 8, 9
CLO 8	prepares effective teaching-learning materials.	Creating (BTL 6)	2, 3, 4, 6, 7, 8, 9, 10

Course XIII: Pedagogy of Special English - II

B.Ed.: Sem. II

Course Code: BPE2

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Develops reading and writing skills. (BTL 6)
2. Writes lesson plans for teaching writing skill activities. (BTL 6)
3. Identifies the different types of study skills. (BTL 3)
4. Examines the different types of dictionaries. (BTL 4)
5. Integrates the study skill techniques. (BTL 6)
6. Produces diagnostic and achievement test question papers. (BTL 6)
7. Explores novel ways of teaching poetry. (BTL 6)
8. Expresses the grammatical concepts in written and oral forms for the prescribed topics. (BTL 2)

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

Purpose of reading: Reading for pleasure, reading for information – Developing reading skill: SQ3R study technique, reading club, classroom library, reading comprehension, intensive and extensive reading activities - word attack skill – Critical review of novels

Essay writing: Guidelines for writing an essay, writing essays on the given topics, writing a lesson plan for teaching an essay - Letter writing: Types, writing a lesson plan for letter writing - Summary writing: Steps, guidelines, Lesson plan writing for summarizing - Creative writing: Poetry writing, Report writing for newspapers - Translation: Guidelines and activities- Role of AI in Learning English

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 - Word-formation devices

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

Evaluation: Meaning, Need and Importance – Types of evaluation: Formative, Summative - Characteristics of a Good Test: Validity, Reliability and Objectivity - Different Types of Test Items: Objective, Short Answer, Essay - Diagnostic Test - Item Analysis - Remedial Teaching - Principles and steps involved in the Construction of an Achievement test

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

Objectives of teaching poetry - Demonstration and teaching of selected poems from Standard IX Text book – Critical appreciation and evaluation – Figures of Speech (Standard IX School Content)

Unit V: Teaching the Grammatical Content (L.10, T.2, P.3)

Homophones - Primary and modal auxiliaries - Relative clause - 'If' clause - Phrase and clause – Phrasal verb – Verb phrase (Standard IX School Content)

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. Design the Blueprint for the Standard IX term-end examination.
5. Collect a list of homophones and differentiate their usage with appropriate examples.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Develops the reading and writing skills.	Creating (BTL 6)	3,4,8,9,10
CLO 2	Writes lesson plan for teaching writing skill activities.	Applying (BTL3)	3,4,8,9,10
CLO 3	Identifies the different types of study skills.	Analysing (BTL4)	3,4,8,9,10
CLO 4	Examines the different types of dictionaries.	Creating (BTL 6)	3,4,8,9,10
CLO5	Integrates the study skill techniques.	Creating (BTL 6)	3,4,8,9,10
CLO 6	Produces diagnostic and achievement test question papers.	Creating (BTL 6)	3,4,8,9,10
CLO 7	Explores novel ways of teaching poetry.	Creating (BTL 6)	3,4,8,9,10
CLO 8	Expresses the grammatical concepts in written and oral forms for the prescribed topics.	Creating (BTL 6)	3,4,8,9,10

Course XIII: Pedagogy of History - II

B.Ed.: Sem. II

Course Code: BPH2

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Recognizes the learning resources in History. (BTL 1)
2. Differentiates modern aids from traditional aids. (BTL 4)
3. Reviews the recent trends in teaching History. (BTL 2)
4. Identifies the difficulties in learning of History. (BTL 3)
5. Discriminates the assessment tools of teaching learning History. (BTL 5)
6. Constructs diagnostic and achievement tests in History. (BTL 6)
7. Examines physical Geography of India. (BTL 3)
8. Appraises the economic development of India. (BTL 5)

Unit I: Learning Resources (L.10, T.2, P.3)

Audio visual aids: Meaning, characteristics, principles and importance - Traditional and modern aids: Black board, text book, Radio, TV, Internet, Slide Show presentation, Films, Maps, Charts, Time lines, Models, Satellite imageries, Atlas and Globe- Role of AI in Learning History.

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

Recent trends in teaching: Mind mapping - Activity Based Learning (ABL) and Active Learning Methods (ALM) - Action research - Recent trends in learning: Field trip, Educational tours, Community camps, Collaborative Learning, Bal-Panchayat- - Difficulties in learning of History

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

Evaluation: Meaning, Need and Importance – Types of evaluation: Formative, Summative - Characteristics of a Good Test: Validity, Reliability and Objectivity - Different Types of Test Items: Objective, Short Answer, Essay - Diagnostic Test - Item Analysis - Remedial Teaching - Principles and steps involved in the Construction of an Achievement test

Unit IV: Man, and Environment (L.9, T.2, P.3)

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 (Standard IX School Content)

Unit V: Economic Development and Employment (L.9, T.2, P.3)

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 (Standard IX School Content)

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 environment of your locality.
5. Prepare a report on the available natural resources in your locality.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Recognizes the learning resources in History.	Remembering (BTL 1)	2,3,4,6,8,9,10
CLO 2	Differentiates modern aids from traditional aids.	Analysing (BTL 4)	2,3,4,6,8,9,10
CLO 3	Reviews the recent trends in teaching History.	Understanding (BTL 2)	2,3,4,6,8,9,10
CLO 4	Identifies the difficulties in learning of History.	Applying (BTL 3)	2,3,4,6,8,9,10
CLO5	Discriminates the assessment tools of teaching learning History.	Evaluating (BTL 5)	2,3,4,6,8,9,10
CLO 6	Constructs diagnostic and achievement tests in History.	Creating (BTL 6)	2,3,4,6,8,9,10
CLO 7	Examines physical Geography of India.	Applying (BTL 3)	2,3,4,6,8,9,10
CLO 8	Appraises the economic development of India.	Evaluating (BTL 5)	2,3,4,6,8,9,10

Course XIII: Pedagogy of Mathematics – II

B.Ed.: Sem. II

Course Code: BPM2

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Infers the knowledge of modern approach in Mathematics education. (BTL 6)
2. Designs improvised aids for teaching Mathematics. (BTL 6)
3. Identifies the Open Education Resources in Mathematics. (BTL 3)
4. Selects the suitable evaluation techniques in Mathematics. (BTL 3)
5. Constructs diagnostic and achievement tests. (BTL 6)
6. Develops the skill in constructing visual models in Mathematics teaching. (BTL 6)
7. Analyses the content of various branches of Mathematics. (BTL 4)
8. Reviews the content of school syllabus related to Mathematics. (BTL 2)

Unit I: Learning Resources (L.12, T.2, P.3)

Individualised instruction: Meaning, characteristics and advantages - Programmed Learning Material (PLM) - Computer Assisted Instruction (CAI): Meaning, steps, modes, advantages and limitations -Intelligent Tutoring System (ITS) in teaching mathematics - Online mode of teaching Mathematics - Open Education Resources (OERs) in Mathematics - Mathematics library - Need and importance - Mathematics text book: Need and qualities - Mathematics workbook: Function and characteristics- Role of AI in Learning Mathematics.

Unit II: Visual Mathematics (L.11, T.2, P.3)

Tangrams: Historical background and its educational significance – Tessellations: Importance and Types - Origami: Exploring geometric concepts through paper folding, understanding parabolas and circles through creative string art - construction of 3D model - Engaging with mathematical puzzles – Discovering mathematical patterns in architecture and nature- Improvisation in mathematics

Unit III: Evaluation (L.10, T.2, P.3)

Evaluation: Meaning, Need and Importance – Types of evaluation: Formative, Summative - Characteristics of a Good Test: Validity, Reliability and Objectivity - Different Types of Test Items: Objective, Short Answer, Essay - Diagnostic Test - Item Analysis - Remedial Teaching - Principles and steps involved in the Construction of an Achievement test

Unit IV: Trigonometry & Mensuration (L.10, T.2, P.3)

Trigonometry: Trigonometry ratios of some special angles, complementary angles, Methods of using trigonometric table – Mensuration: Heron's formula and its application in finding area of quadrilateral, Surface area and volume of cuboid and cube (Standard IX School Content)

Unit V: Statistics and Probability (L.8, T.2, P.3)

Statistics: Measures of central tendency: Arithmetic mean, median and mode. Probability: Classical approach, Empirical approach and types of events (Standard IX School Content)

Practicum (any two)

1. Design a model question paper based on Bloom's Taxonomy.
2. Create a booklet on puzzles in Mathematics.
3. Prepare any five model of 3D shapes and calculate its area.
4. Develop a CAI package for any one of the topic from Standard IX Mathematics syllabus.
5. Prepare a list of Mathematics websites.

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**Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes
(CLOs)**

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Infers the knowledge of modern approach in Mathematics education.	Creating (BTL 6)	3,4,6,8,9,10
CLO 2	Designs improvised aids for teaching Mathematics.	Creating (BTL 6)	3,4,6,8,9,10
CLO 3	Identifies the Open Education Resources in Mathematics.	Applying (BTL 3)	3,4,6,8,9,10
CLO 4	Selects the suitable evaluation techniques in Mathematics.	Applying (BTL 3)	3,4,6,8,9,10
CLO5	Constructs diagnostic and achievement tests.	Creating (BTL 6)	3,4,6,8,9,10
CLO 6	Develops the skill in constructing visual models in Mathematics teaching.	Creating (BTL 6)	3,4,5,6,8,9,10
CLO 7	Analyses the content of various branches of Mathematics.	Analysing (BTL 4)	3,4,5,6,8,9,10
CLO 8	Reviews the content of school syllabus related to Mathematics.	Understanding (BTL 2)	3,4,5,6,8,9,10

Course XIII: Pedagogy of Physical Science - II

B.Ed.: Sem. II

Course Code: BPP2

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Prepares various aids for teaching Physical Science. (BTL 6)
2. Designs improvised apparatus for teaching Physical Science. (BTL 6)
3. ANALYSES the Physical Science school textbook. (BTL 4)
4. explains the concept of STEM Education. (BTL 2)
5. Appraises the contribution of Indian Scientists and emerging strategies of teaching Physical Science. (BTL 5)
6. Analyses the various types of test items. (BTL 4)
7. Constructs diagnostic and achievement tests for Physical Science. (BTL 6)
8. Illustrates the fundamental concepts of Physics and Chemistry. (BTL 2)

Unit I: Learning Resources (L.12, T.2, P.3)

Visual Resources: Pictures - Flashcard - Charts - Posters – Models - Improvised apparatus - ICT Resources: Television - Internet - e-Resources - Local Resources: ISRO Propulsion Complex (IPRC), Nuclear Power Plant, District Science Centre & Equatorial Geophysical Research Laboratory (ECRL) - Multimedia - Smart Classroom - Science Textbook: Qualities of a Good Science Textbook - Criteria for Evaluation of Science Textbooks - Science Library: Values - Journals in Physical Science- Role of AI in Learning Physical Science.

Unit II: Indian Scientists and Recent Trends in Physical Science Education (L.11, T.2, P.3)

Contribution of Indian Scientists: Sir C.V. Raman, Homi Jehangir Bhabha, Vikram Sarabhai - Emerging Branches of Science: Bio-Technology - Nano-Technology - Chemo-Informatics - Geo-Informatics - Science, Technology, Engineering, and Mathematics (STEM) Education – Action Research - Cooperative Learning - Types and Methods - Brain-Based Learning - Collaborative Learning - Flipped Learning - Blended Learning

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

Evaluation: Meaning, Need and Importance – Types of evaluation: Formative, Summative - Characteristics of a Good Test: Validity, Reliability and Objectivity - Different Types of Test Items: Objective, Short Answer, Essay - Diagnostic Test - Item Analysis - Remedial Teaching - Principles and steps involved in the Construction of an Achievement test.

Unit IV: Fundamentals of Physics (L.9, 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 (Standard IX School Content)

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 (Standard IX School Content)

Practicum (any two)

1. Design a plan for a Physical Science class using any one of the emerging strategies.
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 on the emerging branches of science and prepare a report on the relevance.
5. Prepare different types of charts.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Prepares various aids for teaching Physical Science.	Creating (BTL 6)	2,3,4,6,8,9,10
CLO 2	Designs improvised apparatus for teaching Physical Science.	Creating (BTL 6)	2,3,4,6,8,9,10
CLO 3	Analyses the Physical Science school textbook.	Analysing (BTL 4)	3,4,6,8,9,10
CLO 4	Explains the concept of STEM Education.	Understanding (BTL 2)	3,4,6,8,9,10
CLO5	Appraises the contribution of Indian Scientists and emerging strategies of teaching Physical Science.	Evaluating (BTL 5)	3,4,6,8,9,10
CLO 6	Analyses the various types of test items.	Analysing (BTL 4)	3,4,6,8,9,10
CLO 7	Constructs diagnostic and achievement tests for Physical Science.	Creating (BTL6)	3,4,6,8,9,10
CLO 8	Illustrates the fundamental concepts of Physics and Chemistry.	Understanding (BTL 2)	3,4,6,8,9,10

Course XIII: சிறப்புத்தமிழ் கற்பித்தல் - II

B.Ed.: Sem. II

Course Code: BPT2

Credits: 3

கற்றல் விளைவுகள்:

ஆசிரியமாணவர்

1. மொழித் திறன்களை அடையாளம் காண்கிறார். (BTL 3)
2. பாடநூல் திறனாய்வை விமர்சிக்கிறார். (BTL 5)
3. இலக்கிய திறனாய்வு கொள்கைகளை விளக்குகிறார். (BTL 2)
4. வினாத்தாள் பகுப்பாய்வை அட்டவணைப்படுத்துகிறார். (BTL 5)
5. குறையறி மற்றும் அடைவுத்தேர்வு வினாத்தாள்களைத் தயாரிக்கிறார். (BTL 6)
6. ஒன்பதாம் வகுப்பு செய்யுள் உரைநடைப் பாடப்பொருளைத் தொகுத்துரைக்கிறார். (BTL 2)
7. இலக்கியநயங்களைக் கட்டமைக்கிறார். (BTL 6)
8. இலக்கணப் பயன்பாட்டுதிறன்களைத் தொகுத்துரைக்கிறார். (BTL 2)

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

கேட்டல் திறன் நோக்கங்கள், வகைகள், கேட்டல் திறனை வளர்ப்பதற்குரிய வழிகள் - பேசுதல் திறன்: நோக்கங்கள், வகைகள், திருந்தியப் பேச்சின் இயல்புகள், திருத்தமில்லா பேச்சின் இயல்புகள், உச்சரிப்பில் ஏற்படும் சிக்கல்கள், நானெகிழ், நாபிறழ் பயிற்சி, மூச்சுப் பயிற்சி, படித்தல்: நோக்கங்கள், படிக்கப் பயிற்றும் முறைகள் (எழுத்து, சொல், சொற்றொடர், கண்டுசொல்லுதல், கதை முறைகள், நிறை, குறைகள்) ஆழ்ந்த, அகன்ற படிப்பின் நோக்கங்கள், நிறைகள், குறைகள் - வாய்விட்டு படித்தல், வாய்க்குள் படித்தல்: நிறைகள், குறைகள் - படிப்பில் ஆர்வத்தைத் தூண்டும் முறைகள், மனப்பாடம் செய்தலின் பயன்கள் - எழுதுதல் திறன்: நோக்கங்கள், முதற்பயிற்சிகள், எழுதுவதற்கான பயிற்சிகள், எழுது கருவிகளைப் பிடிக்கும் முறைகள், நல்ல கையெழுத்தின் நல்லியல்புகள்- செயற்கை நுண்ணறிவின் வழி தமிழ் கற்றல்

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

இலக்கியத் திறனாய்வு கொள்கைகள்: திறனாய்வு தோற்றம், இன்றைய திறனாய்வு நிலைகள், வகைகள்: விளக்கமுறை, படைப்புவிழித் திறனாய்வு, மரபு வழி, விதிமுறை, அழகியல், பாராட்டு, மதிப்பீட்டு, வரலாற்று ஒப்பீடு, பகுப்பு, இலக்கிய ஆய்வு நெறிமுறைகள் பாடநூல்கள்: நல்லியல்புகள், சிறந்தபாட நூல் தயாரிப்பின்போது மனதிற் கொள்ளத்தக்கவைகள், பாடநூல் திறனாய்வு விளக்கம், படிகள், பயன்கள்.

அலகு III: மதிப்பீடு (L.10,T.2,P.3)

விளக்கங்கள், நோக்கங்கள், பயன்கள், தேர்வின் இன்றியமையாதப் பண்புகள், தேர்வின் பயன்கள், ஆசிரியர் தயாரிக்கும் தேர்வுகள்: வாய்மொழி, எழுத்துத் தேர்வுநிறைகள், குறைகள், குறையறிதேர்வு விளக்கம், பயன்கள், சாதனைத் தேர்வு (அ) அடைவுத் தேர்வு விளக்கம், பயன்கள், குறையறி, அடைவுத்தேர்விற்குமுள்ள வேறுபாடுகள், வினாத்தாள் அமைப்பு, வினாத்தாள் அமைப்பில் கவனிக்க வேண்டியவை, புறவய வினாக்கள், குறுவினாக்கள், கட்டுரை வினாக்களின் நிறைகள், குறைகள், தேர்வு சீர்திருத்தம், வினாத்தாள் வடிவமைப்பு விளக்கம், தயாரித்தல்

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

தமிழ்விடுதாது - திராவிட மொழிக் குடும்பம் - தமிழோவியம் - நீரின்றி அமையாது - பெரிய புராணம் - புறநானூறு - ஏறுதழுவுதல் - மணிமேகலை - மார்கழி பெருவிழா - திருக்குறள் - கல்வியில் சிறந்த பெண்கள் - குடும்ப விளக்கு (ஒன்பதாம் வகுப்பு)

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

எழுத்து அளபெடை - தண்ணீர் - பகுபத உறுப்பிலக்கணம் - தாய்மைக்கு வறட்சி இல்லை - தொடர் இலக்கணம் - ஆகுபெயர் - வீட்டிற்கோர் புத்தகசாலை - துணை வினைகள் - வலிமிகும் இடம் - வலிமிகா இடம் - ஆறாம் திணை (ஒன்பதாம் வகுப்பு)

செய்முறை பயிற்சிகள் (ஏதேனும் இரண்டு)

1. ஒன்பதாம் வகுப்பு பாடநூலில் செய்யுள் பகுதியில் நா நெகிழ், நாபிறழ் பயிற்சியைத் தொகுத்து எழுதுக.
2. ஒன்பதாம் வகுப்பு பாடநூலிலுள்ள துணைப்பாடப் பகுதியைத் திறனாய்வு செய்க.
3. நும் கல்லூரி பாடப்பகுதி பொதுத் தமிழுக்கு வினாவங்கி ஒன்று தயார் செய்க.
4. ஒன்பதாம் வகுப்பு பாடநூலிலுள்ள புது கவிஞர்களைப் பற்றித் தொகுத்து எழுதுக.
5. 'நீரின்றி அமையாது உலகு' தலைப்பில் கட்டுரை ஒன்றைத் தயார் செய்க.

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தமிழ்நாடு பாடநூல் நிறுவனம், ஒன்பதாம் வகுப்பு பாடநூல்.

Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	மொழித் திறன்களை அடையாளம் காண்கிறார்.	பயன்பாடு (BTL 3)	2,3,6,8,9,10
CLO 2	பாடநூல் திறனாய்வை விமர்சிக்கிறார்.	மதிப்பீடு (BTL 5)	2,3,6,8,9,10
CLO 3	இலக்கிய திறனாய்வு கொள்கைகளை விளக்குகிறார்.	புரிதல் (BTL 2)	2,3,6,8,9,10
CLO 4	வினாத்தாள் பகுப்பாய்வை அட்டவணைப்படுத்துகிறார்.	மதிப்பீடு (BTL 5)	2,3,6,8,9,10
CLO5	குறையறி மற்றும் அடைவுத்தேர்வு வினாத்தாள்களைத் தயாரிக்கிறார்.	படைப்பாற்றல் (BTL 6)	2,3,6,8,9,10
CLO 6	ஒன்பதாம் வகுப்பு செய்யுள் உரைநடைப் பாடப்பொருளைத் தொகுத்துரைக்கிறார்.	புரிதல் (BTL 2)	2,3,6,8,9,10
CLO 7	இலக்கிய நயங்களைக் கட்டமைக்கிறார்.	படைப்பாற்றல் (BTL 6)	2,3,6,8,9,10
CLO 8	இலக்கணப் பயன்பாட்டு திறன்களைத் தொகுத்துரைக்கிறார்.	புரிதல் (BTL 2)	2,3,6,8,9,10

Course XIV: Pedagogy of General English – II

B. Ed: Sem. II

Course Code: BPGE2

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Differentiates various methods and approaches of English Language Teaching. (BTL 4)
2. Summarises the importance of teaching listening and speaking skill. (BTL 2)
3. Recognises the importance of Reading and writing skills. (BTL 1)
4. Infers the role of teachers in testing LSRW skills. (BTL 6)
5. Practises the professional competencies needed for an English Teacher. (BTL 2)
6. Practises the use of instructional aids in teaching English. (BTL 3)
7. Analyses the factors affecting language teaching and learning. (BTL 4)
8. Integrates technology in teaching English Language. (BTL 6)

Unit: I Methods and Approaches of English Language Teaching (L.9, T.2, P.3)

Methods: Grammar Translation method - Bilingual method – Direct method – Play-way method - ABL and ALM Approaches: Structural, Situational and Communicative Approach - Merits and Demerits

Unit II: Teaching, Developing and Testing of Listening and Speaking skill (L.9, T.2, P.3)

Listening skill: Kinds of Listening Materials – Three phases of teaching – Listening Activities – Testing Listening– Role of the teacher in testing listening skill

Speaking skill: Need – Causes of defective pronunciation in English - Activities for developing oral fluency. Role Play. Narrating incidents, speech sounds, Simulations, Information Gap, Brainstorming. Storytelling, interviews, Story Completion. Role of the teacher in testing speaking skill

Unit III: Teaching Developing and Testing of Reading and Writing skill (L.12, T.2, P.3)

Reading Skill: Types of reading: Loud reading, silent reading, intensive reading or critical reading, skimming – scanning - extensive, intensive reading- Methods of teaching reading for beginners – Developing reading activities. Role of the teacher in testing reading skill

Writing Skill: Mechanical skills, grammatical skills, discourse skills and judgment skills. Mechanics of Writing – Sub-skills in writing – Characteristics of a good Handwriting: Distinctiveness, legibility, simplicity, uniformity, spacing, capitalization, punctuations and speed - Common problems in writing – Testing writing skills - Role of the teachers in testing writing skill

Unit IV: Enhancing Professional Competencies of an English Teacher (L.11, T.2, P.3)

Developing the professional competencies of an English Teacher – Essential skills for modern teachers: Thinking skills, Communication Skills, Social skills, self-management skills, Research Skills, Critical thinking skills, Problem solving skills – Factors affecting language teaching and learning

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

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. Write a Critical review on any English book.
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. Create a digital presentation on the skills needed for an English teacher.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Differentiates various methods and approaches of English Language Teaching.	Analysing (BTL 4)	2,3,4,6,8,9,10
CLO 2	Summarises the importance of teaching listening and speaking skill.	Understanding (BTL 2)	2,3,4,6,8,9,10
CLO 3	Recognises the importance of Reading and writing skills.	Remembering (BTL 1)	2,3,4,6,8,9,10
CLO 4	Infers the role of teachers in testing LSRW skills.	Creating (BTL 6)	2,3,4,6,8,9,10
CLO5	Practises the professional competencies needed for an English Teacher.	Understanding (BTL 2)	2,3,4,6,8,9,10
CLO 6	Practises the use of instructional aids in teaching English.	Applying (BTL 3)	2,3,4,6,8,9,10
CLO 7	Analyses the factors affecting language teaching and learning.	Analysing (BTL 4)	2,3,4,6,8,9,10
CLO 8	Integrates technology in teaching English Language.	Creating (BTL 6)	2,3,4,5,6,8,9,10

Course Learning Outcomes:

The prospective teacher

1. Understands that management is the art of getting things done through other people. (BTL 2)
2. Applies Management Principles to follow modern principles to run an organisation smoothly. (BTL 3)
3. Classifies the Financial Markets. (BTL 2)
4. Recognises Economic Roles in Financial markets (BTL 2)
5. Comprehends Human Resource Fundamentals. (BTL 2)
6. Evaluates the Training Methods (BTL 5)
7. Assesses Institutional Goodwill. (BTL 5)
8. Understands restructuring adjustments (BTL 2)

Unit I : Management Process [L - 10, P – 3, T - 2]

Functions of Management: Planning, Organising and Controlling - Subsidiary Functions: Exploring the roles of Innovation and Communication - Span of Management: Manager and Subordinates - Scientific Management: Taylor's principle of Mental Revolution - Modern Management Principles: Fayol's principles on Division of Work, Discipline, and Esprit de Corps.

Unit II: Financial Markets [L - 10, P – 3, T - 2]

Financial Market Basics: Principles and Importance - Debt vs Equity Markets: Differences and Similarities - Spot vs Future Markets: Principles, Timings and Key Differences - The Money Market: Characteristics and operations - Money Market vs Capital Market: Characteristics and Differences.

Unit III: Human Resource Management (HRM) [L - 10, P – 3, T - 2]

Fundamentals of HRM: Concepts and Principles - Managerial vs Operative Functions: Differentiating between the managerial (planning, organising) and the operative (procurement, development, and compensation of staff) sides of HR - Socialisation and Employee Attitude - Recruitment Basics: Concept and understanding the link between job providers and job seekers - Training and Development: Goals and Outcomes.

Unit IV: Goodwill in Partnership Accounts [L - 10, P – 3, T - 2]

Concept of Goodwill - Reputation and Valuation: Key Principles - Internally Generated Goodwill: Accounts from Incomplete Records, Accounts of Not-For-Profit Organisations, Accounts of Partnership Firms–Fundamentals, Goodwill in Partnership Accounts and Admission of a Partner - Writing Off Goodwill.

Unit V: Admission of a Partner [L - 10, P – 3, T - 2]

Admission of a New Partner - Revaluation of Assets and Liabilities: Revaluation Account and Memorandum Revaluation Account - Accumulated Profits and Losses - Sacrificing Ratio

- Changes in Profit Sharing: Entitlement to Future Profits vs. Past Gains, Liabilities and Rights Regarding New Contracts, Rules for Partner Commissions and Remuneration, Determining the New Profit-Sharing Ratio and Compensating the Old Partners.

Practicum (Any Two)

1. Imagine you are a manager and write down a list of all the management functions you need to perform.
2. Imagine you have earned some money and decide whether you would invest it in mutual funds, shares, or debentures, and give reasons for your choice.
3. Prepare your own personal resume and practice filling out a standard job application form.
4. Collect the logos of five different businesses and ask your friends to identify the names of the businesses to understand brand reputation.
5. Assume you are going to admit a new partner into your firm and write down five important agreements you would want to include in your partnership deed

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	understands that management is the art of getting things done through other people.	Understanding (BTL 2)	2, 4, 6, 7, 9
CLO 2	applies management principles to follow modern principles to run an organisation smoothly.	Applying (BTL 3)	3, 4, 6, 7, 8, 9
CLO 3	classifies the financial markets.	Understanding (BTL 2)	2, 4, 6, 7, 9
CLO 4	recognises economic roles in financial markets.	Understanding (BTL 2)	2, 4, 6, 7, 8, 9
CLO5	comprehends human resource fundamentals.	Understanding (BTL 2)	3, 4, 6, 8, 9
CLO 6	evaluates the training methods.	Evaluating (BTL 5)	2, 4, 5, 6, 7, 8, 9
CLO 7	assesses institutional goodwill	Evaluating (BTL 5)	2, 4, 5, 6, 7, 8, 9, 10
CLO 8	understands restructuring adjustments.	Understanding (BTL 2)	2, 4, 6, 7, 8, 9

Course XIV: பொதுத்தமிழ் கற்பித்தல் - II

B.Ed.: Sem. II

Course Code: BPGT2

Credits: 3

கற்றல் விளைவுகள்:

ஆசிரிய மாணவர்

1. பாடத் திட்டமுறைகளை மேற்கொள்கிறார். (BTL 3)
2. தமிழ் இலக்கிய வளங்களை விவரிக்கிறார். (BTL 2)
3. முத்தமிழ் வளர்ச்சிநிலையை விளக்குகிறார். (BTL 2)
4. விழுமங்களை நிறுவுகிறார். (BTL 6)
5. சங்ககால இலக்கியங்களின் விழுமங்களைப் பகுப்பாய்வு செய்கிறார். (BTL 4)
6. பாடப்பொருள் திறன்களைத் தொடர்புபடுத்துகிறார். (BTL 3)
7. ஏழாம் வகுப்புசெய்யுள் உரைநடைப் பாடப்பொருளைத் தொகுத்துரைக்கிறார். (BTL 2)
8. இலக்கணப் பயன்பாட்டுத்திறனைவெளிப்படுத்துகிறார். (BTL 6)

அலகு I: பாடத்திட்டம் அமைப்பதற்கான கோட்பாடுகள் (L.14,T.2,P.3)

பாடத்திட்டம் விளக்கம், உட்கூறுகள், பாடக்குறிப்பு இன்றியமையாமை, நன்மைகள், ஆசிரியர் மனதிற்கொள்ளவேண்டியன, பாடத்திட்டத்திற்கும், ஆசிரியர் கற்பித்தல் குறிப்பிற்குமுள்ள வேறுபாடுகள், பாடத்திட்டப் பயிற்சி: செய்யுள், உரைநடை, இலக்கணம், துணைப்பாடம், கட்டுரை

அலகு II: முத்தமிழ் வளர்ச்சிநிலை (L.12,T.2, P.3)

இயல் தமிழ்: இலக்கியம் விளக்கம், மரபு, புதுக்கவிதை, கவிதை மேனாட்டார், தமிழறிஞர்கள் தரும் விளக்கம், இலக்கிய வடிவங்கள்: கற்பனை விளக்கம், வகைகள், உணர்ச்சி விளக்கம், வகைகள், வடிவம் விளக்கம், வடிவ கூறுகள், பாடப்பொருள், உள்ளுறை உவமம், இறைச்சி, செய்யுள் நலம் பாராட்டல் - இசைத்தமிழ்: தொல்காப்பியம், சிலப்பதிகாரத்தில் காணப்படும் இசைக் குறிப்புகள், தேவார இசைக்கூறுகள், பிற்கால வளர்ச்சிநிலை - நாடகத்தமிழ்: தோற்றம், வளர்ச்சி, சிலப்பதிகாரத்தில் காணப்படும் நாடகச் செய்திகள், செய்யுளை நாடகமாக்கிக் கற்பித்தல், நாடக உத்திகள், நாடக வகைகள்

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

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

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

எங்கள் தமிழ் - ஒன்றல்ல இரண்டு - பேச்சுமொழியும் எழுத்துமொழியும் - காடு - அப்படியே நிற்கட்டும் அந்த மரம் - தமிழரின் கப்பற்கலை - விடுதலைத் திருநாள் - தேசியம் காத்த செம்மல் - திருக்குறள் (ஏழாம் வகுப்பு)

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

ஆளுக்கு ஒரு வேலை - குற்றியலுகரம், குற்றியலிகரம் - விலங்குகள் உலகம் - நால்வகைக் குறுக்கங்கள் - கப்பலோட்டிய தமிழர் - ஓரெழுத்து ஒருமொழி - பகுபதம், பகாப்பதம் (ஏழாம் வகுப்பு)

செய்முறை பயிற்சி (ஏதேனும் இரண்டு)

1. கடிதப்பகுதிக்கு பாடத்திட்டம் எழுதுக.
2. ஏழாம் வகுப்பு செய்யுள் பகுதி ஒன்றை நாடகமாக மாற்றி எழுதுக.
3. ஏழாம் வகுப்பு கப்பற்கலை பாடத்தைக் காட்சிப்படுத்துக.
4. ஏழாம் வகுப்பு செய்யுள் பகுதி ஒன்றில் வெளிப்படும் விழுமியங்களை எழுதுக.
5. ஏழாம் வகுப்பு பாடப்பகுதி ஒன்றிற்கு மனவரைபடம் வரைக.

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தமிழ்நாடு பாடநூல் நிறுவனம், ஒன்பதாம் வகுப்பு பாடநூல்.

Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	பாடத்திட்ட முறைகளை மேற்கொள்கிறார்.	பயன்பாடு (BTL 3)	2,3,6,8,9,10
CLO 2	தமிழ் இலக்கிய வளங்களை விவரிக்கிறார்.	புரிதல் (BTL 2)	2,3,6,8,9,10
CLO 3	முத்தமிழ் வளர்ச்சி நிலையை விளக்குகிறார்.	புரிதல் (BTL 2)	2,3,6,8,9,10
CLO 4	விழுமங்களை நிறுவுகிறார்.	படைப்பாற்றல் (BTL 6)	2,3,6,8,9,10
CLO5	சங்ககால இலக்கியங்களின் விழுமங்களைப் பகுப்பாய்வு செய்கிறார்.	பகுப்பாய்வு (BTL 4)	2,3,6,8,9,10
CLO 6	பாடப்பொருள் திறன்களைத் தொடர்புபடுத்துகிறார்.	பயன்பாடு (BTL 3)	2,3,6,8,9,10
CLO 7	ஏழாம் வகுப்பு செய்யுள் உரைநடைப் பாடப்பொருளைத் தொகுத்துரைக்கிறார்.	புரிதல் (BTL 2)	2,3,6,8,9,10
CLO 8	இலக்கணப் பயன்பாட்டுத்திறனை வெளிப்படுத்துகிறார்.	படைப்பாற்றல் (BTL 6)	2,3,6,8,9,10

Course XV: Strengthening English Language Proficiency - II

B.Ed.: Sem. II

Course Code: BES2

Credit: 1

Course Learning Outcomes:

The prospective teacher

1. Practises a request in an different contexts (BTL 3)
2. Responds appropriately in various situations by transferring the learnt English (BTL 3)
3. Employs the skill of asking/refusing permission (BTL 3)
4. Applies appropriate phrases to express their opinions in English (BTL 3)
5. Communicates fluently and accurately in academic and social contexts (BTL 6)
6. Proposes meaningful suggestions on their own (BTL 6)
7. Describes the given situations in their own words (BTL 1)

Unit I: Interactive Learning in Daily Language Usage (L.1, P.4)

Interactive learning in different social and academic contexts – Listening to native speakers – Repeating and practising spoken language – Analysing language usage – Active participation in conversations – Asking and answering questions effectively.

Unit II: Making and Responding to Requests (L.1, P.4)

Making requests in a social environment – Accepting a request - Rejecting a request - Making a request in a formal situation - Making a request in an informal situation - Asking someone to do something for you - Asking if you can do something

Unit III: Seeking Permission (L.1, P.4)

Asking for permission - Giving permission - Refusing to give permission- Dialogue - 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 IV: Expressing and Asking for Opinion (L.1, P.4)

Phrases for expressing opinions - Phrases for expressing agreement and disagreement, Phrases for expressing interruption - Expressions to ask for opinions in formal and informal situations. Topics to describe: Describe the village you live in - Describe a political leader you like - Describe electronic equipment that you use

Unit V: Making Suggestions (L.1, P.4)

Making suggestions - Accepting suggestions - Refusing suggestions - Help your partner decide which item to buy - Warn your partner against doing something wrong - Suggest your partner to change his/her plans - Help your partner make up his/her mind - Suggest to do an activity together

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Responds appropriately in various situations by transferring the learnt English	Applying (BTL 3)	2,3,4,6,9,10
CLO 2	Practises a request in an different contexts	Applying (BTL 3)	3,4,6,7,8,9,10
CLO 3	Employs the skill of asking/refusing permission	Applying (BTL 3)	3,4,6,7,8,9,10
CLO 4	Applies appropriate phrases to express their opinions in English	Applying (BTL 3)	3,4,6,8,9,10
CLO5	Proposes meaningful suggestions on their own	Creating (BTL 6)	3,4,6,7,8,9,10
CLO 6	Communicates fluently and accurately in academic and social contexts	Creating (BTL 6)	3,4,6,8,9,10
CLO 7	Expresses different possibilities that may emerge in various situations	Creating (BTL 6)	3,4,6,7,8,9,10
CLO 8	describes the given situations in their own words	Remembering (BTL 1)	3,4,6,7,8,9,10

Course XVI: Modern Theatre Skills - II

B.Ed.: Sem. II

Course Code: BEMT2

Credit: 1

Course Learning Outcomes:

The prospective teacher

1. Explains the theory of acting. (BTL 2)
2. Builds intellectual and aesthetic understanding of the theatre games. (BTL 3)
3. Recognizes the measurement of acting. (BTL 1)
4. Practices the memory exercise of actor. (BTL 3)
5. Analyses the tension of an actor. (BTL 4)
6. Develops the skill of script writing. (BTL 6)
7. Produces a play. (BTL 6)
8. Practices the play on the stage. (BTL 3)

Unit I: Method of Acting (L.1, P.4)

Theory of Acting - Art of Acting - Measurement of Acting – Types of Acting: Actor, Performer, Parallel and Method Acting

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

Unit II: Thought and action (L.1, P.4)

Theatre Games - Mind and body - Body thinking with Practical

Unit III: Memory Exercise and action (L.1, P.4)

Use and balance - The Principles of Co-ordination - Tension on the actor. (With Practical)

Unit IV: Script Writing (L.1, P.4)

Script Writing – Theory and Practical

Unit V: Play Production (L.1, P.4)

Play Production and Performance on the stage

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Explains the theory of acting.	Understanding (BTL2)	3,4,6,9,10
CLO 2	Builds intellectual and aesthetic understanding of the theatre games.	Applying (BTL 3)	3,4,6,9,10
CLO 3	Recognizes the measurement of acting.	Remembering (BTL 1)	3,4,6,9,10
CLO 4	Practices the memory exercise of actor.	Applying (BTL 3)	3,4,6,7,9,10
CLO5	Analyses the tension of an actor.	Analysing (BTL 4)	3,4,6,9,10
CLO 6	Develops the skill of script writing.	Creating (BTL 6)	3,4,6,9,10
CLO 7	Produces a play.	Creating (BTL 6)	3,4,6,9,10
CLO 8	Practices the play on the stage.	Applying (BTL 3)	3,4,6,9,10

Semester IV

Course XVII: Curriculum and School Management

B.Ed.: Sem. IV

Course Code: BCCSM

Credits: 4

Course Learning Outcomes

The prospective teacher

1. Analyses the bases of curriculum construction in schools. (BTL 4)
2. Identifies the relationship among curriculum framework, curriculum, syllabus and textbooks. (BTL 3)
3. Discriminates the various types of models of curriculum development and evaluation. (BTL 4)
4. Recognises the role of teachers in curriculum development. (BTL 3)
5. Appraises the role of different types of schools in India. (BTL 5)
6. Designs a school plan of their own interest. (BTL 6)
7. Describes the role of the school management committee in the development of the school. (BTL 1)
8. Compiles the different elements of school management. (BTL 6)

Unit I: Concept and Nature of Curriculum (L.12, T.2, P.5)

Curriculum: Meaning, Concept, Need, Characteristics and Scope – Types of Curriculums: Subject-centred, Student-centred, Life-Centered Core and Integrated – Bases of Curriculum: Philosophical, Psychological and Sociological - Relationship among Curriculum framework, Curriculum, Syllabus and textbooks – National Curriculum Framework (2023) –Indian Knowledge System: Concept and Nature

Unit II: Curriculum Development and Evaluation (L.13, T.2, P.5)

Principles and Procedure of curriculum construction - Curriculum Development: Importance, Development Models: – Tyler, Hilda Taba and D. K. Wheeler – Curriculum Transaction – Learners at the centre of the Curriculum Transaction - Teachers as curriculum developers and implementers - Evaluation of Curriculum: Need, Process, Evaluation Models: Robert Stake, Daniel Stufflebeam, Tylerian Objectives based

Unit III: School and its Management (L.15 T.2, P.5)

The School and its Functions - Schools under Different Managements: Government, Central, State and Local Bodies - Private: Aided and Unaided, Residential Schools Run by Social Welfare Corporations, Navodaya Vidyalayas / Kendriya Vidyalayas / Sainik Schools / Railway School - National / State Open Schools - School management: Meaning, Definition, Aims, Objectives, Characteristics, Principles and Scope - Functions of Management: Planning, Organizing, Staffing, Directing, Coordinating, Reporting and Budgeting (POSDCoRB)

Unit IV: Management of Physical and Human Resources (L.12, T.2, P.5)

School Plant: Meaning, Importance, Location, Design, Constructions and Maintenance - Components: School Office, Library, Classrooms, Staff Room, Laboratory, Play Ground, School Farm, Assembly Hall, Hostel - School Personnel - Roles and Responsibilities:

Correspondent, Headmaster, Teachers, Non-Teaching Staff - Role of School Management Committees (SMCs), Parent Teacher Associations (PTAs) in School Development

Unit V: Elements of School Management (L.13, T.2, P.5)

Organisational Climate: Meaning and Types - Principles of Time-Table Preparation - School Discipline: Concept and Characteristics - Self Discipline - School Records and Registers: Need, Importance, Types and Modes of keeping Records - Educational Management Information System (EMIS) – Supervision: Meaning, Aims, Qualities of an effective supervision - Classroom Management: Meaning, Definition, Characteristics and Tips for Effective Classroom Management

Practicum (any two)

1. Compare the features of the Gurukul system with the present-day school system.
2. Collect the interesting information about local artisans/organic farmers/traditional healers and write a report.
3. Critically evaluate the merits and demerits of Residential Schools.
4. Design a school layout of your own interest based on the standard format.
5. Prepare a chart showing the organizational structure of a school.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Analyses the bases of curriculum construction in schools.	Analysing (BTL 4)	1, 4, 6,9,10
CLO 2	Identifies the relationship among curriculum framework, curriculum, syllabus and textbooks.	Applying (BTL3)	1, 4,6,9,10
CLO 3	Discriminates the various types of models of curriculum development and evaluation.	Analysing (BTL 4)	1, 4,6,7,9,10
CLO 4	Recognises the role of teachers in curriculum development.	Applying (BTL3)	1, 4,6,7,9,10
CLO5	Appraises the role of different types of schools in India.	Evaluating (BTL 5)	1, 4, 6,7,9,10
CLO 6	Designs a school plant of their own interest.	Creating (BTL 6)	1, 4,6,7,9,10
CLO 7	Describes the school management committee in the development of school.	Remembering (BTL 1)	1, 4,5,6,7,9,10
CLO 8	Compiles the different elements of school management.	Creating (BTL 6)	1, 4,6,7,9,10

Course XVIII: Soft Skills Development

B.Ed.: Sem. IV

Course Code: BCSD

Credits: 4

Course Learning Outcomes:

The prospective teacher

1. Differentiates soft skills from hard skills. (BTL 4)
2. Illustrates the ways of developing soft skills. (BTL 3)
3. Analyses his/her strengths and weaknesses using SWOC analysis. (BTL 4)
4. Develops effective communication skills. (BTL 6)
5. Facilitates the CAST skills. (BTL 6)
6. Practices effective presentation skills. (BTL 3)
7. Explains the ways of improving perception. (BTL 2)
8. Recognises the skills needed for teachers. (BTL 3)

Unit I: Soft Skills (L.12, T.2, P.5)

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.13, T.2, P.5)

Self-awareness - Joe Harry, SWOC analysis-Mindfulness Practices for teachers 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.14, T.2, P.5)

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.12, T.2, P.5)

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

Unit V: Skills for Teachers (L.14, T.2, P.5)

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), Classroom Management

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 SWOC analysis and prepare a report.
4. Organize group activity to train assertive skills.
5. Write an Individual Reflective Journal
6. Write an assignment on developing rational beliefs.

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**Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes
(CLOs)**

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Differentiates soft skills from hard skills.	Analysing (BTL 4)	1, 4, 5, 6,9,10
CLO 2	Illustrates the ways of developing soft skills.	Applying (BTL3)	1, 4,5, 6,9,10
CLO 3	Analyses their strength and weaknesses using SWOT analysis.	Analysing (BTL 4)	1, 4,5, 6,7, 9, 10
CLO 4	Develops effective communication skills.	Creating (BTL 6)	1, 4,5, 6,7, 9, 10
CLO5	Facilitates the CAST skills.	Creating (BTL 6)	1, 4, 5, 6,7, 9, 10
CLO 6	Practices effective presentation skills.	Applying (BTL3)	1, 4,5, 6,7, 9, 10
CLO 7	Explains the ways of improving perception.	Understanding (BTL 2)	1, 4,5,6,7, 9, 10
CLO 8	Recognises the skills needed for teachers.	Applying (BTL3)	1, 4,5, 6,7, 9, 10

Course XIX: Innovations in Education

B.Ed.: Sem. IV

Course Code: BCIE

Credits: 4

Course Learning Outcomes:

The prospective teacher

1. Identifies the various forms of educational technology and its educational implications. (BTL 3)
2. Compares the different types of instructional media. (BTL 5)
3. Criticises the use of flipped classroom and blended learning in education. (BTL 4)
4. Extends the basic concept of Information and Communication Technology. (BTL 2)
5. Assesses the use of Google apps in education. (BTL 5)
6. Analyses the impact of ICT in the classroom. (BTL 4)
7. Recognises the basic concept of Artificial Intelligence and its applications. (BTL 3)
8. Evaluates the use of Artificial Intelligence in education. (BTL 5)

Unit I: The Concept of Educational Technology (L.11 T.2, P.5)

Educational Technology: Concept, Definition, Objectives, Need, and Scope - Technology in Education and Technology of Education - Forms of Educational Technology: Teaching, Instructional and Behavioural Technology – Importance of Educational Technology for a Teacher

Unit II: Instructional Media and Emerging Strategies (L.13, T.2, P.5)

Instructional Media: Need, Importance and Classification, Traditional Media: Story telling and Drama - 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 - Programmed Instruction: Linear and Branching – Computer Assisted Instruction (CAI) - e-learning, m-learning, Blended Learning, Flipped Learning: Merits and Demerits

Unit III: ICT in Education (L.14, T.2, P.5)

ICT: Meaning, Definition and Importance - Uses of MS-Office in Education - e-Resources in Teaching-Learning: e-Book, e-Journal –Videoconferencing: Meaning, Types and Software - 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.14, T.2, P.5)

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 - Using Blogs in Teaching and Learning - Recent Communication Technologies in Education – Google Glasses - Cloud Computing – MOOCs

Unit V: Artificial Intelligence in Education (L.13, T.2, P.5)

Artificial Intelligence (AI) - Difference between AI and Human Intelligence - Natural Language Processing (NLP): Stages and Application – Augmented Reality and its applications - 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. Prepare a report on the Merits and Demerits of any one of the social media.
3. Create a Blog/website of your own.
4. Create a Google Classroom. Add any 5 students (from peer group). Upload any material and share the link.
5. Preparation of AI based Quiz for Classroom Assessment using any AI tool (For example: Quizlet, wayground, Google forms, Magic school AI)

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Identifies the various forms of educational technology and its educational implications.	Applying (BTL3)	1, 4, 5, 6,9,10
CLO 2	Compares the different types of instructional media.	Evaluating (BTL5)	1, 3, 4, 5, 6,9,10
CLO 3	Criticizes the use of flipped classroom and blended learning in education.	Analysing (BTL 4)	1, 4,5, 6,7, 9, 10
CLO 4	Extends the basic concept of Information and Communication Technology.	Understanding (BTL3)	1, 4,5, 6,7, 9, 10
CLO5	Assesses the use of google learning apps in education.	Evaluating (BTL 5)	1, 4, 5, 6,7, 9, 10
CLO 6	Analyses the impact of ICT in the classroom.	Analysing (BTL 4)	1, 4,5, 6,7, 9, 10
CLO 7	Recognises the basic concept of Artificial Intelligence and its applications.	Applying (BTL3)	1, 4,5,6,7, 9, 10
CLO 8	Evaluates the use of Artificial intelligence in education.	Evaluating (BTL 5)	1, 4,5, 6,7, 9, 10

Course XX: Pedagogy of Biological Science - III

B.Ed.: Sem. IV

Course Code: BPB3

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Examines the principles of curriculum construction. (BTL 3)
2. Relates the school curriculum with NCF. (BTL 6)
3. Interprets the special qualities of good Biological Science teacher. (BTL 3)
4. Expresses the various professional development programmes available for school teachers. (BTL 6)
5. Compares the different models of teaching Biological Science. (BTL 5)
6. Summarises the various co-curricular activities related to Biology (BTL 2)
7. Prepares a plan for organising Biology Club. (BTL 6)
8. Identifies the significance and values of National Scholarships. (BTL 3)

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

Curriculum: Definition - Concept - Science curriculum at different stages: Primary, upper primary, secondary and higher secondary - School science curriculum with regard to NCF (2023) - Principles to be observed in the selection of subject content - Logical, psychological, concentric, topical, historical and biographical - NCERT curriculum - Biological Science Curriculum Studies (BSCS) - Nuffield science projects

Unit II: 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, national parks - Evaluation of teaching competency: Self-evaluation, pupil's evaluation and colleagues evaluation

Unit III: Models of Teaching (L.8, T. 2, P.3)

Models of teaching: Definition, characteristics, functions and sources - Elements of a model - Types: Bruner's concept attainment model, Ausubel's advance organiser model, William Gordon's Syntectics Model-Biological Science Enquiry Training Model

Unit IV: Co-curricular Activities (L.10, T.2, P.3)

Co-curricular activities: Debate, discussion, drama, poster making on issues related to Biology - Organising events on specific days: World Earth Day - World Environmental Day - International Forest Day - International Day for the Preservation of the Ozone Layer - Role of a teacher in organising curricular activities - Biology club: Objectives, organisation and activities

UNIT V: National Science Scholarships (L.10, T.2, P.3)

National Means cum Merit Scholarship (NMMS) - Indian School Talent Search Exam (ISTSE) – National Science Olympiads - Vidyarthi Vigyan Manthan (VVM) - Kishore Vaigyanik Protsahan Yojana (KVPY) - CBSE Science Exhibition - National Children's

Science Congress (NCSC) - Innovation in Science Pursuit for Inspired Research (INSPIRE) - Million Minds Augmenting National Aspirations and Knowledge (MANAK) - Objective – Eligibility – Procedure of selection for scholarship

Practicum (any two)

1. Compare the Biology text books (elementary and secondary) on the basis of conceptual development 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 NMMS scheme in India.
5. Prepare a poster on issues related to Science.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Examines the principles of curriculum construction.	Applying (BTL 3)	1,4,6,9,10
CLO 2	Relates the school curriculum with NCF.	Creating (BTL 6)	1,4,6,9,10
CLO 3	Interprets the special qualities of good Biological Science teacher.	Applying (BTL3)	3,4,6,7,8,9,10
CLO 4	Expresses the various professional development programmes available for school teachers.	Creating (BTL 6)	4,6,7,8,9,10
CLO 5	Compares the different models of teaching Biological Science.	Evaluating (BTL 5)	4,6,9,10
CLO 6	Summarises the various co-curricular activities related to Biology.	Understanding (BTL 2)	3,4,6,8,9,10
CLO 7	Prepares a plan for organizing Biology Club.	Creating (BTL 6)	3,4,6,7,8,9,10
CLO 8	Identifies the significance and values of National Scholarships.	Applying (BTL3)	1,4,5,6,7,9,10

Course XX: Pedagogy of Computer Science - III

B.Ed.: Sem. IV

Course Code: BPC3

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Distinguishes curriculum from syllabus. (BTL 5)
2. Evaluates the Tamil Nadu Higher Secondary Computer Science curriculum. (BTL 5)
3. Identifies the specific qualities of a good computer science teacher. (BTL 3)
4. Employs the online assessment tools. (BTL 3)
5. Develops the skill in preparing CBI courseware. (BTL 6)
6. Appraises the various features of Google Apps. (BTL 5)
7. Operates the various Google apps in education. (BTL 3)
8. Explains the basic concepts of Python. (BTL 2)

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

Meaning - Curriculum, Difference between curriculum and syllabus - Principles of curriculum construction - Selection and organisation of content - Approaches in curriculum construction: Concentric, Spiral, Topical and Unitary Critical evaluation of Tamil Nadu Higher Secondary Computer Science Curriculum - Vedic sciences and computers

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 app 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 courseware material for the secondary curriculum.
2. Design a website using Google Sites.
3. Organise 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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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Distinguishes curriculum from syllabus.	Evaluating (BTL 5)	1, 4, 6, 9,10
CLO 2	Evaluates the Tamil Nadu Higher Secondary Computer Science curriculum.	Evaluating (BTL 5)	1, 4,6,9,10
CLO 3	Identifies the specific qualities of a good computer science teacher.	Applying (BTL3)	1, 4,6,7, 9, 10
CLO 4	Employs the Online Assessment tools.	Applying (BTL3)	1, 4,6,7, 9, 10
CLO5	Develops the skill in preparing CBI courseware.	Creating (BTL 6)	1, 4, 6,7, 9, 10
CLO 6	Appraises the various features of Google drive.	Evaluating (BTL 5)	1, 4,6,7, 9, 10
CLO 7	Operates the various google apps in education.	Applying (BTL 3)	1, 4,5,6,7,9,10
CLO 8	Explains the basic concepts of Python.	Understanding (BTL 2)	1, 4,6,7,9,10

Course XX: Pedagogy of Commerce and Accountancy - III

B.Ed.: Sem. IV

Course Code: BPCA3

Credits: 3

Course Learning Outcomes:

The prospective teacher

- i) Acquires knowledge of co-curricular activities in Commerce and Accountancy
- ii) Analyses the concept of classroom communication
- iii) Identifies the elements of classroom management
- iv) Familiarises with the various programmes for the professional development of teachers
- v) Plans and organises various co-curricular activities
- vi) Appreciates the usage of language across the curriculum
- vii) Relates academic disciplines and school subjects and their importance
- viii) Carries the values of Commerce and Accountancy to society.

UNIT I: Curriculum Construction in Commerce and Accountancy [L - 10, P – 3, T - 2]

Principles of Curriculum Construction - Methods of Curriculum Construction: Deductive vs Inductive method, Backwards vs Concentric method - Models of Curriculum Construction: Tyler Model (Objectives Model), Taba Model (Grassroots Model) and Wheeler Model (Cyclical Model) - Competency-Based Curriculum of Commerce and Accountancy.

UNIT II: Professional Competencies of a Commerce and Accountancy Teacher [L - 10, P – 3, T - 2]

Concept of Teaching Profession - Professional Ethics for Teachers - Qualities of a Commerce and Accountancy Teacher - Importance of Professional Development - Need for In-service Training- Teacher Appraisal: Participation in Workshops, Seminars, Conferences, Writing Articles and Research - Evaluation of Teacher Effectiveness.

UNIT III: Models of Teaching in Commerce and Accountancy [L - 10, P – 3, T - 2]

Bloom's Mastery Learning, Skinner's Operant Training, Bruner's Concept Attainment, Ausubel's Advance Organiser, Glaser's Basic Teaching (Classroom Meeting), Byron Massialac and Benjamin Cox's Social Inquiry, Carl Rogers' Non-directive and William Gordon's Synectics models

UNIT IV: Co-curricular Activities in Commerce and Accountancy [L - 10, P – 3, T - 2]

Co-curricular Activities: Concepts, Importance, Types, Role of Teacher and Advantages - Guidelines for conducting Co-Curricular Activities - Field Trips, Debates, Exhibition, Quiz, Role Play - Commerce Club: Organisation and Activities.

UNIT V: Teaching of Current Affairs and International Understanding [L - 11, P – 2, T - 2]

Current Affairs: Need and Importance -Methods- Role of the Commerce Teacher in Current Affairs. International Understanding - Need and Importance - Techniques for Promoting International Understanding - Role of Commerce Teacher in International Understanding.

Practicum (Any Two)

1. Organise a Commerce and Accountancy quiz/role play for the peer group.
2. Analyse the classroom interaction of one peer student using FIACS.

3. Participate in a seminar in your relevant area and submit the detailed report and certificate.
4. Instruct the learner to read and reflect according to the nature of the text.
5. Prepare a report on the processes involved to understand the subjects based on different disciplines.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	acquires knowledge of co-curricular activities in Commerce and Accountancy.	Understanding (BTL 2)	2, 4, 6, 7, 9
CLO 2	analyses the concept of classroom communication.	Analysing (BTL 4)	2, 5, 6, 7, 8, 9
CLO 3	identifies the elements of classroom management.	Understanding (BTL 2)	3, 4, 6, 8, 9
CLO 4	familiarises with the various programmes for the professional development of teachers.	Understanding (BTL 2)	2, 4, 6, 7, 9, 10
CLO 5	plans and organises various co-curricular activities.	Creating (BTL 6)	2, 3, 4, 6, 7, 8, 9, 10
CLO 6	appreciates the usage of language across the curriculum.	Understanding (BTL 2)	3, 4, 6, 8, 9
CLO 7	relates academic disciplines and school subjects and their importance.	Analysing (BTL 4)	2, 5, 6, 7, 8, 9
CLO 8	carries the values of Commerce and Accountancy to society.	Applying (BTL 3)	2, 3, 4, 6, 7, 8, 9, 10

Course XX: Pedagogy of Special English - III

B.Ed.: Sem. IV

Course Code: BPE3

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Analyses State Board and Central Board Secondary Education ELT Curriculum. (BTL 4)
2. Recognizes the role of language in curriculum transaction. (BTL 3)
3. Applies the knowledge of phonetics and linguistics. (BTL 3)
4. Classifies the different types of morphemes. (BTL 4)
5. Examines the idiomatic expressions. (BTL 3)
6. Analyses the constituents of structures. (BTL 4)
7. Develops the skills of classroom English. (BTL 6)
8. Designs a bridge course for school students. (BTL 6)

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

Role and significance of curriculum and syllabus - Principles of curriculum development - Steps of curriculum construction - Contents in ELT curriculum - Types of ELT curriculum - Analysis of State Board and CBSE curriculum. - The recommendations of NCF-2005 on language education - Role of language in curriculum transaction - Action Research: Concept, steps and advantages - Action research in ELT

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

Phonetics: Meaning and definition - Phonology, Received Pronunciation (R.P.), International Phonetic Alphabets (IPA) – Syllable division - Organs of speech and speech mechanism - Place and manner of articulation of consonant sounds - Voiced and voiceless sounds, Classification of vowels - Diphthongs - Differences between vowel and consonant sounds - Transcription of passages - Stress: Meaning, primary and secondary stress – Intonation

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

Unit IV: Classroom English (L.8, T.2, P.3)

Classroom English for teachers and students: Vocabulary, Phrases, and Structures - Verbal and non-verbal communication – Idiomatic expressions - Barriers in using a language - Strategies to overcome them

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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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Analyses State Board and CBSE ELT Curriculum.	Analysing (BTL 4)	1, 4, 6,9,10
CLO 2	Recognizes the role of language in curriculum transaction.	Applying (BTL 3)	1, 4,6,9,10
CLO 3	Applies the knowledge of phonetics and linguistics.	Applying (BTL 3)	1, 4,6,7, 9, 10
CLO 4	Classifies the different types of morphemes.	Analysing (BTL 4)	1, 4,6,7, 9, 10
CLO5	Examines the Idiomatic expressions.	Applying (BTL3)	1, 4, 6,7, 9, 10
CLO 6	Analyses the constituents of structure.	Analysing (BTL 4)	1, 4,6,7, 9, 10
CLO 7	Develops the skills of classroom English.	Creating (BTL 6)	1, 4,5,6,7, 9, 10
CLO 8	Designs a bridge course for college students.	Creating (BTL 6)	1, 4,6,7, 9, 10

Course XX: Pedagogy of History - III

B.Ed.: Sem. IV

Course Code: BPH3

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Examines the principles of curriculum designing. (BTL 3)
2. Analyses the different types of organisations of content. (BTL 4)
3. Recognises the importance of resources and equipment in teaching History. (BTL 1)
4. Identifies the qualities of a history teacher. (BTL 3)
5. Establishes interest in professional growth and enrichment. (BTL 3)
6. Manages the needs of various types of learners. (BTL 6)
7. Develops competencies of directing students' participation. (BTL 6)
8. Prepares a scrapbook. (BTL 6)

Unit I: Curriculum Construction (L.11, 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, and spiral

Unit II: Proficiency of a Teacher (L.12, T.2, P.3)

Essential qualifications and qualities – Professional development of a History teacher: Meaning, need and importance - 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 III: Resources and Equipments (L.9, T.2, P.3)

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 resource room: Need and essential equipment - History Museum: Importance and essential equipments - Community resources: Guest lectures and community survey – Indian Archaeological resources

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.3)

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. Prepare the life sketch of any one of your History teacher.
3. Write a reflective report on your visit to a close by museum.
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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**Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes
(CLOs)**

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Examines the principles of curriculum designing.	Applying (BTL3)	1,4,6,9,10
CLO 2	Analyses the different types of organization of content.	Analysing (BTL 4)	1,4,6,9,10
CLO 3	Recognizes the importance of resources and equipment in teaching History.	Remembering (BTL 1)	4,6,7,9,10
CLO 4	Identifies the qualities of a History teacher.	Applying (BTL3)	4,6,7,9,10
CLO5	Establishes interest for professional growth and enrichment.	Applying (BTL3)	4,6,7,9,10
CLO 6	Manages the needs of various types of learners.	Creating (BTL 6)	4,6,7, 9,10
CLO 7	Develops competencies of directing students' participation.	Creating (BTL 6)	4,5,6,7,9,10
CLO 8	Prepares a scrap book.	Creating (BTL 6)	4,6,7,9,10

Course XX: Pedagogy of Mathematics – III

B.Ed.: Sem. IV

Course Code: BPM3

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Examines the principles of curriculum construction in Mathematics. (BTL 3)
2. Analyses the different methods of organization of content. (BTL 4)
3. States the qualities of a Mathematics Teacher. (BTL 1)
4. Applies the implication of learning theories in classroom situation. (BTL 3)
5. Prepares a plan for organizing a field trip. (BTL 6)
6. Appraises the various learning resources in Mathematics. (BTL 5)
7. Infers knowledge about Mathematics competitions (BTL 6)
8. Integrates the provision for individual differences in Mathematics classrooms. (BTL 6)

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

Curriculum: Definition - Principles of curriculum construction in Mathematics - Methods of organisation of content: Psychological, logical, unitary, integrated, topical and spiral – Curriculum development in Mathematics

Unit II: Proficiency of a Teacher (L.10, T.2, P.3)

Contribution of Indian Mathematicians: Aryabhatta, Bhaskaracharya, Srinivasa Ramanujam - Professional qualification of a Mathematics teacher - Qualities and characteristics of Mathematics Teacher: Individual, professional and Social – Duties of a Mathematics teacher- In-service training - Evaluation of teachers: Rating by supervisor or peers- Self-evaluation - Evaluation by prospective teachers - Online Assessment tools for teachers

Unit III: Models of Teaching (L.12, T.2, P.3)

McCarthy's 4 MAT model of teaching and learning - Concept attainment model (Reception, Selection and unorganized), advanced organiser model and inquiry training model – constructivist approach: 5E Model- Mathematical theory: Repair theory of learning

Unit IV: Co-curricular Activities (L.9, T.2, P.3)

Mathematics club: Functions, organisation and activities - Field trip and its Advantages - Mathematics laboratory: Need, material and equipment – Mathematics Websites - Mathematics Competitions

Unit V: Provision for Individual Differences (L.11, T.2, P.3)

Managing individual differences - Developing speed and accuracy in Mathematics - Remedial measures for slow learners, the differently abled and dyscalculia in the classroom - Meaningful learning: Principles - Drill and review: Principles and advantages - Self-study: Meaning, importance - Group work - Supervised study: Meaning, merits and limitations – Collaborative learning

Practicum (any two)

1. Conduct a quiz competition in Mathematics and write a reflective report.
2. Critically analyse the mathematics text books to identify the vertical and horizontal linkage.
3. Organize a field trip and write a reflective report based on it.
4. Write an analytical report on any one of the laurels of Mathematics.
5. Prepare a list of online assessment tools in Mathematics teaching.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Examines the principles of curriculum construction in Mathematics.	Applying (BTL3)	4, 6, 7, 9, 10
CLO 2	Analyses the different methods of organization of content.	Analysing (BTL 4)	4, 6, 7, 9, 10
CLO 3	States the qualities of a Mathematics Teacher.	Remembering (BTL 1)	4, 6,9,10
CLO 4	Applies the implication of learning theories in classroom situation.	Applying (BTL3)	4, 6, 7, 9, 10
CLO5	Prepares a plan for organizing a field trip.	Creating (BTL 6)	4, 6, 7, 9, 10
CLO 6	Appraises the various learning resources in Mathematics.	Evaluating (BTL5)	4,5,6,7,9,10
CLO 7	Infers knowledge about Mathematics competitions	Creating (BTL 6)	4, 6, 7, 9, 10
CLO 8	Integrates the provision for individual differences in Mathematics classrooms.	Creating (BTL 6)	4, 6, 7, 9, 10

Course XX: Pedagogy of Physical Science - III

B.Ed.: Sem. IV

Course Code: BPP3

Credits: 3

Course Learning Outcomes:

The prospective teacher

1. Examines the principles of curriculum construction in Physical Science. (BTL 3)
2. Analyses the different approaches of curriculum organisation. (BTL 4)
3. Compares the various models of teaching Physical Science. (BTL 5)
4. Analyzes the needs of co-curricular activities (BTL 4)
5. Designs a physical science laboratory of their own interest. (BTL 6)
6. Selects appropriate remedial measures for common laboratory mishaps. (BTL 1)
7. Prepares instructional cards for science laboratory. (BTL 6)
8. Identifies the various roles and responsibilities of Physical Science teacher. (BTL 3)

Unit I: Curriculum Construction (L.10, 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: Proficiency of a Teacher (L.9, 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, Scaffold, Social Engineer, Knowledge Worker, Supervisor, Facilitator and Leader

Unit III: Models of Teaching (L.8, T.2, P.3)

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

Unit IV: Co-curricular Activities (L.8, T.2, P.3)

Co-curricular Activities: Need and Importance - Science Club: Aims, objectives, need, importance, types and organising activities - Science Exhibition and Fair: Importance and Values, Organization - Field Trip: Values, Organization –National Science Day

Unit V: 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

Practicum (any two)

1. Critically analyze the different roles of science teacher in the context of your internship practice.
2. Write an instructional plan from standard VIII or IX based on models of teaching.

3. Develop a multimedia package on any one content in Physical Science.
4. Prepare a laboratory instructional card (2 experiments).
5. Write a reflective report on the National Science Day Celebration.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Examines the principles of curriculum construction in Physical Science.	Applying (BTL3)	1, 4, 6,9,10
CLO 2	Analyses the different approaches of curriculum organization.	Analysing (BTL 4)	1, 4,6,9,10
CLO 3	Compares the various models of teaching Physical Science.	Evaluating (BTL 5)	2, 3, 6,7, 9, 10
CLO 4	Analyses the needs of co-curricular activities	Analysing (BTL 4)	1,2,3,5,6,7,9,10
CLO5	Designs a physical science laboratory of their own interest.	Creating (BTL 6)	3, 4, 6,7, 9, 10
CLO 6	Selects appropriate remedial measures for common laboratory mishaps.	Remembering (BTL 1)	4, 6, 7, 9, 10
CLO 7	Prepares instructional cards for science laboratory.	Creating (BTL 6)	4, 5, 6, 7, 9, 10
CLO 8	Identifies the various roles and responsibilities of Physical Science teacher.	Applying (BTL3)	1, 4, 6, 7, 8, 9, 10

Course XX: சிறப்புத்தமிழ் கற்பித்தல் - III

B.Ed.: Sem. IV

Course Code: BPT3

Credits: 3

கற்றல் விளைவுகள்:

ஆசிரிய மாணவர்

1. கலைத்திட்டத்தில் தாய்மொழி பெறுமிடம் பற்றி பகுத்தாய்கிறார். (BTL 4)
2. ஒலியின் வகைகளை ஒப்பீடு செய்கிறார். (BTL 5)
3. மொழியியல் கோட்பாடுகளை விவரிக்கிறார். (BTL 1)
4. மொழியின் பல்வேறு வளர்ச்சி நிலைகளைப் பயன்படுத்துகிறார். (BTL 3)
5. தமிழ் வளர்த்த சான்றோர்களைப் பற்றி விளக்குகிறார். (BTL 2)
6. வகுப்பறைத்திறன்கள் மேம்படுத்துதல் பயிற்சிதிறன் பெறுகிறார். (BTL 3)
7. தகவல் தொழில் நுட்பத்தைப் பயன்படுத்துகிறார். (BTL 3)
8. தமிழ் இணையவழி கல்வியை மதிப்பீடு செய்கிறார். (BTL 5)

அலகு I: கலைத்திட்டத்தில் தாய்மொழி பெறுமிடம் (L.12,T.2,P.3)

கலைத்திட்டம், கல்வியின் நோக்கங்கள், தேசியக்கல்விக்கொள்கை: நோக்கங்கள், குறிக்கோள்கள், பரிந்துரைகள், கலைத்திட்டத்தில் தாய்மொழியின் இடம், கலைத்திட்டம் உருவாக்குவதில் அடிப்படைகொள்கைகள் - கலைத்திட்டத்திற்கும் பாடத்திட்டத்திற்குமுள்ள வேறுபாடுகள்

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

மொழித் தோற்றகொள்கைகள், ஒலிமொழியாதல், தமிழ் ஒலிகளின் பிறப்பு, பேச்சுஉறுப்புகளும் செயல்பாடுகளும், ஒலியனியல், ஒலியன்களைக் கண்டறிவதற்குத் துணைபுரியும் கொள்கைகள், பிறப்பு அடிப்படையில் உயிரொலிகள், மெய்யொலிகள், வகைகள் (அடைப்பொலி (அ) தடையொலி, மருங்கொலி (அ) பிரிவளி ஒலி, வருடொலி (அ) அடியொலி, அரையுயிர்கள், உரசொலி, முக்கொலி, ஆடொலி)

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 முதன்மைப்பெற செய்யவேண்டுவன, ஆக்க வழிமுறைகள் - தமிழ் ஆட்சிமொழி, நீதிமன்ற மொழியாய் செயல்படுவதால் ஏற்படும் பயன்கள் - பிறமொழிச் சொற்கள் - தமிழ் வளர்த்த சான்றோர்கள்: உமறுப்புலவர், வீரமாமுனிவர், டாக்டர் கால்டுவெல், ஜி.யு. போப், தேவநேயப்பாவாணர், புதுமைப்பித்தன், வரதராசனார், கி. ராஜநாராயணன், ஜெயகாந்தன், அப்துல் ரகுமான், அ. லுர்துசாமி, சே.ச.

அலகு IV: வகுப்பறைத் திறன்களை 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, தலைப்புத் தருதல், குறிப்புத் தருதல், முடிவை மாற்றித் தருதல் - வகுப்பு நூல், வகுப்பு நூலகங்களில் வைப்பதற்கான நூல் தேர்ந்தெடுக்கும்போது கவனத்தில் கொள்ளத்தக்கவைகள், பள்ளி நூலகம், மேற்கோள் நூலகம் - பார்வை நூல்கள்: நிகண்டுகள், அகராதி, கலைக்களஞ்சியம், அபிதானசிந்தாமணி, மொழியாசிரியர் கடமை

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

மொழிப் பயிற்றாய்வு கூடம் அமைப்பு, பயன் - கணினித் தமிழ்: கணினி வழி மொழிக் கற்பித்தல், பயன்கள் - இலக்கண இலக்கியம் கற்பித்தல், இணையம்: இணையவழி கல்வி, தமிழ் இணையத்தின் சிறப்பு, தமிழ் இணையப் பல்கலைக்கழக நோக்கம், குறிக்கோள் - பல்லாடகம் வழி தமிழ் கற்பித்தல்

செய்முறை பயிற்சிகள் (ஏதேனும் இரண்டு)

1. உயர்தனி செம்மொழி பண்புகளைப் பட்டியலிட்டு எழுதுக.
2. பேச்சுறுப்பு செயல்பாடுகள் குறித்து நழுவல் ஒன்று தயாரிக்க.
3. அறிவியல் கலைச்சொற்களைத் தொகுத்தெழுதுக.
4. கையெழுத்து இதழ் ஒன்றினை தயாரிக்க.
5. ஏதேனும் ஓர் இலக்கிய நூல் பற்றி இணையதள ஒப்பீடு ஒன்று எழுதுக.

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**Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes
(CLOs)**

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	கலைத்திட்டத்தில் தாய்மொழி பெறுமிடம் பற்றி பகுத்தாய்கிறார்.	பகுப்பாய்வு (BTL 4)	3,6,9,10
CLO 2	ஒலியின் வகைகளை ஒப்பிட்டுப் பார்க்கிறார்.	மதிப்பீடு (BTL 5)	3,4,8,9,10
CLO 3	மொழியியல் கோட்பாடுகளை விவரிக்கிறார்.	நினைவாற்றல் (BTL 1)	3,4,8,9,10
CLO 4	மொழியின் பல்வேறு வளர்ச்சி நிலைகளைப் பயன்படுத்துகிறார்.	பயன்பாடு (BTL 3)	3,4,8,9,10
CLO5	தமிழ் வளர்த்த சான்றோர்களைப் பற்றி விளக்குகிறார்.	புரிதல் (BTL 2)	2,3,4,8,9,10
CLO 6	வகுப்பறைத்திறன்கள் மேம்படுத்துதல் பயிற்சிதிறன் பெறுகிறார்.	பயன்பாடு (BTL 3)	2,3,4,8,9,10
CLO 7	தகவல் தொழில் நுட்பத்தைப் பயன்படுத்துகிறார்.	பயன்பாடு (BTL 3)	2,3,4,8,9,10
CLO 8	தமிழ் இணையவழி கல்வியை மதிப்பீடு செய்கிறார்.	மதிப்பீடு (BTL 5)	2,3,4,8,9,10

Course XXI: Education of Exceptional Children

B.Ed.: Sem. IV

Course Code: BEEC

Credits: 2

Course Learning Outcomes:

The prospective teacher

1. Explains the knowledge on different perspectives in the area of education of children with disabilities. (BTL 2)
2. Reframes attitudes towards children with special needs. (BTL 5)
3. Identifies the needs of children with diversities. (BTL 3)
4. Plans need-based programmes for all children with varied abilities in the classroom. (BTL 6)
5. Integrates innovative practices to respond to education of children with special needs.(BTL 6)
6. Reviews the policy and legislative frameworks promoting inclusion. (BTL 2)
7. Estimates the ways to create inclusive classrooms using inclusive pedagogy. (BTL 5)
8. Develops the skills of adapting curriculum to meet the need of the students with diverse needs. (BTL 6)

Unit I: Understanding Diversity (L.5, T.2, P.2)

Special Needs: Define – Diversity due to disability: Nature, characteristic, needs – Exceptional Children: Definition, characteristics, needs and problems – Concept of impairment, disability and handicap by WHO – Growth and development – Influence of Heredity and Environment

Unit II: Identification of Diverse Learners (L.7, T.2, P.2)

Sensory impairment: Visual, hearing – Physical impairment: Ortho, neuromuscular – Cognitive impairment: Gifted, slow learners, retarded, Autism Spectrum Disorder (ASD) – Learning disabled: Characteristics, causes and needs – Socially disabled: Causes, problems and educational measures

Unit III: History of Inclusion and Special Schools (L.5, T.2, P.2)

Paradigm shift: Segregation to inclusion – Approaches: Cross disability approach, Charity model, bio-centric model, functional model and human rights model – Concept of Special, integrated and inclusive schools

Unit IV: Policy perspectives (L.7, T.2, P.2)

Rehabilitation Council of India Act (RCI, 1992) – Persons with Disabilities Act (PWD Act) 1995 – National Trust Act 1999 – Education of Special Group of Children with SSA (2000) – Comprehensive Action Plan for Children with Disabilities (2005) – UN Convention on the Rights of Person with Disabilities (UNCRPD, 2006) – Integrated Education for Disabled Children (IEDC, 2007) – Inclusive Education for Disabled at Secondary School (IEDSS, 2009)

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

Components of Inclusive Classrooms – Adaptation of curriculum – Implication for Instructional planning: Lesson Plan – Individualised Education Plan (IEP): Definition, development and implementation –Teaching-Learning Material for Children with Special Needs– Role of special teacher, speech therapist, psycho therapist, occupational therapist and counsellor in inclusive education – Assistive Technology

Practicum (any two)

1. Critically review any one of the Disability Act and examine how the Act will satisfy the needs of PWD in an inclusive society.
2. Identify any one topic from the textbook and prepare write up as to how the given content can be adapted for children with sensory impairment and suggest teaching learning aids to be required by the teacher.
3. Identify various types of schools available for children with disability and make a note on educational facility available for them.
4. Visit a nearby special and regular school. Make observations in terms of time table, teaching learning activities, infrastructure, child to child interaction and parental support. Compare the practices.
5. Prepare a plan of teaching activities for any one category of the children with special needs in the school.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Explains the knowledge on different perspectives in the area of education of children with disabilities.	Understanding (BTL 2)	1,4,6,9,10
CLO 2	Reframes attitudes towards children with special needs.	Evaluating (BTL 5)	1,4,6,9,10
CLO 3	Identifies the needs of children with diversities.	Applying (BTL3)	1,4,6,7, 9,10
CLO 4	Plans need-based programmes for all children with varied abilities in the classroom.	Creating (BTL 6)	1,4,6,7,9,10
CLO5	Integrates innovative practices to respond to education of children with special needs.	Creating (BTL 6)	1,4,6,7,9,10
CLO 6	Reviews the Policy and legislative frameworks promoting inclusion.	Understanding (BTL 2)	1,4,6,7,9,10
CLO 7	Estimates the ways to create inclusive classrooms using inclusive pedagogy.	Evaluating (BTL 5)	1,4,5,6,7,9,10
CLO 8	Develops the Skills of Adapting Curriculum to meet the need of the Students with Diverse needs.	Creating (BTL 6)	1,4,6,7,9,10

Course XXI: Gender Issues in Education

B.Ed.: Sem. IV

Course Code: BEGI

Credits: 2

Course Learning Outcomes:

The prospective teacher

1. Explains the core concepts of gender studies. (BTL 2)
2. Identifies the gender role in family, society, caste and religion. (BTL 3)
3. Recognises the role of teachers in reinforcing gender equality. (BTL 1)
4. Examines the major shift in gender studies. (BTL 3)
5. Summarises the various theories on gender. (BTL 2)
6. Negotiates the gender issues in education. (BTL 6)
7. Illustrates gender violence and its remedies. (BTL 3)
8. Criticises the Protection of children from sexual offences act, 2012. (BTL 5)

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

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

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

Gender inequality: Meaning and definition and causes - Gender inequality across: Family, society, educational institutions and workplace in India - Role of teachers in reinforcing gender equality - Gender identity: Meaning, definition and role of teacher in identity formation

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

Gender theories: Functionalist approach, conflict theory and symbolic interaction theory - Feminist theory: Liberal feminism, Radical feminism and Black feminism

Unit IV: Gender Issues and School (L.6, T.2, P.2)

Gender issues: Curriculum, Textbook, enrollment, retention, participation and classroom transaction - Role of teachers in maintaining gender equality in the classroom- Schooling of girls - Empowerment of girls

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 the Workplace Act, 2013 - Protection of Children from sexual offences act, 2012 (POCSO)- Internal Complaints Committee-Singappen Special Task Force.

Practicum (any two)

1. Prepare a digital presentation on any one of the concepts of gender studies.
2. Choose a short film related to gender issues and present a critical report.
3. Critically analyse the Power Structure of men and women as portrayed in various gender theories.
4. Make posters on gender issues in Education.
5. Take a survey on gender violence of your locality and submit the reflective report.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Explains the core concepts of gender studies.	Understanding (BTL 2)	1,4,6,9,10
CLO 2	Identifies the gender role in family, society, caste and religion.	Applying (BTL3)	1,4,6,9,10
CLO 3	Recognises the role of teachers in reinforcing gender equality.	Remembering (BTL1)	1,4,6,7,9,10
CLO 4	Examines the major shift in gender studies.	Applying (BTL3)	1,4,6,7,9,10
CLO5	Summarises the various theories on gender.	Understanding (BTL 2)	1,4,6,7,9,10
CLO 6	Negotiates with the gender issues in education.	Creating (BTL 6)	1,4,6,7,9,10
CLO 7	Illustrates the gender violence and their remedies.	Applying (BTL3)	1,4,5,6,7,9,10
CLO 8	Criticizes the protection of children from sexual offences act 2012.	Evaluating (BTL 5)	1,4,6,7,9,10

Course XXI: Vision of Education in India

B.Ed.: Sem. IV

Course Code: BEVI

Credits: 2

Course Learning Outcomes:

The prospective teacher

1. Recognises the vision of Indian Education at different levels. (BTL 3)
2. Analyses the vision 2023 of the Tamil Nadu government. (BTL 4)
3. Evaluates the role of education relevant to Indian society. (BTL 5)
4. Recognizes the issues and challenges of contemporary Indian schooling. (BTL 3)
5. Analyses the causes for wastage and suggests the remedial measures. (BTL 4)
6. Prepares the plan for environmental conservation and regeneration. (BTL 6)
7. Explains the role of various educational agencies. (BTL 2)
8. Interprets the functions of various national agencies. (BTL 3)

Unit I: Education in India (L.8,T.2,P.2)

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.2)

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.5,T.2,P.2)

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.2)

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.5, T.2,P.2)

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

Practicum (any two)

1. Design a digital presentation on any one of the topics from the above units.
2. Identify the issues in school and prepare a report on the strategies to overcome it.
3. Write a reflective report on the criteria to assess a school in terms of quality.
4. Prepare a report on your pro-active role for Universal peace.
5. Analyse the pollution in the river Thamirabarani and suggest the ways and means to protect it.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Recognizes the vision of Indian Education at different levels.	Applying (BTL3)	1,4,6,9,10
CLO 2	Analyses the vision 2023 of Tamil Nadu government.	Analysing (BTL4)	1,4,6,9,10
CLO 3	Evaluates the role of education relevant to Indian society.	Evaluating (BTL 5)	1,4,6,7,9,10
CLO 4	Recognizes the issues and challenges of contemporary Indian schooling.	Applying (BTL3)	1,4,6,7,9,10
CLO5	Analyses the causes for wastage and suggests the remedial measures.	Analysing (BTL 4)	1,4,6,7,9,10
CLO 6	Prepares the plan for environmental conservation and regeneration.	Analysing (BTL 4)	1,4,6,7,9,10
CLO 7	Explains the role of various educational agencies.	Understanding (BTL 2)	1,4,5,6,7,9,10
CLO 8	Interprets the functions of various national agencies.	Applying (BTL 3)	1,4,6,7,9,10

Course XXI: Peace Education

B.Ed.: Sem. IV

Course Code: BEPE

Credits: 2

Course Learning Outcomes:

The prospective teacher

1. Describes the concept of peace education. (BTL 1)
2. Recognises the aims and objectives of peace education. (BTL 3)
3. Examines the Practical steps to build peace culture in schools. (BTL 3)
4. Recognises the nature of conflicts and their resolutions. (BTL 3)
5. Identifies the role of peace education in resolving conflict. (BTL 3)
6. Analyses the factors affecting peace. (BTL 4)
7. Criticises the role of world organisations in promoting peace. (BTL 5)
8. Decides to practice classroom activities to cultivate peace among students. (BTL 5)

Unit I: Introduction to 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 organisations in promoting peace: UNO, SAARC and Commonwealth organisation, UNESCO-Mahatma Gandhi Institute of Education for Peace and Sustainable Development.

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

Ecological thinking and respect 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+)- Classroom activities

Practicum (any two)

1. Identify the peace concept in Thirukkural (any ten) and submit a report.
2. Prepare a report on any one of the NGOs promoting peace.
3. Identify a personality at international level who stood for peace and prepare a report.
4. Find out the factors that affect peace in your area and prepare a report on it.
5. Write a report on cultural barriers in promoting peace.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Describes the concept of peace education.	Remembering (BTL 1)	1, 4, 6,9,10
CLO 2	Recognizes the aims and objectives of peace education.	Applying (BTL3)	1, 4,6,9,10
CLO 3	Examines the Practical steps to build peace culture in schools.	Applying (BTL3)	1, 4,6,7, 9, 10
CLO 4	Recognizes the nature of conflicts and their resolutions.	Applying (BTL3)	1, 4,6,7, 9, 10
CLO5	Identifies the role of peace education in resolving conflict.	Applying (BTL3)	1, 4, 6,7, 9, 10
CLO 6	Analyses the factors affecting peace.	Analysing (BTL 4)	1, 4,6,7, 9, 10
CLO 7	Criticizes the role of world organizations in promoting peace.	Evaluating (BTL 5)	1, 4,5,6,7, 9, 10
CLO 8	Decide to practice classroom activities to cultivate peace among students.	Evaluating (BTL 5)	1, 4,6,7, 9, 10

Course XXI: Disaster Management

B.Ed.: Sem. IV

Course Code: BEDM

Credits: 2

Course Learning Outcomes:

The prospective teacher

1. Recalls the Historical Perspectives of Disasters Management. (BTL 1)
2. Identifies the role of different agencies of Disaster Management. (BTL 3)
3. Describes the natural disasters and its kinds. (BTL 1)
4. Recognizes the type of man-made disasters. (BTL 3)
5. Discriminates between natural and man-made disasters. (BTL 4)
6. Creates awareness on the procedures of Disaster Preparedness and Mitigation. (BTL 6)
7. Applies the strategies of rehabilitation, reconstruction and recovery. (BTL 3)
8. Develops the skill of coping with disaster management. (BTL 6)

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

Disaster: Meaning, Nature and History - History of Disaster Management - United Nations office for Disaster Risk Reduction (UNDRR) - Role of National Disaster Management Authority (NDMA) - National Executive Committee (NEC) - The Disaster Management Act (2005) - National Policy on Disaster Management (2009)

Unit II: Natural Disasters (L.5, T.2, P.2)

Natural Disasters: Causes - Geographical: Volcanic Eruptions – Earthquakes – Landslides – Tsunamis - Hydrological: Avalanches and Flood Climatological: Extreme Temperature - Drought – Wildfires – Meteorological: Cyclone – Storms – Waves – Biological: Endemic - Pandemic: Covid 19

Unit III: Man-Made Disasters (L.6, T.2, P.2)

Man-Made Disasters: Nuclear Disasters – Chemical Disasters – Biological Disasters – Building Fire – Coal Fire – Forest Fire – Oil Fire – Air Pollution – Water Pollution – Deforestation – Industrial Pollution – Road Accidents – Rail Accidents – Air Accidents – Sea Accidents

Unit IV: Disaster Preparedness (DP) (L.7, T.2, P.2)

Disaster Preparedness (DP): Concept, Nature and Plan - Role and Responsibilities of Central, State, District, and Local Administration, Armed Forces, Police, Para-military Forces, International Agencies, Non-governmental Organizations, Community and Media - Use and Application of Emerging Technologies in Disaster Preparedness – Disaster Mitigation - Disaster Mitigation Strategies – Eco Friendly Disaster Mitigation - National Safety Programme (NSP) – National Institute of Disaster Management (NIDM)

Unit V: Rehabilitation, Reconstruction and Recovery (L.6, T.2, P.2)

Damage Assessment - Indian way of Disaster Management - Parameters of Vulnerability - Development of Physical and Economic Infrastructure - Creation of Long-term Job Opportunities and Livelihood Options - Education and Awareness - Dealing with Victims' Psychology - Long-term Recovery - Long-term Counter Disaster Planning

Practicum (any two)

1. Making Posters on the Disasters of India.
2. Write a Report of on any one of the Recent Disasters of Tamil Nadu.
3. Prepare a Time Line on the Disasters of the Planet Earth in the History.
4. Take a survey on the Awareness on the Disaster Management and Write a Report.
5. Preparing a Digital Presentation on the Covid-19 Pandemic.

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**Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes
(CLOs)**

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Recalls the Historical Perspectives of Disasters Management.	Remembering (BTL1)	1,4,6,9,10
CLO 2	Identifies the role of different agencies of Disaster Management.	Applying (BTL3)	1,4,6,9,10
CLO 3	Describes the natural disasters and its kinds.	Remembering (BTL1)	1,4,6,7,9,10
CLO 4	Recognizes the type of man-made disasters.	Applying (BTL3)	1,4,6,7,9,10
CLO5	Discriminates between natural and man-made disasters.	Analysing (BTL4)	1,4,6,7,9,10
CLO 6	Creates awareness on the procedures of Disaster Preparedness and Mitigation.	Creating (BTL 6)	1,4,6,7,9,10
CLO 7	Applies the strategies of Rehabilitation, Reconstruction and Recovery.	Applying (BTL3)	1,4,5,6,7,9,10
CLO 8	Develops the skill of coping with disaster management.	Creating (BTL 6)	1,4,6,7,9,10

Course XXI: Cyber Crime and Cyber Security

B.Ed.: Sem. IV

Course Code: BECS

Credits: 2

Course Learning Outcomes

The prospective teacher

1. Analyses the various security elements of cyber security. (BTL 4)
2. Recognizes the various cyber security terminologies. (BTL 3)
3. Argues on the cyber-crime against individual. (BTL 5)
4. Estimates the effect of cyber-crime against individual. (BTL 5)
5. Criticizes the cyber-crime against property. (BTL 5)
6. Describes the cyber security policy of India. (BTL 1)
7. Identifies the different types of security controls. (BTL 3)
8. Examines the different intellectual property crimes. (BTL 3)

Unit I: Cyber Security (L.6, T.2, P.2)

Meaning and concept - Cyber security terminologies: Cyberspace, attack, attack vector, attack surface, threat, risk, vulnerability, exploit, exploitation, hacker - Various elements of cyber security: Application Security, Information security, Disaster Recovery / Business continuity planning, Operational security (OPSEC), Network Security, End-user education.

Unit II: Cyber Crime against Individual (L.5, T.2, P.2)

Harassment via electronic mails, Dissemination of obscene material, Cyber –stalking, Defamation, Indecent exposure, Cheating, Unauthorized control/access over computer system, Email spoofing, Fraud

Unit III: Cyber Crime against Property (L.6, T.2, P.2)

Computer vandalism, Transmitting Virus, Net-trespass, Unauthorized access/control over computer system, Internet thefts, Intellectual Property crimes: Software piracy, Copyright infringement, Trademark infringement

Unit IV: Cyber Crime against Governments or Organizations (L.7, T.2, P.2)

Child pornography, indecent exposure of polluting the youth financial crimes, Sale of illegal articles, Trafficking, Forgery, Online gambling, Web jacking

Unit V: Cyber Security Management, Compliance and Governance (L.6, T.2, P.2)

Cyber security Plan- cyber security policy, cyber crises management plan, Business continuity, Risk assessment, Types of security controls and their goals, Cyber security audit and compliance, National cyber security policy and strategy

Practicum (any two)

1. Prepare password policy for computer and mobile device.
2. List out security controls for computer and implement technical security controls in the personal computer.
3. List out security controls for mobile phone and implement technical security controls in the personal mobile phone.
4. Log into computer system as an administrator and check the security policies in the system.
5. Prepare a collage of cyber-crime existing in the local community.

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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Analyses the various security elements of cyber security.	Analysing (BTL 4)	1, 4,5,6,7, 9, 10
CLO 2	Recognizes the various cyber security terminologies.	Applying (BTL3)	1, 4,5,6,7, 9, 10
CLO 3	Argues on the cyber-crime against individual.	Evaluating (BTL 5)	1, 4,5,6,7, 9, 10
CLO 4	Estimates the effect of cyber-crime against individual.	Evaluating (BTL 5)	1, 4,5,6,7, 9, 10
CLO5	Criticizes the cyber-crime against property.	Evaluating (BTL 5)	1, 4,5,6,7, 9, 10
CLO 6	Describes the cyber security policy of India.	Remembering (BTL 1)	1, 4,5,6,7, 9, 10
CLO 7	Identifies the different types of security controls.	Applying (BTL3)	1, 4,5,6,7, 9, 10
CLO 8	Examines the different intellectual property crimes.	Applying (BTL3)	1, 4,5,6,7, 9, 10

Course XXI: Parenting Education

B.Ed.: Sem. IV

Course Code: BEPAE

Credits: 2

Course Learning Outcomes

The prospective teacher

1. Identifies the sensitivity of family life and parenting education. (BTL 2)
2. Compares the approaches of parenting education (BTL 5)
3. Recognizes the responsibilities in parenting. (BTL 1)
4. Estimates the sources of parenting. (BTL 5)
5. Analyses the social resources in parenting. (BTL 4)
6. Examines the skills needed for parenting. (BTL 3)
7. Evaluates different styles of Parenting. (BTL 5)
8. Describes the new trends in parenting education. (BTL 4)

Unit I: Introduction to Family Life and Parenting Education (L.8, T.2, P.2)

Family life education: concept and need - Interpersonal relationships - Internal dynamics of families - Family resource management - Pre-parenting education- Parenting: Concept and Scope - Fatherhood - Motherhood - Parenting education: Meaning, definitions, nature, scope and goals -Approaches of parenting education: Behavior-Management and Relationship-Enhancement approaches- Parenting education in India

Unit II: The Basics and Responsibilities in Parenting (L.6, T.2, P.2)

Dharma Parenting - Theories of parenting: Attachment theory and Behaviourism - Parenting of: Toddlers, children, adolescents and exceptional children - Sources of parenting - Family types in parenting: Nuclear and Joint Family - The role of Grandparents in parenting - Healthy parenting practices

Unit III: The Social Resources in Parenting (L.6, T.2, P.2)

Individual Parenting Education - Role of care takers – Other partners in parenting: Peers, schools, religious institutions, cultural organisations, and electronic media-Culture and parenting - Need and role of parent-teacher associations in educational institutions - Parent-teacher associations in India.

Unit IV: Skills and Styles in Parenting (L.6, T.2, P.2)

Organisation of Home Environment and Routine in parenting - Communication skills in parenting - Contemporary - Socio-economic and cultural status of parents on parenting - Positive parenting Strategies - Coping with Parenting Stress - Styles of parenting - Indian and International Styles of Parenting - Ways and means of enhancing Parent-child-teacher relationship

Unit V: New trends in Parenting Education (L.4, T.2, P.2)

Role and responsibilities of parents in 21st Century –Work-Life balance in Parenting - Virtual parenting: Interaction and reward – Kids have no gender - Current strategies for parenting education – Future parenting.

Practicum (any two)

1. Conduct a survey of 20 parents to identify the parenting awareness among them and submit a reflective report.
2. Conduct a survey of 20 parents to identify their style of parenting and submit a reflective report.
3. Conduct a survey of 20 parents to find the influence of Peers, School and Electronic Media on Parenting and submit a reflective report.
4. Conduct a survey of 20 parents to find the level of Parent-Child relationship and submit a reflective report.
5. Conduct a survey of 20 parents to find the role of mothers and fathers in parenting and submit a reflective report.

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**Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes
(CLOs)**

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Identifies the sensitivity of family life and parenting education.	Understanding (BTL 2)	3,4,6,9,10
CLO 2	Compares the approaches of parenting education	Evaluating (BTL 5)	3,4,6,7,9,10
CLO 3	Recognizes the responsibilities in parenting.	Remembering (BTL 1)	3,4,6,9,10
CLO 4	Estimates the sources of parenting.	Evaluating (BTL 5)	3,4,6,9,10
CLO5	Analyses the social resources in parenting.	Analysing (BTL 4)	3,4,6,9,10
CLO 6	Examines the skills needed for parenting.	Applying (BTL 3)	2,3,4,6,9,10
CLO 7	Evaluates different styles of Parenting.	Evaluating (BTL 5)	3,4,6,9,10
CLO 8	Describes the new trends in parenting education.	Analysing (BTL 4)	3,4,6,9,10

Course XXII: Strengthening English Language Proficiency - III

B.Ed.: Sem. IV

Course Code: BES3

Credit: 1

Course Learning Outcomes:

The prospective teacher

1. Prepares a complain to the corporation. (BTL 6)
2. Discusses the ways of giving advice. (BTL 2)
3. Practises to offer and decline help. (BTL 3)
4. Writes a situation when they are offered help. (BTL 6)
5. Expresses obligations. (BTL 6)
6. Differentiates making offers in formal, semi-formal, informal situations. (BTL 4)
7. Prepares themselves in different tasks for assessment. (BTL 6)
8. Expresses different possibilities that may emerge in various situations (BTL 6)

Unit I: Complaining and Apolozing (L.1, P.4)

Complaining about something – Offering solution to the problem caused- Speak on any one of the topics: You have broken the window of your neighbour's house while playing cricket. Apologize them, The Street near your school is full of potholes. Complain to the corporation

Unit II: Advising (L.1, P.4)

To give advice in a particular situation – What advice would you give in these situations: I am getting fat, I hate Mathematics, but my parents want me to study Engineering

Unit III: Expressing Obligation (L.1, P.4)

To ask a question and suggest a possible answer before the listener replies – 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

Unit IV: Making Offers (L.1, P.4)

Making offers in formal, semi-formal, informal situations – Making announcements – Expression accepting and declining offers – Making offers with elders, strangers and people in authority

Unit V: Expressing Possibility or Probability (L.1, P.4)

Expressing possibility - Expressing impossibility -Talking about possibilities that may emerge from situations - Talk for two minutes on any one of the topics: What would you do if you find a wallet with lot 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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Mapping of Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs)

Course Learning Outcomes (CLOs)	The Prospective Teacher	Bloom's Taxonomy Level	PLOs Addressed
CLO 1	Articulates in English with confidence at any situation.	Applying (BTL 3)	1, 4,5,6,7, 9, 10
CLO 2	Prepares a complain to the corporation.	Creating (BTL 6)	1, 4,5,6,7, 9, 10
CLO 3	Discusses the ways of giving advice.	Understanding (BTL 2)	1, 4,5,6,7, 9, 10
CLO 4	Practices to offer and decline help.	Applying (BTL3)	1, 4,5,6,7, 9, 10
CLO5	Writes a situation when they had offered to help someone.	Creating (BTL 6)	1, 4,5,6,7, 9, 10
CLO 6	Expresses obligations.	Creating (BTL 6)	1, 4,5,6,7, 9, 10
CLO 7	Differentiates among making offers in formal, semi-formal, informal situations.	Analysing (BTL4)	1, 4,5,6,7, 9, 10
CLO 8	Prepares themselves in tasks for assessment.	Creating (BTL 6)	1, 4,5,6,7, 9, 10

Course XXIII: Subject Knowledge Competency (SKC)

B.Ed.: Sem. IV

Course Code: BSKC

Credit: 1

Course Learning Outcomes:

The prospective teacher

1. Prepares to appear for Teacher Eligibility Test (TET).
2. Extends the comprehensive knowledge of Tamil at secondary level.
3. Acquires the knowledge of English at secondary level.
4. Acquires the knowledge of Mathematics at secondary level.
5. Acquires the knowledge of Science at secondary level.
6. Acquires the knowledge of Social Science at secondary level.

Unit I: Tamil (L.2, P.3)

Syllabus prescribed for Standard VI, VII, VIII, IX and X by Government of Tamil Nadu (From time to time) in Tamil Subject

Unit II: English (L.2, P.3)

Syllabus prescribed for Standard VI, VII, VIII, IX and X by Government of Tamil Nadu (From time to time) in English Subject

Unit III: Child Development and Pedagogy (Relevant to Age Group 11 – 14) (L.2, P.3)

Nature of Educational Psychology - Human Growth and Development - Cognitive Development - Social, Emotional and Moral Development - Learning - Intelligence and Creativity - Motivation and Group Dynamics - Personality and Assessment - Mental Health and Hygiene - Guidance and Counselling

Unit IV: Mathematics & Science (L.2, P.3)

Syllabus prescribed for Standard VI, VII, VIII, IX and X by Government of Tamil Nadu (From time to time) in Mathematics Subject

Syllabus prescribed for Standard VI, VII, VIII, IX and X by Government of Tamil Nadu (From time to time) in Science Subject

Unit V: Social Science (L.2, P.3)

Syllabus prescribed for Standard VI, VII, VIII, IX and X by Government of Tamil Nadu (From time to time) in Social Science Subject

References

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Evaluation

Evaluation would be of a comprehensive and continuous nature. Its purpose would be to improve the performance of student teacher and improve teaching competencies and performance skills. It should be formative and summative in nature. The art of self-evaluation and evaluation by peer groups will have to be learnt by prospective teachers who will have to be convinced about the advantages of the continuous evaluation.

For each course of all the programmes, there are both Continuous Internal Assessment (CIA) during the semester by the course teachers and an External at the end of the semester by an outside examiner. The Internal and External ratio will be 30:70. There is no passing minimum for CIA. The students will be declared to have passed a course if he/she secures 45% in the external and 50% in the aggregate.

Internal Evaluation

This is done by the course teachers and this will have two components.

- | | |
|---|------------|
| 1. Internal Tests-2 | : 15 Marks |
| 2. Other modes (15 Marks) | |
| (1) Assignments (Compulsory) | : 5 Marks |
| (2) Other modes of internal assessments | : 10 Marks |

List of other modes of internal assessments

(For Practicum - Refer the Syllabus in the College Website)

1. Quiz announced / unannounced
2. Individual viva / group viva
3. Short duration objective type test / snap tests.
4. Short answer / Problem Solving (15 to 30 Minutes for periodical assessment of cognitive ability)
5. Long answer / Essay (30 to 60 Minutes for periodical assessment of higher order cognitive ability)
6. Guided individual / Group Projects.
7. Lab / Field / Practical work / Case Study (to assess practical skills in handling instruments, experiments, reporting, etc.)
8. Group discussion (Once a month to assess his originality, creativity, initiative, communication skills, etc.)
9. Preparing computer animated package and CAI package to assess the ICT skills in teaching

External Evaluation

External examination will be of three hours each for all the core and pedagogy courses and one and half hours for elective courses. The practical commission will be held for two days in the third semester for B.Ed. programme. In general, all theory courses question papers for the semester examination will be set by external examiners.

Internal and Semester Question Paper Designs

Each course question paper will be designed for 1½ hours for Internal and 3 hours for Semester with the number of questions and allotments of Marks as described below.

Internal Question Paper Design for Core and Pedagogy Courses

B.Ed.			
Time: 1½ Hours		Max: 30 Marks	
Part	Type of Questions	Marks	Total Marks
A	Objective Type - 4 Questions	01	04
B	Very Short Answer Type (30 words each) – 3 Questions	02	06
C	Short Answer Type (200 words each) – 2 Questions	05	10
D	Long Answer Type (800 words each) – 1 Question	10	10
Total Marks			30

Semester Question Paper Design for Core and Pedagogy Courses

B.Ed.			
Time: 3 Hours		Max: 70 Marks	
Part	Type of Questions	Marks	Total Marks
A	Objective Type – 5 Questions (Compulsory)	01	05
B	Very Short Answer Type (30 words each) – 5 Questions (Compulsory)	02	10
C	Short Answer Type (200 words each) – 5 Questions out of 7	05	25
D	Long Answer Type (800 words each) – 3 Questions with Internal Choice	10	30
Total Marks			70

Internal - Model Question Papers

ST. XAVIER'S COLLEGE OF EDUCATION (AUTONOMOUS)

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

PALAYAMKOTTAI - 627 002.

Register. No.

Course Code

BCEP1

B.Ed. DEGREE EXAMINATION

FIRST SEMESTER - FIRST INTERNAL TEST

COURSE -II (CORE COURSE)-EDUCATIONAL PSYCHOLOGY - I

Time: 1½ hours

Maximum: 30 marks

Part – A (4 x 1 = 4)

Choose the best answer.

1. Cephalocaudal Principle is related to _____ (CLO 2)
 - a. The development from the head to toe
 - b. The Development from the trunk to limb
 - c. The Development from head to limb
 - d. The Development from the limb to toe
2. The oldest method of studying the behaviour of an individual in Psychology is _____ (CLO 1)
 - a. Case Study
 - b. Experiment
 - c. Observation
 - d. Introspection
1. The in-depth study about an individual is called _____ (CLO 1)
 - a. Psychology
 - b. Experiment
 - c. Case Study
 - d. Introspection
3. According to Psychologists, the Early Childhood age is called _____ (CLO 2)
 - a. Troublesome age
 - b. Pre-school age
 - c. Pre-gang age
 - d. Questioning age

Part – B (3 x 2 = 6)

Answer ALL the following questions in about 30 words each.

4. What is Educational Psychology?(CLO 1)
5. Define: Maturation (CLO 2)
6. List out the Branches of Psychology.(CLO1)

Part – C (2 x 5 = 10)

Answer ALL the following questions in about 200 words each.

7. Explain the Case Study Method in Psychology with an example. (CLO 1)
8. Differentiate Growth, Development and Maturation. (CLO2)

Part – D (1 x 10 = 10)

Answer the following question in about 800 words.

9. Discuss the physical, emotional, cognitive, moral and social development during infancy. (CLO 3)



ST. XAVIER'S COLLEGE OF EDUCATION (AUTONOMOUS)

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PALAYAMKOTTAI - 627 002.

Register. No.

Course Code

BCEP1

B.Ed. DEGREE EXAMINATION

FIRST SEMESTER - SECOND INTERNAL TEST

COURSE -II (CORE COURSE)-EDUCATIONAL PSYCHOLOGY - I

Time: 1½ hours

Maximum: 30 marks

Part – A (4 x 1 = 4)

Choose the best answer.

1. Generally children is egocentric in the stage of (CLO 5)
 - a. Sensorimotor period
 - b. Formal operational period
 - c. Pre-operational period
 - d. Concrete operational period
2. Insight in other words can be understood as (CLO 7)
 - a. Sudden awakening of thought
 - b. Delayed awakening of thought
 - c. Forceful awakening of thought
 - d. Planned behaviour change
3. In Pavlovian experiments the NS is always (CLO 7)
 - a. Food
 - b. Saliva
 - c. Bell
 - d. Light
4. Step-wise thinking with a purpose or goal in mind is (CLO 5)
 - a. Creative thinking
 - b. Divergent Thinking
 - c. Attention
 - d. Reasoning

Part – B (3 x 2 = 6)

Answer ALL the following questions in about 30 words each.

5. What do you mean by Hallucination? (CLO 5)
6. Mention the steps involved in problem solving method. (CLO 5)
7. Draw the positive accelerated learning curve and explain. (CLO 7)

Part – C (2 x 5 = 10)

Answer ALL the following questions in about 200 words each.

8. Explain the factors affecting Attention. (CLO 5)
9. Describe the different types of transfer of learning with suitable examples. (CLO 8)

Part – D (1 x 10 = 10)

Answer the following question in about 800 words.

10. Explain in detail Erickson's Social Development Theory. (CLO 4)



External – Model Question Paper
ST. XAVIER'S COLLEGE OF EDUCATION (AUTONOMOUS)
[Re-accredited (4th cycle) at 'A+' Grade by NAAC]
PALAYAMKOTTAI - 627 002.

Register. No.

Course Code

BCEP1

B.Ed. PROGRAMME
FIRST SEMESTER EXAMINATION
COURSE – II (CORE) - EDUCATIONAL PSYCHOLOGY - I

Time: 3 hours

Maximum: 70 marks

Part – A (10 x 1 = 10)

Choose the best answer.

1. The word 'Psychology' was derived from Language (CLO 1)
a. Greek b. Latin c. Italian d. None of the above
2. The Father of Experimental Psychology is (CLO 1)
a. G. Jung b. Wilhelm Wundt c. Freud d. Piaget
3. The child starts to speak during (CLO 2)
a. Infancy b. Later childhood c. Early Childhood d. Child hood
4. Among the following, is not a characteristic of an early childhood.(CLO 2)
a. Pre-gang age b. Imitation age c. Questioning age d. Play age
5. Among the following is the predominant strategy to develop creative thinking among students. (CLO 5)
a. Seminar b. Debate c. Group discussion d. Lecture

Part – B (5 x 2 = 10)

Answer ALL the following questions in about 30 words each.

6. Define: Educational psychology. (CLO 1)
7. What are the characteristics of adolescence? (CLO 2)
8. Write any four factors responsible for attention.(CLO 5)
9. What do you mean by Social maturity? (CLO 6)
10. Draw a learning curve.(CLO 7)

Part – C (5 x 5 = 25)

Answer any five of the following questions in about 200 words each.

11. Differentiate introspection from observation method.(CLO 1)
12. Briefly explain the concept of perceptual errors.(CLO5)

13. Bring out the features of concept formation.(CLO 5)
14. Highlight the role of a teacher in problem solving.(CLO 5)
15. Write a short note on emotional intelligence.(CLO 6)
16. Explain the Developmental task during adolescence.(CLO 2)
17. Explain the characteristics of individual differences among learners. (CLO 3)
18. Discuss the importance of motivation in the teaching–learning process. (CLO 4)

Part – D (3 x 10 = 30)

Answer the following question in about 800 words.

19. a. What is psychology? Elucidate different branches of Psychology.(CLO 1)
(Or)
b. Discuss the dimensions of development.(CLO 3)
20. a. Explain Piaget’s theory of cognitive development and list out its educational implications.
(Or)
b. Describe the types of transfer of learning? List out its educational implications.
(CLO 8)
21. a. Discuss on Erikson’s stages of psycho-social development. (CLO 6)
(Or)
b. Explain the classical conditioning theory. List out its educational implications.
(CLO 7)

CLASSIFICATION OF CANDIDATES

The Candidates shall be classified separately for theory and practical as per the table given below.

GRADING OF THE PROGRAMME (B.Ed.)

MARKS	GRADE POINT (GP)	CGPA	LETTER GRADE	CLASSIFICATION OF FINAL RESULT
100	10	9.51 AND ABOVE	O	FIRST CLASS WITH DISTINCTION
95-99	9.9			
90-94	9.4	9.01-9.50		
85-89	8.9	8.51-9.00		
80-84	8.4	8.01-8.50		
75-79	7.9	7.51-8.00		
70-74	7.4	7.01-7.50	A++	FIRST CLASS
65-69	6.9	6.51-7.00	A+	
60-64	6.4	6.01-6.50	A	
55-59	5.9	5.51-6.00	B+	SECOND CLASS
50-54	5.4	5.01-5.50	B	
BELOW 50	0	BELOW – 5.0	RA	REAPPEAR