Course Code: B4CC1826 Core Course

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

(4 Credits-120 Hours)

EX COURSE OBJECTIVES:

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

- 1. realise the significance of cognitive domain oneducation.
- 2. evaluate the thought of thinkers on Education.
- 3. analyse the basic concepts of curriculum.
- 4. identify the determinants and considerations of curriculum construction.
- 5. comprehend the process of curriculum development.

Unit- I: COGNITIVE DOMAIN AND ITS SIGNIFICANCE (Taxonomy)

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Makes distinction between knowledge and information and reason based on epistemological basis of education	1.1 Cognitive Domain – Meaning, significance 1.2 Differentiate between Knowledge andknowing, Informationandknowled ge, 1.3 Types ofknowledge 1.3.1 Local anduniversal 1.3.2 Concrete andabstract 1.3.3 Theoreticala nd practical 1.3.4 Contextual andtextual 1.3.5 Schoolandout of school	LectureBriefingSeminarAssignment	• QASession • Seminar Presentation

Unit- II: CONTRIBUTIONS OF EDUCATORS ON KNOWLEDGE

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Analyses the	2.1 Thoughts of	Lecture - Briefing	• QASession
contributions of	thinkers on knowledge and	Seminar	• Seminar
thinkers on	education	 Assignment 	Presentatio
Knowledge	2.1.1 John Dewey 2. 1.2 Mahatma Gandhi 2.1. 3 Paulo Friere 2.1.4 Rabindranath Tagore 2.1.5. Plato 2.1.6. Martin Buber	Digital presentation	n

Unit- III: CURRICULUM AND ITS MEANING

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Recognise sthe various concepts of curriculum	3.1 Curriculum - Meaning, natureand principles of curriculum 3.2 Types of curriculum: i) subjectcentred, ii)student centred, iii)society centred iv) life centred. 3.3 NeedforCurriculumin schools 3.4 Curriculumandsyllabus 3.5 Core curriculum Vs eclectic curriculum 3.6 Hidden' curriculumVs planned curriculum	 PeerLearning DigitalPresentation 	 Class Test(Written/Or al) Quiz

Unit- IV: CURRICULUM: DETERMINANTS AND CONSIDERATIONS

	Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1.	Recognizes	4.1. Determinants of	PeerLearning	• Class
	with the	curriculum construction	DigitalPresentati	Test(Written/
	determinants	Social, Political,	on	Oral)
	and	Cultural, Geographical, Economic,		• Quiz
	considerations	Technological, and		
	of curriculum	Cultural Determinants		
	construction	4.2 Critical concerns in curriculum		
2.	2. Identifies	construction:		
	theaspirations	4.2.1 Environmental		
	and issues that	concerns 4.2.2 Genderissues		
	influencecurric	4.2.2 Gendenssues concerns		
	ulum.	4.2.3 Inclusiveness		
		4.2.4 Value concernsand		
		issues		
		4.2.5 Socialsensitivity		

Unit- V: CURRICULUM DEVELOPMENT

Learning Outcome	Content	Suggested strategies and Approaches	Assessmen t
 Understandstheproce ss of curriculum development Realizeswiththesupp ort system that enables curriculumtransaction 	5.1 Process of Curriculum Development: Subject- centred,Environment- oriented (incorporating local concerns) Learner-centred 5. 2 Process of curriculum construction.	 Lecture - Briefing Seminar PeerLearnin g Assignment 	QASessio nSeminar Presentatio n

Formulating aims		
andObjectives,		
Criteria for		
selecting		
wledge		
organisingand		
orporating		
knowledge,attitude		
and skills -inter		
relationship of		
subjects		
5.2.1 Selectiona		
nd		
Organisation		
of learning environments.		
5.3 Curriculumtransacti		
on		
5.3.1 Support		
system for \	•	
curriculumtra		
nsaction		
(men and		
material)		
5.4		
Roleandresponsibili		
tiesof teachers in		
curriculum		
development.		
5.4.1.curriculum		
evaluation -		
Need for		
evaluation -		
Feedback		
from learners,		
teachers,		
community,		
and		
administrators		

SUGGESTED ACTIVITIES (Any Two)

- 1. Analysis of any textbook with focus on learning outcome.
- 2. Critical appraisal of the thought of a contemporary Indian thinker on knowledge and education and their presentation.
- 3. Conductofaninterviewwithnational\stateawardees related to education/MLA/MP/Panchayat President/ DEO/ CEO/ academicians and preparation of areport.
- 4. Discuss concerns in curriculum construction and prepare a report.

□PRESCRIBED READINGS

- 1. Mohan.N., & Kamala,Kannan.R. (2016). *Knowledge and curriculum*. Dharasuram: Thiruvaluvar publications.
- 2. Chisholma, Rodrick. M. (1987). *Theory of knowledge*. New Delhi: Prentice hall of India Pvt.
- 3. Vashist.S.R. (2004). *The theory of curriculum*. New Delhi: Anmol publicationpyt.
- 4. Mirnalini.T (2007). *Curriculum development*. Hyderabad: Neelkamal publicationspvt. Ltd.
- 5. Acharya.P. (1996). *Indigenous Education and BrahminicalHegemony*.

□SUGGESTED 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). Ball ShikshamaurShikshak Bikaner: 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 Thinkerson.Education from Confucius to Dewey. USA: Routledge.
- 6. Badheka.G. (1999). *Montessori Paddhati*. Chapter 5: Montessori Shalaka. *Vatavaran. Bikaner*: VaagdeviPrakashan.
- 7. 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.
- 10. 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 andmodel Routledge.
- 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. Sykes.M. (1987). The story of NaiTalim. Wardha: NaiTalimSamiti.
 - 17. Tagore.R. (2003). *Civilization and progress*. In Crisis in civilization and other Essays. New Delhi: Rupa&co.
- 18. The PROBE Team. (1999). Public report on basic education in India.

Delhi:Oxford.

19. NCERT (2014). *Basics in Education-Textbook for B. Ed. Course*. New Delhi:NCERT.

Course code: B4CC1827 Core Course

B.Ed. Degree Programme

Semester- IV

GENDER JUSTICE AND INCLUSIVE EDUCATION

(4 Credits – 120 Hours)

COURSE OBJECTIVES:

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

- 1. develop understanding about meaning and significance of Inclusive education
- 2. analyze the diversity among the differently abled and policies for them
- 3. appreciate the practices needed to create an inclusive school by addressing learners' diversity
- 4. develop basic understanding of gender related concepts, gender identity and socialization process.
- 5. understand the role of schools, peers, teachers, curriculum and text books in challenging gender inequalities / reinforcing gender parity
- 6. analyze the gender issues in the society

Unit- I: UNDERSTANDING INCLUSIVE EDUCATION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Distinguishes psychological, socio- cultural, economic, emotional diversity and learning difficulties. Identifies the historical background of inclusive education. Expresses the concept of inclusion Distinguishes inclusive, integrated and segregated education Appraises the need for inclusive schools Examines strengths and limitations of inclusive schools 	1.1 Diversity—gender — culture and language —marginalized—economic disparities—special ability groups, children with social, emotional and behavioural difficulties, Specific learning difficulties. 1.2 Diversity and inclusion in education 1.3 Historical perspective of inclusive education.—From exclusion to inclusion. 1.4 Concept, meaning and definition of inclusion 1.5 Understanding the Difference: Inclusive, Integrated and segregated Education. 1.6 Need and importance of inclusive school in view of Right to Education in India 1.7 Inclusive schools—strength sand limitations	Netsurfing Field visit	 Observation QA session Class test Analysis of digital document Report Assignment

Unit-II: DIVERSITY AMONG DIFFERENTLY ABLED, POLICIES AND LEGISLATIONS

Learning Outcome	Content	Suggested Strategies and Approach es	Assessment
 Interprets physically and mentally differently abled. Appraises policy and legislative framework s promoting inclusion Outline services and programm es available for differently abled. 	 Children with sensory and speech disabilities, Visual impairment, Hearing and Speechimpairment: Nature, Needs, Assessment, Intervention and Teaching Strategies. Children with Neuro Developmental Disabilities Intellectual Disability(Cerebral Palsy), Learning Disability and Autism Spectrum Disorder: Nature, Needs, Assessment and Intervention. Children With Loco Motor, and Multiple DisabilitiesNature, Needs, Assessment and Intervention. Constitutional provisions, policies, programmes and acts for the differently abled.SarvaShikshaAbhiyan, Inclusive Education of Differently abled at Secondary Stage (IEDSS)RashtriyaMadhyamikShikshaA bhiyan 	 Lecture Debates Seminar Small group. discussion 	 Observation Assignment Report Test Posts Quiz Seminar presentation Class test

Unit- III: ADDRESSING LEARNERS' DIVERSITY IN SCHOOLS

	Learning Outcome	Content	Suggested strategies and Approaches	Assessment
1.	Analyses the	3.1 Characteristics of inclusive	Lecture	• Report
	cultures and	learning Environment. 3.2 Curriculum	• Group	• Assignments
	practices	adaptation:Concept Need and	Discussion and	 presentation
	needed to	Principles of adaptation.		• Observation
	create an	3.3 Concept of resource teacher	Presentation	 Class test
	inclusive	parents and communities in	• Panel	
	School.	schools.Resource	Discussion	
2.	Recognizes	Mobilization, Collaborating with other Professionals,	• Debates	
	instructional	Collaborating with other	 Seminar 	
	strategies and	Institutions ,Parents and	Small group	
	school	Community as Resources		
	support to	3.4 Strategies for Dealing with		
	create	Diversity in the Classroom:		
		Individualized		
	inclusive	3.5 Educational Plan (IEP),		
	learning	Universal Design for Learning (UDL) and		
	environment.	Differentiated Instruction		
3	Identifies	(DI) Collaborative		
<i>J</i> .		teaching,		
	alternative	3.6 Aids, Appliances and		
4	means for	Information		
4	assessment	CommunicationTechnology(I		
	and remedies	CT) for Students with Special		
	in inclusive	Needs		
		3.7 Alternative means for		
	classrooms	assessment and evaluation in		
		inclusive classrooms,		
		monitoring and remedies,		
		learner support- Technological		
		assistive and adaptive devices.		

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

Learning Outcome		Content	Suggested Strategies and Approaches	Assessment
1. Recognizes the	1.1	Concept of gender	• Lecture	• Seminar
differences between		and transgender.	• Discussion	Presentations
sex and gender		Difference between gender and sex	Class Seminar	• Report
2. Explains Gender		Gender related		• Test(oral /
related concepts		concepts: patriarchy,		written)
3. Identifies gender roles		matriarchy,masculini ty, equity and		
4. Explains the gender identity and	1.2	equality, sexuality. Gender role: Gender		
,		roles in family, caste, class, religion,		
socialization process		culture and media		
5. Recognises the role	1.3	Gender Identity and		
of agencies in		Socialization		
gender identity and		Practices: Role of		
socialisation		Family, School, peer		
6. Analyses gender		group, community and Media		
issues	14	Gender Issues:		
7. Analyses		Gender bias, gender		
stereotyping		stereotyping, and		
8. Examines gender		gender inequalities.		
based violence		Reasons for gender inequalities		
9. Analyses the female	1.5	Gender-based		
body objectification		violence (GBV)		
10. Analyses gender		Violence Against		
stereo types in mass		women in Indian		
media		society. Offences against women and		
media		girls		

1.6	Meaning and	
	concept of body	
	objectification -	
	Combating female	
	body objectification:	
1.7	Gender stereotypes in	
	mass	
	mediaobjectification	
	offemale body-	
	propagation of popular	
	beliefs through	
	media.	

Unit- V: GENDER DISCRIMINATION AND PARITY IN EDUCATION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Discusses gender discriminations in education 2. Reviews textbooks and curriculum 3. Identifies the ways and means to achieve gender equality and parity	2.1 Gender discriminations in education: school facilities, environment, class room interactions, rituals and school/ routines, curriculum, textbooks, pedagogy, Discipline, parents and teachers attitude 2.2 Influence of education on gender equality. Gender fair school environment, access to basic amenities and other instructional resources to girls- measures to gender equality. Role of school, parents, peers, teachers, curriculum and textbooks in reinforcing gender parity. 2.3 Gender Parity in	• Lecture • Group Discussion and Presentation • Document analysis • Panel Discussion • Debates • Seminar • Discussion • Assignment • Group discussion • Small group session	 Document
	education: ways to achieve; women		

access to and	
participation in	
education:	
MahilaSamakhya,	
National Program	
for Education of	
Girls at Elementary	
Level (NPEGEL),	
Kasturba Gandhi	
BalikaVidyalaya	
(KGBV)	

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. Bharat, Singh.(2008). *Modern teaching of exceptional children*. New Delhi: Anmol Publications.
- 3. Chakraborty, Asok, Bhattacharjee, Amitetal. (2013). *Principlesofmanagementinemploymentof persons with mental retardation*. New Delhi: Kanishka Publishers.
- 4. Chintamani, Kar. (2008). *Exceptional children their psychology and education*. New Delhi: Sterling Publishers.
- 5. Dash.M.(2007). *Education of exceptional children*. New Delhi: Atlantic Publishers & Distributors.
- 6. Bender.W.N. Learning Disability, Allyn.,& Bacon, Simon & Schuster, 1995, Boston London.

- 7. Vijayan, Premavathy., & Victoria. G. (Eds.). Education of visually impaired children with additional disabilities. New Delhi: Kanishka Publishers.
- 8. Dharma Raja. B. William., &Kumar, Praveen S. (2011). *Special education:* Focuson mathematics learning disability. New Delhi: APH Publishing Corporation.
- 9. Bhasin, Kamla. (2000). *Understanding Gender*. New Delhi: Kali for Women.
- 10. Bhasin, Kamla. (2004). *Exploring Masculinity*. New Delhi. Women Unlimited.
- 11. Byerly.C.M.(2011). *Global report on the status of women in the news media*. Washin gtonDC: International Women's Media Foundation.
- 12. Carole Brugeiles., & Sylvie Cromer. (2009). Promoting gender equality through text books. Paris: UNESCO Publications Division.
- 13. Kosut, Mary. (2012). *Encyclopedia of gender in media*. New Delhi: Sage Publications.
- 14. NCERT. (2006). *Gender Issues in Education*. New Delhi: Publications Division.
- 15. NCERT (2005). National Curriculum Framework. New Delhi: NCERT.
- 16. NCERT (2006). Gender Issues in Education, Position Paper. New Delhi: NCERT.
- 17. MHRD.(2000). Bringing Girls Centre stage: Strategies and Interventions for Girls Education in DPEP. New Delhi: MHRD.
- 18. Mohanty.,&Manoranjan.(2004). (Eds.), *Class, Caste, Gender*. New Delhi: Sage.
- 19. Rege, Sharmila. (2003). Sociology of Gender. New Delhi: Sage.
- 20. Report of the CABE.(2005) .Committee on Girl's Education and the common School System. New Delhi: MHRD.
- 21. Sharma. K. K., & Punam Miglani. (2016). *Gender, school and society*. Patiala: Twenty first century publications.
- 22. ThompsonAudrey.(2003). CaringinContext: FourFeministTheoriesonGendera nd Education, Curriculum Inquiry, Vol. 33, No. 1 (spring, 2003), pp.9-65.

□SUGGESTED READINGS

1. Berdine.W. H.,&Blackhurst. A. E.(eds.). *An Introduction to Special Education*, HarpersCollins Publishers, Boston1980.

- 2. Dunn.L&Bay.D. M (ed.). *Exceptional Children in the Schools*, New York: Holt, Rinehart, Winston.
- 3. Hallahar.D.P.,&Kauffman.J.M. (n.d.). *Exceptional Children: Introduction to Special Education*, Allyn., & Bacon, Massachusetts, 1991.
- 4. Hewett,Frank.M.,
 .&ForenessSteven.R., Education of Exceptional Learners, Allyn&Bacon,
 Masachusetts, 1984.
- 5. Jorden, Thomes E. (n.d.). The Exceptional Child, Ohio: Merrill.
- 6. Kirk.S.A.,&GallagherJ.J., *Education of Exceptional Children*; Houghton Mifflin Co., Boston, 1989.
- 7. Magnifico.L.X: Education of the Exceptional Child, New York: Longman.
- 8. National Policy on Education (1986, 1992), MHRD, GOI, Delhi
- 9. Shanker, Udey: Exceptional Children, Jullundur: Sterling Publications.
- 10. Singh, N.NandBeale.I.L.(eds.). *Learning Disabilities* Nature, Theory and Treatment Spring-Verlag, New York, Inc: 1992.
- 11. Smith.C.R, Learning Disabilities the interaction of Learner, Task and Setting. Allyn & Bacon, Massachusetts, 1991.
- 12. UNESCO (1994). The Salamanca statement and framework for action on special needs education. Paris.
- 13. FredrickLuicAldama.(2005). *Brownonbrown: Chicapolarepresentationsofgend er, sexuality, and ethnicity.* University of Texas Press.
- 14. Hurlock, Elizabeth.B.(1974) *Personality development*. New Delhi: McGraw Hil Education.
- 15. Jayaraman, Chindai (2016). *Understanding the schools*. Chennai: VinodhPublishers.
- 16. Kata Rousmaiere, Kari Dehli., &Ning De Conink Smith. (2013). *Disciplince, moral regulations and schooling:* A social history. New York:Routledge.

Course Code: B4PC1828 Pedagogic Course

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

(4 Credits -120 Hours)

COURSE OBJECTIVES:

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

- 1. appreciate new developments in BiologicalScience.
- 2. apply the knowledge of various teaching models for teaching Biological science.
- 3. develop skill in selecting appropriate innovative strategies to transact the content.
- 4. develop techno pedagogicalskills.
- 5. develop the competencies required for a Biology teacher

Unit- I: NEW DEVELOPMENTS IN BIOLOGICAL SCIENCE

	Learning Outcome		Content	Suggested Strategies and Approaches		Assessment
1.	Realizesthesignifica		Biotechnology	• Lecture	•	Tests
	nce ofnewdevelopmentsi n BiologicalScience	1.3 1.4 1.5	Nanobiotechnology Populationgenetics GeneticEngineering GeneCloning Conservation	 Discussion Digitalpresentation Peerlearning. Seminar Assignments 	•	(written/oral) Reportwriting Seminar presentatio n Projects. Assignme nt evaluation

resources	

Unit- II: MODELS OF TEACHING

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Identifies various teaching models for teaching Biological Science 2. Prepares lesson plans basedonmode lsof teaching	 2.1 Models of teaching – elementsand functions. 2.2 ConceptAttainmentmodel 2.3 Advance organizermodel 2.4 Inquiry trainingmodel 	 Lecture Discussion Digitalpresentation Interactivelearning Lessonplan preparation 	 Tests (written/oral) Observation Lesson transcript/ plan

UNIT-III: EMERGING STRATEGIES FOR TEACHING BIOLOGICAL SCIENCE

Learning	Content	Suggested	Assessment
outcomes		Strategies and	
		Approaches	

1.	Identifies	3.1 Co-operativelearning	Briefing/lecture	• Test
	various	3.2 Collaborativelearning	 Groupdiscussion 	(written/oral)
	innovative	3.3 Conceptmapping	 Peerlearning 	Observation
	strategies	3.4 Brain basedlearning	• BrainStorming	• Seminar
2.	Selects	3.5 Experientiallearning	• Seminar	presentation
	appropriate	3.6 Blendedlearning	 Participatory 	
	innovative	3.7 E-learning	Learning	
	strategies to			
	transact			
	thecontent			

Unit- IV: TECHNO PEDAGOGIC CONTENT KNOWLEDGE

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Identifies ways and meanstolinktechnol ogy to pedagogic content knowledge. Prepares ablog 		 Briefing/lecture Discussion InteractiveLearning Digitalpresentation Hands on Experience 	 Test (written/oral) Observation Blogcreation

Unit-V: PROFESSIONAL DEVELOPMENT OF BIOLOGY TEACHERS

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Identifies the qualities of a Biologyteac her Recognizest he measures for the professional development of Science Teachers. 	5.1. Qualities of a Biology teacher 5.1.1 Academic and professional qualification 5.1.2. Professional Competencies – soft skills, Technologi cal skill 5.2. Professionaldevelopm entof Biologyteachers 5.2.1 In-service training 5.2.2. Summer institutes	 Lecture Discussion Interactivelearnin g Seminar Assignment Autoinstruction 	 Tests (written/oral) Seminar presentation Assignment evaluation Report writing

SUGGESTED ACTIVITIES (Any Two)

- 1. Prepare a concept map on any one topic in BiologicalScience.
- 2. Create a blog in thewebsite.
- 3. Carry out a project in Biology and prepare a project report.
- 4. Prepare a lesson plan based on models of teaching.

MPRESCRIBED READINGS

- 1. Chauhan, S.S (1985). *Innovations in teaching learning process*, Vikas Publishing House, New Delhi.
- 2. Dash, B.N. (2005). *Psychology of teaching learning process*, New Delhi: Dominant Publishers and Distributors.
- 3. Gupta S.K. (1985). *Teaching of physical science in secondary schools*, New Delhi: Sterling Publishing Pvt.Ltd.
- 4. Ignacimuthu, S.(2012). *Biotechnology an Introduction*, New Delhi: Narosa publishinghouse.
- 5. Joyce., B., & Weil (2000). Models of teaching (6thEdn). Boston:

- AllynandBacon.
- 6. Mangal S.K. (1913). *Advanced Educational Psychology*, New Delhi: PHI learning PvtLtd.
- 7. Passi .B.K .(1976).*Becoming a Better Teacher. Microteaching Approach*, Ahmadabad: Sahitya.
- 8. Radha Mohan (2010). *Innovative Science Teaching for Physical Science Teachers*, New Delhi: PHI Learning Pvt. Ltd.
- 9. Sharma R.C (2006).*Modern Science Teaching*, New Delhi, DhanpatRaiPublications.
- 10. Sharma .R.A.(2008). *Technological Foundation of Education*, Meerut: R.Lall BookDepot.
- 11. Singh B.D (2011). Fundamentals of Genetics, Ludhiana: Kalyani Publishers.
- 12. Krishnamacharyalu.V. (2011). *Science Education*, Hyderabad: Neelkamal Publications PvtLtd.

QSUGGESTED READINGS

- 1. Agarwal.S.K(2005). *AdvancedEnvironmentalBiotechnology*.NewDelhi: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 Universitypress.
- 4. Clark, R.C. & R.E. Mayer (2002). *E-learning and the Science of Instruction*, San Francisco: Pfeiffer.
- 5. Foster, L E.(2003). *Medical Nanotechnology: Science, Innovation and Opportunity*. Pearson Education, Upper Saddle River.
- 6. Gosh.T.K.(2005).

 **BiotechnologyinEnvironmentalManagement.Vol1&2,NewDelhi: A.P.H PublishingCorporation.
- 7. Heiss E.D. Obourn. S., & Hoffman C.W. (1985). Modern Science Teaching, NewDelhi.
- 8. Kolb.D.A.(1984). *Experiential Learning; Experience as a source of learning anddevelopment*, Englewood cliffs, NJ: Prentice Hall.

Course Code: B4PC1829Pedagogic Course

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

(4 Credits – 120 Hours)

COURSE OBJECTIVES:

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

- 1. identify the emerging trends in English languageteaching/learning
- 2. design innovative strategies for effective teaching /learningEnglish
- 3. familiarize with the concept of teacher as a techno pedagogue

Unit- I: NEW DEVELOPMENTS IN ENGLISH

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Analyses the emerging developments in English language teaching	1.1 ICT-enabled techniques for teaching /learning English :Film adaptations of literary texts ,Online Vocabulary games,Online Grammar games, Audio podcasts, Pronunciation, Conversation practice, Online learning critique of poems on websites, Exploring text types Online—Descriptive, Narrative, Expository, Argumentative-	 VisualPresentation e-learning SmallGroup Discussion Seminar 	 write- up submitted after analysingemerging e-learning techniques Role performance analysis seminar presentation

Neuro-linguistic Programming	С

Unit- II: PREPARATION OF INNOVATIVE STRATEGIES

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Analyses the significance of preparing innovative strategies.	2.1 Programmed Instruction- meaning,types (Linear,Branching) preparation of Instructionalmodul es 2.2 Computer Assisted LanguageLearnin g 2.3 Preparation ofinnovative strategies forlanguagelearni ng	 Lecture GroupDiscussion Presentationof Samples 	• QASession • Role performanc e analysis

Unit- III: TECHNO-PEDAGOGIC CONTENT KNOWLEDGE

Learning Content Suggested Outcome Strategies and Approaches
--

1. Familiarizes the conceptsofteac heras Technopedagogue Samiliarizes the conceptsofteac heras Technopedagogue	
---	--

Unit- IV:MEDIA AND ENGLISH LANGUAGE LEARNING

Learning	Content	Suggested	Assessment
Outcome		Strategies	
		and	
		Approaches	

1. analyses role and relevance of media in Englishlanguaget eaching and learning	4.1 Role and relevance of media inEnglishlanguagetea ching-learning 4.2 Technology in	 GroupDiscussi on Demonstratio	• Assignm ent Analysis
Carming	English language learning: 4.2.1 Virtual learning	SmartClassro	• Test (oral/Written
	mobile learning, Blended	om • Assignment) • Role
	learning online learning, blog		performance analysis
	creation, preparationofdi gitallesson plans	65	

Unit - V: BACKGROUND TEXT: PREPARING FOR COMMUNICATION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
5.1. Develops knowledge in using worksheets, class tests & self - evaluation.	5.1. Using worksheets: upplementing the text book – worksheets for oral practice, reading and writing. 5.2. Class tests: testing grammar, writing & oral tests. 5.3. Self-evaluation	 Assignments Group work Peer teaching Seminar 	 Q.A. sessions Discussion Vocabulary check

	Good & bad	
	teaching,	
	categories for	
	observation –	
	helping	
	students	
1	to learn.	

SUGESTED ACTIVITIES (Any Two)

- 1. Prepare a digitalized lesson plan Submitonline.
- 2. Collect and submit online resources of teaching /learningEnglish.
- 3. Create a blog for English languagelearning.
- 4. Prepare secondary level worksheets

PRESCRIBED READINGS

- The Internet Guide for English Language Teachers Dave Sperling, 1997, Prentice-Hall Regents. (1998 edition also available). Dave Sperling's Internet 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 English Teaching.
- 4. Adams.M.J. (1990). Thinking and Learning about Print. Cambridge, Ma: MITPress.
- 5. Alexander.L.G.(1975).A first book in comprehension, précis and composition. Longman: Hongkong.
- 6. Brewster Jean ,Gail Ellis.,& Denis Giraf. (1992).The primary English teachers's guide. PenguineBoks:London.
- 7. Choudhary.N.R. (2002). English Language Teaching, Himalaya PublishHouse,Mumbai.
- 8. Cameron, Lynne. (2001). Teaching language to my young learners. Cambridge University Press: Cambridge.

■SUGGESTED READINGS

- 1. Content-based second language instruction Brinton.D.M.,Snow.M.A.,&Wesche.M.B. (1989). New York:Newbury.
- 2. Information&CommunicationTechnologiesinELTAbdulMahmoudIdreesIbr ahim,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.Dhanp atRai: 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. CIEFL Akshara series. Hyderabad: Alllied Publishers.
- 7. Bond.L. Getat (1980). ReadingDifficulties
 TheirDiagnosisandCorrection,NewYork: Appleton CenturyCrafts.
- 8. Byrne.D .(1975): Teaching Writing, London, Longman.

Course Code: B4PC1830 Pedagogic Course

B. Ed. Degree Programme Semester- IV

EMERGING TRENDS IN HISTORY EDUCATION

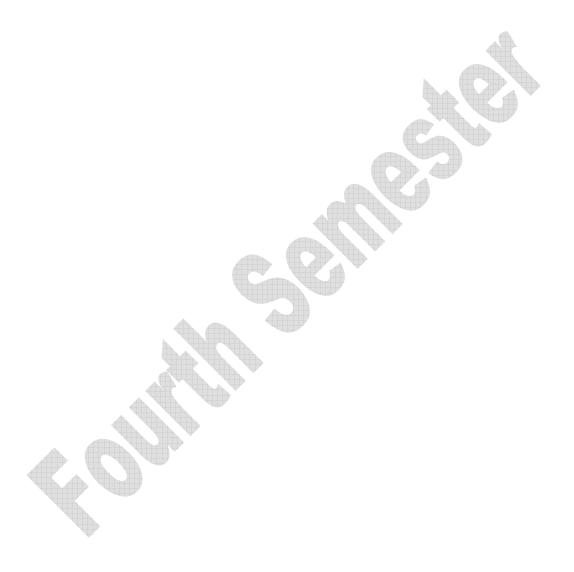
(4 Credits – 120 Hours)

COURSE OBJECTIVES:

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

- 1. understand the concept of techno-pedagogue in teachingHistory
- 2. develop positive attitude towards innovative strategies in teaching/learningHistory
- 3. develop skill to undertake research studies in teaching-learningprocess.
- 4. develop skill and writing lesson transcripts based on selected models of teaching
- 5. develop positive attitude towards model instructional strategies in teaching history.

- 6. apply the various modes of evaluation strategies in History at school level
- 7. appreciate the programmemeant for professional development of history teachers.



Unit- I: TECHNO PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS

	arning itcome	Content	Suggested Strategies and Approaches	Assessment
the prosp teach tobed hnopeda 2. Family with instru	gogue. iliarizes uctional ule for iing	 1.1 Interrelationshipbetween techno-pedagogy and content. 1.2 Scopeandpurposeoftechn o pedagogue inhistory. 1.3 Teacher as a techno-pedagogue inhistory: Instructionalmodule. 1.4 Professional and institutional growththrough network. 1.5 Application ofsocial networkingsystems. 	 Lecture Discussion Visualpresentation BrainStorming 	 Test (Oral/Written) QASession Reportwritin g

Unit- II: EMERGING STRATEGIES IN TEACHING AND LEARNINGISTORY

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Analyses and adopt emerging strategies in teachingHistory 2. Identifies appropriate strategiestotransac tthe Historycurriculum .	2.1 Innovative strategies: Need andImportance 2.1.1 PeerTutoring 2.1.2 Co-operative learning 2.1.3 Problem-based learning 2.1.4 Blended-learning 2.1.5 Brain-compatible learning: i) Mindmapping ii) Conceptmapping 2.1.6 Video-conferencing	LectureDiscussionSeminarVisualpresentation	 Test (Oral/Written) Quiz QASession Seminar presentation n

Unit- III: RESEARCH IN HISTORY EDUCATION

Learning Outcome	Content	Suggested Strategies and	Assessment
		Approaches	
1. Selects	3.1 Research in History:	Lecture	• Test (Oral/
theappropriat e area for conducting research in History for teaching and learning.	Need andimportanceforresearc h inHistory. 3.2 Currenttrendsinteaching History 3.3 ProblemsfacedbyHistory researcher 3.4 Historyteacherasanaction researcher 3.5 Analysis of research outcomesinteachingandlea rning History.	 Discussion Brainstorming Collection of reviews related to classroom teaching 	Written) • QASession • Reportwriting

Unit- IV: MODELS OF TEACHING HISTORY

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Acquaints with the concept families and selecteditemsof models ofteaching Prepares lesson plan based on selected models. 	4.1 Models of Teaching - meaning and Concept, descriptionsofthe model. 4.2 Differentfamilies: i) Conceptattainmen tmodel ii) Advanced organizemodel iii) Jurisprudential model iv) Inquiry trainingmodel	 Lecture Discussion Workshop on Model Lessonplan writing 	 Test (Oral/Written) QASession Report writing Evaluating lesson plan

Unit- V: PROFESSIONAL DEVELOPMENT OF A HISTORY TEACHER

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Justifies the need for professional development of History teachers. Equipthemselvesas a reflective practisener 	 5.1 Teaching as a profession: preservice and programme 5.2 History teacher as a reflective practitioner concept and strategies. 5.3 Various programmes for professional development 5.4 Qualities of a History teacher - Professional Competencies-SoftSkills, Technological Skills. 	 Lecture Discussion Seminar Autolearning Brainstorming 	 Test (Oral/ Written) QASession Evaluation of report

SUGESTED ACTIVITIES (Any Two):

- 1. Prepare a self-explanatory note on teacher as a techno pedagogue.
- 2. Prepare a module of a unit in History and present it to thepeers.
- 3. Design mind maps by selecting a unit for teaching StandardIX.
- 4. Preparation of lesson transcripts based on any two models ofteaching.

PRESCRIBED READINGS

- 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* (5thed). New Delhi: Prentice Hall.
- 7. Madhukumar, Indira. (2005). *Internet based distance education*. New Delhi: Global Network.
- 8. Singh, Gopal. (2004). *Teaching strategies*. New Delhi: APH Publishing Corporation.

□SUGGESTED READINGS

- 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 (5thed)*. 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: B4PC1831 Pedagogic Course

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

(4 Credits – 120 Hours)

COURSE OBJECTIVES:

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

- 1. familiarize with the concept of techno pedagogy and understand the role of teacher as a techno pedagogue
- 2. apply the knowledge of various teaching models for teaching mathematics
- 3. develop skill to undertake research in mathematics education
- 4. develop understanding of the various innovative strategies in mathematicseducation
- 5. comprehend the various strategies for the professional development of Mathematicsteacher.

Unit- I: TECHNO-PEDAGOGIC CONTENT KNOWLEDGE

Learning Outcome	Content	Suggested Strategies and Approaches	Assessme nt
 Acquaints with the conceptoftechnopedagogy Familiarizes the ways and means to link technology to pedagogic content knowledge Identifiestheroleo 	 3.1 Concept of Techno pedagogic content knowledge 3.2 Technologyinteachinga nd learning of 3.3 Web-basedInstruction 3.4 Onlinelearning 3.5 Virtuallearning 3.6 ICTbasedteachingand learning 	 Lecture Illustrations Digitalpresentations Seminar Discussions Assignment 	 Participan t observation Online evaluation Evaluation of assignmen t
f teacher as a techno pedagogue 4. Developsskillint he preparation of digital lessonplan	3.7 Blogcreation		

Unit- II: MODELS OF TEACHING MATHEMATICS

	Learning Outcome		Content	S	uggested Strategies and Approaches		Assessment
v to n for the N idea. A least p least p b n o	dentifies various eaching models for eaching Mathemat cs Proposes esson blans based on models of eaching	2.22.32.4	Meaninganddefinitionof teachingmodel Assumptionsregarding teachingmodels RoleofTeachingmodels Familiesofteachingmodel s Some typical models- concept attainmentmodel, Advance organizermodel, Cognitive Development Modeland Glaser's Basic TeachingModel		Discussions Electronic visual presentation Seminar	• • • • • • • • • • • • • • • • • • • •	Test (oral/written) Questioning paper preparation

Unit- III: RESEARCH IN MATHEMATICS EDUCATION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Selects theappropriate	4.2 Importance of research in Mathematics	• Lecture	• Test (Oral/
area for conducting research in Mathematics for teaching and learning.	Education 4.3 Currenttrendsinteaching Mathematics 4.4 Action research in Mathematics 4.5 Areasof research inmathematics 4.6 Analysis of research outcomes in teaching and learning	 Discussion Brainstorming Collection of reviews related to classroom teaching 	Written) • QASession • Reportwriting
	Mathematics		

Unit- IV: INNOVATIVE STRATEGIES IN TEACHING AND LEARNING MATHEMATICS

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Familiarizes the various innovative strategies Develops skill in selecting appropriate innovative strategiesto transact the content 	 2.1 e-learning 2.2 Constructivist learning 2.3 Problem-based learning 2.4 Brain-based learning 2.5 Cooperative learning 2.6 Collaborative learning 2.7 Concept mapping 2.8 Flipped learning 2.9 Blended learning 2.10Videoconferencing 	 Lecture Digital presentation Seminar Discussion assignment 	 Tests (oral/written) Participant observation Evaluation of assignment

Unit- V: PROFESSIONAL DEVELOPMENT OF MATHEMATICS TEACHER

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Analysesthequalities of	5.1 Special qualities	• Lecture	• Tests
a Mathematics teacher	and Professional	• Seminar	• Questioning
2. Develops professional	skills ofa Mathematics	• Discussions	• Student
skills needed for	teacher		Reports
teachingMathematics	5.2 In-		
	serviceeducationf		
	orthe teachers		
	5.3 Role of		
	reflectivepractices		

in professional development	
development	

- 1. Prepare a report on development of Mathematics in the 21stcentury.
- 2. Develop a CAI package inMathematics.
- 3. Create a blog for anyone lesson in Mathematics.
- 4. Prepare a lesson transcript based on any one model of teaching.

□PRESCRIBED READINGS

- 1. Bruce, Joyce.&Weil,Marsha. (2004). *Models of Teaching*. U.K: Prentice Hall ofIndia.
- 2. James, Anice. (2005). *Teaching of Mathematics*. New Delhi: NeelkamalPublications.
- 3. James, Anice. (2006). *Techniques of teaching of Mathematics*. New Delhi: NeelkamalPublications.
- 4. Kulshreshtha, A.K. (2008). *Teaching of Mathematics*. Meerut: R.Lall BooksDepot.
- 5. Mangal, S.K. (2000). *Teaching of Mathematics*. Ludhiana: R.P.FadonPrakashBrothers.
- 6. Sharma, R.D. (2008). *Technological foundation of education*. Meerut: R.Lall BooksDepot.
- 7. Wadhwa, S. (2008). *Modern methods of teaching Mathematics*. New Delhi: KaranPapers.

□SUGGESTED READINGS

- 1. Aggarwal, S.M. (2001). *A Course in teaching of Modern Mathematics*. New Delhi: DhanpatRai PublishingHouse.
- 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: Ashish PublishingHouse.
- 6. Siddiqui, M.H. (2007). *Teaching of Mathematics*. New Delhi: APH Publishing House.

Course Code: B4PC1832 Pedagogic Course

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

(4 Credits - 120 Hours)

COURSE OBJECTIVES:

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

- 1. acquire knowledge about the new development in the field of physical science.
- 2. understand the models of teaching and its types.
- 3. apply the emerging strategies of physical science teaching.
- 4. develop skill in preparing techno pedagogy content in teaching physical science.
- 5. develop interest in improving professional development of teacher

Unit- I: NEW DEVELOPMENTS IN PHYSICAL SCIENCE

Learning Outcome	Content	Suggested Strategiesand Approaches	Assessment
1. Discusses the	1.1 Branches of Science	• Discussion	• Test
different	1.1.1 Fundamental and	• Lecture	(oral/written)
branches of	new branches	Peer learning	• Report writing
science	1.2 Emergence of interdisciplinary subject		

2. Reports the	1.2.1 Nanotechnology	
emerging field	1.2.2 Biotechnology	
in physical	1.2.3 Bioinformatics	
science	1.2.4 Information	
	technology	
	1.2.5 Geo informatics	

Unit- II: MODELS OF TEACHING

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Describes the	2.1 Models of teaching -	• Digital	• Test
concept	Definition, Fundamental	presentation	(oral/written)
models of	Elementsof	 Group discussion 	Assignment
teaching	models of teaching.	 Workshop 	
2. Explains the	2.2 Types of Teaching		
types of teaching	Model.	,	
model	2.2.1 Inquiry		
	Training		
	Model		
	2.2.2 Concept		
	Attainment		
	Model		
	2.2.3 Advance		
	Organizer		
	Model		

Unit-III: EMERGING STRATEGIES FOR TEACHING PHYSICAL SCIENCE

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. applies the emerging	2.1 Collaborative learning	• Seminar	Participant

teaching lear 2. Illustrates the various emerging 2.3	Co-operative ning Problem based learning	 Group Discussion Brainstorming Digital Presentation	observation • Report writing Mapping
--	--	--	--------------------------------------

Unit- IV: TECHNO PEDAGOGIC CONTENT KNOWLEDGE

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Prepares various digital resources Creates a blog of their own Observes the uses of smart board 	3.1 Science teacher as techno pedagogue 3.2 Techno pedagogic skills and competencies 3.3 Digital resources 3.3.1 CD 3.3.2 DVD 3.3.3 Websites	Lab resourcesDiscussionDemonstrationICT resources	ObservationAssignmentMaterial submission
	3.3.4 m-learning 3.3.5 Creations of e-portfolio 3.3.6 Web based learning 3.3.7 Blog creation 3.3.8 Designing virtual classroom 3.3.9 Use of smart board.		

Unit- V: PROFESSIONAL DEVELOPMENT OF TEACHERS

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Appraises the teaching	5.1 Teaching as a profession 5.2 Pre-service and in-	• Lecture	• Participant observation

profession 2. Identifies the qualities of science teacher 3. Participates in various activities	service programme 5.3 Role of reflective practices on professional development 5.4 Qualities of a science teacher 5.4.1 Professional competencies 5.4.2 Soft skills	DiscussionDebate	Report based on debate
	5.4.2 Soft skills		
	5.4.3 Technological		
	skills.		

- 1. Prepare a module and present it through smart board.
- 2. Design a content in physical science based on mapping strategies.
- 3. Prepare a Blog in the website.
- 4. Develop a lesson plan in physical science based on models of teaching.

□PRESCRIBED READINGS

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

USUGGESTED READINGS

- 1. Mishra.R.C (2008). Lesson Planning. NewDelhi: APHPublishingCorporation.
- 2. Panner, Selvam. A. (1976). Teaching of Physical Science, Government of Tamil Nadu.
- 3. Das.R.C. (1985). Science teaching in schools. New Delhi: SterlingPublishers.
- 4. Joseph.T. T. (1982). Modern trends in science education. (2nd Ed.). Kottayam,Kerala.
- 5. Mathew.T.K., &Mollykutty.T. M. (2011). Science education: Theoretical bases of teaching and pedagogic analysis. Chenganoor: Rainbow BookPublishers.
- 6. Bhatia.K.K. (2001). Foundations of teaching learning process. Ludhiana:

TandonPublication.

7. Mangal.S.K.., &UmaMangal. (2009). EssentialsofEducational Technology. New Delhi: PHI Learning Pvt.Ltd.

Course Code: B4EC1833 Elective Course

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

(4 Credits – 120 Hours)

COURSE OBJECTIVES:

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

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

Unit- I: INTRODUCTION TO EARLY CHILDHOOD CARE AND EDUCATION

	Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
na an or C E 2. A	amiliarizes the ature, scope and significance of Early Childhood Education. Acquaints with the development of Early	 1.1 Early Childhood	 Introductory Lecture Group discussion Assignment Brainstorming Seminar and discussion 	 Assignment evaluation Test (Written/Oral) Participation in group discussion
C E	Childhood ducation in India	public,private and voluntary sector		
po	umiliarises the olicies in ECCE India	initiatives in India 1.3.Issues and concernsof ECCE in India 1.4.Policies in ECCE in India- National Focus Group on ECCE (2006) The National Policy for Children, (2013) National Early Childhood Care		
		and Education (ECCE) Policy(2013) National ECCE curriculum framework		

Unit- I1: CONTRIBUTIONS OF EDUCATIONAL THINKERS TO EARLY CHILDHOOD CARE AND EDUCATION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
Develops an insight into the contribut ion of various educatio nal thinkers to the cause of Early Childhoo d Educatio n	2.1Contributionsofwestern thinkers – Rousseau,Froebel, McMillan sisters,Montessori, Piaget, Vygotsky 2.2. Indian thinkers – , GijubhaiBadeka, Mahatma Gandhi , TarabaiModak, and JidduKrishnamurty	 Introductorylecture Groupdiscussion Assignment Brainstorming Seminarand discussion 	 Assignment evaluation Test (Written/Oral) Participation in group discussion

Unit-1II: DEVELOPMENT DURING EARLY CHILDHOOD

Learning Content	Suggested	Assessment
Outcome	Strategies and	
	Approaches	

 Realizes the different aspects of child development Examines the role of pre-school in promoting harmonious development of children. 	3.1.Development duringearly childhoodperiod - Physical, motor, cognitive, social, emotional, language andmoral development. 3.2.Factorsinfluencing early childhood development. 3.3.Role ofearly childhood centresin promoting harmonious developmentof Children.	 Lecture Seminars Interactivesession Discussion Assignment 	 Preparation of learning materials Assignment evaluation Test (Written/Oral)
---	---	---	---

Unit- IV: ORGANIZING ECCE PROGRAMME

Learnin	Content Suggested	Assessment
g Outcom	Strategies and Approaches	
e		

 Develop 	
s insight	
in	
Planning	
programs	
for	
children	
	l

- 4.1.
 DesignofanECCEce
 ntre– Building plan,
 different areas in an
 ECCE centre,
 Safety precautions,.
- 4.2 Planning programs for Children principles and factorsofprogrampl anning. (yearly,monthly,we eklyand daily.)
- Lecture
- Fieldvisit
- Development of weekly /daily schedules
- Seminarand discussions
- Discussion
- Visualpresentatio ns
- Peerlearning

- Reportwriting
- Assessing weekly / daily schedule
- Assignment evaluation
- Test (Written/Oral)
- Assessingtool

Unit- V: PEDAGOGIC APPROACHES TO ECCE PROGRAMME

Learn Outco	_	Conten t	Suggested Strategies and Approaches	Assessment
aint thediff hnique teachir n	mesacqu with Serenttec es of ngchildre es skill mg hool en	5.1 Strategies for involvement of children in learning activities- Sensorytraining, Rhymes, Storytelling, Dramatization, Puppetry, Nature walk and play way method 5.2 Evaluation of children's development and learning - Principles of assessment and reporting 5.3 Informal assessment Strategies-observation, portfolio,checklist, activitysample &reportcard. 5.4.Role of caregiver/ ECCE Teacherpartnership with parents andfamily	 Lecture Fieldvisit Observation of Programs Seminar and discussions Roleplay Discussion Demonstration Visual presentations Peerlearning 	 Assignment evaluation Test (Written/Oral) Assessingto ols

 $1. \ \ Prepare materials and activities for any two aspects of development.$

- 1.1 Motor development (gross motor skills and finemotor skills)
- 1.2 Cognitive development
- 1.3 Language development
- 1.4 Social development
- 2. Prepare a report on daily routine of an Early childhood EducationCentre.
- 3. Prepare booklets-stories (5), Rhymes (5) withillustrations.
- 4. Preparesourcefileondifferenttypesofcreativeactivitiesforchildren.

PRESCRIBED READINGS

- 1. Aggarwal.J.C., .&Gupta.S.(2007). *EarlyChildhoodCareandEducation-PrinciplesandPractices*.New Delhi:Shirpa Publications.
- 2. Devadhas, P.Rajammal. (1984). *AText Book on Child Development*. New Delhi: MC Millan India Ltd.
- 3. Hurlock, Elizabeth.B. (2001). *Child Growth and Development*. New Delhi: Tata McGraw Hill publishing company.
- 4. Kaul, Vinetha. (2001). Early Childhood EducationProgramme.New Delhi: National Council of Educational Research and Training.
- Kaul.V., &Sankar.D.(2009). Early Childhood Careand Education India: Mid-Decade Assessment, NUEPA.
- 6. Kon, Ruth.(1972). The Exploring child. Mumbai:Orient LongmanLtd.
- 7. Mohanthy, Jaganath., & Bhagyadhar, Mohanthy. (2000). Early Childhood Careand Education. New Delhi: Deep and Deep Publication.
- 8. Montessori.M.(1962). *The Discovery of the Child*. Chennai: Kalakshetra Publications
- 9. 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, aTraining Manual for Early

Childhood Education. M.S. Swaminathan Research Foundation.

13. Swaminathan, Mina., & Daniel, Prema. (2005). *PlayActivitiesforChildDevelopment*, New Delhi: National Book Trust.

QSUGGESTED READINGS

- 1. Austin, Gilbert.R.(1976). *Early childhood education: Aninter national perspective*.New York: Academic Press.
- 2. Banta.T.(1966). Aretheses really a Montessori method, Columbus, Ohio: Ohio Psychological Association and Ohio Psychiatric Association. David.T. (1989). Teaching Young Children. New Delhi: Sage.
- 3. Essa.E.(1990). *Introductiontoearlychildhoodeducation*. New York: Delimar.
- 4. Kaul.V. ,&Bhatnagar.R.(n.d). *Early Childhood Education*: A Trainers' Handbook. New Delhi: NCERT.
- 5. Kaul. V.et al. (2004). Reaching out to the Child. New Delhi: Oxford University Press.
- 6. Kaul.V.,&Sankar.D(2009). *EarlyChildhoodCareandEducationinIndia*:Mid-Decade Assessment: NUEPA.
- 7. Nisha.M.(2006). *Milestones of childdevelopment*. Delhi: Kalpazz Publication.
- 8. Shanmugavelayudham.K., &Bhuvaneswari.(2003).*The 'must' for Nursery Education*.TN- FORCES.
- 9. Soni.R.(2014). Every Child Matters. New Delhi: NCERT.
- 10. Swaminathan.M.(1998). *TheFirstFiveYears:AcriticalperspectiveonEarlyChildho odCareand Education in India.* New Delhi: Sagepublications.
- 12. Vergas-

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

Course Code: B4EC1834 Elective Course

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

(4Credits -120 Hours)

Z COURSE OBJECTIVES:

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

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

Unit- I: CONCERNS AND CHALLENGES DURING ADOLESCENCE

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

Unit-II: ADOLESCENCE EDUCATION PROGRAMME

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
	2.1.Adolescence Education Program(AEP) 2.1.1.Objectives, Content and Scope 2.2.2.Role of Social Agencies in Adolescence Education- School, Family, Media, Community 2.2.3 Capacity building for prospective teachers in adolescence		 Oral questions Assignment evaluation Case study report Test (written/ oral) Observation of class room behaviour Student's reflective reporting
	education		

Unit-III:PEDAGOGICAL APPROACHES TO ADOLESCENCE EDUCATION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Familiarises the pedagogical approaches to adolescence education 2. Equips with different innovative strategies for adolescenceeduca tion	Pedagogical Approaches to Adolescence Education -Case studies and Critical Incidents, Brainstorming, Role-playing, Buzz groups, Gaming, Value clarifications, Question Box, Discussions and Debates, Puppet shows, Video shows. situation analysis	 Lecture /briefing QA session Student observation and reporting Assignment Seminar Peer learning Group discussion Role play 	 Test (written/oral) Assignment evaluation

Unit- IV: LIFE SKILLS EDUCATION FOR ADOLESENTS

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

Unit- V: REPRODUCTIVE HEALTH AND FAMILY LIFE EDUCATION

Learning Outcome	Content	Suggested Strategies and	Assessment
	3.1 Sexual and reproductive health of		• Class test • Assignment evaluation • Observation of classes • Field level observation and
	Meaning and concept, objectives 3.4.1.Role of home and school in family life education 3.4.2.Maintaining family relationships		

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

□PRESCRIBED READINGS

- 1. Arora, Pankaj.(2008). *Sex Education in Schools*. New Delhi: Ocean Books Pvt Ltd.
- 2. CBSE. (1999). Population and Adolescent Education—ATraining Package. New Delhi.
- 3. Choudhary.G.B. (2014). *Adolescence Education*. New Delhi: PHI Learning Pvt. Limited.
- Department of Education & State AIDS Control Scociety. (2005). YUVA School Adolescence Education Programme

 – Handbook for Teachers. NewDelhi.
- 5. Harrison, Jennifer.K., (2000). *Sex Education in secondary Schools. Buckingham* Philadephia: Open University Press.
- 6. MHRD (2004). *Life Skills Modules, Adolescence Education Programme*. New Delhi: MHRD, NACO &UNICEF.
- 7. NCERT (2005). Adolescence Education in Schools Life skills Development General Framework; National Population Education Project. New Delhi: Department of Education in Social Science and Humanities.
- 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

ofIndia.

- 10. Sharma, Neeraja. (2011). *Understanding Adolescents*. Delhi: National Book Trust of India.
- 11. Verma, Suman., & Saraswathi. T.S. (2002). *Adolescence in India*. New Delhi: Rawat Publications.

QSUGGESTED READINGS

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

Course Code: B4EC1835 Elective Course

B .Ed. Degree Programme Semester-IV ENVIRONMENTAL EDUCATION

(4 Credits-120 Hours)

COURSE OBJECTIVES:

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

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

Unit- I: FUNDAMENTALS OF ENVIRONMENTAL EDUCATION

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

Unit-II:NATURAL RESOURCES AND ASSOCIATED PROBLEMS

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

Unit-III: POLLUTION AND MANAGEMENT INITIATIVES

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

Unit-IV: SUSTAINABLE DEVELOPMENT AND PRACTICES

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

Unit-V: ENVIRONMENTAL EDUCATION IN SCHOOL CURRICULUM

	Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. 2. 3. 4.	Infers Environmental Education at different levels of school Education Assessess the innovative methods of teaching EE at schools	5.1 Environmental Education at different levels of school Education 5.2 Innovative methods of teaching Environmental Education 5.3 Role of school in environmental conservation 5.4 Role of NCERT,teachers and media in promoting Environmental Education 5.5 Role of information technology in environmental and human health. 5.6 Evaluation in Environmental Education-Meaning, aims,different types of tests for assessment	 Approaches Lecture cum discussion Brainstorming Blog Searching Peer instruction Poster Presentation AssignmentSe minar Auto instruction Invited lectures 	 Blog Posts Class test Document analysis Participant observation Posters Seminar presentations
6.	technology in environmental and human health. Prepares evaluation strategies for Environmental Education	tests for assessment		

- 1. Prepare a scrap book on issues related to the environment
- 2. Visit a place of severe environmental pollution in your locality, analyse the causes of pollution and suggest control measures.

- 3. Conduct a Life Cycle Assessment of any item/commodity of daily use and prepare a report.
- 4. Prepare a time-line chart on environmental policies and programmes in India

PRESCRIBED READINGS

- 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: Publication Bureau, Punjab University.
- 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:APHPublish ing 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.Lall BooksDepot.
- 11.Sharma.B. L & Maheswari.B. K. (2008). *Education for Environmental and Humanvalue*. Meerut: R.Lall Books Depot.
- 12. Singh.Y. K. (2009). *Teaching of environmental science*. New Delhi:APH Publishing Corporation.
- 13. Sharma.V. S. (2005). *Environmental education*. New Delhi: Anmolpublication.

USUGGESTED READINGS

- 1. Joy.P., &Neal.P. (1994). *The handbook of environmental education:* London, New FetterLane.
- 2. Goleman.D. (2010). Ecological Intelligence, Penguin Books, London136.
- 3. Odum.E.P. (1971). Fundamentals of Ecology WBSaunders.

- 4. Speth., & James.G. (2006). *Global Environmental challenges: Transition to a sustainable world*, OrientLongmann.
- 5. Firor, John., & Judith .E.J. (2003). Crowded Green House, UniversityPress.
- 6. Brown, Lester.R (2002). *Eco Economy: Building an economy for earth,* OrientLongmann.
- 7. Gardner. H.S (2006). Frames of Mind. HarvardUniversityPress.
- 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: B4EC1836 Elective Course

B.Ed. Degree Programme Semester-IV

LIBRARY AND INFORMATION SCIENCE IN EDUCATION

(4 Credits-120 Hours)

COURSE OBJECTIVES:

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

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

Unit- I: EMERGING CONCEPT OF LIBRARIES IN EDUCATION

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

Unit- II: INFORMATION SOURCES

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

Unit- III: INFORMATION SERVICES

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

Unit- IV: INFORMATION LITERACY AND RETRIEVAL TECHNIQUES

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

Unit- V: RESOURCE SHARING AND LIBRARY NETWORKING

 1. Defines the definition, need and objectives 2. Role of Internet in information transfer 3. Types of Library Networks in India 5. Assignment evaluation College elibrary visit: demonstration /practical QA session Seminar presentation Test(written/Oral) QA session Seminar presentation 	Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
in India	definition, need and objectives of resource sharing 2. Realizes the importance of internet in information transfer 3. Explains the various types of library networks	definition, need and objectives 5.2 Role of Internet in information transfer 5.3. Types of Library Networks in India 5.3.1 Inflibnet-N-list 5.3.2. ERNET 5.3.3. DELNET 5.3.4. CALIBNET	 Lecture Group discussion College e- library visit: demonstration 	evaluation • Test(written/Oral) • QA session • Seminar

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

PRESCRIBED READINGS

- 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 etal (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.

□SUGGESTED 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:B4EC1837

Elective Course

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

(4 Credits - 120 Hours)

COURSE OBJECTIVES:

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

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

Unit-I:INTRODUCTION TO PHYSICAL EDUCATION

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

Unit- II: HEALTH EDUCATION

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

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

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

Unit- IV: FOOD AND NUTRITION

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

Unit- V: COMMUNICABLE DISEASE AND LIFESTYLE DISORDER

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

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

PRESCRIBED READINGS

- 1. Ashwani, Bhardwaj. (2012). *A Complete Guide to Family Safety and First-Aid*. New Delhi: Good will 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.

□SUGGESTED 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: PrentisehallINC.