Course Code: BED4CC05 Core Course

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

(4 Credits-120 Hours)

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 and knowing, Information and knowledge 1.3 Types of knowledge 1.3.1 Local anduniversal 1.3.2 Concrete and abstract 1.3.3 Theoretical and practical 1.3.4 Contextual and textual 1.3.5 School and out of school	LectureBriefingSeminarAssignment	 QASession Seminar Presentation

Unit- II: CONTRIBUTIONS OF EDUCATORS ON KNOWLEDGE

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Analyses the contributions of thinkers on Knowledge	2.1 Thoughts of thinkers on knowledge and education 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	 Lecture - Briefing Seminar Assignment Digital presentation 	QA SessionSeminar Presentation

Unit- III: CURRICULUM AND ITS MEANING

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
Recognises the various concepts of curriculum	 3.1 Curriculum - Meaning, natureand principles of curriculum 3.2 Types of curriculum: i) subject centred, ii) student centred, iii) society centred iv) life centred. 3.3 Need for Curriculumin schools 3.4 Curriculumandsyllabus 3.5 Core curriculum Vs eclectic curriculum 3.6 Hidden' curriculum 	 Peer Learning Digital Presentation 	 Class Test (Written/ Oral) Quiz

Unit- IV: CURRICULUM: DETERMINANTS AND CONSIDERATIONS

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

Unit- V: CURRICULUM DEVELOPMENT

Learning	Content	Suggested	Assessment
Outcome		strategies and	
		Approaches	
1. Understands	5.1 Process of Curriculum	• Lecture -	 QASession
the process of	Development: Subject-	Briefing	• Seminar
curriculum	centred, Environment-	 Seminar 	Presentation
development	oriented (incorporating	 PeerLearning 	
2. Realizes with	local concerns)	 Assignment 	
the support	Learner-centred		
system that	5. 2 Process of curriculum		
enables	construction.		
curriculum	Formulating aims and		
transaction	Objectives,		
	Criteria for Selecting		
	knowledge		

Organizing and incorporating knowledge, attitude and skills -inter relationship of subjects 5.2.1 Selection and Organisation of learning environments. 5.3 Curriculum transaction 5.3.1 Support system for curriculum transaction (men and material) 5.4 Role and responsibilities of 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. Conduct of an interview with national\ state awardees 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

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 - 16.Tagore.R. (2003). *Civilization and progress*. In Crisis in civilization and other Essays. New Delhi: Rupa & co.
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- 18. The PROBE Team. (1999). *Public report on basic education in India*. Delhi: Oxford.
- 19. *The Transmission of Knowledge in South Asia:* Essays on Education. *Religion, History and Politics.* New Delhi: Oxford University Press, 98-118.

Course code: BED4CC06 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	Assessment
	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	Suggested Strategies and Approaches • Lecture- discussion • Power point presentations • Invited lectures	 Assessment Observation QA session Class test Analysis of digital document Report Assignment
education. 3. Expresses the concept of inclusion 4. Distinguishes inclusive, integrated and segregated education 5. Appraises the need for inclusive schools 6. Examines strengths and limitations of inclusive schools	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		

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

Learning Outcome		Content	Suggested Strategies and Approaches	Assessment
1. Interprets physically and mentally differently abled. 2. Appraises policy and legislative frameworks promoting inclusion 3. Outline services and programmes available for differently abled.	2.1 2.2 2.3	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)	• Lecture • Debates • Seminar • Small group. discussion	 Observation Assignment Report Test Posts Quiz Seminar presentation Class test
		RashtriyaMadhyamik ShikshaAbhiyan		

Unit- III: ADDRESSING LEARNERS' DIVERSITY IN SCHOOLS

	Learning	Content	Suggested	Assessment
	Outcome		strategies and	
			Approaches	
1.	Analyses the	3.1 Characteristics of inclusive	• Lecture	• Report
	cultures and	learning Environment.	• Group	• Assignments
	practices	3.2 Curriculum	Discussion and	 presentation
	needed to create	adaptation:Concept Need and	Presentation	 Observation
	an inclusive	Principles of adaptation.	 Panel Discussion 	 Class test
	School.	3.3 Concept of resource teacher	 Debates 	
2.	Recognizes	parents and communities in	 Seminar 	
	instructional	schools.Resource	 Small group 	
	strategies and	Mobilization, Collaborating		
	school support to	with other Professionals,		
	create inclusive	Collaborating with other		
	learning	Institutions ,Parents and		
	environment.	Community as Resources		
3.	Identifies	3.4 Strategies for Dealing with		
	alternative means	Diversity in the Classroom:		
	for assessment	Individualized		
	and remedies in	3.5 Educational Plan (IEP),		
	inclusive	Universal Design for		
	classrooms	Learning (UDL) and		
		Differentiated Instruction		
		(DI) Collaborative		
		teaching,		
		3.6 Aids, Appliances and		
		Information		
		CommunicationTechnology(I		
		CT) for Students with Special		
		Needs		
		3.7 Alternative means for		
		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
of agencies in gender identity and socialisation 6. Analyses gender issues 7. Analyses stereotyping 8. Examines gender based violence	 4.1 Concept of gender and transgender. Difference between gender and sex Gender related concepts: patriarchy, matriarchy, masculinity, equity and equality, sexuality. 4.2 Gender role: Gender roles in family, caste, class, religion, culture and media 4.3 Gender Identity and Socialization Practices: Role of Family, School, peer group, community and Media 4.4 Gender Issues: Gender bias, gender stereotyping, and gender inequalities. Reasons for gender inequalities. 4.5 Gender-based violence (GBV) Violence Against women in Indian society. Offences against women and girls. 4.6 Meaning and concept of body objectification - Combating female body objectification: 4.7 Gender stereotypes in mass media objectification of female body-propagation of popular beliefs through 	 Lecture Discussion Class Seminar 	Seminar Presentations Report Test (oral / written)

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	 5.1 Gender discriminations in education: school facilities, environment, class room interactions, rituals and school/ routines, curriculum, textbooks, pedagogy, Discipline, parents and teachers attitude. 5.2 Influence of education on gender equality. Gender fair school environment, access to basic amenities and other instructional resources to girlsmeasures to gender equality. Role of school, parents, peers, teachers, curriculum and textbooks in reinforcing gender parity. 5.3 Gender Parity in education: ways to achieve; women access to and participation in education: MahilaSamakhya, National Program for Education of Girls at Elementary Level (NPEGEL), Kasturba Gandhi Balika Vidyalaya (KGBV) 	 Lecture Group Discussion and Presentation Document analysis Panel Discussion Debates Seminar Discussion Assignment Group discussion Small group session 	 Document

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

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Course Code: BED4PC17 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. Realizes the	1.1 Biotechnology1.2 Nanobio-technology	Lecture Discussion	• Tests (written/oral)
developments in	1.2 Nanobio-technology1.3 Population genetics	• Digital	• Reportwriting
Biological Science	1.4 Genetic Engineering1.5 GeneCloning	presentationPeerlearning.	• Seminar presentation
	1.6 Conservation of natural resources	SeminarAssignments	 Projects. Assignment
			evaluation

Unit- II: MODELS OF TEACHING

	Learning	Content	Suggested Strategies and	Assessment
	Outcome		Approaches	
1.	Identifies	2.1 Models of teaching –	 Lecture 	• Tests
	various teaching	elements and functions.	 Discussion 	(written/oral)
	models for	2.2 Concept Attainment	 Digital 	• Observation
	teaching	model	presentation	• Lesson
	Biological	2.3 Advance organizer model	 Interactive 	transcript/
	Science	2.4 Inquiry training model	learning	plan
2.	Prepares lesson		 Lesson plan 	
	plans based on		preparation	
	models of			
	teaching			

UNIT-III: EMERGING STRATEGIES FOR TEACHING BIOLOGICAL SCIENCE

Learning outcome	Content	Suggested Strategies and Approaches	Assessment
 Identifies various innovative strategies Selects appropriate innovative strategies to transact thecontent 	 3.1 Co-operativelearning 3.2 Collaborativelearning 3.3 Conceptmapping 3.4 Brain basedlearning 3.5 Experientiallearning 3.6 Blendedlearning 3.7 E-learning 	 Briefing/lecture Groupdiscussion Peerlearning BrainStorming Seminar Participatory Learning 	 Test (written/oral) Observation Seminar presentation

Unit- IV: TECHNO PEDAGOGIC CONTENT KNOWLEDGE

Learning	Content	Suggested	Assessment
Outcome		Strategies and	
		Approaches	
 Identifies ways and meanstolinktechnol ogy to pedagogic content knowledge. Prepares ablog 	1 00	 Briefing/ lecture Discussion Interactive Learning Digital presentation 	 Test (written/oral) Observation Blogcreation
	 4.3 Blog creation 4.4 Scienceteacherasatechno pedagogue 4.4.1 Techno pedagogical skills 	Hands on Experience	

Unit-V: PROFESSIONAL DEVELOPMENT OF BIOLOGY TEACHERS

Learning	Content	Suggested	Assessment
Outcome		Strategies and	
		Approaches	
 Identifies the qualities of a Biologyteacher Recognizes the 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, Technological skill 5.2.Professional development of Biology	 Lecture Discussion Interactive learning Seminar Assignment Autoinstruction 	 Tests (written/oral) Seminar presentation Assignment evaluation Report writing
	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. Create a blog in the website.
- 3. Carry out a project in Biology and prepare a project report.
- 4. Prepare a lesson plan based on models of teaching.

□PRESCRIBED READINGS

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Course Code: BED4PC18

Pedagogic 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
- 4. Identify creative forms of English language
- 5. Comprehends the professional growth and evaluation of teachers

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, Exploring text types Online—Descriptive, Narrative, Expository, Argumentative- Neuro- linguistic Programming	 Visual Presentation e-learning SmallGroup Discussion Seminar 	 write- up submitted after analysing emerging e-learning techniques Role performance analysis seminar presentation

Unit- II: PREPARATION OF INNOVATIVE STRATEGIES

Learning	Content	Suggested	Assessment
Outcome		Strategies and	
		Approaches	
1. Analyses the	2.1 Programmed Instruction-	 Lecture 	 QA Session
significance of	meaning, types (Linear,	 Group 	• Role
preparing	Branching) preparation	Discussion	performanc
innovative	of Instructional modules	 Presentation 	e analysis
strategies.	2.2 Computer Assisted	of Samples	
	Language Learning		
	2.3 Preparation of		
	innovative strategies for		
	language learning		

Unit- III: TECHNO-PEDAGOGIC CONTENT KNOWLEDGE

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Familiarizes the conceptsofteach eras Technopedagogue	3.1 Techno –pedagogy: meaning and importance 3.2 Inter-relationship between Content Knowledge, Pedagogic Knowledge and Technological Knowledge 3.3 Scope of technopedagogue in English language teaching 3.4 Technology in English language learning :virtual learning, mobile learning, online learning, blog creation, preparation of digital lesson pans	 Group Discussion Demonstratio ns in Smart Classroom Assignment 	 Assignment Analysis Test (oral/Written) Role performance analysis

Unit- IV:DIFFERENT CREATIVE FORMS OF ENGLSIH LANGUAGE

Learning	Content	Suggested	Assessment
Outcome		Strategies and	
		Approaches	
1. analyses role and	4.1 Role and relevance of	• Group	 Assignment
relevance of media in	media in English	Discussion	Analysis
English language	language teaching-	 Demonstration 	• Test
teaching and learning	learning: newspaper,	• Smart	(oral/Written)
	radio, television, films,	Classroom	• Role
	internet, magazines.	 Assignment 	performance
	4.2 Literature in school		analysis
	curriculum: needs,		
	objectives and		
	relevance.		
	4.3 Translation:		
	importance and name,		
	translation as a		
	creative activity.		

Unit - V: PROFESSIONAL GROWTH AND EVALUATION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Develops knowledge in using worksheets, class tests & self - evaluation.	 5.1. Teaching as a profession, professional competences of an English teacher. 5.2. Pre-service and inservice programme. 5.3. Action research: concept and identification of problems in English classrooms. 	 Assignments Group work Peer teaching Seminar 	Q.A. sessionsDiscussionVocabulary check

SUGGESTED 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

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Course Code: BED4PC19

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.
- 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 programme meant for professional development of history teachers.

Unit- I: TECHNO PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
Consientizes the prospective teachers to become a techno- pedagogue. Familiarizes with instructional	 1.1 Interrelationshipbetween techno-pedagogy and content. 1.2 Scopeandpurposeoftechno pedagogue inhistory. 1.3 Teacher as a techno-pedagogue inhistory: Instructionalmodule. 1.4 Professional and 	 Lecture Discussion Visual presentation Brain Storming 	 Test (Oral/Written) QASession Reportwriting
module for teaching history content	institutional growththrough network. 1.5 Application ofsocial networkingsystems.		

Unit- II: EMERGING STRATEGIES IN TEACHING AND LEARNING HISTORY

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Analyses and	2.1 Innovative strategies:	Lecture	Test (Oral/
adopt emerging	Need and Importance	 Discussion 	Written)
strategies in	2.1.1 PeerTutoring	Seminar	• Quiz
teachingHistory	2.1.2 Co-operative	 Visual 	 QASession
2. Identifies	learning	presentation	• Seminar
appropriate	2.1.3 Problem-based		presentation
strategies to	learning		
transact the	2.1.4 Blended-learning		
History	2.1.5 Brain-compatible		
curriculum.	learning:		
	i) Mindmapping		
	ii) Concept		
	mapping		
	2.1.6 Video-conferencing		

Unit- III: RESEARCH IN HISTORY EDUCATION

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Selects the appropriate area for conducting research in History for teaching and learning.	 3.1 Research in History: Need and importance for research in History. 3.2 Current trends in teaching History 3.3 Problems faced by History researcher 3.4 History teacher as an action researcher 3.5 Analysis of research out comes in teaching and learning History. 	LectureDiscussionBrainstormingCollection of	 Test (Oral/Written) QASession Reportwriting

Unit- IV: MODELS OF TEACHING HISTORY

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
 Acquaints with the concept families and selected items of models of teaching Prepares lesson plan based on selected models. 	 4.1 Models of Teaching - meaning and Concept, descriptions of the model. 4.2 Differentfamilies: i) Concept attainment model ii) Advanced organize model iii) Jurisprudential model iv) Inquiry training model 	 Lecture Discussion Workshop on Model Lesson plan 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
1.	Justifies the need for	5.1	Teaching as a profession: pre-service and in-	•	Lecture Discussion	•	Test (Oral/
	professional		service programme	•	Seminar		Written)
	development of	5.2	History teacher as a	•	Autolearning	•	QASession
	History		reflective practitioner	•	Brainstorming	•	Evaluation
	teachers.		concept andstrategies.				of report
2.	Equip	5.3	Various programmes for				
	themselves as		professional development				
	a reflective	5.4	Qualities of a History				
	practisener		teacher -Professional				
			Competencies-				
			SoftSkills,				
			Technological Skills.				

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

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- 2. Alexey, Semenov, UNESCO. (2005). *Information and communication technology in schools:* A Hand book for teachers.
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- 5. Josh.P. S.V, Gholkar.S.V. (1983). *History of Modern India*. New Delhi: Chand VCompany.

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- 8. Singh, Gopal. (2004). *Teaching strategies*. New Delhi: APH Publishing Corporation.

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- 2. Alexey, Semenov, UNESCO. (2005). *Information and communication technology in schools:* A Handbook for teachers.
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- 4. Dash.B.N. (1998). *Content cum methods of teaching Social Studies*. Ludhiana: Ralyani Publishers.
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Course Code: BED4PC20 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	Assessment
 Acquaints with the conceptoftechnopedagogy Familiarizes the ways and means to link technology to pedagogic content knowledge Identifiestheroleof teacher as a technopedagogue Developsskillinthe preparation of digital lessonplan 	 1.1 Concept of Techno pedagogic content knowledge 1.2 Technology in teaching and learning of 1.3 Web-basedInstruction 1.4 Onlinelearning 1.5 Virtuallearning 1.6 ICTbasedteachingand learning 1.7 Blogcreation 1.8 Digital lessonplan 	 Lecture Illustrations Digital presentations Seminar Discussions Assignment 	 Participant observation Online evaluation Evaluation of assignment

Unit- II: MODELS OF TEACHING MATHEMATICS

Learning	Content	Suggested	Assessment
Outcome		Strategies and	
		Approaches	
Identifies various teaching models for teaching Mathematics Proposes lesson plans based on models of teaching	 2.1 Meaning and definition of teaching model 2.2 Assumptions regarding teaching models 2.3 Role of Teaching models 2.4 Families of teaching models 2.5 Some typical models-concept attainment model, Advance organizer model, Cognitive Development Mode land Glaser's 	 Discussions Electronic visual presentation Seminar 	 Test (oral/written) Questioning paper preparation
	Basic Teaching Model		

Unit- III: RESEARCH IN MATHEMATICS EDUCATION

trategies and	
Approaches ecture discussion disc	 Test (Oral/Written) QASession Report writing
ois Ta Co Ev	scussion ainstorming llection of riews related classroom

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 	 4.1 e-learning 4.2 Constructivist learning 4.3 Problem-based learning 4.4 Brain-based learning 4.5 Cooperative learning 4.6 Collaborative learning 4.7 Concept mapping 4.8 Flipped learning 4.9 Blended learning 4.10 Video conferencing 	 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
Analyses the qualities of a Mathematics teacher Develops	 5.1 Special qualities and Professional skills of a Mathematics teacher 5.2 In-service education for the teachers 5.3 Role of reflective 	LectureSeminarDiscussions	•	Tests Questioning Student Reports
professional skills needed for teaching Mathematics	practices in professional development			

SUGGESTED ACTIVITIES (Any two)

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

□PRESCRIBED READINGS

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- 2. James, Anice. (2005). *Teaching of Mathematics*. New Delhi: Neelkamal Publications.
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Course Code: BED4PC21 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		
2. Reports the	interdisciplinary subject		
emerging field	1.2.1 Nanotechnology		
in physical	1.2.2 Biotechnology		
science	1.2.3 Bioinformatics		
	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 models	Definition, Fundamental	presentation	(oral/written)
of teaching	Elements of models	 Group 	Assignment
2. Explains the	of teaching.	discussion	
types of teaching	2.2 Types of Teaching	 Workshop 	
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
 2. 3. 	applies the emerging techniques in teaching. Illustrates the various emerging strategies Practices the strategies in the class room	3.1 Collaborative learning3.2 Co-operative learning3.3 Problem based learning	 Seminar Group Discussion Brain storming Digital Presentation 	 Participant 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 	4.1 Science teacher as techno pedagogue 4.2 Techno pedagogic skills and competencies 4.2 Digital resources 4.2.1 CD 4.2.2 DVD 4.2.3 Websites 4.2.4 m-learning 4.2.5 Creations of e-portfolio 4.2.6 Web based learning 4.2.7 Blog creation 4.2.8 Designing virtual classroom 4.2.9 Use of smart board.	Lab resourcesDiscussionDemonstrationICT resources	 Observation Assignment Material submission

Unit- V: PROFESSIONAL DEVELOPMENT OF TEACHERS

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Appraises the	5.1 Teaching as a	Lecture	 Participant
teaching profession	profession	 Discussion 	observation
2. Identifies the	5.2 Pre-service and in-	• Debate	 Report based
qualities of science	service programme		on debate
teacher	5.3 Role of reflective		
3. Participates in	practices on		
various	professional		
activities	development		
	5.4 Qualities of a science		
	teacher		
	5.4.1 Professional		
	competencies		
	5.4.2 Soft skills		
	5.4.3 Technological		
	skills.		

SUGGESTED ACTIVITIES (Any two):

- 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

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- 2. Radha, Mohan (2010). Teaching of physical science. New Delhi: Neelkamal Publishers.
- 3. Sharma.R.C. (2006). Modern Science Teaching. New Delhi: DhanpatRai Publications.
- 4. Sivarajan, K., & Faziluddin. A. (2006). Science Education, Calicut University, CentralCo.
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- 1. Bhatia.K.K. (2001). Foundations of teaching learning process. Ludhiana: Tandon Publication.
- 2. Das.R.C. (1985). Science teaching in schools. New Delhi: SterlingPublishers.
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- 4. Mangal.S.K.., &UmaMangal. (2009). Essentials of Educational Technology. New Delhi: PHI Learning Pvt.Ltd.
- 5. Mathew.T.K., &Mollykutty.T. M. (2011). Science education: Theoretical bases of teaching and pedagogic analysis. Chenganoor: Rainbow Book Publishers.
- 6. Mishra.R.C (2008). Lesson Planning. NewDelhi: APH Publishing Corporation.
- 7. Panner, Selvam. A. (1976). Teaching of Physical Science, Government of Tamil Nadu.

Course Code: BED4DP01 Developing Professional Competencies

B.Ed.Degree Programme Semester-IV YOGA FOR PROFESSIONAL EXCELLENCE

(2 Credits- 60 Hours)

EX COURSE OBJECTIVES:

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

- 1. understand the aim of yoga and its significance
- 2. understand the meaning and significance of Asanas, Pranayama, and meditation
- 3. understand the meaning and significance of Mudra.
- 4. understand the importance of good posture.

At the end of the course the student teachers know

- History of Yoga and IndianPhilosophy
- Concepts of various religions.
- Principles of Yoga
- Concept of Yoga exercise forlongevity
- General principles of life,
- Know Self, family, relative, society andworld
- Physiology ofyoga
- Biomechanics in yoga
- YogaTherapy
- Causes and Treatment through yoga for Hypertension, Diabetic,
- Obesity and Thyroid, Asthma and Sinus etc
- Neutralization of anger and Eradication ofworries
- Harmonious relationship withsociety
- Virtuous way ofliving
- Types of Yoga and Uses
- Identify the Personal problems and their solution
- Benefits of Meditation

Tasks and Assignments:

- 1. Write a detailed report on yoga.
- 2. Physiological and Biomechanical uses ofyoga.
- 3. Merits of Meditation.

Course Code: BED4DP02 Developing Professional Competencies

B.Ed.Degree Programme Semester-IV DRAMATICS AND ARTS IN EDUCATION

(2 Credits- 60 Hours)

The aim of this course is to enhance the professional capacities of a student-teacher, specifically his / her creativities and aesthetic sensibilities.

EX COURSE OBJECTIVES:

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

- 1. use the techniques of art, music and drama for enhancing teaching and learning.
- 2. use art, music and drama for enhancing one's self- expression and reativity.
- 3. identify and recognize the experts in art, music and drama in the community and involve them for enhancing of teaching-learning process.

 How to use art, music and drama in Education.

The teachers in Colleges of Education should:

- 1. With fine arts experts, engage the student-teachers in making a work of art/a drawing/a sketch/a sculpture/a statue relating to school subjects, in doing an oil painting/a line drawing/ a rough sketch, in painting a picture/landscape/mural/in oils/in water colours/ draw a picture/ a protract /a cartoon / a line / a figure / a human form/ in charcoal /inink.
- 2. Engage the student-teachers in visiting art galleries /art exhibitions and culturalfestivals
- 3. Encourage the student-teachers to understand local culture and art forms and interpret art works, movies and other media.
- 4. Train the student-teachers to use drama to interrogate/question and seek clarity in the areas of 'discomfort' and 'confusion' to them (such as completely segregated social environments, bounded by caste, class, religions or gender etc).
- 5. Train the students-teachers in choosing themes and stage them as skits plays/dramas/street plays, so that they can develop the ability to feel empathy for and relate withothers.
- 6. Engage the student-teachers to nurture and build their sensitivities through drama, based on experience, emotions and interpretation.

- 7. Guide the student-teachers to identify and recognize local artists, drama experts in schools/ colleges and use them for transformational action.
- 8. Guide the student-teachers to experience and stage different kinds of drama/skits/streetplays/folk and contemporary traditions relating to day-to-day problems of people of different walks of life.
- 9. Invite local experts in music and explore the possibilities of teaching certain Contents in school subjects throughmusic.
- 10. Preparing four lesson transcripts using dramatization technique in their concernedsubject.
- 11. Teaching two lessons (One each in Level I & level II) using role play during internship programme.

Suggested Activities (Any Two):

- 1. Write a detailed report on how you have used drama as a technique for teaching your school subject.
- 2. Write a comprehensive report on how you have used fine arts and music for teachingyour schoolsubject.
- 3. Write a comprehensive report on the activities carried out for the course on 'Dramatics and Arts in Education'.