Course Code:BED4CC006

Core Course

# B.Ed. Degree Programme Semester- IV CURRICULUM AND LEARNING DOMAINS

(4 Credits-120 Hours)

#### *⊯* COURSE LEARNING OUTCOMES:

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

- 1. Identify the need and principles of curriculum
- 2. Differentiate curriculum and syllabus
- 3. Integrate the different types of curriculum
- 4. Appraise the contributions of thinkers on knowledge and education
- 5. Accept the role of teacher in knowledge assimilation and dissemination
- 6. Generalise the significance of domains of learning in curriculum designing
- 7. Categorise the determinants of curriculum construction
- 8. Detect the incorporation of critical concerns in curriculum construction
- 9. Deduce the steps involved in curriculum development
- 10. Investigate the need for curriculum evaluation.

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Identifies the need and principles of curriculum</li> <li>Differentiates curriculum and syllabus</li> <li>Integrates the different types of curriculum</li> <li>Outlines the curriculum visualized at different levels.</li> </ol>	<ul> <li>1.1 Curriculum : meaning nature and principles</li> <li>1.2 Types of curriculum: <ol> <li>1.2.1 subjectcentred,</li> <li>1.2.2 student centred,</li> <li>1.2.3 society centred</li> <li>1.2.4 lifecentred.</li> </ol> </li> <li>1.3 Need for curriculum in schools</li> <li>1.4 Curriculum and Syllabus</li> <li>1.5 Core curriculum Vs elective curriculum Vs planned curriculum Vs</li> <li>1.7 Curriculum visualized at</li> </ul>	<ul> <li>Peer Learning</li> <li>Digital Presentation</li> <li>Seminar</li> <li>Group Discussion</li> </ul>	<ul> <li>Class Test (Written / Oral)</li> <li>Quiz</li> </ul>

#### **Unit- I: CURRICULUM AND ITS MEANING**

different levels-	
national, state, school,	
class.	

# Unit- II: CONTRIBUTIONS OF THINKERS ON KNOWLEDGE

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Lists the thinkers who have contributed to knowledge and education</li> <li>Appraises the contributions of thinkers on knowledge and education</li> </ol>	2.1.3 Faulo Phère 2.1.4 Rabindranath Tagore	<ul> <li>Lecture - Briefing</li> <li>Seminar</li> <li>Assignment</li> <li>Digital presentation</li> </ul>	<ul> <li>QA Session</li> <li>Seminar Presentation</li> </ul>

### **Unit- III: KNOWLEDGE AND DOMAINS OF LEARNING**

	Learning Outcomes	Content	Suggested Strategies and Approaches		Assessment
1.	Recalls the	3.1 Knowledge – meaning	Lecture	•	QA Session
	meaning and	and nature	<ul> <li>Briefing</li> </ul>	•	Seminar
	nature		Seminar		Presentation
	ofknowledge.		<ul> <li>Assignment</li> </ul>		
2.	Differentiates	3.2 Differentiate between			
	between	knowledge and			
	knowledge and	knowing,informationandk			
	knowing,	nowledge, belief and truth			
	information	3.3 Role of culture			
	and knowledge	3.4Sources of knowledge 3.5.			
3.	Accepts the	Knowledgetransmis			

	role of teacher	sion and
	in knowledge	construction
	assimilation	3.6. Role of teachers in
	and	Knowledge
		assimilation and
	dissemination	dissemination
4.	Generalises the	3.7. Forms of Knowledge
	significance of	and its organization in
	domains of	schools.
	learning in	3.8. Significance of
	curriculum	domains of learning
		in curriculum
	designing	designing.

#### Unit- IV: CURRICULUM: DETERMINANTS AND CONCERNS

Learning	Content	Suggested	Assessment
Outcomes		Strategies and	
		Approaches	
1.Categorises the	4.1. Determinants of	Peer Learning	• Class
determinants of	curriculum construction	<ul> <li>Digital</li> </ul>	Test(Written/
curriculum	4.1.1 Social	Presentation	Oral)
construction	4.1.2 Political	Lecture	• Quiz
2.Enumerates the	4.1.3 Geographical 4.1.4 Economic	Assignment	
issues that	4.1.5 Technological		
influence	4.1.6 Cultural		
curriculum	4.2 Critical concerns in		
construction	curriculum construction:		
3.Detects the	4.2.1 Environmental		
incorporation of critical concerns in	concerns 4.2.2 Gender issues		
curriculum	concerns		
	4.2.3 Inclusiveness		
construction	4.2.4 Value concerns and		
	issues		

Learning	LUM DEVELOPMENT Content	Suggested	Assessment
U	Content		Assessment
Outcomes			
Outcomes1. Describes the process of curriculum development2. Deduces the 	<ul> <li>5.1 Process of curriculum development</li> <li>5.1.1 Formulating aims and objectives,</li> <li>5.1.2 Criteria for selecting knowledge,</li> <li>5.1.3 Organizing and incorporating knowledge,</li> <li>attitudeand skills.</li> <li>5.1.4 Inter</li> <li>relationship of subjects.</li> <li>5.1.5Selection and Organisation of learning environments.</li> <li>5.2 Curriculum transaction</li> <li>5.2.1 Support system forcurriculum transaction (men and material)</li> <li>5.2.2 Roles and</li> <li>responsibilities of teachers in curriculum development.</li> <li>5.3 Curriculum evaluation</li> <li>Need for evaluation - Feedback from learners, teachers, community, and</li> </ul>	strategies and Approaches • Lecture - Briefing • Seminar • Peer Learning • Assignment	<ul> <li>QA Session</li> <li>Seminar Presentation</li> </ul>
	administrators .		

#### **Unit- V: CURRICULUM DEVELOPMENT**

#### SUGGESTED ACTIVITIES (any two)

- 1. Analyse a secondary school textbook for the incorporation of environmental concerns in curriculum.
- 2. Critical appraisal of the thought of a contemporary Indian thinker on knowledge and education and presentation of report.
- 3. Prepare a society-centered curriculum for the emerging Indian society.
- 4. Conduct a discussion on curriculum evaluation and prepare a report.

#### **PRESCRIBED READINGS**

- 1. Acharya.P. (1996). Indigenous Education and BrahminicalHegemony.
- 2. Chisholma, Rodrick.M. (1987). *Theory of Knowledge*. New Delhi: Prentice hall of IndiaPvt.
- 3. Mirnalini.T (2007). *Curriculum Development*. Hyderabad: Neelkamalpublicationspvt. Ltd.
- 4. Mohan.N.,& Kamala, Kannan.R. (2016). *Knowledge and Curriculum*. Dharasuram: Thiruvaluvar publications.
- 5. Sykes.M. (1987). The Story of NaiTalim. Wardha: NaiTalimSamiti.
- 6. Tagore.R. (2003). *Civilization and Progress*. In Crisis in Civilization and Other Essays.New Delhi: Rupa&co.
- 7. Vashist.S.R. (2004). *The Theory of Curriculum*. New Delhi: Anmolpublicationpvt.

#### **USUGGESTED READINGS**

- 1. The Transmission of Knowledge in South Asia: Essays on Education. Religion, History and Politics. New Delhi: Oxford University Press, 98-118.
- 2. Badheka.G. (2001). BalaShikshaaurShikshakBikaner: VaagdeviPrakashan.
- 3. Dewey.J. (1952). *The School and the Child*. New York: The Macmillan.Company. (Also available in Hindi School and Bachche Translation: RRCEE).
- 4. Palmer, Joy A. et al (2001). *Jean* –Jacques Rousseau, JohnDewey.
- 5. Rabindranath Tagore.M.K. Gandhi, Maria Montessori Fifty Major ThinkersonEducation from Confucius to Dewey. USA: Routledge.

- 6. Badheka.G. (1999). *Montessori Paddhati*. Chapter 5: Montessori Shalaka.*Vatavaran. Bikaner:* VaagdeviPrakashan.
- Dewey.J. (2009). School aurSamaj. Delhi: Aakar. Chapter 2: Schoolaur. BachchekaJeevan(also available in English Dewey (2007, 1899). The School and Society Cosimo: NewYork).
- 8. Krishnamurti.J. (2006). *Krishnamurti on Education*. Part I: Talks to Students:Chapter 1: *On Education*, Chapter 4: *On Freedom and Order, Part II: Discussion with Teachers*. Chapter 1: *On Right Education*. Chennai: Krishnamurti Foundation of India.
- 9. Rousseau, Jacques J.(1979). *Emile or on Education*, translated by Allan Bloom Basic.7-18.
- Sykes, M. (1988). *The Story of NaiTaleem*, NaiTaleemSamiti,Sevagram: Vardha. Chapter 3: *The Seed Germinates*, Chapter 4: BasicNational Education, (Also available in Hindi Naitaleem Ki KahaniTranslation:RRCEE)
- 11. Thakur, R. (2004). *RavindranathkaShikshadarshan*Chapter 1: Tote kiShiksha, Chapter AashramShiksha, New Delhi: Granthshipli. Weir (Eds.), *Curriculum, syllabus design and equity:* A primer andmodelRoutledge.
- 12. Shulman.L.S. (1986). *Those who Understand: Knowledge Growth in Teaching*.Educational Researcher, 4–14.
- 13. Sternberg, R.J. (2013). *Intelligence, Competence, and Expertise*. In A. J. Elliot & C.S.
- 14. Dweck (Eds.), *Handbook of Competence and Motivation* (pp. 15–30).GuilfordPublications.
- 15. Stiggins.R. (2005). *From Formative Assessment to Assessment for Learning:* A pathtosuccess in standards-based schools. Phi Delta Kappan, 324–328.
- 16. The PROBE Team. (1999). *Public Report on Basic Education in India*. Delhi:Oxford.
- 17. NCERT (2014). *Basics in Education-Textbook for B. Ed. Course*. New Delhi:NCERT.

Course code:BED4CC007

Core Course

#### **B.Ed. Degree Programme**

#### Semester- IV

#### GENDER JUSTICE AND INCLUSIVE EDUCATION

(4 Credits – 120 Hours)

#### **COURSE LEARNING OUTCOMES**:

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

- 1. Recognize gender related concepts
- 2. Examine the role of family, caste, class, religion, culture and media in the construction of gender role, gender identity and gender socialization
- 3. Describe the gender discriminations inSchool
- 4. Appraise the importance of gender parity in education
- 5. Explain the nature of differently abled children.
- 6. Determine the assessment strategies for the differently abled.
- 7. Plan intervention programmes for the differently abled.
- 8. Analyse the need of collaborating with various professionals and agencies for support and resources to facilitate inclusion
- 9. Develop the strategies for dealing with diversity in the classroom.

# Unit- I: GENDER: CONCEPT, ROLES IDENTITY, SOCIALIZATION ISSUES IN THE SOCIETY

Learning Outcomes	Content	Suggested Strategies and Approache s	Assessment
<ol> <li>Distinguishesbetweensexandgender</li> <li>Explains gender related concepts</li> <li>Examines the role of family, caste, class, religion, culture and media in the construction of gender role, gender identity and gender socialization</li> <li>Describes the gender issues</li> <li>Supports Combating female body</li> </ol>	<ul> <li>1.1 Concept of gender:differencebetw een gender and Sex</li> <li>1.1.1.problems of transgender.</li> <li>1.2 Gender related concepts: patriarchy, matriarchy,masculinity , equity,equality and</li> </ul>	<ul> <li>Lecture</li> <li>Discussion</li> <li>Class Seminar</li> <li>Assessment</li> <li>Panel Discussion</li> </ul>	<ul> <li>SeminarPresentati</li> <li>Report</li> <li>Test (oral / written</li> </ul>

objectification	sexuality.
	1.3 Gender role: gender
	roles in family, caste,
	class, religion, culture
	and media
	1.4 Gender identity and
	socialization
	practices: role of
	family, school, peer
	group, community
	and media
	1.5 Gender Issues:
	Gender bias, gender
	stereotyping, and
	gender inequalities.
	1.5.1.Reasonsfor
	gender
	inequalities
	1.6 Gender-based
	violence (GBV)
	Violence against
	women in Indian
	society.
	1.6.10ffencesagainst
	women and girls.
	1.7 Meaning and concept
	of body
	objectification -
	Combating female
	body objectification:
	1.8 Gender stereotypes in
	mass
	mediaobjectificationoffe
	male body-
	1.8.1.propagation of
	popular beliefs
	throughmedia.

### **Unit- II: GENDER DISCRIMINATION AND PARITY IN EDUCATION**

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Examines genderdiscrimi nationsinSchool</li> <li>Determines the plans forgender fair school environment</li> <li>Analyses theroleofschool, parents, peers, teachers, curriculum and textbooks in reinforcing gender equality .</li> <li>Appraises the gender parity programmes and schemes of Government of India</li> </ol>	rituals and school/ routines, curriculum, textbooks, discipline, parents and teachers attitude 2.2 Influence of education on	<ul> <li>Lecture</li> <li>Group <ul> <li>Discussion and</li> <li>Presentation</li> </ul> </li> <li>Document <ul> <li>analysis</li> <li>Panel Discussion</li> <li>Debates</li> <li>Seminar</li> </ul> </li> </ul>	<ul> <li>Document Analysis</li> <li>Test (oral / written)</li> <li>Report</li> <li>Seminar Presentations</li> </ul>

Learning Outcomes	Content	Suggested Strategies and Approache	Assessm ent
<ol> <li>Distinguishes psychological, socio- cultural, economic, emotional diversity andbehavioural difficulties.</li> <li>Outlines the historical perspectives of inclusiveeducation.</li> <li>Distinguishes inclusive, integrated and segregated education</li> <li>Justifiestheneed of inclusive schools</li> <li>Examines the strengthsandlimitationsofi nclusiveschools</li> </ol>	<ul> <li>1.1 Diversity: gender culture and language marginalized- economic disparities- children with social, emotional and behavioural difficulties.</li> <li>1.2 Historical perspective of inclusive education- from exclusion to inclusion.</li> <li>1.3 Concept, meaning and definition of inclusion</li> <li>1.4 DifferenceamongIn clusive, integrated and segregated education.</li> <li>1.5 Need and importance of inclusive school in view of Right toEducationin India</li> <li>1.6 Inclusive schools- strengthsand limitations</li> </ul>	ons <ul> <li>Invited lectures</li> <li>Brainstor ming</li> <li>Netsurfing</li> <li>Field visit</li> </ul>	<ul> <li>Observation</li> <li>QA session</li> <li>Class test</li> <li>Analysis of digital docume nt</li> <li>Report</li> <li>Assignm ent</li> </ul>

### Unit-III: DIVERSITY AND INCLUSION

# Unit-IV: ASSESSMENT AND INTERVENTION STRATEGIES FOR THE DIFFERENTLY ABLED

Learning	Content	Suggested	Assessment
Outcomes		strategies and	
		Approaches	
Outcomes           Outcomes           1. Appraises the inclusive learning environment           2. Explains Curriculum adaptation.           3. Analyses the need of collaborating with various professionals and agencies for support and resources to facilitate inclusion           4. Examines the strategies for dealing with diversity in the classroom.	<ul> <li>5.1 Inclusive learning Environment - characteristics.</li> <li>5.2 Curriculum adaptation:Concept, need and principles</li> <li>5.3 Concept of resource teacher parents and communities in schools.</li> <li>5.3.1 Resource Mobilization,</li> <li>5.3.2 Collaborating with other Professionals, Collaborating with other Institutions</li> <li>5.3.3 Parents and Community as Resources</li> <li>5.4 Strategies for dealing with diversity in the classroom:</li> <li>5.5 Individualized Educational Plan (IEP),</li> <li>5.5.1 Universal Design for Learning (UDL)</li> <li>5.5.2 Differentiated Instruction (DI)</li> <li>5.5.3 Collaborative teaching,</li> <li>5.6 Assistive and adaptive devices</li> </ul>	strategies and	Assessment  Report Assignments presentation Observation Class test
	devices for differently abled children		
	5.7 Alternative means of assessment andevaluation in inclusive classrooms.		

#### **Unit- V: ADDRESSING LEARNERS' DIVERSITY IN SCHOOLS**

#### SUGGESTED ACTIVITIES (Any two)

- 1. Prepare a case study of a differently abled learner.
- 2. Prepare the need profile of all children in a class. Analyze the profile thus prepared for establishing relation between students' needs and their abilities/disabilities
- 3. Prepare a report on violation of girl's rights by collecting data from various media resources.
- 4. Prepare a report on analysis of textual materials from the perspective of gender bias

#### **PRESCRIBED READINGS**

- 1. Alice, Rajkumar. M., Rita Sundari.D.,&Digumarti, Bhaskara,Rao, (2004).*Special Education*. New Delhi: Discovery Publishing House.
- 2. Bender.W.N. Learning Disability, Allyn.,& Bacon, Simon & Schuster, 1995, Boston London.
- 3. Bharat, Singh.(2008). *Modern Teaching of Exceptional Children*. New Delhi: Anmol Publications.
- 4. Bhasin, Kamla. (2000). Understanding Gender. New Delhi: Kali for Women.
- 5. Bhasin, Kamla. (2004). *Exploring Masculinity*. New Delhi. Women Unlimited.
- 6. Byerly.C.M.(2011).*GlobalReportontheStatusofWomenintheNewsMedia*.Washi ngtonDC: International Women's Media Foundation.
- 7. Carole Brugeiles., & Sylvie Cromer. (2009). Promoting Gender Equality Through Text Books. Paris: UNESCO Publications Division.
- Chakraborty, Asok, Bhattacharjee, Amitetal. (2013). Principles of Managementin Employment of Persons with Mental Retardation. New Delhi: KanishkaPublishers.
- 9. Chintamani, Kar. (2008). *Exceptional Children their Psychology and Education*. NewDelhi: Sterling Publishers.
- 10. Dash.M.(2007).*Education of Exceptional Children*. New Delhi:Atlantic Publishers & Distributors.
- 11. Dharma Raja. B. William., &Kumar, Praveen S. (2011). *SpecialEducation: FocusonMathematics Learning Disability*. New Delhi: APH Publishing Corporation.
- 12. Kosut, Mary. (2012). *Encyclopedia of Gender in Media*. New Delhi: Sage Publications.
- 13. MHRD.(2000). Bringing Girls Centre stage: Strategies and Interventions for

Girls Education in DPEP. New Delhi: MHRD.

- 14. Mohanty.,&Manoranjan.(2004). (Eds.), *Class, Caste, Gender*. New Delhi: Sage.
- 15. NCERT (2005). National Curriculum Framework. New Delhi: NCERT.
- 16. NCERT (2006). *Gender Issues in Education, Position Paper.* New Delhi: NCERT.
- 17. NCERT. (2006). *Gender Issues in Education*. New Delhi: Publications Division.
- 18. Rege, Sharmila. (2003). Sociology of Gender. New Delhi: Sage.
- 19. Report of the CABE.(2005) .*Committee on Girl's Education and the Common School System*.New Delhi: MHRD.
- 20. Sharma. K. K.,,&PunamMiglani. (2016). *Gender, School and Society*. Patiala: Twenty first century publications.
- Thompson, Audrey.(2003).CaringinContext:FourFeministTheoriesonGenderandEducatio n,Curriculum Inquiry, Vol. 33, No. 1 (spring, 2003), pp.9-65.
- 22. Vijayan, Premavathy., & Victoria.G. (Eds.). Education of Visually Impaired Children with Additional Disabilities. New Delhi: Kanishka Publishers.

#### **USUGGESTED READINGS**

- Berdine.W. H.,&Blackhurst. A. E.(eds.). An Introduction to Special Education, HarpersCollins Publishers, Boston1980.
- Dunn.L&Bay.D. M (ed.).*Exceptional Children in the Schools*, New York: Holt, Rinehart, Winston.
- 3. Fredrick,

LuicAldama.(2005).*Brownonbrown:ChicapolaRepresentationsofGender, Sexuality, and Ethnicity*. University of Texas Press.

- Hallahar.D.P.,&Kauffman.J.M. (n.d.). Exceptional Children: Introduction to Special Education, Allyn., & Bacon, Massachusetts, 1991.
- Hewett, Frank.M., & Foreness Steven.R., *Education of Exceptional Learners*, Ally n&Bacon, Masachusetts, 1984.
- Hurlock, Elizabeth.B.(1974) *Personality Development*. New Delhi: McGraw Hil Education.
- Jayaraman, Chindai (2016). Understanding the Schools. Chennai: VinodhPublishers.

- 8. Jorden, Thomes E. (n.d.). The Exceptional Child, Ohio: Merrill.
- 9. Kata Rousmaiere, Kari Dehli., & Ning De Conink Smith. (2013). *Discipline, Moral Regulations and Schooling:* A social history. New York:Routledge.
- Kirk.S.A.,&GallagherJ.J., *Education of Exceptional Children*;Houghton Mifflin Co., Boston, 1989.
- 11. Magnifico.L.X: Education of the Exceptional Child, New York: Longman.
- 12. National Policy on Education (1986, 1992), MHRD, GOI, Delhi
- 13. Shanker, Udey: Exceptional Children, Jullundur: Sterling Publications.
- 14. Singh, N.NandBeale.I.L.(eds.). *Learning Disabilities* Nature, Theory and Treatment Spring-Verlag, New York, Inc: 1992.
- 15. Smith.C.R, Learning Disabilities *THE INTERACTION of LEARNER, Task and Setting*. Allyn& Bacon, Massachusetts, 1991.
- 16. UNESCO (1994). The Salamanca Statement and Framework for Action on Special Needs Education.Paris.

Course Code: BED4PC012

Pedagogic Course

# B.Ed. Degree Programme Semester-IV EMERGING TRENDS IN BIOLOGICAL SCIENCE EDUCATION

(4 Credits -120 Hours)

#### ✗ COURSE LEARNING OUTCOMES:

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

- 1. Choose the appropriate models of teaching Biological Science
- Develop lesson plan based on different models of teaching in Biological Science
- 3. Discuss the emerging innovative strategies in teaching Biological Science
- 4. Choose the appropriate emerging strategies for teaching Biological Science
- 5. Examine the ways to link technology, pedagogy and content in classroom teaching
- 6. Employ different technological strategies in teaching Mathematics
- Recognize the importance of co-curricular activities in teaching Biological Science
- Discover the possibilities in organizing various co-curricular activities in Biological Science
- 9. Describe the importance of professional development of Biology teacher
- 10. Evaluate the qualities and professional skills of Biology teacher.

### **Unit- I: MODELS OF TEACHING**

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Identifies various teaching models for teaching Biological Science</li> <li>Classifies different families of models of teaching</li> <li>Chooses the appropriate model for teaching Biological Science</li> <li>Prepares lesson transcripts based on models of teaching</li> </ol>	<ul> <li>1.1 Models of teaching elements and functions.</li> <li>1.2 Concept Attainment model</li> <li>1.3 Advance organizer model</li> <li>1.4 Inquiry training model</li> </ul>	<ul> <li>Lecture</li> <li>Discussion</li> <li>Digital presentation</li> <li>Interactive learning</li> <li>Lesson plan preparation</li> </ul>	<ul> <li>Tests (written/oral)</li> <li>Observation</li> <li>Lesson transcript/ plan</li> </ul>

#### UNIT-II: EMERGING STRATEGIES FOR TEACHING BIOLOGICAL SCIENCE

	Learning outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>1.</li> <li>2.</li> <li>3.</li> </ol>	Recognizes emerging strategies in teaching Biological Science Discusses the importance of emerging strategies in teaching Biological Science Determines the	<ul><li>2.2 Collaborative learning</li><li>2.3 Concept mapping</li><li>2 4 Brain based learning</li></ul>	<ul> <li>Briefing/lecture</li> <li>Group discussion</li> <li>Peer learning</li> <li>Brain Storming</li> <li>Seminar</li> <li>Participatory Learning</li> </ul>	<ul> <li>Test (written/oral)</li> <li>Observation</li> <li>Seminar presentation</li> </ul>

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# Unit- III: TECHNO PEDAGOGIC CONTENT KNOWLEDGE

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Identifies ways and means to link technology, pedagogy and content knowledge</li> <li>Correlates technology, pedagogy and content in classroom teaching</li> <li>Explains the importance of technology in teaching and learning Biological Science</li> <li>Employs different technologies in teaching Biological Science</li> </ol>	<ul> <li>3.2 Web based learning</li> <li>3.3 Blog creation</li> <li>3.4 Science teacher as a techno pedagogue</li> <li>3.5 Techno-pedagogicalSkills</li> <li>3.6 Free software in science</li> <li>3.7 Learning management system</li> </ul>	<ul> <li>Briefing/lecture</li> <li>Discussion</li> <li>Interactive Learning</li> <li>Digital presentation</li> <li>Hands on Experience</li> </ul>	<ul> <li>Test (written/oral)</li> <li>Observation</li> <li>Blog creation</li> </ul>

# **Unit-IV: CO-CURRICULAR ACTIVITIES IN BIOLOGICAL SCIENCE**

	Learning Outcomes	Content		Suggested Strategies and Approaches	Assessment
1.	Identifies the	4.1 Co-curricular	•	Lecture	• Test
	importance of co-	activities- need and	•	Organizing	(oral/written)
	curricular	importance		science	<ul> <li>Participation</li> </ul>
	activities in	4.2 Science club-		exhibition	in co-curricular
	Biological	organization and	•	Seminar	activities
	Science	activities	•	Organization	Report writing
2.	Develops a plan	4.3 Science		of seminars/	• Seminar
	to organize	Exhibition and		workshops	presentation
	various of co-	Science Fair		related to the	
	curricular	4.4 Field Trips		subject	
	activities in	4.5 Science garden	•	Visit to	
	Biological	4.6 Nature calendar		Science	
	Science	4.7 Science Museum		Exhibitions,	
3.	Locates the need			Science	
	of various of co-			Gardens and	
	curricular			Museums	
	activities in				
	Biological				
	Science				
4.	Traces out the				
	effect of different				
	of co-curricular				
	activities in				
	Biological				
	Science				

#### **Unit-V: PROFESSIONAL DEVELOPMENT OF BIOLOGY TEACHERS**

	Learning Outcomes	Content		Suggested Strategies and Approaches		Assessment
1.	qualities of a Biology teacher Discusses the academic and professional qualities of Biology teacher	professional qualification 5.1.2. Professional Competencies– soft skills, Technological	•	Lecture Discussion Interactive learning Seminar Assignment Auto instruction	•	Tests (written/oral) Seminar presentation Assignment evaluation Report writing
3.	Examines the importance of professional development of Biology teacher Recognizes the professional development skills Biology teacher	skill 5.2.Professional development of Biology teachers 5.2.1 In-service training 5.2.2. Summer institutes				

#### SUGGESTED ACTIVITIES (any two)

- 1. Prepare a concept map on any one topic in Biological Science.
- 2. Visit a scientifically important place and prepare the report.
- 3. Carry out a project in Biology and prepare a project report.
- 4. Prepare a lesson plan based on models of teaching.

#### **PRESCRIBED READING**

- 1. Chauhan, S.S (1985).*Innovations in Teaching Learning Process*, VikasPublishing House, New Delhi.
- 2. Dash, B.N. (2005).*Psychology of Teaching Learning Process*, New Delhi: Dominant Publishers and Distributors.
- 3. Gupta S.K. (1985).*TeachingofPhysical Science in Secondary Schools*, New Delhi: Sterling Publishing Pvt. Ltd.
- 4. Ignacimuthu, S. (2012).*Biotechnology an Introduction*, New Delhi: Narosa publishing house.
- 5. Joyce. B. & Weil (2000) .Models of teaching (6thEdn) .Boston:

AllynandBacon.

- 6. Krishnamacharyalu.V. (2011).*Science Education*, Hyderabad: Neelkamal Publications Pvt Ltd.
- 7. Mangal S.K. (1913).*Advanced Educational Psychology*, New Delhi: PHI learning Pvt Ltd.
- 8. Radha Mohan (2010).*Innovative Science Teaching for Physical Science Teachers*, New Delhi: PHI Learning Pvt. Ltd.
- 9. Sharma .R.A.(2008).*Technological Foundation of Education*, Meerut: R.Lall Book Depot.
- 10. Sharma R.C (2006).*Modern Science Teaching*, New Delhi, DhanpatRai Publications.
- 11. Singh B.D (2011). *Fundamentals of Genetics*, Ludhiana: Kalyani Publishers.

#### **USUGGESTED READING**

- Agarwal.S.K (2005). Advanced Environmental Biotechnology. New Delhi: A.P.H .Publishing Corporation.
- 2. Brown.T.A. (1999). Principles of Genetic Engineering. New York: Wiley.
- 3. Christopher Howe (2007).*Gene Cloning and Manipulation. Second Edition,* Cambridge University press.
- 4. Clark, R.C. & R.E. Mayer (2002).*E-learning and the Science of Instruction*, SanFrancisco: Pfeiffer.
- Foster, L E. (2003).*Medical Nanotechnology: Science, Innovation and Opportunity*. Pearson Education, Upper Saddle River.
- Gosh.T.K. (2005). *BiotechnologyinEnvironmentalManagement*.Vol1&2, New Delhi: A.P.H Publishing Corporation.
- Heiss E.D. Obourn. S., & Hoffman C.W. (1985).*Modern Science Teaching*, New Delhi.
- 8. Kolb.D.A. (1984).*Experiential Learning; Experience as a Source of Learning and Development*, Englewood cliffs, NJ: Prentice Hall.

Course Code:BED4PCO13

Pedagogic Course

#### B.Ed.DegreeProgramme Semester- IV EMERGING TRENDS IN ENGLISH EDUCATION (4 Credite 120 Hours)

(4 Credits – 120 Hours)

#### *K* COURSE LEARNING OUTCOMES:

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

- 1. Choose the appropriate techniques for teaching English
- 2. Analyse the different text types
- 3. Discuss the emerging innovative strategies in literature
- 4. Choose the appropriate strategies for teaching English language
- 5. Examines the ways to link technology, pedagogy and content in classroom technology
- 6. Employ different technological strategies in teaching English language
- 7. Categorisetherecent trends in teaching English language
- 8. Examine the effect of various media in English language teaching
- 9. Describe the importance of professional development of English teacher
- 10. Evaluate the qualities and professional skills

Learning	Content	Suggested	Assessment
Outcomes		Strategies and	
		Approaches	
<ol> <li>Analyzes the emerging developments in English language teaching</li> <li>Explores various types of texts</li> </ol>	<ul> <li>1.1. ICT-enabled techniques for teaching and learningEnglish:Film adaptations of literary texts,OnlineVocabulary games, Online Grammar games, Audio podcasts, Pronunciation, Conversation practice,</li> <li>1.2 Exploring text types Online–Descriptive, Narrative, Expository, Argumentative- Neuro- linguisticProgramming</li> </ul>	<ul> <li>Visual Presentation</li> <li>e-learning</li> <li>Small Group Discussion</li> <li>Seminar</li> </ul>	<ul> <li>write- up submitted after analyzing emerging e-learning techniques</li> <li>Role performance analysis</li> <li>seminar presentation</li> </ul>

#### **Unit- I: DEVELOPMENTS IN ENGLISH**

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Recognizes various innovative strategies of English language teaching</li> <li>Discusses the objectives ,needs and relevance of literature in school</li> <li>Analyses the importance of translation</li> </ol>	<ul> <li>2.1 Literature in school curriculum-objectives, needs and relevance</li> <li>2.2 Objectives of teaching literature in school curriculum</li> <li>2.3 Literature and its indispensable role</li> <li>2.4 Translation – Importance and need</li> <li>1.4.1 Translation as a creative activity.</li> <li>1.4.2 Personal Translation style, copy writing skill and using language as a creative tool.</li> </ul>	<ul> <li>Lecture</li> <li>Group Discussion</li> <li>Presentation of Samples</li> </ul>	<ul> <li>QA Session</li> <li>Role performanc e analysis</li> </ul>

#### **Unit- II: PERSPECTIVES OF INNOVATIONS IN LITERATURE**

	Learning	Content Suggested	Assessment
	Outcomes	Strategies and Approaches	
1.	Identifies the	3.1 Techno – pedagogy • Group	Assignment
	ways and	:meaning and importance Discussion	Analysis
	means to link	3.2 Inter-relationship • Demonstrations	• Test
	technology,	between Content in Smart	(oral/Written)
	pedagogy and	Knowledge, Pedagogic Classroom	Role
	content	Knowledge and • Assignment	performance
2.	Correlates	Technological Knowledge	analysis
	technology,	3.3 Scope of techno-	
	pedagogy and	pedagogue in English	
	content in	language teaching	
	classroom	3.4 Technology in English	
	teaching	language learning:	
3.	Explains the	virtual learning, mobile	
	scope of techno	learning, Blended	
	pedagogue in	learning, online	
	English	learning, blog creation,	
	language	preparation of digital	
	teaching	lesson plans	
4.	Employs		
	different		
	technologies in		
	teaching		
	English		
	language.		

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Identifies the different media in English language teaching</li> <li>Uses various media for language teaching</li> <li>Employs the appropriate media for language teaching</li> <li>Analyzes the types of social media in English language teaching</li> </ol>	<ul> <li>4.1 Role and relevance of media in English language teaching-learning: newspaper, radio, television, films, internet, magazines.</li> <li>4.2 Social media- types</li> <li>4.2.1 Social network – facebook, twitter, linkedin, media sharing – networks, instagram, snapchat, youtube – discussion forums - quora</li> <li>4.3 Book marking and content curation networks- pinterest, flipboard- internet based networks- good reads.</li> </ul>	<ul> <li>Group Discussion</li> <li>Demonstration</li> <li>Smart Classroom</li> <li>Assignment</li> </ul>	<ul> <li>Assignment Analysis</li> <li>Test (oral/Written)</li> <li>Role performance analysis</li> </ul>

# **Unit- IV: MEDIA IN ENGLISH LANGUAGE TEACHING**

#### Unit – V: PROFESSIONAL DEVELOPMENT OF ENGLISH TEACHERS

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Recognizes the importance of professional development</li> <li>Discusses the academic and professional qualities of English</li> <li>Examines the importance of pre service and in service programme.</li> </ol>	<ul> <li>5.1 Teaching as a profession</li> <li>5.2 Pre-service and inservice programme</li> <li>5.3 Qualities of an English Teacher</li> <li>5.3.1 Professional competencies</li> <li>5.3.2 Soft skills</li> <li>Technological skills.</li> </ul>	<ul> <li>Assignments</li> <li>Group work</li> <li>Peer teaching</li> <li>Seminar</li> </ul>	<ul> <li>Q.A. sessions</li> <li>Discussion</li> <li>Vocabulary check</li> </ul>

#### SUGESTED ACTIVITIES (any two)

- 1. Prepare a digitalized lesson plan and submit online.
- 2. Collect and submit online resources of teaching /learning English.
- 3. Create a blog on English language learning.
- 4. Prepare a critical analysis of a fiction/poem.

#### **PRESCRIBED READING**

- 1. The Internet Guide for English Language Teachers Dave Sperling, 1997, Prentice-Hall Regents. (1998 edition also available).DaveSperling'sInternet Activity Workbook Prentice Hall, Regents ISBN 0-13-010325-X,1999.308.
- 2. Tim,Boswood. (1997). New Ways of Using Computers in Language Teaching,TESOL.
- 3. Joy Egbert.,&Elizabeth Hanson-Smith. (1999).CALL Environments: Research, Practice and Critical Issues Internet for EnglishTeaching.
- 4. Adams.M.J. (1990). Thinking and Learning about Print. Cambridge, Ma: MITPress.
- 5. Alexander.L.G.(1975).AFirst Book in Comprehension, Précisand

Composition.Longman:Hongkong.

- 6. Brewster Jean, Gail Ellis., & Denis Giraf. (1992). The Primary English Teachers's Guide. Penguine Books: London.
- 7. Choudhary.N.R. (2002). English Language Teaching, Himalaya PublishHouse,Mumbai.
- 8. Cameron,Lynne.(2001).Teaching Language to my Young Learners.CambridgeUniversityPress:Cambridge.

# **USUGGESTED READING**

- 1.Content-basedSecondLanguageInstructionBrinton.D.M.,Snow.M.A.,&Wesche.M.B. (1989).New York:Newbury.
- 2. Information&CommunicationTechnologiesinELTAbdulMahmoudIdreesIbra him,Journalof Language Teaching and Research, Vol. 1, No. 3, pp.211-214, May, 2010 Academy Publisher ISSN1798-4769.
- 3. Dave, Pratima.S.(2002). Communicative Approach to the Teaching of Bachelor of Education English as a Second Language, Himalaya Publishing House, Mumbai.
- 4. Kohli.A.L(2001).TechniquesofteachingEnglishinthenewmillennium.Dhanpat Rai: NewDelhi.
- 5. Singh .Y.K (2005). Teaching of English.NewDelhi: APH Publishing Corporation.
- 6. Amritavatli.R. (1999). Language as a Dynamic Text: Essays on Language,Cognition and Communication.CIEFLAkshara series. Hyderabad:AlliedPublishers.
- 7. Bond.L.Getat(1980).ReadingDifficulties-TheirDiagnosisandCorrection,NewYork: Appleton CenturyCrafts.
- 8. Byrne.D .(1975): Teaching Writing, London, Longman.

*Course Code:BED4PC014* 

Pedagogic Course

#### B. Ed. Degree Programme Semester- IV

#### EMERGING TRENDS IN HISTORY EDUCATION

(4 Credits - 120 Hours)

#### *EX* COURSE LEARNING OUTCOMES:

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

- 1. Examine the way to link technology, pedagogy and content in classroom teaching
- 2. Employ different technological strategies in teaching history
- 3. Discuss the emerging innovative strategies in teaching history
- 4. Choose appropriate strategies for teaching history
- 5. Identify suitable models of teaching for history
- 6. Develop lesson plan based on models of teaching
- 7. Recognise the importance of co-curricular activities in history
- 8. Discuss the possibilities in organising co-curricular activities
- 9. Describe the importance of professional development of history teachers
- 10. Evaluate the qualities and professional skills of history teacher

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Identifies the ways and means to link technology, pedagogy and content.</li> <li>Correlates technology, pedagogy and content in classroom teaching</li> <li>Explains the scope and purpose of techno-pedagogy in history</li> <li>Employs different technology in teaching history</li> </ol>	link techno pedagogy content knowledge 1.1.1 Need and significance 1.2 Interrelationshipbetwe en techno-pedagogy and content. 1.3 Scopeandpurposeofte chno pedagogue inhistory. 1.4 Teacher as a techno - pedagogue inhistory:	<ul> <li>Lecture</li> <li>Discussion</li> <li>Visualpresentation</li> <li>BrainStorming</li> </ul>	<ul> <li>Test (Oral/ Written)</li> <li>QASession</li> <li>Reportwriting</li> </ul>

# Unit- I: TECHNO PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS

Suggested	Content	Unit- II: EMERGING STRATEGIES Learning Conte		
Strategies and	Content		Outcomes	
_			Outcomes	
<ul> <li>Approaches</li> <li>Lecture</li> <li>Discussion</li> <li>Seminar</li> <li>Visualpresentation</li> <li>n</li> </ul>	<ul> <li>2.1 Innovative strategies: Need andImportance</li> <li>2.1.1 PeerTutoring</li> <li>2.1.2 Collaborative learning</li> <li>2.1.3 Co-operative learning</li> <li>2.1.4 Problem-based learning</li> <li>2.1.5 Flipped learning</li> <li>2.1.6 Blended-learning</li> <li>2.1.7 Brain-compatible learning: <ol> <li>Mindmapping</li> <li>Conceptmapping</li> <li>Conceptmapping</li> <li>Xideo- conferencing</li> </ol> </li> </ul>	of tory the and of in tory the for	Recognizes various innovative strategies teaching hist Discusses need importance innovative strategies teaching hist Determines appropriate innovative strategies teaching hist	1. 2. 3.

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# Unit- III: MODELS OF TEACHING HISTORY

	Learning	Content	Suggested	Assessment
	Outcomes		Strategies and	
			Approaches	
1.	Defines models	3.1 Models of Teaching -	<ul> <li>Lecture</li> </ul>	• Test (Oral/
	of teaching	meaning and concept,	<ul> <li>Discussion</li> </ul>	Written)
2.	Classifies	3.2 Descriptionsofthemodel	Workshop on	QASession
	different families	3.3 Differentfamilies:	Model	Report
	of teaching	5.5 Differentiamines:	Lessonplan	writing
	models.	mormation processing,	writing	• Evaluating
		Social behavior and		lesson plan
3.	Chooses suitable	modern		
	models of	i) Conceptattainmentmod		
	teaching history	el		
4.	Prepares lesson	ii) Advanced		

plan based on models of teaching	organizemodel iii) Jurisprudential model iv) Inquiry trainingmodel		
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# **Unit- IV: CO-CURRICULAR ACTIVITIES IN HISTORY**

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Recognises the need and importance of co-curricular activities</li> <li>Identifies different co- curricular activities</li> <li>Organizes different co- curricular activities.</li> </ol>	<ul> <li>4.1 Need and importance of co-curricular activitiesin teaching History - Advantages</li> <li>4.1.1.Criteriaforco- curricular activities</li> <li>4.2 History Museum</li> <li>4.3 Exhibitions</li> <li>4.4 Excursions and fieldtrips</li> <li>4.5 Field Visits</li> <li>4.6 Club Activities</li> </ul>	<ul> <li>Lecture</li> <li>Discussion</li> <li>Auto learning</li> <li>Visual presentation</li> <li>Visits and Field trips</li> </ul>	<ul> <li>Tests (Oral/ Written)</li> <li>Participation in co-curricular activities</li> <li>QA Session</li> </ul>

# Unit- V: PROFESSIONAL DEVELOPMENT OF A HISTORY TEACHER

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Recognizes the need and importance of professional development</li> <li>Explains the meaning of professional development</li> <li>Compares pre- service and in- service programme</li> <li>Selects suitable programme for professional development.</li> </ol>	<ul> <li>5.1 Professional development- meaning and significance</li> <li>5.1.1Need for continuous development</li> <li>5.2 Teaching as a profession: pre- serviceandin-service programme</li> <li>5.3 History teacher as a reflective practitioner: concept andstrategies.</li> <li>5.4 Various programmes for professionaldevelopment</li> <li>5.5Qualities of a History teacher –</li> <li>5.5.1Professional Competencies- SoftSkills, Technological Skills.</li> </ul>	<ul> <li>Lecture</li> <li>Discussion</li> <li>Seminar</li> <li>Autolearning</li> <li>Brainstorming</li> </ul>	<ul> <li>Test (Oral/ Written)</li> <li>QASession</li> <li>Evaluation of report</li> </ul>

#### SUGGESTED ACTIVITIES (any two):

- 1. Critically analyse the role of technology in teaching and learning History.
- 2. Design mind maps by selecting a unit for teaching StandardIX.
- 3. Preparation of lesson transcripts based on any two models ofteaching.
- 4. Prepare a report on various programmes for professional development of history teachers.

#### **PRESCRIBED READING**

- 1. Aggarwal.J.C.(2003). *Teaching of social studies: A Practical approach*. New Delhi: Prentice Hall India pvt. Ltd.
- 2. Alexey, Semenov, UNESCO. (2005). Information and Communication

Technology in Schools: A Hand book for teachers.

- 3. Bhatt.B.D.,&Aggarwal.J.C. (1909). *Educational Document in India:* Survey of Indian Education. New Delhi: Arya book.
- 4. Dash.B.N. (1998). *Content cum Methods of Teaching Social Studies*. Ludhiana: Ralyani Publishers.
- 5. Josh.P. S.V, Gholkar.S.V. (1983). *History of Modern India*. New Delhi: Chand VCompany.
- 6. Joyce.B.V, Well.M. (2003). *Models of Teaching* (5<sup>th</sup>ed). New Delhi: Prentice Hall.
- 7. Madhukumar, Indira. (2005). *Internet Based Distance Education*. New Delhi: Global Network.
- 8. Passi, B.K. (1991). Models of Teaching. New Delhi: NCTE
- 9. Singh, Gopal. (2004). *Teaching strategies*. New Delhi: APH Publishing Corporation.

#### **USUGGESTED READING**

- 1. Aggarwal.J.C. (2003). *Teaching of social studies: A Practical approach*. New Delhi: Prentice Hall India pvt.Ltd.
- 2. Alexey, Semenov, UNESCO. (2005). *Information and Communication Technology in Schools:* A Handbook for teachers.
- 3. Bhatt. B.D.,&Aggarwal.J.C. (1909). *Educational Document in India:* Survey of Indian education. New Delhi: Arya book.
- 4. Dash.B.N. (1998). *Content Cum Methods of Teaching Social Studies*. Ludhiana: Ralyani Publishers.
- 5. Josh.P. S. V, Gholkar.S.V. (1983). *History of Modern India*. New Delhi: Chand VCompany.
- 6. Joyce.B.V, well.M. (2003). *Models of Teaching (5<sup>th</sup>ed)*. New Delhi: Prentice Hall.
- 7. Madhukumar, Indira. (2005). *Internet Based Distance Education*. New Delhi: Global Network.
- 8. Singh, Gopal. (2004). *Teaching Strategies*.NewDelhi: APH PublishingCorporation.

Course Code: BED4PC015

Pedagogic Course

# B.Ed. Degree Programme Semester-IV EMERGING TRENDS IN MATHEMATICS EDUCATION

(4 Credits - 120 Hours)

#### *EX* COURSE LEARNING OUTCOMES:

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

- 1. Examine the ways to link technology,pedagogy and content in classroom teaching
- 2. Employ different technologies in teaching Mathematics
- 3. Discuss the emerging innovative strategies in teaching Mathematics
- 4. Choose the appropriate strategies for teaching Mathematics
- 5. Choose the appropriate model for teaching Mathematics
- 6. Develop lesson transcripts based on different models of teaching in Mathematics.
- 7. Categorise the recent trends in teaching Mathematics
- 8. Examine the effect of various media in Mathematics teaching
- 9. Describe the importance of professional development of Mathematics teacher
- 10. Evaluate the qualities and professional skills of Mathematics teacher

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Identifies the ways and means to link technology, pedagogy and content</li> <li>Correlates technology, pedagogy and content in classroom teaching</li> <li>Explains the importance of technology in teaching and learning Mathematics</li> <li>Employs different technologies in teaching Mathematics.</li> </ol>	<ul> <li>1.1 Concept of Techno pedagogic content knowledge</li> <li>1.2 Technology in teaching and learning mathematics</li> <li>1.3 Web-based Instruction</li> <li>1.4 Online learning</li> <li>1.5 Virtual learning</li> <li>1.6 ICT based teaching and learning</li> <li>1.7 Blog creation</li> <li>1.8 Digital lesson in mathematics</li> </ul>	<ul> <li>Lecture</li> <li>Illustrations</li> <li>Digitalpresen</li> </ul>	<ul> <li>Participant observation</li> <li>Online evaluation</li> <li>Evaluation of assignment</li> </ul>

# Unit- I: TECHNO-PEDAGOGIC CONTENT KNOWLEDGE

# Unit- II: INNOVATIVE STRATEGIES IN TEACHING AND LEARNING MATHEMATICS

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Recognizes various innovative strategies in teaching Mathematics</li> <li>Discusses the importance of</li> </ol>	<ul><li>2.1 E-learning</li><li>2.2 Constructivist learning</li><li>2.3 Problem-based learning</li><li>2.4 Brain-based learning</li><li>2.5 Cooperative learning</li></ul>	<ul> <li>Lecture</li> <li>Digital presentation</li> <li>Seminar</li> <li>Discussion</li> </ul>	<ul> <li>Tests (oral/ written)</li> <li>Participant observation</li> <li>Evaluation of assignment</li> </ul>

<ul> <li>innovative strategies in teaching Mathematics</li> <li>3. Determines the appropriate innovative strategy in teaching Mathematics</li> <li>4. Outlines the different innovative strategies in teaching Mathematics</li> </ul>	<ul><li>2.6 Collaborative learning</li><li>2.7 Concept mapping</li><li>2.8 Flipped learning</li><li>2.9 Blended learning</li><li>2.10Videoconferencing</li></ul>	• assignment	
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# **Unit- III: MODELS OF TEACHING MATHEMATICS**

	Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1.	Defines models of	3.1 Meaninganddefinitiono	Discussions	• Test (oral/
	teaching	fteachingmodel	<ul> <li>Electronicvi</li> </ul>	written)
2.	Classifies different	3.2 Assumptionsregardingt	sual	Questioning
	families of models	eachingmodels	presentation	• Paper
	of teaching	3.3 RoleofTeachingmodels	Seminar	presentation
3.	Chooses the	3.4 Familiesofteachingmod		
	appropriate model	els		
	for teaching	3.5 Elements of Teaching		
	Mathematics	models		
4.	Prepares lesson	3.6 Some typical model:		
	transcripts based	i) Concept Attainment		
	on models of	Model,		
	teaching	ii) Advance Organizer		
		Model,		
		iii) Inquiry Training		
		Model		

	Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
re M Ec 2. Id va re tea M 3. Do m tea M 4. Us	ecent trends in lathematics ducation lentifies the arious digital esources for eaching lathematics evelops lodules for eaching lathematics ses various apps or teaching lathematics	<ul> <li>4.1 Computer</li> <li>assisted instruction</li> <li>4.2 Computer</li> <li>managed</li> <li>instruction</li> <li>4.4 Digital resources <ul> <li>in Mathematics</li> <li>Education – CD,</li> </ul> </li> <li>DVD, Websites <ul> <li>Digital text books</li> </ul> </li> <li>4.4 Smart class room</li> <li>4.5 Learning <ul> <li>Management</li> </ul> </li> <li>System</li> <li>4.6 M-learning</li> <li>4.7 Multimedia <ul> <li>presentation</li> </ul> </li> <li>4.8 Modules in <ul> <li>teaching and <ul> <li>learning</li> </ul> </li> <li>Mathematics</li> </ul> </li> <li>4.9.Apps for teaching <ul> <li>and learning</li> <li>Mathematics</li> </ul> </li> </ul>	<ul> <li>Lecture</li> <li>Discussion</li> <li>Brainstorming</li> <li>Collection of reviews related to classroom teaching</li> </ul>	<ul> <li>Test (Oral/ Written)</li> <li>QA Session</li> <li>Report writing</li> </ul>

# **Unit- IV: RECENT TRENDS IN MATHEMATICS EDUCATION**

#### **Unit- V: PROFESSIONAL DEVELOPMENT OF MATHEMATICS TEACHER**

	Learning Outcomes		Content		Suggested Strategies and Approaches		Assessment
1. 2.	Recognizes the importance of professional development Discusses the special qualities of Mathematics	5.2	Professional Development: meaning and importance Teaching as a profession In-service education	•	Lecture Seminar Discussions	•	Tests Questioning Student Reports
3.	teacher Examines the importance of professional development of Mathematics teacher Identifies the professional skills of Mathematics teacher	5.4 5.5	of teachers Special qualities of a Mathematics teacher Professional skills of Mathematics teachers Role of reflective practices in professional development.				

#### SUGGESTED ACTIVITIES (any two)

- 1. Prepare a concept map for any lesson inMathematics.
- 2. Develop a CAI package inMathematics.
- 3. Create a blog for anyone lesson inMathematics.
- 4. Prepare a lesson transcript based on any one model of teaching.

#### **PRESCRIBED READING**

- 1. Bishoni, U.(2008). Teaching of Mathematics. Meerut: Lal Book Depot
- 2. Bruce, Joyce. & Weil, Marsha. (2004). *Models of Teaching*. U.K: Prentice Hall ofIndia.
- 3. James, Anice. (2005). *Teaching of Mathematics*. New Delhi: NeelkamalPublications.
- 4. James, Anice. (2006). *Techniques of Teaching of Mathematics*. New Delhi: NeelkamalPublications.

- 5. Kulshreshtha, A.K. (2008). *Teaching of Mathematics*. Meerut: R.LallBooksDepot.
- 6. Mangal, S.K. (2000). *Teaching of Mathematics*. Ludhiana: R.P.FadonPrakashBrothers.
- 7. Passi, B.K. (1991). Models of Teaching. New Delhi: NCTE
- 8. Sharma, R.D. (2008). *Technological Foundation of Education*. Meerut: R.LallBooksDepot.
- 9. Soman, K., &Sivarajan, K. (2014). *Teaching of Mathematics*. Meerut: Lal Bok Depot.
- 10. Wadhwa, S. (2008). *Modern Methods of Teaching Mathematics*. New Delhi: KaranPapers.

#### **USUGGESTED READING**

- 1. Aggarwal, S.M. (2001). A Course in Teaching of Modern Mathematics.NewDelhi: DhanpatRaiPublishingHouse.
- 2. Bhasin, Sonia. (2005). *Teaching of Mathematics A practical approach*. Mumbai: Himalaya PublishingHouse.
- 3. Costello, J. (1991). *Teaching and Learning of Mathematics*. London: RoutledgePublications.
- 4. Ediger, M.,&Rao, D.B. (2000). *Teaching Mathematics Successfully*. New Delhi: Discovery PublishingHouse.
- 5. Siddiqui, H.S., &Khan, M.S.(2004).*Models of Teaching –Theory and Research*.NewDelhi: AshishPublishingHouse.
- 6. Siddiqui, M.H. (2007). *Teaching of Mathematics*. New Delhi:APHPublishing House.

Course Code: BED4PC016

Pedagogic Course

# B.Ed.DegreeProgramme Semester-IV EMERGING TRENDS IN PHYSICAL SCIENCE EDUCATION

(4 Credits - 120 Hours)

# *EX* COURSE LEARNING OUTCOMES

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

- 1. Identify the appropriate teaching model for teaching physical science
- 2. Develop lesson plan based on models for teaching physical science
- 3. Discuss the emerging strategies in teaching Physical science
- 4. Choose appropriate strategies for teaching physical science
- 5. Examine the ways to link technology, pedagogy and content in classroom teaching
- 6. Employ different technological strategies in teaching physical science
- 7. Develop a plan to organise various co-curricular activities in physical science
- 8. Identify the importance of co-curricular activities in learning physical science
- 9. Describe the importance of professional development of science teachers
- 10. Evaluate the qualities and professional skills of science teacher

# **Unit- I: MODELS OF TEACHING**

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Defines models of teaching</li> <li>Classifies different teaching models</li> <li>Chooses the appropriate model for teaching physical science</li> <li>Prepares lesson plan based on models of teaching</li> </ol>	<ul> <li>1.1 Models of teaching - Definition,</li> <li>Fundamental</li> <li>Elements of models of teaching.</li> <li>1.2 Types of Teaching Model.</li> <li>1.2.1 Inquiry Training Model</li> <li>1.2.2 Concept Attainment Model</li> <li>1.2.3 Advance Organizer Model</li> </ul>	<ul> <li>Digital presentation</li> <li>Group discussion</li> <li>Workshop</li> </ul>	<ul> <li>Test (oral/written)</li> <li>Assignment</li> </ul>

	Learning Outcomes	Content		Suggested Strategies and Approaches		Assessment
1.         2.         3.         4.	Recognizes various innovative strategies of teaching Physical science Discusses the need and importance of innovative strategies in teaching Determines the appropriate strategies for teaching physical science Outlines the different emerging strategies in teaching physical science	<ul> <li>2.1 Collaborative learning</li> <li>2.2 Co-operative learning</li> <li>2.3 Problem based Learning</li> <li>2.4Concept mapping</li> <li>2.5Flipped learning</li> <li>2.6Blended learning</li> <li>2.7Experiential learning</li> <li>2.8Brain based learning</li> </ul>	•	Approaches Seminar Group Discussion Brainstorming Digital Presentation	•	Participant observation Report writing Mapping

# Unit-II: EMERGING STRATEGIES FOR TEACHING PHYSICAL SCIENCE

	Learning		Content		Suggested		Assessment
	Outcomes				Strategies and Approaches		
1.	Identifies the ways	3.1	Techno	٠	Discussion	•	Observation
	and means to link		Pedagogic	•	Demonstration	•	Assignment
	technology,		Content	•	ICT resources	•	Material
	pedagogyand		Knowledge				submission
	content	3.2	Science				
2.	Correlates		teacher as				
	technology,		techno				
	pedagogy and		pedagogue				
	content in teaching	3.3	Techno pedagogic				
3.	Explains the		skills and				
	importance		competencies				
	technology in	3.4	Web based				
	teaching and		learning				
	learning physical	3.5	M-learning				
	science	3.6	Software in				
4.	Employs different		science				
	technologies in	3.7	Learning				
	teaching physical		Management				
	science		System				

# Unit- III: TECHNO PEDAGOGIC CONTENT KNOWLEDGE

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
importance of co-curricular activities in physical science 2. Develops a plan to organise	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	<ul> <li>Lecture</li> <li>Organizing science exhibition</li> <li>Extension activity</li> <li>Organization of seminars/ workshops related to the subject</li> </ul>	<ul> <li>Test (oral/written)</li> <li>Participation in co-curricular activities</li> <li>Report writing</li> <li>Seminar presentation</li> </ul>

#### Unit- IV: CO-CURRICULAR ACTIVITIES IN PHYSICAL SCIENCE

# **Unit- V: PROFESSIONAL DEVELOPMENT OF TEACHERS**

	Learning Outcomes		Content		Suggested Strategies and Approaches		Assessment
1.	Recognizes	the	5.1 Teaching as a profession	٠	Lecture	•	Participant
	need	for	5.2 Pre-service and in-	•	Discussion		observation
	professional		service programme	•	Debate	•	Report based
	development	of	5.3 Role of reflective				on debate
	teachers		practices on				
2.	Explains	the	professional				
	meaning	of	development				
	teaching as	а	5.4 Qualities of a science				
	profession		teacher				
3.	Compares p	ore-	5.4.1 Professional				

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service and	in-	competencies	
service		5.4.2 Soft skills	
programme		5.4.3 Technological	
4. Identifies	the	skills.	
qualities of	a		
science teacher			

# **SUGGESTED ACTIVITIES** (any two):

- 1. Visit a scientifically important place and prepare a report
- 2. Design a content in physical science based on mapping strategies.
- 3. Visit an exhibition in your locality and prepare a report.
- 4. Develop a lesson plan in physical science based on models of teaching.

# **PRESCRIBED READING**

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

# **USUGGESTED READING**

- 1. Bhatia.K.K. (2001). Foundations of Teaching Learning Process. Ludhiana: TandonPublication.
- 2. Das.R.C. (1985). Science Teaching in Schools. New Delhi: SterlingPublishers.
- Joseph.T. T. (1982). Modern Trends in Science Education. (2<sup>nd</sup> Ed.). Kottayam,Kerala. Mangal.S.K..,&UmaMangal. (2009). Essentials of Educational Technology. New Delhi: PHI Learning Pvt.Ltd.
- 4. Mathew.T.K.,&Mollykutty.T. M. (2011). Science Education:TheoreticalBasesofTeaching and Pedagogic Analysis. Chenganoor: Rainbow Book Publishers.
- 5. Mishra.R.C(2008). Lesson Planning. NewDelhi: APH Publishing Corporation.
- 6. Panner, Selvam. A. (1976). Teaching of Physical Science, Government of TamilNadu.

Course Code: BED4EC001

Elective Course

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

(4 Credits - 120 Hours)

#### *K* COURSE LEARNING OUTCOMES:

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

- 1. Diagnose the various issues of Early Childhood Care and Education
- Compare the contributions made by western and Indian thinkers to Early Childhood Care and Education
- 3. Examine the role played by Early Childhood Care and Educationcentre in the holistic development of children.
- 4. Develop insight in planning programs for pre-school children
- 5. Acquaint with the different techniques of teaching children.

# Unit- I: INTRODUCTION TO EARLY CHILDHOOD CARE AND EDUCATION

	Learning	Content	Suggested	Assessment
	Outcomes		Strategies and	
			Approaches	
1.	Analyses the	1.1 Early Childhood	<ul> <li>Introductory</li> </ul>	<ul> <li>Assignment</li> </ul>
	need of ECCE	Care and Education:	Lecture	evaluation
2		concept, need and	<ul> <li>Group discussion</li> </ul>	• Test (Written/
2.	Diagnoses the	objectives of ECCE	<ul> <li>Assignment</li> </ul>	Oral)
	various issues of	1.2. Early Childhood	<ul> <li>Brainstorming</li> </ul>	<ul> <li>Participation in</li> </ul>
	ECCE	Education trends in	• Seminar and	group
3.	Discusses the	India-public,private	discussion	discussion
5.	Discusses the	and voluntary sector		
	policies of ECCE	initiatives in India		
		1.3.Issues and		
		concernsofECCE in		
		India		
		1.4.Policies in ECCE in		
		India- National Focus		
		Group on ECCE		
		(2006)		
		1.5 ECCE in National		
		<b>Education Policy</b>		
		2020		

	CHILDHOOD CARE AND EDUCATION							
	Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment				
1.	Compares the contributions made by western and Indian thinkers to ECCE Appraises the contributions of Educational thinkers	<ul> <li>2.1</li> <li>Contributionsofweste rn thinkers –Froebel, McMillan Sisters,Montessori,Pi aget and Vygotsky</li> <li>2.2.Indian thinkers – GijubhaiBadeka, Mahatma GandhiandTarabaiMo dak.</li> </ul>	<ul> <li>Introductory lecture</li> <li>Groupdiscussion</li> <li>Assignment</li> <li>Brainstorming</li> <li>Seminarand discussion</li> </ul>	<ul> <li>Assignment evaluation</li> <li>Test (Written/ Oral)</li> <li>Participation in group discussion</li> </ul>				

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

# Unit- III: DEVELOPMENT DURING EARLY CHILDHOOD

	Learning	Content	Suggested	Assessment
	Outcomes		Strategies and Approaches	
2.	Detects the factors influencing development during early childhood Examines the role played by ECCE centers in the holistic development of children.	social, emotional, language andmoral development. 3.2. Factorsinfluencing early childhood development. 3.3. Role ofearly childhood centresinpromoting	<ul> <li>Lecture</li> <li>Seminars</li> <li>Interactivesession</li> <li>Discussion</li> <li>Assignment</li> </ul>	<ul> <li>Preparation of learning materials</li> <li>Assignment evaluation</li> <li>Test (Written/Oral)</li> </ul>

# Unit- IV: ORGANIZING ECCE PROGRAMME

Learning Outcomes	Content 4.1.DesignofanECCEce ntre– building plan, different areas in an ECCE centre, safety precautions, 4.2 Planning programs for children – principles and factorsofprogrampla	Suggested Strategies and Approaches   • Lecture  • Fieldvisit  • Developmentof weekly /daily schedules  • Seminarand discussions  • Discussion	Assessment <ul> <li>Reportwriting</li> <li>Assessing weekly / daily schedule</li> <li>Assignment evaluation</li> <li>Test (Written/Oral)</li> </ul>
	1 1	<ul> <li>discussions</li> <li>Discussion</li> <li>Visualpresentati ons</li> <li>Peerlearning</li> </ul>	

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Identifies the role of ECCE teacher.</li> <li>Acquaints with the different techniques of teaching children.</li> </ol>	<ul> <li>5.1 Strategies for involvement of children in learning activities- sensory training, Rhymes, Storytelling, Dramatization, Puppetry, Nature walk and play way method</li> <li>5.2 Evaluation of children's development and learning - Principles of assessment and reporting</li> <li>5.3 Informal assessment Strategies - observation,portfolio , checklist.</li> <li>5.4.Role of care giver/ ECCE Teacher- partnership with parents and family</li> </ul>	<ul> <li>Lecture</li> <li>Field visit</li> <li>Observation of Programs</li> <li>Seminar and discussions</li> <li>Role play</li> <li>Discussion</li> <li>Demonstration</li> <li>Visual presentations</li> <li>Peer learning</li> </ul>	<ul> <li>Assignment evaluation</li> <li>Test (Written/Oral)</li> </ul>

#### **Unit- V: PEDAGOGIC APPROACHES TO ECCE PROGRAMME**

#### SUGGESTED ACTIVITIES (any two)

- 1. Preparematerialsandactivitiesforanytwoaspectsofdevelopment.
  - 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) withillustrations.
- 4. Preparesourcefileondifferenttypesofcreativeactivitiesforchildren.

#### **PRESCRIBED READING**

- 1. Aggarwal.J.C., & Gupta.S. (2007). *EarlyChildhoodCareandEducation*-*PrinciplesandPractices*. New Delhi: Shirpa Publications.
- 2. Devadhas, P.Rajammal. (1984). *ATextBookon Child Development*.New Delhi: MC Millan India Ltd.
- 3. Hurlock, Elizabeth.B. (2001). *Child Growth andDevelopment*.NewDelhi:Tata McGraw Hill publishing company.
- 4. Kaul, Vinetha. (2001). Early Childhood EducationProgramme.New Delhi: National Council of Educational Research and Training.
- 5. Kaul.V.,&Sankar.D.(2009).*Early Childhood CareandEducationinIndia*:Mid-Decade Assessment, NUEPA.
- 6. Kon, Ruth.(1972). The Exploring child. Mumbai:OrientLongmanLtd.
- Mohanthy,Jaganath.,&Bhagyadhar,Mohanthy. (2000).*EarlyChildhoodCareandEducation*.NewDelhi:Deep and Deep Publication.
- 8. Montessori.M.(1962). The Discovery of the Child. Chennai: Kalakshetra Publications
- NationalCurriculumFramework. (2005).EarlyChildhoodCareandEducation.NewDelhi: NCERT.
- 10. Pankajam. G. (1994).*Pre.-school education PhilosphyandPractice*. 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.

#### **USUGGESTED READING**

- 1. Austin,Gilbert.R.(1976).EarlyChildhoodEducation:AnInternationalPerspective.New York: Academic Press.
- Banta.T.(1966).AreThesesReallyaMontessori Method, Columbus, Ohio: OhioPsychological Association and Ohio Psychiatric Association. David.T. (1989). Teaching Young Children. New Delhi:Sage.
- $3. \quad Essa. E. (1990). Introduction to Early Childhood Education. New York: Delimar.$
- 4. Kaul.V. ,&Bhatnagar.R.(n.d).*EarlyChildhoodEducation*:ATrainers'Handbook. New Delhi:NCERT.
- 5. Kaul.V.et al.(2004).*ReachingOuttotheChild*.NewDelhi:OxfordUniversityPress.
- 6. Kaul.V.,&Sankar.D(2009). *EarlyChildhoodCareandEducationinIndia*: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 ChildMatters. New Delhi: NCERT.
- 10. Swaminathan.M.(1998).*TheFirstFiveYears:ACriticalPerspectiveonEarlyChildh* oodCareand Education in India. New Delhi: Sagepublications.
- 11. Swaminathan. M., &Daniel. P.(2000). Activity-BasedDevelopmentallyAppropriateCurriculumforYoung Children. Chennai: IAPE.
- 12. Vergas-

Baron.E.(2005).*PlanningPoliciesforEarlyChildhoodDevelopment*:Guidelinesfor Action.Paris:UNESCO.

Course Code:BED4EC002

Elective Course

# B.Ed. Degree Programme Semester-IV EDUCATION OF ADOLESCENTS

(4Credits -120 Hours)

#### *Æ* COURSE LEARNING OUTCOMES:

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

- 1. Detect the concerns and challenges in adolescent education
- 2. Discuss on the various aspect of Adolescent Education Programme (AEP)
- 3. Analyse the adolescent education programme, approaches, strategies and implementation.
- 4. Determine the suitable pedagogical approach to adolescents education
- 5. Develops different innovative strategies for adolescent education.
- 6. Integrate different life skills for adolescent education
- 7. Examine the role of life skills education in adolescent behavior and teacher student relationship
- 8. Argue the need for sex and health education for adolescents.
- 9. Justify the need for strengthening healthy family relationship

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Recognizes the development during adolescents</li> <li>Identifies the need, concerns and realities of adolescents in India</li> <li>Diagnosis various psycho - physiological related problems</li> </ol>	<ul> <li>1.1 Development during adolescence <ol> <li>1.1.1. Physical,</li> <li>cognitive, social and emotional</li> </ol> </li> <li>1.2 Needs, concerns and realities of adolescents in India.</li> <li>1.3 Psycho-physiological problems – Anxiety,Depression, Suicide</li> </ul>	<ul> <li>Lecture /briefing</li> <li>Group discussion Assignment</li> <li>Brainstorming</li> <li>Case study</li> <li>Seminar and discussion</li> </ul>	<ul> <li>Oral questions</li> <li>Assignment evaluation</li> <li>Case study report</li> <li>Test (written/ oral)</li> <li>Observation of class room behaviour</li> <li>Student's reflective reporting</li> <li>Observation of students/ classes</li> </ul>

#### Unit- I: CONCERNS AND CHALLENGES DURING ADOLESCENCE

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# Unit-II: ADOLESCENCE EDUCATION PROGRAMME

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Discusses on the various aspect of Adolescent Education Programme (AEP)</li> <li>Examines the role of social agencies in adolescents education</li> <li>Supports the capacity building programme for prospective teachers</li> </ol>	<ul> <li>2.1.Adolescence Education <ul> <li>Programme (AEP)</li> <li>2.1.1.Objectives, Content <ul> <li>and Scope</li> </ul> </li> <li>2.2.2.Role of Social <ul> <li>agencies in</li> <li>Adolescence</li> <li>Education-School,</li> <li>Family, Media and</li> <li>Community</li> </ul> </li> <li>2.2.3 Capacity building <ul> <li>for prospective</li> <li>teachers in</li> <li>adolescence</li> <li>education</li> </ul> </li> </ul></li></ul>	<ul> <li>Lecture /briefing</li> <li>Group discussion Assignment</li> <li>Brainstorming</li> <li>Case study</li> <li>Seminar and discussion</li> <li>Role play</li> </ul>	<ul> <li>Oral questions</li> <li>Assignment evaluation</li> <li>Case study report</li> <li>Test (written/ oral)</li> <li>Observation of class room behaviour</li> <li>Student's reflective reporting</li> </ul>

# Unit-III:PEDAGOGICAL APPROACHES TO ADOLESCENCE EDUCATION

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Determines the suitable pedagogical approach to adolescents education</li> <li>Analyses the various approaches for adolescent education</li> </ol>	<ul> <li>3.1 Pedagogical</li> <li>Approaches to <ul> <li>Adolescence</li> <li>Education</li> </ul> </li> <li>1.1.1 Case studies <ul> <li>and critical</li> <li>incidents,</li> </ul> </li> <li>1.1.2 Brainstorming,</li> <li>1.1.3 Role-playing,</li> <li>1.1.4 Buzz groups</li> <li>1.1.5 Gaming,</li> <li>1.1.6 Value <ul> <li>clarifications,</li> <li>1.1.7 Question Box,</li> <li>1.1.8 Discussions and</li> <li>Debates,</li> </ul> </li> <li>1.1.9 Puppet shows,</li> <li>1.1.10 Video shows.</li> <li>1.1.11 situation analysis</li> </ul>	<ul> <li>Lecture /briefing</li> <li>QA session</li> <li>Student observation and reporting</li> <li>Assignment</li> <li>Seminar</li> <li>Peer learning</li> <li>Group discussion</li> </ul>	<ul> <li>Test (written/oral)</li> <li>Assignment evaluation</li> </ul>

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Explains the need, concept and significance of life skills education</li> <li>Integrates different life skills for adolescents education</li> <li>Examines the role of life skills education in adolescent behavior and teacher student relationship.</li> </ol>	<ul> <li>4.1 Need, concept and significance of life skills education</li> <li>4.2 Core life skills, development of life skills</li> <li>4.3 Imparting life skills education – Role play, Debate, casestudy, Quiz, Group discussion</li> <li>4.4 Role of life skills education in adolescent behaviour, Teacher student relationship.</li> </ul>	<ul> <li>Lecture /briefing</li> <li>QA session</li> <li>Assignment</li> <li>Seminar</li> <li>Peer learning</li> <li>Group discussion</li> <li>Role play</li> </ul>	<ul> <li>Test (written/oral)</li> <li>Assignment evaluation</li> </ul>

# **Unit- IV: LIFE SKILLS EDUCATION FOR ADOLESENTS**

#### **Unit- V: REPRODUCTIVE HEALTH AND FAMILY LIFE EDUCATION**

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Identifies the basic elements of reproductive health during adolescents.</li> <li>Argues the need for sexual health education for adolescents.</li> <li>Justifies the need for strengthening healthy family relationship</li> </ol>	5.2. Sexual health education – need and importance,	<ul> <li>Lecture /briefing</li> <li>Group discussion</li> <li>Extension and field outreach</li> <li>Assignment</li> <li>Seminar</li> <li>Debate</li> <li>Peer learning</li> </ul>	<ul> <li>Class test</li> <li>Assignment evaluation</li> <li>Observation of classes</li> <li>Field levelobservatio nandreporting</li> </ul>

#### **SUGGESTED ACTIVITIES** (any two)

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

#### **PRESCRIBED READINGS**

- Arora, Pankaj. (2008). Sex Education in Schools. New Delhi: Ocean Books 1. Pvt Ltd.
- 2. CBSE. (1999). Population and Adolescent Education-ATrainingPackage. NewDelhi.
- Choudhary, G. B. (2014). Adolescence Education. New Delhi: PHI Learning 3. Pvt. Limited.
- Department of Education & State AIDS Control Society.(2005). YUVA -4. School Adolescence Education Programme- Handbook for Teachers. NewDelhi.
- Harrison, Jennifer. K., (2000). Sex Education in Secondary Schools. 5. Buckingham Philadephia: Open University Press.
- MHRD (2004). Life Skills Modules, Adolescence Education Programme. 6. 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.
- 8. Prabhu, Vithal, (1998). Sex Education to Adolescence: With Guidelines for Program/ Curriculam; Mumbai: Majestic Prakashan.
- 9. Sahni. K. (2014). Problems of Adolescence. Delhi: Parent Teacher Association of India.
- 10. Sharma, Neeraja. (2011). UnderstandingAdolescents. Delhi: National Book Trust of India.
- 11. Verma, Suman., & Saraswathi. T. S. (2002). Adolescence in India. New Delhi: Rawat Publications.

#### **USUGGESTED READINGS**

- 1. Harrison, Jennifer. K. (2000). Sex Education in Secondary Schools; Buckingham Philadephia: Open University Press.
- 2. MHRD, NACO and UNICEF (2005). Growing up in a World with HIV/AIDS, FAQ Booklets for students, Adolescence Education Programme.
- 3. NCERT &NACO (1994). AIDS Education in School: A Training Package. New Delhi: NCRT.
- 4. NCERT.(2005). Adolescence Education in Schools Life skills Development General Framework.New Delhi: Department of Education in Social Science and Humanities.
- 5. UNESCO (1991). Adolescence Education. Bank ok: UNESCO Principal Regional Office for Asia and the Pacific.
- 6. UNESCO (2001). Life Skills on Adolescence Education Reproductive Health. Bank ok: UNESCO Principal Regional Office for Asia and the Pacific.

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N.V.K,S.D. College of Education (Autonomous), Attoor.

Course Code: BED4EC003

Elective Course

#### B .Ed. Degree Programme Semester-IV ENVIRONMENTAL EDUCATION

(4 Credits-120 Hours)

#### *K* COURSE LEARNING OUTCOMES:

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

- 1. Describe the historical background and concept of Environmental Education.
- 2. Diagnose the need and scope of Environmental Education
- 3. Enumerate the approaches of teaching Environmental Education
- 4. Evaluate the problems associated with natural resources
- 5. Adopt the role of an individual in conservation of natural resources
- 6. Propose the control measures for pollution.
- 7. Investigate the environmental management initiatives.
- 8. Summarize the meaning and need for sustainable development
- 9. Imitate sustainable environmental practices
- 10. Justify the need for Environmental Education in school curriculum

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Describes the historical background and concept of Environmental Education.</li> <li>Enumerates the objectives and principles of Environmental Education</li> <li>Diagnoses the need and scope of Environmental Education</li> <li>Distinguishes the approaches of teaching environmental education</li> </ol>	<ul> <li>1.1 Environmental Education: Historical background, Concept, Meaning and Definition</li> <li>1.2 Need, Objectives, Principles and Scope</li> <li>1.3 Approachesof teaching Environmental Education (Multidisciplinary and Inter disciplinary).</li> </ul>	<ul> <li>Small group discussion</li> <li>Digital presentation</li> <li>Meaningful verbal discourse</li> <li>Peer learning</li> <li>Self-study</li> <li>Reflective practices</li> </ul>	<ul> <li>Assignment</li> <li>Document analysis</li> <li>Report</li> <li>QA session</li> <li>Observation</li> <li>Test</li> </ul>

#### **Unit- I: FUNDAMENTALS OF ENVIRONMENTAL EDUCATION**

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Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>States the definition and importance of natural resources</li> <li>Examines the types of natural resources and problems associated with them.</li> <li>Formulates the control measures to prevent the problems</li> <li>Adopts the role of an individual in conservation of natural resources affective</li> <li>Infers the role of environmental education during Covid-19 pandemic</li> </ol>	<ul> <li>2.1.Natural resources – meaning, definition and importance.</li> <li>2.2 Types of resources (Forest, Land, Water Mineral, Food and Energy resources)</li> <li>2.3.Problems associated with different types of natural resources – their prevention</li> <li>2.4 Role of individual in conservation of natural resources.</li> <li>2.5 Role of environmental education in response to the COVID-19 pandemic.</li> </ul>	<ul> <li>Narrative expression sessions</li> <li>Role Play/Skit</li> <li>Field visit</li> <li>Multimedia approach.</li> <li>Cooperative</li> <li>learning</li> <li>Invited talk</li> </ul>	<ul> <li>Participation in group activity</li> <li>Report</li> <li>Quiz</li> <li>Document</li> <li>Test</li> </ul>

# Unit-II:NATURAL RESOURCES AND ASSOCIATED PROBLEMS

	Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1. 2.	Contrasts the different types of pollution Surveys the effects of various types of pollution	<ul> <li>1.1 Pollution : definition,</li> <li>3.1.1 Types (Air,Water, Soil, Noise, Nuclearand light pollution)</li> <li>3.2 Effects and control measures of each type.</li> <li>3.3 Management of</li> </ul>	<ul> <li>Lecture cum</li> <li>discussion</li> <li>Blog Searching</li> <li>Peer instruction</li> <li>Digital</li> </ul>	<ul> <li>Blog Posts</li> <li>Class test</li> <li>Document analysis</li> <li>Seminar presentations</li> <li>Test</li> </ul>
3.	Observes to suggest control measures.	environment: Definition and need 3.4 Initiatives: 3.4.1Environmental legislation, 3.4.2Environmental	<ul><li>Presentation</li><li>Seminar</li><li>Small group discussion</li></ul>	
4.	Complies with the environment management initiatives	Impact Assessment 3.4.3Environmental movements inIndia 3.4.4pollution control board and Green Tribunals	Brainstorming	

# **Unit-III: POLLUTION AND MANAGEMENT INITIATIVES**

# **Unit-IV: SUSTAINABLE DEVELOPMENT AND PRACTICES**

	Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1.	Explains the	4.1 Sustainable	Lecture/briefing	• Report
	concept of	Development:	• Field visit	• Quiz
	sustainable	Meaning, Need,	Multimedia	• Document
	development	4.2 Guiding	approach.	QA session
2.	Outlines the need	Principles.	Cooperative	<ul> <li>Observation</li> </ul>
	for sustainable	4.3 Sustainable	• learning	<ul> <li>Assignment</li> </ul>
	development	Environmental	<ul> <li>Assignment</li> </ul>	evaluation
3.	Imitates	Practices:	Peer learning	
	sustainable	4.3.1 Rain water		
	environmental	Harvesting,		
	practices	4.3.2 Mangroves		
		management,		
		4.3.3 Solid Waste		
		management		

#### Unit-V: ENVIRONMENTAL EDUCATION IN SCHOOL CURRICULUM

	Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1.	Analyses school curriculum for environmental education. Illustrates the innovative methods of teaching environmental education.	<ul> <li>5.1 Environmental education at different levels of school education</li> <li>5.2 Innovative methods of teaching environmental education</li> <li>5.3 Role of school in environmental conservation</li> </ul>	<ul> <li>Lecture cumdiscussion</li> <li>Brainstorming</li> <li>Blog Searching</li> <li>Peer instruction</li> <li>Poster Presentation</li> <li>Assignment Seminar</li> </ul>	<ul> <li>Blog Posts</li> <li>Class test</li> <li>Document analysis</li> <li>Participant observation</li> <li>Posters</li> <li>Seminar presentations</li> </ul>
3.		5.4 Role of NCERT, teachers and media in promoting	<ul> <li>Auto instruction</li> <li>Invited lectures</li> </ul>	
4.	Assesses the role of various agencies in promoting environmental education. Develops evaluation strategies for environmental education.	environmental education 5.5 Role of information technology in human health. 5.6 Evaluation in environmental education-meaning, aims, 5.6.1 Different types of tests for assessment		

#### SUGGESTED ACTIVITIES (any two)

- 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 an activity to establish a butterfly garden or social forest.
- 4. Prepare a time-line chart on environmental policies and programmes in India

#### **PRESCRIBED READING**

- 1. Bhall. S.C.,&Khanna. H. (2007). *Environmental Education*, New Delhi:RegalPublication.
- 2. Bharucha.E.(2005). Text book of Environmental Studies, University Press.
- 3. Capra.F(1999). *Eco-literacy: The Challenge for Next Century*. Liver pool SchumacherLectures.
- 4. Dani.H. M.(1986). *Environmental Education,* Chandigarh:PublicationBureau,PunjabUniversity.
- 5. Joseph Catherine, *Methods of Environmental Education* Hyderabad: Neel KamalPublications.
- 6. Krishnamachayulu.V.,& G.S. Reddy, *Environmental Education*,Hyderabad: Neelkamal publications.
- 7. Kumar.A.(2009). *ATextbookofEnvironmentalScience*.NewDelhi:APHPublishing Corporation.
- 8. Orr. D (1992). Ecological Literacy: *Education and Transition to a PostModernWorlds*. Albany. New York: State University Press.
- 9. Reddy. P. K & Reddy, N. D. (2001). *EnvironmentalEducation*. Hyderabad: Neelkamal publications.
- 10. Sharma. R. A. (2008). *Environmental Education*. Meerut: R.LallBooksDepot.
- 11. Sharma.B. L & Maheswari. B. K. (2008). *Education for Environmental and HumanValue*. Meerut: R.Lall Books Depot.
- 12. Sharma.V. S. (2005). *Environmental Education*. New Delhi: Anmolpublication.
- 13. Singh.Y. K. (2009). *Teaching of Environmental Science*. New Delhi:APH Publishing Corporation.

#### **USUGGESTED READING**

- 1. Brown, Lester.R (2002). *Eco Economy: Building an Economy for Earth,* OrientLongmann.
- 2. Firor, John., & Judith .E.J. (2003). Crowded Green House, UniversityPress.
- 3. Gardner. H.S (2006). Frames of Mind. HarvardUniversityPress.
- 4. Goleman.D. (2010). Ecological Intelligence, Penguin Books, London136.

- 5. Joy.P.,&Neal.P. (1994). *TheHandbook of Environmental Education:* London, New FetterLane.
- 6. Odum. E.P. (1971). Fundamentals of Ecology WBSaunders.
- 7. Speth., & James. G. (2006). *Global Environmental Challenges: Transition to a Sustainable World*, OrientLongmann.
- 8. UNESCO (2005). Draft International Implementation Scheme of the United Nations Decade of Education for Sustainable Development. Doc. 171 ex/7. Paris.UNESCO.
- 9. UNESCO (2006-b). Framework for the UNDESD International Implementation Scheme. ED/ DESD/2006/PI/1. Paris, UNESCO.

Course Code:BED4EC004

Elective Course

# B.Ed. Degree Programme Semester–IV PHYSICAL AND HEALTH EDUCATION

(4 Credits - 120 Hours)

# *⊯* COURSE LEARNING OUTCOMES:

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

- 1. Explain the meaning, need and importance of physical education
- 2. Combines the methods of imparting health education in schools
- 3. Demonstrate exercise for maintaining good physical and mental health.
- 4. Formulate concepts regarding the importance of safety education
- 5. Correlate different postures and its benefits
- 6. Demonstrate first aid in appropriate situation
- 7. Analyse the significance of food and nutrition
- 8. Prepare a chart on various communicable diseases and their remedies.

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Explains the meaning, need and importance of physical education</li> <li>Differentiates intramural and extramural competitions</li> <li>Prepares a list of activities for physical fitness</li> </ol>	<ul> <li>1.1 Physical Education</li> <li>1.1.1 Meaning Definition</li> <li>1.1.2 Aim andObjectives</li> <li>1.1.3 Need and importance</li> <li>1.1.4 Methods of teaching physical activities</li> <li>1.1.5 Intramural and Extramural Competitions – Meaning, Definition.</li> <li>1.1.6 Knock-out and League tournament</li> </ul>	<ul> <li>Briefing/Lecture</li> <li>Visual Presentation</li> <li>Lecture</li> <li>Group Discussions/ activities</li> <li>Demonstration and practice</li> </ul>	<ul> <li>Test (Oral/ written)</li> <li>Projects</li> <li>Assignments</li> </ul>

#### **Unit- I:INTRODUCTIONTO PHYSICAL EDUCATION**

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1.2	Physical Fitness	
1	.2.1 Definition,	
	Components and	
	Health	
	relatedPhysical	
	fitness	
1	.2.2 Activities for	
	development of	
	physical fitness	
1	.2.3 Components and	
	benefits	
	ofPhysical fitness	

# **Unit- II: HEALTH EDUCATION**

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Defines health education</li> <li>Identifies the fundamentals of health education</li> <li>Combines the methods of imparting health education in schools</li> <li>Demonstrates exercise for maintaining good physical and mental health.</li> </ol>	<ul> <li>2.1 Health education: meaning, definition,</li> <li>2.1.1 Importance .</li> <li>and scope of</li> <li>healtheducation</li> <li>2.1.2 Aims and</li> <li>objectives of</li> <li>health education</li> <li>2.1.3 Methods of</li> <li>imparting</li> <li>Health Education in</li> <li>School –Health</li> <li>instruction –</li> <li>Health Service</li> <li>Health Supervision</li> <li>2.2.1 Factors affecting</li> <li>health</li> <li>2.2.2 Effects of exercise on</li> <li>muscular, circulatory,</li> <li>Digestive and</li> <li>Nervoussystems.</li> <li>2.2.3 Hygiene – Health</li> </ul>	<ul> <li>Briefing/Lecture</li> <li>Demonstratio n and practice</li> <li>Presentations in small groups</li> <li>Debate and Discussion</li> <li>Survey related to safety education in a near by town/village</li> <li>Theoretical presentation</li> </ul>	<ul> <li>Test (Oral / written)</li> <li>Health practices of students</li> <li>Participant observation</li> <li>Reports</li> <li>Visit to primary health centre and reporting</li> </ul>

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Learning	Content	Suggested	Assessment
Outcomes		Strategies and	1255055110111
1 Earnaulataa	2.1 Desture	Approaches	
	<ul> <li>3.1 Posture <ul> <li>3.1.1 Meaning and <ul> <li>Importance of</li> <li>posture</li> <li>3.1.2 Types of posture</li> <li>3.1.3Kyphosis,Lordosis,</li> <li>Scoliosis,Knock-</li> <li>Kneeand Flat-Foot.</li> <li>3.1.4 Causes and</li> <li>Prevention</li> </ul> </li> <li>1.2 Safety Education <ul> <li>1.2 Safety Education</li> <li>1.2.1 Significance and</li> <li>meaning</li> </ul> </li> <li>3.2.2 Importance of <ul> <li>safety education</li> </ul> </li> <li>3.2.3 Road Safety , <ul> <li>School,College,Cla</li> <li>ssroom and Play</li> <li>ground</li> </ul> </li> <li>3.3 First – aid <ul> <li>3.3.1 Meaning,</li> <li>Definition,</li> <li>Principles, Need</li> <li>and importance of</li> <li>first-aid</li> <li>3.3.2 First-aid in</li> <li>different cases</li> </ul> </li> <li>3.3 Management of <ul> <li>fracture,</li> <li>Dislocation,</li> </ul> </li> <li>Wounds, Sprain,</li> </ul> </li> <li>Strain, Cramp,</li> <li>Fainting, Burns,</li> <li>etc.</li> </ul>	<ul> <li>Briefing/Lecture</li> <li>Demonstration and practice</li> <li>Presentations in small groups</li> <li>Debate and Discussion</li> <li>Survey related to safety education in a near by town/village</li> <li>Theoretical presentation</li> </ul>	<ul> <li>Test (Oral / written)</li> <li>Health practices of students</li> <li>Participant observation</li> <li>Reports</li> <li>Visit to primary health centre and reporting</li> </ul>

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

# Unit- IV: FOOD AND NUTRITION

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Analyses the significance of food and nutrition</li> <li>Debates on the different nutritious products for good health</li> <li>Evaluates the vitamin conter of food products</li> <li>Prepares a list diet that cause obesity and healthy</li> </ol>	Nutrition 4.1.2.Microand Macro Nutrients 4.1.3.Carbohydrates, Protein,Fat, Vitamins,Minerals, Water &Fiber t 4.1.4.Balanced diet 4.1.5.Vitamindeficiency diseases	<ul> <li>Narrative expressions</li> <li>Survey</li> <li>Debate</li> <li>QA session</li> <li>Experts Talk</li> <li>Demonstration</li> <li>Digital Presentations</li> <li>Group activity</li> <li>Verbal presentation</li> <li>Preparation of database</li> </ul>	<ul> <li>Test (Oral/ Written) reports</li> <li>Quiz</li> <li>Group presentation</li> <li>Discussions</li> <li>Tests</li> <li>Awareness campaign.</li> </ul>

# Unit- V: COMMUNICABLE DISEASES AND LIFESTYLE DISORDER

	Learning Outcomes	Content		Suggested Strategies and Approaches	Assessment
	different communicable diseases and lifestyle disorders Categorizes different types of communicable diseases	<ul> <li>5.1 Communicable diseases</li> <li>5.1.1Communicable diseases-definition and meaning</li> <li>5.1.2Malaria, Typhoid, Tuberculosis, Cholera, Diarrhea HIV /AIDS andCOVID-</li> <li>10 Sumptome</li> </ul>	• • •	Debate QA session Experts Talk Demonstration Digital Presentations Group activity	<ul> <li>Test (Oral/ Written) reports</li> <li>Quiz</li> <li>Group presentation</li> <li>Discussions</li> <li>Tests</li> <li>Awareness campaign.</li> </ul>
5.	style diseases	19,Symptoms,	•	Verbal	

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with proper	causes and	presentation	
precautions.		presentation	
precautions.	prevention	• Preparation of	
	Lifestyle disorder and	database	
	their management		
	(Obesity,		
	Hypertension,		
	Diabetes Heart		
	Attack and Ulcer)		

#### SUGGESTED ACTIVITIES (any two)

- 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 any three communicable diseases
- 4. Prepare a report on first aid

# **PRESCRIBED READING**

- 1. Ashwani, Bhardwaj. (2012). A Complete Guide to Family Safety and First-Aid.New Delhi: Goodwill Publishing House.
- 2. Chaube S.P.,&Akhilesh,Chaube (2003). *School Hygiene and Health Education*.Agra: VinodPustakMandir.
- 3. Goel.S.L. (2007).*Health Education Theory and Practice*. New Delhi: Deep and Deep Publications.
- 4. Krishnammal.T. (2013).*Physical and Health Education*. Madurai:PriyakamalPublications.
- 5. Mangal, S.K. (1978). *Health and Physical Education*. Jullundur: Parkash Brothers EducationalPublishers.
- 6. Ravi, Saxena. (2005).*Health and Physical Education*. New Delhi: Anmolpublications.
- 7. Venkataiah.S. (2004). Physical Education. New Delhi: Anmolpublications.

# **USUGGESTED READINGS**

- 1. Achaya .K.T.(1975). Your Food and You. New York, (NY): National BookTrust.
- 2. Arnold Gesell(1988). Psychiatry and Modern Life. New York: Sterling

Publishers privatelimited.

- 3. Auscter, David.,&Jean,pyfer. (1985). *Principles and Methods of Adapted Physical Educationand Recreation*. Moscow: MosbyPublishers.
- 4. Clarke.H.David. (1975). Exercise Physiology. New Jercy: Prentice HallINC.

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Course Code:BED4EC005

Elective Course

# B.Ed. Degree Programme Semester-IV LIBRARY AND INFORMATION SCIENCE IN EDUCATION (4 Credits-120 Hours)

# *⊯* COURSE LEARNING OUTCOMES:

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

- 1. Trace the development of library from ancient days to contemporary era
- 2. Estimates the nature and purpose of different types of library
- 3. Analyse the feasibility of different information sources in teaching learning process
- 4. Apply various electronic and web learning resources.
- 5. Appraises information services
- 6. Use the education and information literacy retrieval techniques
- 7. Decide the context of bibliographical citation and reference writing
- 8. Adapt resource sharing and library mechanisms
- 9. Identify the major activities of inflibnet.

# **Unit- I: EMERGING CONCEPT OF LIBRARIES IN EDUCATION**

	Learning	Content	Suggested	Assessment
	Outcomes		Strategies and	
			Approaches	
1.	Analyses the	1.1 Library–meaning,	<ul> <li>Lecture</li> </ul>	<ul> <li>Assignment</li> </ul>
	development of	definition	<ul> <li>Assignment</li> </ul>	evaluation
	library from	1.2 Transformation of	Group	• Test
	ancient days to	manuscript to	Discussion	(written/oral)
	contemporary	digital and virtual	QA Session	Seminar
	era	libraries		presentation
2.	Classifiesthe	1.3 Five laws of		
	five laws of	library science.		
	library science	1.4 Types of Library		
	and types of	1.4.1. Public		
	libraries	Library		
		1.4.2. Academic		
		Library		

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1.4.3. Special	
Library	
1.4.4. Digital	
Library	
1.4.5. Virtual	
library	

# **Unit- II: INFORMATION SOURCES**

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Classifies information sources</li> <li>Implementsth e knowledge of various e- resources and their effectiveness</li> </ol>	<ul> <li>2.1 Information Sources- definition</li> <li>2.2 Types of Information Sources <ol> <li>Documentary</li> <li>Sources</li> <li>Primary</li> <li>Sources</li> <li>Secondary</li> <li>Sources</li> <li>Tertiary</li> <li>Tertiary</li> <li>Sources</li> </ol> </li> <li>2.2.2. Non <ul> <li>Documentary</li> <li>Sources</li> </ul> </li> <li>2.3 Electronic/Web <ul> <li>Learning Resources</li> <li>2.3.1 e-journals</li> <li>2.3.2 e-books</li> <li>2.3.3 Scopus, web of</li> <li>science and Eric</li> <li>databases</li> </ul> </li> </ul>	<ul> <li>Lecture</li> <li>Group discussion</li> <li>Assignment</li> <li>QA session</li> <li>College Library Visit and Classification of Sources</li> </ul>	<ul> <li>Assignment evaluation</li> <li>Test (written/oral)</li> <li>Seminar presentations</li> </ul>

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# **Unit- III: INFORMATION SERVICES**

	Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1.	Categorizes	3.1 Types of Information	Lecture	• Quiz
	the various	services	QA session	• Test(Writte
	types of	3.1.1 Current Awareness	<ul> <li>Digital and</li> </ul>	n/Oral)
	information	Service	visual	• Assignment
	services based	3.1.2.SelectiveDissemination	presentation	Evaluation
	on their	of Information	Group	
	purpose	3.1.3 Reprographic Service	Discussion	
		3.1.4. Translation Service		
		3.1.5. Indexing and		
		Abstracting Service		

# **Unit- IV: INFORMATION LITERACY AND RETRIEVAL TECHNIQUES**

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Describesthe user education and information literacy</li> <li>Appraisesthe role of ICT in modern libraries</li> <li>Explains Search engine</li> <li>Practices Boolean operators</li> <li>Differentiates bibliography and references</li> <li>Classifies the</li> </ol>	<ul> <li>4.1 User Education and Information Literacy</li> <li>4.2 Role of InformationCommunica tion Technology in modern libraries</li> <li>4.3 Search engines</li> <li>4.4 Information Retrieval Techniques Boolean operators and its role in information retrieval.</li> <li>4.5 Bibliography and References</li> <li>4.6 Reference styles - American Psychological Association and MLA (Modern Language Association System)</li> </ul>	<ul> <li>Lecture</li> <li>Assignment</li> <li>Digital and visual presentation</li> <li>Group discussion</li> <li>College e-library visit: demonstration / practical</li> </ul>	<ul> <li>Assignment evaluation</li> <li>Test (written / oral)</li> <li>Seminar presentations</li> </ul>

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different
reference
styles

#### Unit- V: RESOURCE SHARING AND LIBRARY NETWORKING

Learning Outcomes	Content	Suggested Strategies and	Assessment
Outcomes		Approaches	
<ol> <li>Describesres ource sharing</li> <li>Categorizes different types of</li> </ol>	<ul> <li>5.1. Resource Sharing- definition, need and objectives</li> <li>5.2. Types of Library Networks in India</li> <li>5.2.1 Inflibnet and its major activities- N-List,</li> <li>e-Shodhsindhu,</li> </ul>	<ul> <li>Lecture</li> <li>Group discussion</li> <li>College e- library visit: demonstration / practical</li> </ul>	<ul> <li>Assignment evaluation</li> <li>Test(written /Oral)</li> <li>QA session</li> <li>Seminar presentation</li> </ul>
<ul> <li>library networks</li> <li>3. Designs modules on moocs/swayamp rabha and e- pgpathshala</li> <li>4. Examines different Inflibnet sources</li> </ul>	Shodhshuddhi, Shodhganga, Shodgangotri, IRINS-Vidwan Database, , e-Pg Pathshala, Vidyamitra, Ugc- Moocs, Swayam Prabha 5.2.2. ERNET 5.2.3. DELNET 5.2.4. CALIBNET 5.2.5. MALIBNET		

#### SUGGESTED ACTIVITIES (any two)

- 1. Prepare an abstract for an article relevant to your area of specialization.
- 2. Prepare reference list in American Psychological Association (APA) / MLA style.
- 3. Documentation and compilation of website addresses relevant to the area of teacher education.

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4. Write a review on any five books you read

#### **PRESCRIBED READING**

- 1. Dhiman.A.K.,& Rani, yashoda. (2005). *Information and Reference Sources andServices*.New Delhi: EssEss publications.
- 2. Dhiman.A.K.,&Sinha.S.C (2002). *Academic Libraries*. New Delhi: EssEssPublications.
- 3. Jain.M.K. (2006). *Teaching Learning: Library and InformationServices*.New Delhi: Shipra publications.
- 4. Jagdish.S. Sharma.,&Grover.D.R. (2004). *Reference Services and Sources ofInformation*.New Delhi: EssEss publications.
- 5. Krishnan,Gopal.(2005). *Digital Libraries in Electronic Information Era*. New Delhi:Authors press.
- 6. Kumar, Krishna. (2007). *Library M-Management in Electronic Environment*. New Delhi: Har-Anand Publications.
- 7. Kumar, Krishana (1996). *Reference service*. New Delhi: EssEssPublications.
- 8. Mittal R.L.(1984). *Library Administration: Theory and Practice*. New Delhi: EssEsspublications.
- 9. Galhotra, Mohan Kumar. (2008). *Information Technology in Library and InformationServices*.New Delhi: EssEss publications.
- 10. Ranganathan. S.R. (2006). *The Five Laws of Library Science*. Bangalore: SaradaRanganathan Endowment for libraryscience.
- 11. Savitha Mittal. (2005). *Digital Library Resources*. New Delhi: EssEssPublications.
- 12. Sharma.S.K.(2007). *Information Technology and Library Services*.New Delhi: Shree publishers and distributors.
- 13. Sharma.C.K et.al (2010). E-library. New Delhi: ShreePublishers.
- 14. Sheela.P,Saravanan.P.,&Mary, Lawrence .A. (2017). *Elements of Library and Information Science*. Atoor: N.V.K.S. publications.
- 15. ShriNathSahai (2014). *Academic Library System*. New Delhi: EssEsspublications.

#### **USUGGESTED READINGS**

- 1. Bhatt.R.K.(1995). *History and Development of Libraries in India*. New Delhi: Mittalpublications.
- 2. Chakrabarti.B. (1993). *Library and Information Society*. Calcutta: Worldpress.
- 3. Cheney.F.N., & Williams.W.J. (2000). Fundamentals of Reference Sources.

Chicago:ALA.

- 4. Rajaraman.V.(2007). *Introduction to Information Technology*. New Delhi:Prentice Hall ofIndia.
- 5. Winship.,&Mcnab (2000). *The Students Guide to the Internet*. London: LibraryAssociation.

Course Code: BED4EPC04

Enhancing Professional Capacities

# B.Ed.Semester- IV LIFE SKILLS EDUCATION

(2 Credits-60 Hours)

# *K* COURSE LEARNING OUTCOMES

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

- 1. Identify the core life skills
- 2. Select the suitable strategies for life skills education
- 3. Investigate on emotional capabilities and emotional intelligence.
- 4. Apply the psychological strategies to manage life style related stress
- 5. Organize brain storming on different types of emotions and prepare collages.
- 6. Prepare case study on study skills

#### Content

Core Life Skills Strategies for Life Skill Education

Activities (any five)

#### Activity 1:Self Awareness- Discovering the self

Introspect and list your inner qualities that make you unique.

# Activity 2 Motivation-Identification of strengths and Weakness

identify your strengths, weakness likes and dislikes

# Activity 3. Goal Setting-Preparation of Goal statement

Prepare your goal statement

#### Activity 4.Communication skill-Communicating assertively

Role play the communication styles and evaluate your dominant communication style.

# Activity 5.Interpersonal skills-Relationship Web

Appreciate different kinds of relationship you maintain in your life and suggest from your own experience the healthy relationship recipe.

# Activity 6-Coping with stress-Am I stressed-

Describe the situations of your stress, the symptoms you experienced, the impacts and tips for managing stress that you practically applied.

# Activity 7-Coping with Emotion-Emotion collage

Brainstorm the different types of emotions you experience and present the emotions collage that represent different emotions by pictures/drawings/sketch etc

# Activity 8-Study Skills-Case study

Conduct a Case study on Study skills of your friend.

# Activity 9-Time management-Planner

Create a monthly schedule of your time

Activity 10-Anger Mangement-Control anger before it controls you

Identify 10 tips to tame your temper.

# **Reference Books**

Alka,Wadkar.(2016)*Life Skills for success*.Sage Publications Ltd. UshaRao(2014)*Life Skills*.Himalaya Publications