Course Code: BED2CC03 Core Course

B.Ed. Degree Programme Semester- II PSYCHOLOGICAL PERSPECTIVES IN LEARNING

(4 Credits -120 Hours)

COURSE OBJECTIVES:

On successful completion of the course, the student teacher will be able to

- 1. understand the concept, nature and principles of learning
- 2. apply the implications of theories in the classroom content
- 3. understand the concept of learning and cognition
- 4. apply the concept of memory, forgetting and motivation in the classroom
- 5. understand group dynamics and guidance of diverse learners.

Unit- I: UNDERSTANDING LEARNING

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
meaning, concept anddefinitions oflearning. 2. Identifies the factors affecting learning of the learner.	 1.1 Learning:definitionsa nd characteristics. 1.2 Factors affecting learning and principles of learning 1.3 Learning curves, types and plateaus in learning 1.4 Transfer of learning: types and implications. 	 Lecture/briefing Groupdiscussion Assignment Seminar Autoinstruction QAsession Peerlearning 	 Test (oral/written) Assignment evaluation Seminar presentation Observation of classroom behaviour

Unit- II: THEORIES OF LEARNING

	earning utcome	Content		Suggested trategies and Approaches		Assessment
1. Ana	lyses 2.1	Behaviourist theories:	•	Lecture	•	Test
vario	ous	Thorndike, Pavlov,		through		(written/ oral)
beha	viourists,	Skinner,		visualpresen	•	Assignment
cogn	nitive, 2.2	Cognitive learning		tation		evaluation
cons	structive,	theories: Bruner and	•	Group	•	Report of
socia	al and	Kohler		discussion		discussion
hum	anistic 2.3	Constructivist theories:	•	Assignment	•	Observation
learr	ning theories	Piaget and Vygotsky	•	Seminar		of classroom
2. Con	npares and 2.4	Social learning	•	Talk		behaviour
cont	rast with in	theory:Bandura		byexperts		
vario	ous theories 2.5	Humanistictheories:	•	Auto		
of le	earning	Carl Rogers and		instruction		
3. Iden	tifies the	Maslow	•	Panel		
impo	ortance of 2.6	6. Gagne's hierarchy		discussion		
learr	ning theories	of learning				
in cl	assroom					

Unit- III: LEARNING AND COGNITION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Differentiates,	3.1 Sensation	 Lecture 	• Test
sensation	andperception	through	(written/oral)
andperception	3.2 Attention: meaning,	visual	 Assignment
2. Explains attention	types, factors and span	presentation	evaluation
and its types	of attention	• Group	 Report of
3. Evaluates	3.3 Thinking, Reasoning and	discussion	discussion
thinking,	Problem solving.	 Assignment 	 Observation
reasoning and	3.4 Meta-cognition: meaning	 Seminar 	of classroom
problem solving.	and strategies to improve	 QAssion 	
4. Defines concept	meta-cognition	 Talk by experts 	
formation and	3.5 Concept formation,		
concept mapping.	conceptmapping		

Unit- IV: MEMORY, FORGETTING AND MOTIVATION

Learning Outcome		Content		Suggested Strategies and Approaches	Assessment
1. Explains the	4.1	Memory: definitions,	•	Lecture	• Test
meaning, types,		types and strategies	•	Group	(written/oral)
strategies to		to improvememory		discussion	 Assignment
improve memory	4.2	Forgetting:	•	Assignment	evaluation
of learner		definition, causes, and	•	Seminar	 Report of
2. Analyses the		theories of forgetting,		through	discussion
causes of	4.3	Curve of forgetting,		visual	
forgetting		educational		presentation	
3. Apply the various		implications	•	Debate	
motivation	4.4	Motivation –,	•	QAsession)
techniques in the		definitions, types and	•	Peerlearning	
classroom		classroom motivation			
		techniques.			
	4.5	Achievement			
		motivation meaning			
		and developing			
		achievement			
		motivation.			

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Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Explains	5.1 Groupdynamics:	• Lecture	• Test
groupdynamics	Typesofgroups and	• Group	(written/oral)
inthe classroom	group relationship in	discussion	 Assignment
2. Analyses the	theclass	 Assignment 	evaluation
guidance of	5.2 Guidance for	 Seminar 	 Report of
diverse learners	5.3.1 learning disabled	 Autoinstruction 	discussion
	5.3.2 gifted learners	 Peerlearning 	• Seminar
	5.3.3.ADHD learners		presentation
	5.3.4 slow learners		
	5.3.5 delinquent		
	learners		

SUGGESTED ACTIVITIES (Any two)

- 1. Visit any two schools and observe five classes on different learning process.
- 2. Prepare an album of any 10 psychologists and their contributions to learning process.
- 3. Visit any two special education institutions and write a report on the methods of teaching.
- 4. Write an assignment on meta cognitive strategies to enhance academic achievement.

PRESCRIBED READINGS

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- 3. Aggarwal.J.C (2005). *Child development and process of learning*. New Delhi:Shipra Publications.
- 4. Anupriya Chadha.(2004). Causes and characteristics of children with learning difficulties. *Chandigarh Unistar Book*.
- 5. Bhatia H.R. (2005). *A text book of educational psychology*. New Delhi: Macmillan India Ltd.
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- 9. Biranchi Narayan Dash, Kunjalatha Dash(2009). *Essentials of educational psychology*. Hyderabad: Neelkamal Publications.
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- Sachedeva. M.S(2001). A new approach to teaching learning process.
 Ludhiana: Bharat Book Centre.
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- 1. Anastasi, Anne (1989). *Psychology testing. New York:* Macmillan PublishingCompany.
- 2. Ausubel David. P & Floyd.G.Robinson (1985). *Educational psychology*, Holt Rinehart and Winston Inc.
- 3. Benjafield. J.G. (1992). Cognition, Prentice Hall, EnglewoodCliffs.
- 4. Kauffman, et al. (1993). *Exceptional children. USA*: Allyn & Bacon: Boston.
- 5. Gardner, Howard (1989). Frames of mind. The theory of multipleintelligences. New York: Basic Books.

Course Code: BED2PC07 Pedagogic Course

B.Ed. Degree Programme Semester-II DEVELOPMENT OF BIOLOGICAL SCIENCE EDUCATION

(4 Credits - 120 Hours)

COURSE OBJECTIVES:

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

- 1. familiarize the history and development of Biological scienceeducation.
- 2. appreciate the contributions of biologists in human progress.
- 3. have an insight of the inter and intra disciplinary nature of Biologicalscience.
- 4. Acquaint with the emerging trends and principles of curriculum construction
- 5. develop skills in organizing various co-curricular activities in Biologicalscience.
- 6. appreciate various resources for teaching Biological science.

Unit-I: DEVELOPMENT OF BIOLOGICAL SCIENCE AND CONTRIBUTIONS OF BIOLOGISTS

	Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
2.	Familiarizes the development of Biological science Identifies various commissions and their recommendations in science education Develops appreciation of the contributions of biologists	 1.1 History and development of Biological science 1.2 Development of science Education in India 1.3 Recommendations of different education commissions 1.3.1. Kothari Commission (1964) 1.3.2. Ishwarbhai Patel Committee(1977) 1.3.3.National policy on Education- NPE (1986), 1.3.4. National Curriculum framework- NCF (2005). 1.3.5. National Knowledge commission-NKC (2007) 1.4 Contributions ofeminent biologists 1.4.1 Louis Pasteur 1.4.2 Robert Koch 1.4.3 Gregor Mendel 1.4.4 Ian Wilmut 1.4.5 M.S. Swaminathan 	 Discussion Digitalpresen tation Peerlearning Seminar Debate Talk by experts 	 Test (oral/written) Assignments Report writing Seminar presentation Quiz Information sheet
		1.4.6 HargobindKhurana		

Unit- II: INTER AND INTRA DISCIPLINARY NATURE OF BIOLOGICAL SCIENCE

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Explains the	2.1 Correlation among different	• Group	• Test
correlation of	branches of Biological	discussion	(oral/written)
Biology with	science	 Assignment 	 Report writing
other disciplines.	2.1.1 Correlation with	 Peerlearning 	• Seminar
2. Explains the	other disciplines	• Debate	• Quiz
correlation with	a) Language,		 Preparation of
lifesituation	b) Physics,		experience
	c) Chemistry,		paper
	d) Mathematics,		
	e) Social		
	Sciences		
	f) Arts		
	2.1.2 Correlation with life		
	Situations.		

Unit- III: CURRICULUMIN BIOLOGY

Learning	Content	Suggested	Assessment
Outcome		Strategies and	
		Approaches	
1. Analyses the	3.1 Curriculum – Meaning,	 Briefing 	• Tests
principles of	Componentsofcurriculum	/Lecture	(written/oral)
curriculum	3.2 Principles of curriculum	 Discussion 	 Observation
construction	construction	 Interactive 	• Report
2. Differentiates	3.3 Approaches to curriculum	learning	writing
between various	development Topical,	Seminar	• Seminar
approaches of	Logical, Concentric, Spiral,	 Group activity 	presentation
curriculum	Unitary approach.	• Digital	
development	3.4 Curricularreforms	presentation	
3. Familiarizes	3.4.1 Biological Science		
various	curriculum study		
curricularreforms			

Unit-IV: CO-CURRICULAR ACTIVITIES IN BIOLOGICAL SCIENCE

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Identifies the	4.1 Co-curricularactivities-	• Lecture	• Test (oral/
importance of co-	need andimportance	 Organizing 	written)
curricularactivities	4.2 Science club-organisation	science	 Participation
2. Developsaplanto	and activities	exhibition	in co-
organizevarious	4.3 Science	• Seminar	curricular
co-curricular	Exhibitionand	Organization	activities
activities	ScienceFair	of seminars/	 Reportwriting
	4.4 Field Trips	workshopsrel	Seminar
	4.5 Sciencegarden	ated to	presentation
	4.6 Naturecalendar	thesubject	
	4.7 ScienceMuseum		

Unit-V: RESOURCES FOR TEACHING BIOLOGICAL SCIENCE

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Identifies various supporting materials useful for learning Biological Science	 5.1 Print resources- textbooks-qualities of a biology text book, workbook, journals, newspapers, science encyclopedias 5.2 Visual resources- charts, flash cards, models, poster Photographs. 5.3 ICT resources- Smart phone, Internet, Interactive white board 5.4 Community resources—Zoological gardens, Botanical gardens, Aquarium 5.5 Laboratory and its organization 5.5.1.Laboratory plan 5.5.2. Laboratory registers and Lab rules 5.5.3 Accidents and first aid 	• Auto instruction	 Observation Questioning Tests (written/oral) Reports Tests Preparation of visual resources

SUGGESTED ACTIVITIES (Any two):

- 1. Prepare a digital album on the life and contributions of abiologist.
- 2. Organize a Field Study and prepare areport.
- 3. Collect and preservespecimens.
- 4. Select a unit and prepare visual resources for teaching Biological science.

PRESCRIBED READINGS

- 1. Ameeta. P (2010), *Techniques of teaching Biological Science*, New Delhi, Neel Kamal Publications Pvt.Ltd.
- 2. Anju, Soni (2005) *Teaching of Biological Science Ludhiana*, Tandon Publications.

- 3. Das R.C. (1992) Teaching of Science Amritsar. M/SKrishnaBros.
- 4. Jasim Ahmad (2011) *Teaching of Biological Science*, New Delhi: PHILearning.
- 5. Mangal S.K (2005), *Teaching of Biology Meerut*: Chandigrah Loyalk Publications.
- 6. Sharma .R.C (1984) *Modern Science teaching*. Meerut: Dhanpatrai and sons.
- 7. Sivarajan.A.,& Faziluddin. A.(2005). *Science Education* Calicut: Calicut University Central Co-operative storesLtd.
- 8. Sood.J.K. (1985), *Teaching Life Science*. Kohli publications, Delhi.
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- 1. Ameeta .P. (2012) *Methods of Teaching Biological Science*, New Delhi: Neelkamal Publications Pvt. Ltd.
- 2. Buffaloe, Neal, Thornberry J.B. (1972) *Principles of Biology*, Universitypress, New Delhi: Prentice Hall of IndiaLtd.
- 3. Bhatnagar, A.B.& Bhatnagar S.S. (2010). *Teaching of Science*, Meerut: R. Lall Book Depot.
- 4. Joseph .T.T (2004). *Modern Trends in Science Education*, Kottayam: Ashoka offsetPress.
- 5. S.P.Kulshreshtha (2010). *Teaching of Science*, Meerut: R.Lall Book Depot.
- 6. Mathew.T.K&Mollykutty.T.M (2011). *Science Education: Theoretical bases ofteaching and pedagogic analysis.* Chenganoor: Rainbow Book Publishers.
- 7. Saunders.H.N (1967). The Teaching of General Science in Tropical Secondary School, London: Oxford University Press.

Course Code: BED2PC08 Pedagogic Course

B.Ed.Degree Programme Semester - II

DEVELOPMENT OF ENGLISH EDUCATION

(4 Credits -120 Hours)

EX COURSE OBJECTIVES

On successful completion of the course, the student teachers will be able to

- 1. analyse the role of English language in the Indiancontext
- 2. recognize the importance of linguistic characteristics of Englishlanguage
- 3. develop language skills -Listening ,Speaking ,Reading and Writing
- 4. develops knowledge to teach vocabulary and grammar

Unit- I: ROLE OF ENGLISH IN THE INDIAN CONTEXT

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Analyses the sound system of English language. Applies correct sounds in every day use. 	 1.1 Phonology – Organs of speech- Classification and descriptions of consonants, Vowels and Diphthongs 1.2 Wordaccent–Stressand rhythm in English – intonation – Practice in phonetic transcription – Received Pronunciation 	 Lecture- Discussion Smallgroup discussion Brainstorming 	 Class test (oral/ written) QASession Assignment Group work

Unit- II: LINGUISTIC BEHAVIOUR AND SYSTEM

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Identifies the importance of linguistic behavior of Englishlanguage Analyses the linguistic system of English language 	 2.1 Linguistic Behaviour-language as a rule governed behavior and linguistic variability-linguistic diversity. 2.2 Linguistic system - Morphemes, Allomorph, Syntax and Semantics, 	 Lecture/ discussion Experttalks LanguageLab Video/Audio presentation 	 QASession Class Test (oral/written) Seminar Assignment

Unit-III: DEVELOPING LANGUAGE SKILLS (LISTENING SPEAKING, READING AND WRITING

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Develops knowledge to teach the language Skills of listening and speaking.	3.1 Language skills – Listening, speaking, reading, writing (LSRW) 3.2 Listening: Concept, types, SignificanceandActiviti esto develop Listening and its evaluation 3.3 Speaking: Concept, Significance and activities todevelopspeakingandits evaluation 3.4 Materialsandresourcesfo r developing listening and speakingskills: storytelling, dialogues, situational conversations, phone calls, interviews, role plays, simulations, speech, games and contexts, language laboratories, pictures, authentic materials and multi-mediaresources.	 Group Discussion Brainstorming Seminars Assignments PeerLearning Digital Presentation 	 Participation in brain storming / Relevance of ideas Observation Seminar Presentation QASession Evaluation of Assignments

Unit- IV: DEVELOPING LANGUAGE SKILLS (READING AND WRITING)

Learning	Content	Suggested Strategies and	Assessment
Outcome			
1. Critically evaluate the methods of teaching the skills reading and writing. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	4.1 Reading: Concept, Methods (Phonic, Whole Word), 4.1.1 Types (Loud, Silent, Intensive, Extensive) 4.2 Techniques to increase speed of Reading (Phrasing, Skimming, Scanning, Columnar Reading, Key wordReading). 4.2.1 Sub – skills of reading; strategies for developing reading skills 4.3 Writing—Stages of writing; 4.3.1 Process of writing; Formal and Informal, short story, letter, memo, diary, notices, articles, reports, dialogue speech, advertisement. 4.4 Composition -Types of Composition(Guided, Free and Creative) 4.5 Evaluating Compositions 4.6 Letter Writing (Formal, Informal) 4.7 Study Skills (Note Taking and Making) 4.8 Reference Skills (Dictionary,	Approaches Group Discussion Brain storming Seminars Assignments PeerLearning Digital Presentation	Participation in brain storming / Relevance of ideas Observation Seminar Presentation QASession Evaluation of Assignments

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Develops Knowledge to teach vocabulary and grammar.	 5.1. Creating a need to communicate: guessing games; information gap exercises, exchanging personal information. 5.2 Showing the meaning of words – giving examples – using a new word in questions active and passive vocabulary. 	AssignmentsGroup workPeer teachingSeminar	 Q.A. sessions Discussion Vocabulary check

Unit -V: COMMUNICATIVE ACTIVITIES & VOCABULARY

SUGGESTED ACTIVITIES (Any Two):

- 1. Identify the challenges of teaching and learning English in Tamil Nadu and present a report.
- 2. List Language (English) related pronunciation errors common among students in your Practice teaching school and suggest correctivemeasures.
- 3. Prepare instructional strategies for enhancing language skills-Listening, Speaking, Reading and Writing (one for each skill).
- 4. Prepare a vowel and consonant chart.

□PRESCRIBEDREADINGS

- 1. Adams.M.J. (1990): *Thinking and Learning about Print*. Cambridge, Ma: MITPress.
- 2. Alexander.L.G. (1975). A first book in comprehension, précis and composition. Longman: Hongkong.
- 3. Amritavatli. R. (1999): Language as a Dynamic Text: Essays on Language, Cognition and Communication. CIEFL Akshara series. Hyderabad: Alllied Publishers
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- 8. Cameron, Lynne (2001). *Teaching language to my young learners*. Cambridge University Press: Cambridge.
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USUGGESTED READINGS

- 1. Davis, Paul & Mario Rinvolucri. (1988): Dictation: New Methods, New Possibilities. Cambridge Handbook for Language Teachers.
- 2. Halbe, Malati, (2005): *Methodology of English Teaching*, Himalaya Publish House.
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- 4. Johnson. K (1983): Communicative Syllabus Design and Methodology, Oxford, Pergamon Press.
- 5. Khan, Nasiruddin. (2005): *Introduction of English as a subject at the primary level*. Ms., NFG-English.
- 6. Kohali.A.L. (2016). Techniques of Teaching English in the New Millennium.

Course Code: BED2PC09

Pedagogic Course

B.Ed.Degree Programme Semester - II DEVELOPMENT OF HISTORY EDUCATION

(4 Credits – 120 Hours)

COURSE OBJECTIVES:

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

- 1. acquire knowledge about various theories that influence Historyteaching
- 2. appreciate the contributions of eminent historians to the development of history
- 3. understand the interdisciplinary nature of History with other social sciences.
- 4. familiarize emerging trends and principles of curriculum construction of History in high school classes.
- 5. develop skill in organizing co-curricular activities for promoting historical learning.
- 6. develop interest in utilizing the various instructional resources in learning History.

Unit-I: THEORIES INFLUENCING SELECTION OF HISTORY MATERIALS AND CONTRIBUTIONS OF HISTORIANS

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Recognizes the various theories that influence History teaching List out and internalizes the contributions of eminen this torians to the development of History 	1.1 Doctrine of natural tastes and interest 1.2 Cultural EpochTheory 1.3 Proceeding from near to remote 1.4 Contribution of Historians Greek Historians: Herodotus, Thucydides, Polybius, Plutarch Roman Historians: Cato, Cicero, Livy, Tacitus Renaissance Historians Machivelli, Erasmus, Thomas Moore, Francis- Backon. Enlightened Historians- Montesque, Voltaire, Edward Gibbon, Thomas Carlyle. Indian Historians: Kalhane, AhulFazl, Vincent Smith, K.P. Jayaswal, J.N.Sarkar, R.C. Majundar, K. M. Panikkar, Satyanathalyer, Neelakanda Sastri.	 Briefing Preparation of report on Biographies Discussion Autolearning 	 Tests (Oral/Written) QASession Evaluation of Report

Unit- II: INTERDISCIPLINARY NATURE OF HISTORY

Learning	Content	Suggested	Assessment
Outcome		Strategies and	
		Approaches	
1. Discusses the	2.1 Relationship between	 Seminar 	 QASession
relationship	History and other Social	 Discussion 	• Tests (Oral/
between History	Sciences –Geography,	• Lecture	Written)
and other Social	Economics, Politics,	 Brain storming 	 Assessing
Sciences.	Sociology, Psychology.		Seminar
	2.2 Geographical		papers
	foundations of History.		
	2.3 Dimensions of History -		
	Time, Place, Continuity		
	and Development		

Unit- III: CURRICULUM CONSTRUCTION IN HISTORY AT SCHOOL LEVEL

Learning	Content	Suggested	Assessment
Outcome		Strategies and Approaches	
 Acquaints with emerging trends and principles in the construction and organization of History curriculum. Identifies evaluation criteria for history curriculum. 	3.1 Curriculum: Meaning and Concept 3.2 Difference between curriculum and syllabus. 3.3 Principles and approaches of curriculum construction: (i) Concentric (ii) Spiral (iii) Progressive (iv) Regressive (v) Chronological and (vi) Genealogical 3.4 Evaluation of Curriculum in History	LectureDiscussionSeminarAuto Instruction	 Test (Oral/Written) QASession Seminar presentation

Unit- IV: CO-CURRICULAR ACTIVITIES IN HISTORY

Learning Outcome	Content		Suggested Strategies and Approaches	Assessment
1.Plans various programmes to organize co-curricular activities for promoting historical learning	4.1 Need and importance of co-curricular activities in teaching History - Advantages 4.1.1 Criteria for co-curricular activities 4.2 History Museum 4.3 Exhibitions 4.4 Excursions and fieldtrips 4.5 Fieldvisits 4.6 Club Activities	•	Lecture Discussion Autolearning Visual presentation	 Tests (Oral/Written) Participation in co-curricular activities QASession

Unit-V:INSTRUCTIONAL RESOURCES IN TEACHINGHISTORY

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Conscientizes the inevitable role of various instructional resources ineffective instructional practices. 2. Locates and lists out the important community	5.1. Instructional Resources— need for instructional resources in learning. Types: 5.1.1 Text books 5.1.2 Workbook 5.1.3 Supplementary reading 5.1.4 Globe, Maps and Atlas: Types and uses. 5.2. Historical Resources:	 Approaches Lecture Discussion Interactive session Autolearning Preparation of list of resources 	 Evaluating assignment Test (Oral/Written) QA session Evaluation of report writing
resources in teaching history.	Palace, Museum, Forts, archives. 5.3. Community Resources importance and methods of utilizing community resources in teaching History.		

SUGESTED ACTIVITIES (Any Two):

- 1. Prepare biographies of famousHistorians.
- 2. Visit the identified historically important places and prepare a report.
- 3. Prepare an album by collecting different types of maps.
- 4. Prepare a report on various resources available for teaching /learning History

☐ PRESCRIBED READINGS

- 1. Bhata. R.L.(2004). *Contemporary teaching of History*.(2nd Ed.).New Delhi: Surject publications.
- 2. Kocchar, S. K. (1995). *Methods and techniques of teaching*. New Delhi: Sterlingpublishers.
- 3. Kocchar. S.K. (1995). *Methods and techniques of teaching*. New Delhi: Sterling publishers.
- 4. Roblyer. M.D. (2008). *Integrating educational technology into teaching*. New Delhi:Pearson.
- 5. Sagar, Krishna.(2005). ICT Teacher training. New Delhi: Globalnetwork.
- 6. Singh., & Gopal (2004). *Teaching strategies*. New Delhi: APH Publishing Corporation.
- 7. Sivarajan.K,Thulasideeran.,& Vijayan.N.K. (2007). *Social science education: Methods and techniques of teaching*. Calicut: Calicut university co-operativestore.
- 8. *Teachers hand book in social science for standard eighth, ninth and tenth.* NCERT Textbooks.

□ SUGGESTED READINGS

- 1. Ehman.,& Patrick. (19740. *Towardseffective instruction in social studies*. Ludhiana: Kalyan publishers.
- 2. Kocchar. S. K. (1995). *Methods and techniques of teaching*. New Delhi: Sterlingpublishers.
- 3. Roblyer.M.D. (2008). *Integrating educational technology into teaching*. New Delhi:Pearson.
- 4. Sagar, Krishna. (2005). ICT Teacher training. New Delhi: Global network.
- 5. Singh.,&Gopal.(2004). *Teaching strategies*. New Delhi: APH Publishingcorporation.
- 6. Sivarajan.K., Thulasideeran., & Vijayan. N.K. (2007). *Social science education: Methods and techniques of teaching*. Calicut: Calicut university co-operativestore.
- 7. *Teachers hand book in social science for standard eighth, ninth and tenth.* NCERT Text books.

Course Code: BED2PC10 Pedagogic Course

B.Ed. Degree Programme Semester - II DEVELOPMENT OF MATHEMATICS EDUCATION

(4 Credits – 120 Hours)

EXCOURSE OBJECTIVES:

On successful completion of the course, the Student teacher will be able to

- 1. familiarize the history of development of Mathematics and the contributions of various Mathematicians
- 2. have an insight of the intra and interdisciplinary of Mathematics
- 3. acquaint with emerging trends and principles of curriculum construction inMathematics
- 4. develop skill in organising co-curricular activities in Mathematics
- 5. appreciate various resources for teaching Mathematics.

Unit-I: DEVELOPMENT OF MATHEMATICS AND CONTRIBUTIONS OF MATHEMATICIANS

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Familiarizes the history of development of mathematics Recognises the contribution of various mathematicians 	 1.1 Brief history of the development of 1.2 An examination of the contribution of India to the development of mathematical concept of Vedic mathematics. 1.3 Contributions of great Mathematicians 1.3.1 Phytagoras 1.3.2 Rene Descartes 1.3.3 Aryabhatta 1.3.4 Brahmagupta 1.3.5 Bhaskaracharya 1.3.6 Srinivasa Ramanujan 1.3.7 Euclid 1.3.8 Euler 	 Lecture Electronic visual presentation Seminar Discussion 	 Tests (oral/written) Reports Seminar presentation

Unit-II: INTER AND INTRA DISCIPLINARY NATURE OF MATHEMATICS

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Recognizes the relationship of mathematics with other subjects Familiarizes about correlating mathematics in real life situations 	 2.1 Correlation among different branches of mathematics 2.2 Correlation of mathematics with other disciplines – Physics, Chemistry, Biology, Social Science, Language, Arts 2.3 Correlation of mathematics with life situations 	 Briefing Seminar Assignment Group Discussion Debate 	 Tests (oral/written) Reports Seminar presentation Evaluation of assignment

Unit- III: CURRICULUM DEVELOPMENT IN MATHEMATICS

]	Learning		Content	Suggested	Assessment
	Outcome			Strategies and	
				Approaches	
curred devine Ma 2. Idea new curred org 3. And orn curred with program device d	athematics ntifies the w trends in riculum astruction d ganization alysestheref asin riculum quaints the the ojects for welopment curriculum	3.1 3.2 3.3 3.4 3.5	Curriculum development in Mathematics— Need and importance Principles of curriculum development in Mathematics Approaches tocurriculum development: logical and psychological, topicaland spiral Types of curriculum: Activity based, child centered, Community based, hidden curriculum Reforms in Curriculum 3.5.1. Rationaleand principles of curricular reforms 3.5.2 National and state level reforms Study of certain important projects for the development of Curriculum— SMSG, SMP, NCERT Curriculum	 Lecture Electronic visual presentation Seminar Discussion 	• Test (oral/ written) • Seminar presentation • Reports

Unit-IV: CO-CURRICULAR ACTIVITIES IN MATHEMATICS

	Learning Outcome	Content	St	Suggested crategies and Approaches	Assessment
1.	Develops the	4.1 Mathematics club -	•	Lecture	• Participant
	ability to	Importance, organization and	•	Seminar	observation
	organize	functioning	•	Discussions	• Reports
	co-curricular	4.2 Exhibition and fair			
	activities	4.3 Recreational			
	relevant to	4.3.1 Riddles			
		4.3.2 Puzzles			
	curriculum	4.3.3 Paradoxes			
2.	Analyses the	4.3.4 Magic			
	importance of	squares			
	•	4.3.5 Beautiful			
	aesthetic and	number			
	recreational	pattern			

Unit- V: RESOURCES FOR TEACHING MATHEMATICS

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Acquaints with the various supporting system/material useful for learning Mathematics Develops skill in preparing various instructional materials for effectiveness of instruction 	5.1 Print resources 5.1.1 Textbooks 5.1.2 Workbooks 5.1.3 Handbooks 5.1.4 Journals 5.1.5 Magazines 5.1.6 Newspapers 5.2 Visualresources 5.2.1 Pictures 5.2.2 Charts 5.2.3 Flashcards 5.2.4 Models 5.3 Electronic resources 5.3.1 Computer 5.3.2 InteractiveWhiteb oard 5.3.3 Smartphone	 Lecture Digital presentation Seminar Discussion Debates Auto instruction 	 Test (oral/written) Questioning Reports

SUGGESTED ACTIVITIES (Any two)

- 1. Prepare a report on history of development of mathematics
- 2. Collect the biography of any one mathematician
- 3. Prepare a report on curriculum development in Mathematics
- 4. Prepare a report on correlation of mathematics in real life situations

PRESCRIBED READING

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- 2. James, Anice. (2005). *Teaching of Mathematics*. New Delhi: Neelkamal Publications.
- 3. James, Anice. (2006). *Techniques of teaching of Mathematics*. New Delhi: Neelkamal Publications.

- 4. Kumar, S.,&Ratnalikar, D.N. (2003). *Teaching of Mathematics*. New Delhi: Anmol Publishing House.
- 5. Kulshreshtha, A.K. (2008). *Teaching of Mathematics*. Meerut: R.Lall Books Depot.
- 6. Shakuntala, D. (1999). More puzzles. New Delhi: Orient Paperbacks.
- 7. Sidhu. K.S. (2000). *Teaching of Mathematics*. New Delhi: SterlingPublications.

□SUGGESTED READING

- 1. Bruner, J.S. (1971). *Towards a study of instruction*. Cambridge: Harward University press.
- 2. Gagne, R.M (1967). *Learning and individual differences*. Ohio: Charles E.Merril Books.
- 3. Kapoor, S.K. (2006). *The teaching of vedic mathematics*. New Delhi: Lotus Press.
- 4. Reymond, B. (2000). *Math tricks, puzzles and games*. New Delhi: Orient Paperbacks.
- 5. Siddiqui.M.H. (2007). *TeachingofMathematics*. New Delhi: APH PublishingHouse.

Course Code: BED2PC11 Pedagogic Course

B.Ed. Degree Programme Semester-II DEVELOPMENT OF PHYSICAL SCIENCE EDUCATION

(4 Credits - 120 Hours)

COURSEOBJECTIVES:

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

- 1. acquire knowledge about the development of Physical Science Education.
- 2. develop understanding about the inter and intra disciplinary nature of physical science.
- 3. acquire knowledge about the meaning, principle and various curricular improvement project.
- 4. develop skills in organizing various co-curricular activities in physical science.
- 5. appreciate the contributions of scientists in human progress and use of various resources in teaching physical science

Unit- I: DEVELOPMENT OF SCIENCE AND CONTRIBUTIONS OF SCIENTISTS

	Learning Outcome	Content	Suggested Assessment Strategies and
			Approaches
1.	Discusses the	1.1 Evolution of Science as	Discussion Test
	evolution of	a discipline	• Digital (oral/written)
	science	1.2 Development of science	presentation • Assignments
2.	Lists out the	Education in India	Peer learning Report
	various	1.3 Recommendations of	Seminar writing
	commissions	various education	• Debate • Quiz
	and their	commissions and	• Talk by experts • Information
	recommendati	committees with regards to	• Debates sheet
	ons in science	science education	Digital
	education	1.3.1 Ishwarbhai Patel	presentation
3.	Reads books	Committee(1977),	
	related to the	1.3.2 Kothari Commission	
	contribution	1.3.3 NPE(1986),	
	of eminent	1.3.4 National Council for	
	scientist	Education Research	
		and Training	
		(NCERT).	
		1.4 Contribution of Eminent	
		Scientists - Indian and	
		Abroad-	
		1.4.1 Einstein	
		1.4.2 Sir Issac Newton	
		1.4.3 Mandeleev	
		1.4.4 C.V.Raman	
		1.4.5 HomiJehangirBhabha	ı
		1.4.6 A.P.J.Abdulkalam	

Unit- II: INTER AND INTRA DISCIPLINARY NATURE OF PHYSICAL SCIENCE

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Outlines the correlation of science with other discipline Explains the correlation with life situation Suggests remedies to solve problems in everyday life 	2.1 Correlation among different branches of Physical science. 2.1.1 Correlation of Science with one another. 2.1.2 Correlation with other disciplines: i) Language, ii) Mathematics, iii) History, iv) Geography, v) Craft, vi) Fine Arts 2.1.3 Correlation with life Situations. 2.1.4 Advantage of Correlation	 Group discussion Preparation of Assignment Peer learning Debate 	 Test (oral/written) Report writing Seminar Quiz

Unit-III: CURRICULUM DEVELOPMENT IN PHYSICAL SCIENCE

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Recognizes the meaning and importance of curriculum Identifies the various curricular improvement project 	3.1 Curriculum Meaning and scope, Principles of Curriculum Construction, Approaches to curriculum construction 3.2 Curricular improvement project in India 3.2.1 Role of NCERT 3.3 Curricular improvement project abroad 1.3.1 PSSC 1.3.2 CHEM Study 1.3.3 CBA	LectureDiscussionTeam teaching	 Test (oral and written) Assignment Seminar presentation

Unit- IV: CO-CURRICULAR ACTIVITIES IN PHYSICAL SCIENCE

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Identifies the importance of cocurricular activities Develops a plan to organize various co-curricular activities 	 4.1 Co-curricular activities 4.1.1 Definition 4.1.2 Need and relevance 4.1.3 Advantages of co-curricular activities 4.2 Criteria for selection of co-curricular activities 4.3 Science club 4.4 Science Exhibition and Fairs 4.5 Field visit and study 	activityOrganization of	 Test (oral/written) Participation in co- curricular activities Report writing Seminar presentation

Unit- V: RESOURCES FOR TEACHING PHYSICAL SCIENCE

	Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
2.	Explains the various resources available for teaching physical science. Locates the nearby resources Apply the relevant resources for teaching	 5.1 Visual Resources Pictures, Flashcards, Charts, Posters, Photographs, Models. 5.2 ICT Resources Television, Internet, Multimedia, Interactive whiteboard. 5.3 Community Resources 5.3.1 Science centers 5.3.2 Science exhibition/fair 5.4 Laboratory Resources 5.4.1 Need and importance 5.4.2 Structure and Design 5.4.3 Maintenance of various registers 5.4.4 Accident and first aids 	Lecture Discussion Seminar Digital Presentation Peer learning	Material development Test (oral/ written) Report writin g

SUGGESTED ACTIVITIES (Any two):

- 1. Prepare a digital album on the life and contributions of a scientist.
- 2. Organize a Field Study and prepare a report.
- 3. Visit a science exhibition in your locale and prepare a report.
- 4. Prepare a list of instructional resources for teaching Physical Science.

PRESCRIBED READINGS

- 1. Sivarajan.K.,& Faziluddin.A.(2006). *Science Education*, Calicut University, Central Co.
- 2. Radha, Mohan. (2010). Teaching of physical science. New Delhi: Neelkamal Publishers
- 3. Sharma.R.C.(2006). *Modern Science Teaching*. New Delhi: Dhanpat Rai Publications
- 4. Gupta.S.K.(1985). *Teaching of Physical Science in Secondary Schools*. Sterling Publication Pvt. Limited.
- 5. Vanaja.M.(2010). Educational technology. New Delhi: Neelkamal Publishers.

□SUGGESTED READINGS

- 1. Mishra.R.C.(2008). *Lesson Planning:* NewDelhi: APH Publishing Corporation.
- 2. Panner, Selvam. A. (1976). *Teaching of Physical Science*. Government of Tamil Nadu.
- 3. Das.R.C.(1985). Science teaching in schools. NewDelhi: Sterling Publishers.
- 4. Joseph.T.T(1982).*Modern trends in science education*. (2nded.).Kottayam, Kerala.
- 5. Mathew.T.K.,&Mollykutty.T.M.(2011). *Science education: Theoretical bases of teaching and pedagogic analysis.* Chenganoor:Rainbow Book Publishers.
- 6. Bhatia.K.K. (2001). Foundations of teaching learning process. Ludhiana: Tandon Publication.
- 7. Mangal.S.K.,& Uma Mangal. (2009): *Essentials of Educational Technology:* New Delhi: PHI Learning Pvt. Ltd.

Course Code: BED2EC01 Elective Course

B.Ed. Degree Programme Semester-II EARLY CHILDHOOD CARE AND EDUCATION

(4 Credits – 120 Hours)

COURSE OBJECTIVES:

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

- 1. develop understanding of the nature, scope and significance of early childhoodeducation.
- 2. Identify the contribution of select educational thinkers in the area of 'Early ChildhoodEducation'.
- 3. Understand the different aspects of development during early childhoodperiod.
- 4. develop skill in applying the different techniques of teaching pre-school children.
- 5. Acquire skill in assessing children's development and learning

Unit- I: INTRODUCTION TO EARLY CHILDHOOD CARE AND EDUCATION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Familiarizes the nature, scope and significance of Early Childhood Education. Acquaints with the development of Early Childhood Education in India Familiarises the policies in ECCE in India 	initiatives in India		 Assignment evaluation Test (Written/Oral) Participation in group discussion

Unit- II: CONTRIBUTIONS OF EDUCATIONAL THINKERS TO EARLY CHILDHOOD CARE AND EDUCATION

	Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1.	Develops an insight into the contribution of various educational thinkers to the cause of Early Childhood Education	2.1 Contributions of western thinkers — Rousseau, Froebel, McMillan sisters, Montessori, Piaget, Vygotsky 2.2. Indian thinkers —, Gijubhai Badeka, Mahatma Gandhi, Tarabai Modak, and Jiddu Krishnamurty	 Introductory lecture Group discussion Assignment Brainstorming Seminarand discussion 	 Assignment evaluation Test (Written/ Oral) Participation in group discussion

Unit- 1II: DEVELOPMENT DURING EARLY CHILDHOOD

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Realizes the different aspects of child development Examines the role of pre-school in promoting harmonious development of children. 	 3.1. Development duringearly childhoodperiod - Physical, motor, cognitive, social, emotional, language andmoral development. 3.2. Factorsinfluencing early childhood development. 3.3. Role of early childhood centres in promoting harmonious development of Children. 	LectureSeminarsInteractive sessionDiscussionAssignment	 Preparation of learning materials Assignment evaluation Test (Written/Oral)

Unit- IV: ORGANIZING ECCE PROGRAMME

Learning Outcome	Content	Suggested Strategies and	Assessment
		Approaches	
1.Develops insight	4.1. Design of an ECCE	 Lecture 	 Reportwriting
in Planning	centre-Building plan,	 Fieldvisit 	 Assessing
programs for	different areas in an	 Development 	weekly / daily
children	ECCE centre, Safety	of weekly	schedule
	precautions.	/daily	 Assignment
		schedules	evaluation
	4.2 Planning programs for	 Seminarand 	• Test
	Children – principles	discussions	(Written/Oral)
	and factors of	 Discussion 	 Assessing
	program planning.	 Visual 	tools
	(yearly, monthly,	presentations	
	weekly and daily.)	 Peerlearning 	

Unit- V: PEDAGOGIC APPROACHES TO ECCE PROGRAMME

	arning itcome	Content	Suggested Strategies and Approaches	Assessment
acq diff tecl tead 2. Imb inas	quaint with the ferent chniques of aching children bibesskill assessing c- school ldren	 5.1 Strategies for involvement of children in learning activities- Sensorytraining, Rhymes, Storytelling, Dramatization, Puppetry, Nature walk and play way method 5.2 Evaluation of children's development and learning - Principles of assessment and reporting 5.3 Informal assessment Strategies - observation, portfolio, checklist, activity sample & report card. 5.4.Role of caregiver/ ECCE Teacherpartnership with parents and family 	 Lecture Fieldvisit Observation of Programs Seminar and discussions Roleplay Discussion Demonstration Visual presentations Peerlearning 	 Assignment evaluation Test (Written/Oral) Assessing tools

- 1. Prepare materials and activities for any two aspects of development.
 - 1.1 Motor development (gross motor skills and finemotor skills)
 - 1.2 Cognitive development
 - 1.3 Language development
 - 1.4 Social development

- 2. Prepare a report on daily routine of an Early childhood Education Centre.
- 3. Prepare booklets-stories (5), Rhymes (5) with illustrations.
- 4. Prepare source file on different types of creative activities for children.

PRESCRIBED READINGS

- 1. Aggarwal.J.C., .&Gupta.S. (2007). Early Childhood Care and Education-Principles and Practices. New Delhi:Shirpa Publications.
- 2. Devadhas, P.Rajammal. (1984). *AText Book on Child Development*. New Delhi: MC Millan India Ltd.
- 3. Hurlock, Elizabeth.B. (2001). *Child Growth and Development*. NewDelhi:Tata McGraw Hill publishing company.
- 4. Kaul, Vinetha. (2001). Early Childhood Education Programme. New Delhi: National Council of Educational Research and Training.
- Kaul.V., &Sankar.D.(2009). Early Childhood Care and Education in India: Mid-Decade Assessment, NUEPA.
- 6. Kon, Ruth.(1972). The Exploring child. Mumbai:Orient LongmanLtd.
- 7. Mohanthy, Jaganath., & Bhagyadhar, Mohanthy. (2000). *Early Childhood Care and Education*. New Delhi:Deep and Deep Publication.
- 8. Montessori.M.(1962).*The Discovery of the Child.* Chennai: Kalakshetra Publications
- 9. National Curriculum Framework. (2005). *Early childhood care and Education*. NewDelhi: NCERT.
- 10. Pankajam. G. (1994). *Pre.-school education Philosphy and Practice*. Ambalka: The Indian publication.
- 11. Santrock.J.W. (2010). *Child Development: AnIntroduction*.New Delhi: McGraw-Hill Publication Company.
- 12. Swaminathan, Mina .(1995). *Playing to Learn, a Training Manual for Early Childhood Education*. M.S.Swaminathan Research Foundation.
- 13. Swaminathan, Mina., & Daniel, Prema.(2005). *Play Activities for Child Development*, New Delhi: National Book Trust.

- 1. Austin, Gilbert.R.(1976). *Early childhood education: An international perspective*. New York: Academic Press.
- Banta.T.(1966). Are theses really a Montessori method, Columbus, Ohio: OhioPsychological Association and Ohio Psychiatric Association. David.T. (1989). Teaching Young Children. New Delhi:Sage.
- 3. Essa.E.(1990). *Introduction to early childhood education*. New York: Delimar.
- 4. Kaul.V. ,& Bhatnagar.R.(n.d). *Early Childhood Education:* A Trainers' Handbook. New Delhi:NCERT.
- 5. Kaul. V.et al. (2004). *Reaching out to the Child*. NewDelhi: Oxford University Press.
- Kaul.V.,&Sankar.D (2009). Early Childhood Care and Education in India: Mid-Decade Assessment: NUEPA.
- 7. Nisha.M.(2006). *Milestones of child development*. Delhi:Kalpazz Publication.
- 8. Shanmugavelayudham.K., & Bhuvaneswari. (2003). *The 'must' for Nursery Education*.TN- FORCES.
- 9. Soni. R.(2014). Every Child Matters. NewDelhi: NCERT.
- 10. Swaminathan.M.(1998). *The First Five Years: Acritical perspective on Early Childhood Care and Education in India.* New Delhi: Sagepublications.
- 11. Swaminathan. M., &Daniel. P.(2000). *Activity-Based Developmentally Appropriate Curriculum for Young Children*. Chennai: IAPE.
- 12. Vergas-Baron.E.(2005). *Planning Policies for Early Childhood Development:* Guidelines for Action. Paris: UNESCO.

Course Code: BED2EC02 Elective Course

B.Ed. Degree Programme Semester-II EDUCATION OF ADOLESCENTS

(4Credits -120 Hours)

COURSE OBJECTIVES:

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

- 1. develop an understanding of the needs and concerns of adolescents
- 2. develop understanding about the content and scope of Adolescence Education Programme.
- 2. Acquaint with the pedagogical approaches of adolescence education programme
- 3. analyze the life skill Education for adolescents, approaches, strategies and modus operandi
- 4. develop knowledge and sensitivity on matters related to reproductive health, sex and sexuality

Unit- I: CONCERNS AND CHALLENGES DURING ADOLESCENCE

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Familarises with the development during adolescence Identifies the needs and concerns of adolescents Familarises with the theories of Adolescence 	1.1 Development during Adolescence 1.1.1. Physical, cognitive, social and emotional development 1.1.2. Needs, concerns and realities of adolescents in India. 1.1.3. Psycho- physiological problems - Depression, Anxiety, Suicide 1.2. Theories of Adolescence: Erick Erikson, Jean Piaget and Lev Vygotsky	 Lecture /briefing Group discussion Assignment Brainstorming Case study Seminar and discussion 	 Oral questions Assignment evaluation Case study report Test (written/oral) Observation of class room behaviour Student's reflective reporting Observation of students/ classes

Unit-II: ADOLESCENCE EDUCATION PROGRAMME

Learning	Content	Suggested	Assessment
Outcome		Strategies and	
		Approaches	
1. Familiarizes the	2.1.Adolescence Education	• Lecture /briefing	 Oral questions
concept of	Program(AEP)	 Group 	 Assignment
adolescence	2.1.1.Objectives,	discussion	evaluation
education and its	Content and Scope	Assignment	 Case study
objectives,	2.2.2.Role of Social	 Brainstorming 	report
guiding	Agencies in	 Case study 	 Test (written/
principles and	Adolescence	 Seminar and 	oral)
scope	Education-	discussion	 Observation
2. Analyzes the	School, Family,	 Role play 	of class room
Adolescence	Media,		behaviour
Education	Community		 Student's
Program,	2.2.3 Capacity building		reflective
approaches,	for prospective		reporting
strategies and	teachers in		
implementation	adolescence		
	education		

Unit-III: PEDAGOGICAL APPROACHES TO ADOLESCENCE EDUCATION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Familiarises the pedagogical approaches to adolescence education Equips with different innovative strategies for adolescence education 	Pedagogical Approaches to Adolescence Education -Case studies and Critical Incidents, Brainstorming, Role-playing, Buzz groups, Gaming, Value clarifications, Question Box, Discussions and Debates, Puppet shows, Video shows. situation analysis	 Lecture /briefing QA session Student observation and reporting Assignment Seminar Peer learning Group discussion Role play 	Test (written/oral) Assignment evaluation

Unit- IV: LIFE SKILLS EDUCATION FOR ADOLESENTS

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Familiarisesthe concept of life skills education Equips with different innovative strategies for life skills education to adolescents Examines the role of life skills education in adolescent behaviour 	Debate, case study,	 Lecture /briefing QA session Assignment Seminar Peer learning Group discussion Role play 	•Test (written/oral) •Assignment evaluation

Unit- V: REPRODUCTIVE HEALTH AND FAMILY LIFE EDUCATION

Learning Outcome	Content	Suggested Strategies and	Assessment
1. Identifies the basic elements of reproductive health during adolescence 2. Internalizes the need for sexual and health education of adolescents 3. Realizes the need for strengthening healthy family relationship	3.1 Sexual and reproductive health of adolescents 3.2. Sexual health education – need and importance, objectives, role and responsibility of family and school. 3.2.1. STD's and HIV/AIDS-Causes, preventive measures 3.3. Gender-Based issues 3.4. Family life education-Meaning and concept, objectives 3.4.1.Role of home and school in family life education 3.4.2.Maintaining family relationships	• Lecture /briefing • Group discussion • Extension and field outreach • Assignment • Seminar • Debate • Peer learning	 Class test Assignment evaluation Observation of classes Field level observation and reporting

- 1. Detailed study of adolescent problems and issues in the school selected for practice teaching.
- 2. Organization of adolescence education session in the school selected for practice teaching.
- 3. Study and report adolescents in drug rehabilitation centers.
- 4. A detailed case study on child abuse victims

□PRESCRIBED READINGS

- 1. Arora, Pankaj . (2008). *Sex Education in Schools*. New Delhi: Ocean Books Pvt Ltd.
- 2. CBSE. (1999). *Population and Adolescent Education*—ATraining Package. NewDelhi.
- 3. Choudhary. G. B. (2014). *Adolescence Education*. New Delhi: PHI Learning Pvt. Limited.
- 4. Department of Education & State AIDS Control Scociety .(2005). YUVA School Adolescence Education Programme— Handbook for Teachers. NewDelhi.
- 5. Harrison, Jennifer. K., (2000). *Sex Education in secondary Schools. Buckingham* Philadephia: Open University Press.
- 6. MHRD (2004). *Life Skills Modules, Adolescence Education Programme*. New Delhi: MHRD, NACO &UNICEF.
- 7. NCERT (2005). Adolescence Education in Schools Life skills Development General Framework; National Population Education Project. New Delhi: Department of Education in Social Science and Humanities.
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- 3. UNESCO (2001). Life skills on Adolescence Education Reproductive Health. Bank ok: UNESCO Principal Regional Office for Asia and the Pacific.
- 4. MHRD, NACO and UNICEF (2005). *Growing up in a World with HIV/AIDS*, FAQ Booklets for students, Adolescence Education Programme.
- 5. NCERT &NACO (1994). *AIDS Education in School: A Training Package*. New Delhi: NCRT.
- 6. NCERT.(2005). Adolescence Education in Schools Life skills Development General Framework. New Delhi: Department of Education in Social Science and Humanities.

Course Code: BED2EC03 Elective Course

B .Ed. Degree Programme Semester-II ENVIRONMENTAL EDUCATION

(4 Credits-120 Hours)

COURSE OBJECTIVES:

On successful completion of the course, the prospective teachers will be able to:

- 1. acquaint with the concept, need, principles and scope of environmental education.
- 2. analyse the various issues related to natural resources.
- 3. appraise the policies and legislations towards environmental management.
- 4. develop a positive attitude towards environmental conservation.
- 5. appreciate the importance of environmental education in school curriculum.
- 6. imbibe necessary skills to participate actively in community oriented environmental activities.

Unit- I: FUNDAMENTALS OF ENVIRONMENTAL EDUCATION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Explains the concept of environmental education Identifies the principles and Scope of Environmental education Recognises the approaches of teaching Environmental Education 	 1.1 Environmental Education: Historical background, Concept, Meaning and Definition 1.2 Need, Objectives, Principles and Scope 1.3 Approachesof teaching Environmental Education (Multidisciplinary and Interdisciplinary). 	 Small group discussion Digital presentation Meaningful verbal discourse Peer learning Self study Reflective practices 	 Assignment Document analysis Report QA session Observation Test

Unit-II:NATURAL RESOURCES AND ASSOCIATED PROBLEMS

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Appreciates the various natural resources Analyses the problems associated with natural resources Recognises the role of an individual in conservation of natural resources. 	2.1 Natural resources – definition, meaning, importance and types (Forest, Land, Water Mineral, Food and Energy resources) 2.2 Problems associated with different types of natural resources and their prevention 2.3 Role of an individual in conservation of natural resources.	 Narrative expression sessions Role Play/Skit Field visit Multimedia approach. Cooperative learning Invited talk 	 Participation in group activity Report Quiz. Document Test

Unit-III: POLLUTION AND MANAGEMENT INITIATIVES

	Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 3. 4. 	Recognises the different types of pollution Predicts the control measures for pollution Explains environmental management and its need Outlines the initiatives for environmental management	 3.1 Pollution: Definition, types (Air, Water, Soil, Noise, Thermal, nuclear and light pollution) 3.2 Effects and control measures of each types. 3.3 Management of environment: Definition and need 3.4 Initiatives: Environmental legislation, Environmental Impact Assessment, Environmental movements in India, pollution control board and Green Tribunals 	 Lecture cum discussion Blog Searching Peer instruction Digital Presentation Seminar Small group discussion Brain storming 	 Blog Posts Class test Document analysis Seminar presentations Test

Unit-IV: SUSTAINABLE DEVELOPMENT AND PRACTICES

	Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
2. 4	Explains the concept of Sustainable Development, Need and Principles. Appraises sustainable environmental practices	 4.1 Sustainable Development: Meaning, Need, Guiding Principles. 4.2 Sustainable Environmental Practices: Rain water Harvesting, Mangroves Management, Solid Waste Management 	 Lecture/briefing Field visit Multimedia approach. Cooperative learning Assignment Peer learning 	 Report Quiz. Document QA session Observation Assignment evaluation

Unit-V: ENVIRONMENTAL EDUCATION IN SCHOOL CURRICULUM

	Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 2. 	Infers Environmental Education at different levels of school Education Assessess the innovative	5.1 Environmental Education at different levels of school Education 5.2 Innovative methods of teaching Environmental	 Lecture cum discussion Brain storming Blog Searching 	 Blog Posts Class test Document analysis Participant observation Posters
3.	methods of teaching EE at schools Appreciates the	Education 5.3 Role of school in environmental conservation	Peer instructionPoster Presentation	Seminar presentations
4.	role of school in environmental conservation Recognises the	5.4 Role of NCERT,teachers and media in promoting Environmental	Assignment SeminarAuto instruction	
7.	role of NCERT, teachers and media inpromoting Environmental Education	Education 5.5 Role of information technology in environmental and human health.	• Invited lectures	
5.	Examines the role of information technology in environmental and human health.	5.6 Evaluation in Environmental Education-Meaning, aims,different types of tests for assessment		
6.	Prepares evaluation strategies for Environmental Education			

- 1. Prepare a scrap book on issues related to the environment
- 2. Visit a place of severe environmental pollution in your locality, analyse the causes of pollution and suggest control measures.
- 3. Conduct a Life Cycle Assessment of any item/commodity of daily use and prepare a report.
- 4. Prepare a time-line chart on environmental policies and programmes in India

□PRESCRIBED READINGS

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Course Code:BED2EC04

Elective Course

B.Ed. Degree Programme Semester–II HEALTH AND PHYSICAL EDUCATION

(4 Credits - 120 Hours)

COURSE OBJECTIVES:

On successful completion of the course, the student teacher will be able to

- 1. acquaint with the meaning, aims and objectives of Physical Education
- 2. acquire knowledge of health and safety education
- 3. develop understanding about the healthy food for healthy life

Unit- I:INTRODUCTION TO PHYSICAL EDUCATION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Identifies the meaning, aim and objectives of physical education. Identifies the physical fitness components and the modes of developing them 	Physical Education 1.1 Meaning ,Definition 1.2 Aim and Objectives 1.3 Need and importance 1.4 Methods of teaching physical activites 1.5 Intramural and Extramural Competitions—Meaning ,Definition. 1.6 Knock-out and League tournament 1.7 Method of drawing fixtures-Merits and Demerits. Physical Fitness 1.8 Definition, Components and Health related Physical fitness 1.9 Activities for development of physical fitness 1.10Components and benefits of Physical fitness	 Briefing/Lecture Visual Presentation Lecture Group Discussions/ activities Demonstration and practice 	• Test (Oral/ written) • Projects, • Assignments

Unit- II: HEALTH EDUCATION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Identifies the fundamentals of health education Values the importance of health education 	Health education 2.1. Meaning, Definition, Importance and scope of health education 2.2. Aims and objectives of health education 2.3. Methods of imparting Health Education in School –Health instruction –Health Service –Health Supervision 2.3 Factors affecting health 2.4 Effects of exercise on muscular ,circulatory, Digestive and Nervous systems. 2.5 Hygiene – Health hazards 2.6 Personal and Community hygiene.	 Briefing/Lecture Demonstration and practice Presentations in small groups Debate and Discussion Survey related to safety education in a near by town/village Theoretical presentation 	 Test (Oral / written) Health practices of students Participant observation Reports Visit to primary health centre and reporting

Unit- III: POSTURE, SAFETY EDUCATION AND FIRST-AID

	Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
impos 2. Ider impos 3. According	lues the portance of sture entifies the portance of fety education quaints with e significance first—aid	Posture 3.1 Meaning, and Importance of posture 3.2. Types of posture 3.3 Kyphosis, Lordosis, Scoliosis, Knock- Knee and Flat-Foot. 3.4 Causes and Prevention Safety Education 3.5 Significance and meaning 3.6 Importance of safety education 3.7 Road Safety, School, College, Classroom and Play ground First – aid 3.8 Meaning, Definition Principles, Need and importance of first-aid 3.9 First-aid in different cases 3.10 Management of fracture, Dislocation, Wounds, Sprain, Strain, Cramp, Fainting, Burns, etc.	 Briefing/Lecture Demonstration and practice Presentations in small groups Debate and Discussion Survey related to safety education in a near by town/village Theoretical presentation 	 Test (Oral / written) Health practices of students Participant observation Reports Visit to primary health centre and reporting

Unit- IV: FOOD AND NUTRITION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Values the importance of food Familiarizes food and nutrition 	Food and Nutrition 4.1 Understanding Nutrition 4.2 Micro and Macro Nutrients 4.3 Carbohydrates, Protein,Fat, Vitamins (Fat soluble and water soluble), Minerals, Water & Fiber 4.4 Balanced diet 4.5 Vitamin deficiency diseases 4.6 Malnutrition. 4.7 Guidelines for food Selection 4.8 Diet for Obesity and underweight	 Narrative expressions Survey Debate QA session Experts Talk Demonstration Digital Presentations Group activity Verbal presentation Preparation of database 	 Test (Oral/Written) reports Quiz Group presentation Discussions Tests Awareness campaign.

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Identifies	Communicable	• Debate	• Test (Oral/
communicable	diseases	 QA session 	Written) reports
diseases and	5.1 Common communicable	 Experts Talk 	• Quiz
their Prevention	diseases	 Demonstration 	• Group
2. Recognizes	5.2 Definition and Meaning	 Digital 	presentation
various	5.3 Types : Malaria,	Presentations	 Discussions
Lifestyle	Typhoid, Tuberculosis,	 Group activity 	• Tests
diseases and	Cholera, Diarrhea and	 Verbal 	 Awareness
their prevention	HIV Aids	presentation	campaign.
	5.4 Symptoms ,causes and prevention	 Preparation of database 	
	Lifestyle Disorder		
	5.5 Diseases –Lifestyle		
	diseases and their		
	Management (Obesity,		
	Hypertension, Diabetes		

Unit- V: COMMUNICABLE DISEASE AND LIFESTYLE DISORDER

- 1. Visit and prepare a report on physical education facilities available in the schools in your locality
- 2. Conduct a health survey in a village(locality)
- 3. Prepare an album for ant one communicable diseases

Heart Attack and Ulcer)

4. Prepare a report on first aid

PRESCRIBED READINGS

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Course Code: BED2EC05 Elective Course

B.Ed. Degree Programme Semester-II

LIBRARY AND INFORMATION SCIENCE IN EDUCATION

(4 Credits-120 Hours)

COURSE OBJECTIVES:

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

- 1. familiarise emerging concepts and trends of libraries ineducation.
- 2. internalise the role and responsibilities of academic libraries in sharing information sources.
- 3. analyse the different types of information services
- 4. acquire the skills related to information literacy and retrievaltechniques.
- 5. understand the importance of resource sharing and library networks

Unit- I: EMERGING CONCEPT OF LIBRARIES IN EDUCATION

Learning	Content	Suggested	Assessment
Outcome		Strategies and	
		Approaches	
1. Analyses the	1.1 Library–meaning,	 Lecture 	 Assignment
development of	definition	 Assignment 	evaluation
library from	1.2 Transformation of	 Group 	• Test
ancient days to	manuscript to digital	Discussion	(written/oral)
contemporary era	and virtual libraries	 QA Session 	 Seminar
2. Impart the	1.3 Types of Library		presentation
knowledge about	1.3.1. Public Library		
the types of	1.3.2. Academic		
libraries	Library		
	1.3.3. Special Library		
	1.3.4. Digital Library		
	1.3.5. Virtual library		

Unit- II: INFORMATION SOURCES

	Learning	Content	Suggested	Assessment
	Outcome		Strategies and Approaches	
1.	Familiarises	2.1 Information Sources—	Lecture	 Assignment
	with	definition	 Group discussion 	evaluation
	academic	2.2 Types of Information	 Assignment 	• Test
	libraries	Sources	 QA session 	(written/oral)
	Information	2.2.1Documentary	 College Library 	 Seminar
	Sources and	Sources	Visit and	presentations
	their types	2.2.1.1 Primary	Classification of	
2.	Identifies	Sources	Sources	
	e- resources	2.2.1.2 Secondary		
	and their	Sources		
	effectiveness	2.2.1.3 Tertiary		
		Sources		
		2.2.2. Non		
		Documentary		
		Sources		
		2.3 Electronic/Web		
		Learning Resources		
		2.3.1 E-journals		
		2.3.2 E-books		
		2.3.3 Scopus, web		
		of science and		
		Eric databases		

Unit- III: INFORMATION SERVICES

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
Familirises the various types of information services	3.1 Types of Information services 3.1.1 Current Awareness Service 3.1.2 Selective Dissemination of Information 3.1.3 Reprographic Service 3.1.4. Translation Service 3.1.5. Indexing and Abstracting Service	 Lecture QA session Digital and visual presentation Group Discussion 	 Quiz Test(Written /Oral) Assignment Evaluation

Unit- IV: INFORMATION LITERACY AND RETRIEVAL TECHNIQUES

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Familiarises the role of user education and information literacy Acquires Information Communication Technology skills on information retrieval Acquires with the knowledge of writing American Psychological Association Style Manual 	 4.1 User Education and Information Literacy 4.2 Role of Information Communication Technology in modern libraries 4.3. Search engine and its types 4.3.1. Boolean operators and its role in information retrieval. 4.4. Information Retrieval Techniques 4.5 Bibliographydefinition 4.6 Writing American Psychological Association Style Manual 	 Lecture Assignment Digital and visual presentation Group discussion College e-library visit: demonstration/practical 	 Assignment evaluation Test (written/ oral) Seminar presentations

	Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1.	Defines the definition, need	5.1. Resource Sharing-definition, need and	LectureGroup	• Assignment evaluation
	and objectives	objectives	discussion	• Test
	of resource	5.2 Role of Internet in	 College e- 	(written/Oral)
	sharing	information transfer	library visit:	 QA session
2.	Realizes the	5.3. Types of Library	demonstration	 Seminar
	importance of	Networks in India	/practical	presentation
	internet in	5.3.1 Inflibnet-N-		
	information	list		
	transfer	5.3.2. ERNET		
3.	Explains the	5.3.3. DELNET		
	various types of	5.3.4. CALIBNET		
	library networks	5.3.5. MALIBNET		
	in India			

Unit- V: RESOURCE SHARING AND LIBRARY NETWORKING

- 1. Prepare an abstract for an article relevant to your area of specialization.
- 2. Prepare bibliography for American Psychological Association style manual.
- 3. Documentation and compilation of website addresses relevant to the area of teacher education.
- 4. Write a review on any five books you read

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