Course Code: BED1CC001 Core Course

# B.Ed. Degree Programme Semester-I PERSPECTIVES ON EDUCATION

(4 Credits – 120 Hours)

## **Z** COURSE LEARNING OUTCOMES:

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

- 1. Examine the relationship between Education and Philosophy
- Contrast the educational implications of Indian schools of philosophy and western schools of philosophy
- 3. Compare the contributions of Indian thinkers and Western thinkers on education
- 4. Describe the features of universities in Ancient India.
- 5. Analyse the development of education in ancient Tamil Nadu
- 6. Explain the education system prevailing in Ancient India.
- 7. Outline the development of education during medieval period
- 8. Discuss the impact of the British policies, acts, and reports on education in India.

**Unit- I: EDUCATION AND PHILOSOPHY** 

<b>Learning Outcomes</b>	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Defines education</li> <li>Differentiates         among formal,         informal and nonformal education</li> <li>Appraises the         aims and         functions of         education</li> <li>Analyses the role         of family,         community,         school and media         as agencies of         education.</li> <li>Explains the         scope of         Philosophy.</li> <li>Examines the         relationship         between         education and         philosophy</li> </ol>	<ul> <li>1.1 Education:     Meaning,     definition, nature     and scope     (formal, informal     and non-formal)</li> <li>1.2 Functions of     education</li> <li>1.3 Aims of     education -     (individual, social     and national) and     the four pillars of     education.</li> <li>1.4 Agencies of     education -     family,     community,     school and     media.</li> <li>1.5 Philosophy:     meaning,     definition and     scope     (meta - physics,     epistemology     and axiology).</li> <li>1.6 Relationship     between     philosophy and     education</li> </ul>	<ul> <li>Seminar</li> <li>Assignment</li> <li>Lecture</li> <li>Peer learning</li> <li>Preparing Reports</li> </ul>	<ul> <li>Observation</li> <li>Assignment</li> <li>Report of discussion</li> <li>Tests (oral &amp;written)</li> <li>Report of seminar</li> </ul>

Unit-II: INDIAN SCHOOLS OF PHILOSOPHY AND EDUCATIONAL THINKERS

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1. Examines the educational implications of Indian schools of philosophy	2.1.Indian schools of philosophy- 2.1.1Vedanta, 2.1.2Buddhism and 2.1.3Jainism (Educational	<ul> <li>Seminar</li> <li>Assignment</li> <li>Lecture</li> <li>Peer learning</li> <li>Small group</li> <li>Discussion</li> <li>Movie</li></ul>	<ul> <li>Observation</li> <li>Assignment</li> <li>Report of discussion</li> <li>Tests (oral &amp; written)</li> </ul>
2. Evaluates the	implications – aims, curriculum, methodology, and discipline) 2.2. Educational		• Report of seminar
contributions of Indian thinkers on education	thoughts 2.2.1Thiruvallavur 2.2.2.Swami Vivekananda, 2.2.3.Rabindranath Tagore 2.2.4. Mahatma Gandhi, (contributions to the field		

## Unit-III: WESTERN SCHOOLS OF PHILOSOPHY AND EDUCATIONAL THINKERS

Learning Outcomes	Content	Suggested Strategies and Approaches		Assessment
1. Examines the educational implications of western schools of philosophy 2. Evaluates the contributions of Western thinkers on education	3.1Idealism, 3.2Naturalism and 3.3Pragmatism (Educational implications — aims, curriculum, methodology, and discipline)  3.4 Educational thoughts 3.4.1. Rousseau, 3.4.2.Dewey 3.4.3Paulo Freire 3.4.5. Ivan Illich	<ul> <li>Seminar</li> <li>Assignment</li> <li>Lecture</li> <li>Peer learning</li> <li>Small group discussion</li> </ul>	•	Observation Assignment Report of discussion Tests (oral & written) Report of seminar

Unit- IV: EDUCATIONAL HERITAGE OF ANCIENT INDIA

Learning Outcomes	Content	Suggested strategies and Approaches	Assessment
1.Explains the education system prevailing in Ancient India. 2. Describes the features of universities in Ancient India. 3. Analyses the development of education in ancient Tamil Nadu	4.1.Education in Ancient India. 4.1.1Vedic period, 4.1.2Jain period and 4.1.3Buddhist period (schools, role of the teacher, nature of educational institutes). 4.2 Universities in Ancient India: 4.2.1.Vikramshila 4.2.2.Takshashila, 4.2.3.Nalanda and 4.2.4.Valabhi 4.3. Growth of Education in ancient Tamil Nadu	<ul> <li>Seminar</li> <li>Assignment</li> <li>Lecture</li> <li>Peer learning</li> <li>Small group discussion</li> </ul>	<ul> <li>Observation</li> <li>Assignment</li> <li>Report of discussion</li> <li>Tests (oral &amp; written)</li> <li>Report of seminar</li> </ul>

Unit- V: EDUCATION DURING MEDIEVAL AND BRITISH PERIOD

Learning Outcomes	Content		Suggested Strategies and Approaches		Assessment
1. Describes the development of education during medieval period 2. Discusses the impact of the British policies, acts, and reports on education in India	5.1 Education during Medieval Period (aims, schools, role of the teacher, nature of educational institutes).  5.2 Education during British period: 5.2.1.Charter Act of 1813 5.2.2.Macaulay's Minutes 5.2.3.Wood's Despatch – 1854 5.2.4.Wardha Scheme of Education and 5.2.5.Sargent Report – 1944	•	Seminar Assignment Lecture Peer learning Small group discussion	•	Observation Assignment Report of discussion Tests (oral & written) Report of seminar

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

- 1. Prepare a report on the importance of home, school, community and media in quality education.
- 2. Prepare a presentation on educational heritage of ancient India
- 3. Prepare a report on educational implications of Indian schools of philosophy
- 4. Prepare report on the relevance of Vedic/ Buddhist/ Islamic educational ideas for present school education.

## **□**PRESCRIBED READINGS

- 1. Aggarwal, J.C. (2012) Development of education system in India. Delhi: Shipra Publications.
- 2. Bhatia, K.K. & Narang, C.L. (2008). *Philosophical And Sociological Bases of Education*. Ludhiana: Tandon Publications.
- 3. Brubacher, J. S.(1962). *Modern Philosophies of Education*. New Delhi: Tata McGraw.
- 4. Chithra, Madhavan (2013) Sanskrit Education and Literature in Ancient and Medieval Tamil Nadu: An Epigraphical Study.D.K.Printworld New Delhi.
- 5. Chakarborty, A.K. (2008). Education In Emerging Indian Society Meerut: R.Lall Book Depot.
- 6. Chaube.S.P&Chaube.A.(2000). Philosophical And Sociological Foundation of Education. Agra: Vinod Pusthak Mandir.
- 7. Dash,B.N (2011). *Teacher and Education in the Emerging Indian Society*. New Delhi: Neelkamal Publication.
- 8. Gupta.S.(2005). Education In Emerging India. New Delhi: Shipra Publications
- 9. Nagarajan K., Natarajan .S & D Sittaraman (2013) *Education in the emerging Indian society*. Sriram publishers, Chennai.
- 10. Samuel Ravi.S(2016.) *A Comprehensive Study of Education*.PHI Learning Pvt. Ltd.
- 11. Sharma, R.N. (2003). *Philosophy And Sociology Of Education*. New Delhi: Surject Publications.
- 12. Sharma, R.S. (2006). Education In Emerging Indian Society. New Delhi: Excellent Books.

- 13. Singaravelu G. (2012). *Education in the emerging Indian Society*. New Delhi: Neelkamal Publications.
- 14. Srinibas Bhattacharya. (2002). *Philosophical Foundations of Education*. New Delhi: Atlantic Publishers And Distributors.
- 15. SunandaGhosh.(2009). Education In Emerging Indian Society. New Delhi: Phi Learning Private Ltd.
- 16. Swaroop Saxena N.R & Shikha Chaturvedi. (2013). *Teacher in Emerging Indian Society*. Meerut:R. Lall Book Dep.,

#### SUGGESTED READINGS

- 1. Chaube.(1999) *Education in Ancient and Medieval India*. Vikas Publishing house
- 2. Delors, J. (1996). *Learning: The treasure within* Report to UNESCO of the International Commission on Education for 21st Century
- 3. Francis S. Muthu (2020) History of Education in Tamil Nadu (From Ancient Times to 1970) Publisher: Institute of Asian Studies, Chennai
- 4. Jayapalan N (2005) History of Education in India Atlantic Publishers & Distributors Pvt Ltd
- 5. Keay, F.E. · Karve(1960) A History of education in India and Pakistan 4th ed. Oxford University Press London
- 6. Mukherji, S.M., (1966). History of Education in India, Acharya Book Depot, Baroda
- 7. Mookerji, RadhaKumud (1947 )Ancient Indian education, Macmillan and Co, London
- 8. Naik, J.P. & Syed, N., (1974). A Student's History of Education in India, MacMillan, New Delhi.
- 9. Naik, J.P. & Syed, N., (1974). History of Education in India, MacMillan Co Ltd. London
- 10. Pruthi.R.K (2017) Education in Ancient India, Sonali publications, New Delhi
- 11. Tedesco Juan Carlos.(1994.) Thinkers on Education. UNESCO Publishing Oxford IBH Publishing.
- 12. Yogendra K Sharma. (2002.) The Doctrines of The Great Indian Educators. New Delhi: Kanishka Publishers.

Course Code:BED1CC002

Core Course

## B.Ed. Degree Programme Semester- I CHILD AND DEVELOPMENT

(4 Credits - 120 Hours)

## **Z** COURSE LEARNING OUTCOMES:

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

- 1. Enumerate the basic concept, scope and branches of Educational psychology and its relevance in class rooms
- 2. Implement different methods of psychology in classroom contexts
- 3. Differentiate between growth and development
- 4. Propose remedial measures for various psychological problems
- 5. Investigate the different features and dimensions of development and implement the suggestions
- 6. Implement the contributions of various theories of development in the classroom context
- 7. Interpret the various theories of intelligence and their implications
- 8. Generate various ways to foster creativity among students
- 9. Differentiate the characteristics of types of personality and its theories
- 10. Identifies various defense mechanisms
- 11. Appraise the role of teachers in improving the mental health among students

## Unit- I: INTRODUCTION TO PSYCHOLOGY

Learning		Content	Suggested	Assessment
Outcomes			Strategies and	
			Approaches	
<ol> <li>Explains the meaning, nat and branches psychology</li> <li>Defines the meaning, scorof education psychology.</li> <li>Applies relevof educationary psychology in classroom</li> <li>Identifies the importance of child psychology.</li> <li>Describes the meaning, scorof educationary psychology.</li> </ol>	ture, s of 1.2 ope al 1.3 vance al 1.4 of ology	Psychology: meaning, nature and branches. Educational Psychology: meaning, nature, scope and relevance of educational psychology to teacher. Child Psychology: meaning, scope and importance Methods of psychology: 1.4.1Introspection 1.4.2 Observation 1.4.3 Interview 1.4.4 Case-study 1.4.5Clinical method	<ul> <li>Approaches</li> <li>Lecture/briefing</li> <li>Group discussion</li> <li>Assignment</li> <li>Seminar through visual presentation</li> <li>QA session</li> <li>Peer learning</li> </ul>	• Test (written/oral) • Assignment • Seminar

and techniques of psychology	1.4.6Experimental method 1.4.7Cross sectional and Longitudinal Methods.		
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**Unit-II: BASIC CONCEPTS OF DEVELOPMENT** 

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Explains the meaning, characteristics and principles of development</li> <li>Identifies the various stages of development.</li> <li>Describes the characteristics of childhood and adolescence</li> <li>Analyses the factors affecting development</li> <li>Realizes the present scenario, problems and needs of children and adolescents         Classifies the developmental tasks of children     </li> </ol>	<ul> <li>2.1 Growth and development: Meaning and characteristics</li> <li>2.1.1 Principles of development.</li> <li>2.1.2 Factors affecting development</li> <li>2.1.3 Stages of development.</li> <li>2.2 Developmental tasks.</li> <li>2.3 Childhood: Meaning, nature&amp; characteristics</li> <li>2.4 Adolescence: meaning, nature&amp; characteristics</li> <li>2.5 Problems of development with reference to childhood to adolescence:</li> <li>2.5.1 Child abuse,</li> <li>2.5.2 Anxiety disorders</li> <li>2.5.3 Depression</li> <li>2.5.4 Delinquency</li> <li>2.5.5 Eating disorders</li> </ul>	<ul> <li>Lecture through visual presentation</li> <li>Group discussion</li> <li>Assignment</li> <li>Seminar</li> <li>Talk by experts</li> <li>Debate</li> <li>Brainstorming</li> <li>Peer learning</li> </ul>	<ul> <li>Test(written/oral)</li> <li>Assignment</li> </ul>

## **Unit-III DIMENSIONS AND THEORIES OF DEVELOPMENT**

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Analyzes the characteristics and educational implications of various dimensions of development with reference to childhood to adolescence.</li> <li>Explains the factors influencing various dimensions of development.</li> <li>Applies the implication of various theories in the classroom context.</li> </ol>	development.  3.1.3 Emotional development	<ul> <li>Lecture through visual presentation</li> <li>Group discussion</li> <li>Assignment</li> <li>Seminar</li> <li>Talk by experts</li> <li>Panel discussion</li> <li>Brainstorming</li> </ul>	• Test (oral/written) • Assignment

## **Unit-IV: INDIVIDUAL DIFFERENCES**

	Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>3.</li> <li>4.</li> </ol>		4.1 Areas of individual differences 4.1.1 Attitude 4.1.2 Interest 4.1.3 Values 4.1.4 Aptitude 4.2 Intelligence: concept, definitions. 4.3 Theories of intelligence: 4.3.1 Spearman' two factor 4.3.2 Guilford' structure of intellect 4.3.3 Thurstone's group factor 4.3.4 Gardner's multiple intelligence 4.4 Intelligence tests: types merits and demerits 4.5 Creativity-meaning and nature 4.5.1 Characteristics of	Strategies and	•Test (written/oral ) •Assignment evaluation •Seminar
		4.5.1 Characteristics of creative learner 4.5.2 Process of creativity 4.5.3 Teacher's role in fostering creativity		

Unit-V: PERSONALITY, ADJUSTMENT AND MENTAL HEALTH

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Explains the meaning and characteristics</li> <li>Analyses the theories of personality and their implications</li> <li>Describes various techniques to assess the personality of an individual.</li> <li>Applies the mechanisms of adjustment in various situation</li> <li>Identifies the role of teachers for improving of mental health of child</li> </ol>	5.1 Personality: meaning, and characteristics, 5.2 Theories of personality: 5.2.1 Type theory 5.2.2 Trait theory 5.2.3 Type cum Trait theory 5.2.4 Freud's Psychoanalytic theory 5.3 Assessment of Personality 5.3.1 objective techniques 5.3.2 subjective techniques 5.3.3 projective techniques 5.4 Adjustment: Meaning, and importance 5.4.1 Mechanisms of adjustment 5.4.2 Maladjustment - Concept and its effect. 5.5 Mental health:     Meaning, factors influencing mental health. 5.5.1 Role of teacher on improving mental	$\mathcal{C}$	<ul> <li>Test (written/oral)</li> <li>Assignment</li> <li>Seminar</li> </ul>
	health of children.		

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

- 1. Prepare a report on various types of child abuse.
- 2. Prepare a report on the current issues of adolescents and suggest suitable remedies.
- 3. Study the mental health of high school students and prepare a report on it.
- 4. List out the various activities to develop multiple intelligences

## **PRESCRIBED READINGS**

- 1. Agarwal.J.C.(2004). *Essentials of Educational Psychology*. NewDelhi: Vikas Publishing House.
- 2. Agarwal.J.C. (2004). *Basic ideas in Educational Psychology*. New Delhi: Shiprapublications.
- 3. Antony.A. (1998).A textbook of Educational Psychology of guidance and counseling.Herbert.
- 4. Aruna, Balachandra.(2008). *Elements of psychology and mental hygiene*. Universities Press.
- 5. Baron A. Robert (2000). *Psychology*, New Delhi: Prentice Hall of India.
- 6. Bert Lawra.E. (2014). Child development, New Delhi: PHI.
- 7. Bhatia H.R. (2005). *A text book of educational psychology*, New Delhi: Macmillan India Ltd.
- 8. Bhatnagar. S.,& Saxena. A. (2004). *Advanced educational psychology*. Surya publication, Meerut.
- 9. Chauhan.S.S. (2007). *Advanced educational psychology*. Vikas publishing house.
- 10. Dandapani.S. (2007). *Advanced educational psychology*. NewDelhi: Anmol Publications.
- 11. Elizabeth.B. (1977). *Developmental psychology*.NewDelhi:TataMcGraw Hill Publishing Company.
- 12. Feldman S.R (2012). *Psychology*. New Delhi: Tata McGraw Hill educationPvt Ltd.
- 13. Fernald.L. Dodge., & Fernald, Peter.S. (2001). *Introductions to Psychology*. A.I.T.B.S.Publishers.
- 14. GovindaRao.L. (2007). *Perspectives on Special Education*. Hyderabad: Neelkamal Publications Pvt Ltd.
- 15. Hurlock, Elizabeth. B. (1973). *Adolescent development*, New Delhi: McGraw Hill Book Company.
- 16. Hurlock, Elizabeth.B (2015). *Child development*. New Delhi: Mc.Graw Hill Education.

- 17. Kuppuswamy. B.(2010). *Advanced educational psychology*. New Delhi: Sterling publisher's private limited.
- 18. Legge Karen & Harari Philippe. (2000). *Psychology and education*. London: Heinemann Educational Publishers.
- 19. Mangal, S.K(2002). *Advanced Educational Psychology*". New Delhi: PHI Learning PrivateLtd.
- 20. Mangal.S.K. (2007). Essentials of Educational Psychology. NewDelhi: Prentice hall of India.
- 21. Mangal.S.K (2007). *Educating Exceptional Children*. New Delhi:PHI Learning Private Ltd.
- 22. Mangal.S.K (2004). *Psychology of Learning and Development*. Ludhiana:Tandon Publications.
- 23. Munsinger .H. (1975). *Readings in child development. New York: Holt Rinehartwinson.*
- 24. Nagarajan.K.,& Devaseetharaman.(2013). *Psychology of learning and humandevelopment*. Chennai :Sriram Publishers.
- 25. Papalia D.E., & Sally W.O. (1978). *Human development*. McGraw Hill Publishingcompany.
- 26. Robert S Feldman(2012). *Psychology and your life*. New Delhi: Tata McgrawHillPublishing.
- 27. Schaffer R.H (2004). *Introducing child psychology*. New Delhi: black wellpublishing.
- 28. Scott, Ruth & Scott .W. A(1998).Adjustment of adolescents.London: Routledge and KeganPaulLtd.
- 29. Sharma N. (2003). *Understanding adolescence*. New Delhi: NBT.
- 30. Sharma.R.A(2008). Fundamentals of special education. Meerut :R.LallBookDepot.
- 31. Sharma. Y (2004). *A textbook of educational psychology*. New Delhi:kanishka publisher.
- 32. Skinner E.C.(2011). *Child psychology*. New Delhi:Neelkamal Publication.
- 33. Suman, Verma & Saraswathi, T.S(2002). *Adolescence in India*. New Delhi Rawat Publication.
- 34. Timpe A Dale (2001). *Creativity*. Jaico Publishing House.
- 35. Vijaya, kumara Kaushik., & Sharma.S.R. (2004). *Social Psychology and Education*". Anmol Publication.
- 36. Young Kimball (2001). *Personality and Problems of Adjustment*. New Delhi: Surjeet Publications.

## **□**SUGGESTED READINGS

- 1. Harry Adler. *Boost your creative intelligence*. New Delhi: Kogan Page India Pvt Limited.
- 2. Anit, Woolfolk (2003). *Educational Psychology*. New Delhi: Pearson Education India.
- 3. De CeccoJohn.P.and William Crawford. (1988). *The Psychology of Learning and Instruction* (Ed.), New Delhi: Prentice Hall of India.
- 4. Dunlop.F. (1971). *The Education of Feeling and Emotions*, London: George Allen and Unwin.
- 5. Erik Erikson (1968). Childhood and society, New York: W.W. Norton&Co.
- 6. Guilford.J.P.(1977). *The Nature of human intelligence*.New York: McGraw Hill.
- 7. Hurlock.B. (1976). *Personality development*, New Delhi: Tata McGraw –Hill Publishing Company LTD.
- 8. Rajammal.P, Devadas, Jaya.N. (1984). *Child Development*, Macmillan Press Limited.

Course Code: BED1PC001 Pedagogic Course

## B.Ed. Degree Programme Semester- I ASSESSMENT OF LEARNING

(4 Credits- 120 Hours)

## **COURSE LEARNING OBJECTIVES:**

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

- 1. Identify the relevance of measurement, assessment and evaluation in learning.
- 2. Exemplify Assessment for learning and Assessment of learning.
- 3. Compare and contrast the types of evaluation.
- 4. Decide the tools of evaluation.
- 5. Employ the appropriate technique of evaluation.
- 6. Integrate the characteristics of a good evaluation tool.
- 7. Perceive the practices and trends in assessment and evaluation.
- 8. Acknowledge digital tools for assessment.
- 9. Estimate the drawbacks of present assessment system.
- 10. Implement the application of statistics in assessment.

## **Unit- I: INTRODUCTION TO EVALUATION**

Le	arning Outcomes	Content	Suggested Strategies and Approaches		Assessment
1.	Finds the	1.1 Measurement,	Discussion	•	Test
	relevance of	Assessment and	• Lecture		(oral/written)
	measurement in	Evaluation-	Peer learning	•	Assignment
	education.	meaning and	• Seminar	•	Seminar
2.	Relates	relevance	• Digital		
	measurement, assessment and evaluation.	1.2 Functions of Assessment- assessment for	presentation		
3.	Estimates the functions of assessment.	learning and assessment of learning			

4. Differentiates	the 1.3 Types of	
types of	Evaluation	
evaluation	1.3.1.Formative	
	and	
	Summative	
	1.3.2.Internal and	
	External	
	1.3.3.Norm-	
	referenced	
	and Criterion-	
	referenced.	

Unit- II: TOOLS AND TECHNIQUES OF EVALUATION

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Outlines the various tools for evaluation.</li> <li>Determines the different techniques of evaluation.</li> <li>Diagnoses the characteristic s of a good evaluation tool.</li> </ol>	2.1. Assessment Tools - concept, merits, demerits 2.1.1.Tests, 2.1.2.Checklist, 2.1.3.Rating scale, 2.1.4.Cumulative record, 2.1.5.Questionnaire, 2.1.6.Inventory, 2.1.7.Schedule, 2.1.8.Anecdotal record 2.2 Techniques of Assessment: 2.2.1.Observation 2.2.2.Interview 2.2.3.Self Reporting. 2.3 Characteristics of a good evaluation tool: 2.3.1.Validity and 2.3.2.Reliability, Objectivity and Practicability.	<ul> <li>Group discussion</li> <li>Workshop</li> <li>Peer learning</li> <li>Discussion</li> <li>Lecture-demonstration</li> <li>Demonstration</li> <li>Assignment</li> <li>Digital presentation</li> </ul>	<ul> <li>Test         (oral/written)</li> <li>Tool         construction</li> <li>Observation</li> <li>Assignment</li> <li>Seminar</li> </ul>

Unit- III: PRACTICES AND TRENDS IN ASSESSMENT AND EVALUATION

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
4. Agrees to the drawbacks of	evaluation 3.3 Skill India Mission 3.4 National Testing Agency	<ul> <li>Lecture</li> <li>Discussion</li> <li>Digital presentation</li> <li>Peer learning</li> <li>Seminar</li> <li>Debate</li> <li>Invited Talks</li> </ul>	<ul> <li>Test(oral/written)</li> <li>Assignment</li> <li>Seminar</li> <li>Report writing</li> <li>Debate</li> </ul>
	assessment system.		

**Unit- IV: STATISTICS IN EDUCATION** 

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Infers the need for statistics in education.</li> <li>Designs different graphical representation s of data.</li> </ol>	NT 1 11	<ul> <li>Lecture</li> <li>Peer learning</li> <li>Group discussion</li> <li>Assignment method</li> </ul>	<ul> <li>Class test</li> <li>Presentation of report</li> <li>Home assignment</li> </ul>

**Unit- V: STATISTICAL METHODS OF ANALYSIS** 

	Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
	Classifies various statistical methods of analysis. Computes the	5.1Statistical methods of analysis 5.1.1 Measures of central tendency - Mean, Median, Mode. 5.1.2 Measures of variability: a) Mean deviation b) Quartile deviation	<ul> <li>Lecture</li> <li>Peer <ul> <li>learning</li> <li>Group</li> <li>discussion</li> </ul> </li> <li>Assignment</li> </ul>	<ul><li>Class test</li><li>Presentation of report</li><li>Home assignment</li></ul>
	measures of central tendency and variability	c) Standard Deviation 5.2.Measures of Relationship 5.2.1Concept 5.22 Types of Correlation	method	
3.	Uses the statistical methods to solve problems	5.2.3 Coefficient of correlation, 5.2.4 Spearman's Rank Order Correlation. 5.2.5 Pearson's Product		
4.	Appraises the distribution of scores on a Normal	Moment Correlation 5.3 Percentile and percentile ranks. 5.4 Normal distribution 5.4.1 Normal probability curve and its		

Probability	characteristics	
Curve.L5		

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

- 1. Conduct a group discussion on the role of students and teachers in formative assessments. Identify the barriers for conducting formative assessments.
- 2. Prepare an online tool for measuring any of the affective outcomes of the learner, administer it to a group of students (N>30) and interpret the result.
- 3. Visit a nearby school and collect information from teachers regarding the recent trends in the present assessment system and prepare a report.
- 4. Find out the coefficient of correlation existing between two sets of scores in school subjects.

## **PRESCRIBED READINGS**

- 1. Aggarwal.Y.P. (1998). *Statistical Methods-Concepts, Applications and Composition*. New Delhi: Sterling Publications Pvt. Ltd.
- 2 Amarjit Singh (2007), 'Classroom Management' Kanishka publishers, Distributors, New Delhi.
- 3. Ebel, R.L. and Freshie, D.A. (2009). Essentials of Educational Measurement, New Delhi: PHI Learning Pvt. Ltd.,
- 4. Linn& Miller (2008), *Measurement and Assessment in Teaching*, 9<sup>th</sup>ed., New Delhi, Pearson Education.
- 5. McMillan, J. (2013). Classroom Assessment: Principles and Practice for Effective Standards-Based Instruction, 6th ed. Boston, MA: Pearson.
- 6. Mangal, S.K. (1984) Psychological foundations of Education, Ludhiana: Prakash Publishers.
- 7. NCERT(1985). Curriculum and Evaluation, New Delhi
- 8. Nitko, A.J. (2001). Educational assessment of students (3rd ed.). Upper Saddle River, NJ: Prentice Hall.
- 9. Parker, Jessica K.(2012). *Teaching Tech-Savvy Kids- Bringing Digital Media into the Classroom, Grade 5-12*. New Delhi: SAGE Publications. Pvt. Ltd.
- 10. Pathak. (2012). *Measurement and Evaluation in Education*, New Delhi: Pearson Education.
- 11. Singaravelu.G. (2017). *Assessment for Learning*. Hyderabad: Neelkamal Publications.

#### **□**SUGGESTED READINGS

- 1. Care, Esther, McGraw, Barry & Griffin, Patrick (2012). *Assessment and Teaching of21*<sup>st</sup> Century Skills. New York:Springer.
- 2. Coolidge, Frederick L. (2013). *Statistics- A Gentle Introduction-*3rdedition. New Delhi: SAGE Publications Pvt.Ltd.
- 3. Jefferied, Julie & Diamond, Ian. (2013). *BeginningStatistics An Introduction for Social Scientists*. New Delhi: Sage Publications Pvt.Ltd.
- 4. Jimoyiannis, Athanassios. (2012). Research on E-learning & ICT in Education. New York: Springer.
- 5. Kist, William (2012). *The Socially Networked Classroom- Teaching in the New Media Age*. New Delhi: SAGE Publications Pvt. Ltd.
- 6. NCERT (2000): *National Curriculum for School Education*, NCERT, New Delhi.
- Nicols, Adelaide Doyle.Cox.J.Sabrina, Mims. Johnson, Ruth1s.,(2012).Developing Portfolios in Education- A guide to Reflection, Inquiry &Assessment -2<sup>nd</sup> edition. New Delhi: SAGE Publications Pvt. Ltd.
- 8. Palomba C. A., and Banta, T. W. (2001). Assessing student competence in accredited disciplines: Pioneering approaches to assessment in higher education (1<sup>st</sup> ed.). Sterling, VA: Stylus
- 9. Quinlan, Audrey.M.A *Complete Guideto Rubrics: Assessment Made Easy for Teachers*, KD College (2012).USA: Rowman Little field Education.
- 10. Roe, E., McDonald, R., & Moses, I. (1986). Reviewing academic performance: Approaches to the evaluation of departments and individuals. Manchester, NH: University of Queensland Press.
- 11. Reid, Howard M. (2013). *Introduction to Statistics-Fundamental Concepts and Procedures of Data Analysis*. New Delhi: SAGE Publications PvtLtd.
- 12. Sedlacek, W. E. (2004). Beyond the big test: Non cognitive assessment in higher—education. San Francisco: Jossey-Bass.
- 13. Sims, S. J. (1992). Student outcomes assessment: A historical review and guide to program development. Westport, CT: Greenwood.

Course Code: BED1PC002 Pedagogic Course

## B.Ed. Degree Programme Semester-I

## THEORETICAL BASES OF BIOLOGICAL SCIENCE EDUCATION

(4 Credits - 120 Hours)

## **EXECUTE AND SET OF SET**

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

- 1. Examine the nature of Science as a product and process
- 2. Classify the instructional objectives based on revised bloom's taxonomy
- 3. Develop instructional plan for teaching Biological Science
- 4. Distinguish year plan, unit plan and lesson plan
- 5. Select the appropriate methods of instruction in teaching Biological Science
- 6. Determine the various techniques of teaching Biological Science
- 7. Identify the different types of evaluation.
- 8. Construct achievement and diagnostic test in Biological Science.
- 9. Employ various resources for teaching Biological Science
- 10. Categorize the different resources for teaching Biological Science

Unit- I: AIMS AND OBJECTIVES OF TEACHING BIOLOGICAL SCIENCE

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Describes the nature of Science as a product and process</li> <li>Differentiates aims and objectives of teaching Biological Science</li> </ol>	and process 1.2 Aims and	<ul><li>Briefing/Lecture</li><li>Discussion</li><li>Seminar</li><li>Digital visual presentation</li></ul>	<ul> <li>Tests         (Written/Oral)</li> <li>Questioning</li> <li>Seminar         presentation</li> </ul>

3. Classifies general	1.3 General and	• Question	
instructional	specific	answer	
	instructional	session	
objectives and	objectives based on		
specific instructional	Bloom's taxonomy		
objectives	1.4 Bloom's Taxonomy		
5. Determines the	(Revised)		
objectives based on			
Revised Bloom's			
Taxonomy			

## **Unit- II: PLANNING OF INSTRUCTION**

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1. Designs unit plan 2. Develops unit plan 3. Prepares lesson plan based on Herbartian steps and lesson plan based on ALM	2.1.Year plan  2.2 Unit plan 2.2.1.Criteria of a good unit 2.2.2.Steps in unit plan  2.3 Lesson plan 2.3.1.Importance of planning a lesson 2.3.2.Characteristics of lesson plan 2.3.3.Herbartian steps in lesson planning 2.3.4.Lesson plan preparation based on Active Learning Methodology	<ul> <li>Lecture</li> <li>Group discussion</li> <li>Peer learning</li> <li>Workshop</li> <li>Lesson plan preparation</li> </ul>	<ul> <li>Lecture</li> <li>Group discussion</li> <li>Peer learning</li> <li>Workshop</li> <li>Lesson plan preparation</li> </ul>

Unit- III: METHODS AND TECHNIQUES OF TEACHING BIOLOGICAL SCIENCE

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1. Chooses the appropriate method of instruction for teaching Biological Science 2. Employs the relevant techniques to transact the content	3.1 Methods of instruction 3.1.1 Lecture method 3.1.2Demonstration 3.1.3Laboratory method 3.1.4Project method 3.1.5 Heuristic method 3.1.6 Assignment method 3.1.7Activity based learning 3.1.8Active learning methodology  3.2. Techniques of Teaching 3.2.1. Panel discussion 3.2.2. Brainstorming 3.2.3. Role playing 3.2.4. Seminar, 3.2.5. Symposium 3.2.6. Buzz Session	<ul> <li>Lecture</li> <li>Group discussion</li> <li>Brainstorming</li> <li>Digital Visual Presentation</li> <li>Assignment</li> <li>Seminar</li> </ul>	<ul> <li>Questioning</li> <li>Observation</li> <li>Test (oral/written)</li> <li>Observation of teaching</li> <li>Assignment evaluation</li> <li>Seminar presentation</li> </ul>

## Unit-IV: EVALUATION IN BIOLOGICAL SCIENCE

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Describes the concept and purpose of evaluation</li> <li>Identifies the importance of objective based evaluation</li> <li>Discriminates the formative and summative evaluation</li> <li>Classifies the different types of tests</li> <li>Lists out the types of test items</li> <li>Constructs different types of tests</li> </ol>	4.1.Concept of Evaluation 4.2.Objective based evaluation 4.3.Formative and summative evaluation 4.4.Different types of test items 4.5.Types of tests 4.5.1 Achievement Test 4.5.2 steps in construction 4.5.3Diagnostic test Steps in construction 4.5.3 Prognostic test	<ul> <li>Lecture</li> <li>Discussion</li> <li>Workshop</li> <li>Digital presentation</li> </ul>	<ul> <li>Tests         (written/oral)</li> <li>Preparation of         objective         based test         items</li> <li>Construction         &amp;         administration         of achievement         test and         diagnostic test</li> </ul>

Unit-V: RESOURCES FOR TEACHING BIOLOGICAL SCIENCE

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1. Chooses	5.1 Print resources	Lecture	• Observation
appropriate print	5.1.1. Textbooks-	Group	• Questioning
resources for teaching	qualities	discussion	• Tests
	qualities of a biology text book. 5.1.2.Workbook 5.1.3.Journals 5.1.4.Newspapers 5.1.5.Science encyclopedias 5.2 Visual resources- charts, flashcards models, posters Photographs  5.3 ICT resources- Smart phone, Internet Interactive whiteboard  5.4 Community resources— 5.4.1.Zoological gardens, 1.4.2 Botanical gardens 1.4.3 Aquarium  5.5 Laboratory and its organization 5.5.1.Laboratory plan 5.5.2. Laboratory	_	<ul><li> Tests (written/oral)</li><li> Reports</li><li> Tests</li></ul>
	registers and Lab rules		

## **SUGGESTED ACTIVITIES** (Any Two)

- 1. Prepare a unit plan in Biology for high school class.
- 2. Prepare a lesson plan based on Active Learning Methodology.
- 3. Select a unit and prepare visual resources for teaching Biological Science.
- 4. Prepare laboratory instruction cards for anyone standard.

## **PRESCRIBED READINGS**

- 1. Ameeta. P (2010). *Techniques of teaching Biological Science*. New Delhi: Neel Kamal Publications Pvt. Ltd.
- 2. Anju Soni. (2005). *Teaching of Biological Science*. *Ludhiana*: Tandon Publications.
- 3. Das R.C. (1992). Teaching of Science Amritsar M/S Krishna Bros.
- 4. Jasim, Ahmad. (2011). *Teaching of Biological Science*, New Delhi: PHI Learning.
- 5. Mangal .S.K. (2005). *Teaching of Biology. Meerut:* Chandigarh Loyalk Publications.
- 6. Sharma .R.C (1984) *Modern Science teaching*. Meerut: Dhanpatrai and sons.
- 7. Sivarajan & Faziluddin. A. (2005) Science Education Calicut: Calicut University Central Co-operative stores Ltd.
- 8. Sood J.K. (1985), *Teaching Life Science*. Delhi: Kohli Publications.
- 9. Sudha, Pahuja. (2010). *Teaching of Biological Sciences*. Meerut: R.Lall Book Depot.
- 10. Yadav, M.S (2003) *Teaching of Science*, New Delhi: Anmol publication.

## **□**SUGGESTED READINGS

- 1. Buffaloe, Neal, Thronberry. J.B. (1972) *Principles of Biology*. University press. New Delhi: Prentice Hall of India Ltd.
- 2. Saunders. H.N (1967). *The teaching of General Science in Tropical Secondary School.* London: Oxford University Press.
- 3. Bhatnagar.A.B. & Bhatnagar S.S (2010) *Teaching of Science*. Meerut: R. Lall Book Depot.
- 4. Bhuvaneswara, Lakshmi, G.SubbaRao. K. & Digumarti BhaskaraRao (2006). Methods of teaching Biology. New Delhi: Discovery publishing house.
- 5. S.P. Kulshreshtha. (2010). *Teaching of Science*, Meerut: R.Lall Book Depot.
- 6. Marlow Ediger. & D.Bhaskara Rao. (2005) *Teaching Science Successfully*. New Delhi: Discovery publishing house.

Course Code: BED1PC003 Pedagogic Course

# B.Ed.Degree Programme Semester-I THEORETICAL BASES OF ENGLISH EDUCATION

(4 Credits -120 Hours)

## **Z** COURSE LEARNING OUTCOMES:

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

- 1. Examine the aims and objectives of teaching English
- 2. Classify the instructional objectives based on revised Bloom's taxonomy
- 3. Develop instructional plan for teaching English
- 4. Compare the teaching of poetry, prose, grammar, supplementary and vocabulary
- 5. Select the appropriate method of teaching English
- 6. Evaluate the various approaches for teaching English
- 7. Identifies the different types of evaluation.
- 8. Construct achievement and diagnostic test.
- 9. Employ various resources for teaching English language.
- 10. Categorizes the different language support resources.

Unit- I: AIMS AND OBJECTIVES OF TEACHING ENGLISH

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1. Examines the aims and objectives of teaching English.	1.1 Nature and Scope of Language 1.1.1.Role of Language in Life 1.1.2.History of English language in India	<ul><li>Lecture-discussion</li><li>Seminar</li><li>Oral drill</li><li>Small Group Discussion</li></ul>	<ul> <li>Test (written/oral)</li> <li>QA Session</li> <li>Seminar Presentation</li> <li>Practice tests</li> </ul>
2. States the aims and objectives and divergent role of language in life.	1.1.3.Importance of English Language Learning 1.1.4.Language Skills – LSRW		
various organs of speech.	1.2 Phonology-Organs of speech- Classification of Consonants ,Vowels and Diphthongs- Received Pronunciation		
4. Classifies the objectives	1.3 Blooms Taxonomy of educational objectives (Revised)		

**Unit- II: PLANNING FOR INSTRUCTION** 

Learning	Content	Suggested	Assessment
Outcomes		Strategies and Approaches	
<ol> <li>Prepares         lesson plan         based on         herbartian         steps.</li> <li>Adapts the         teaching         content.</li> <li>Constructs         the various         types of         lesson plan.</li> </ol>	2.1 Yearplan, unitplan, lesson plan  2.2 Teaching of poetry, prose, composition, grammar, supplementary readers and vocabulary  2.3 Designing lesson plans for teaching /learning poetry, prose, composition, grammar and supplementary toyto.	<ul> <li>Demonstration by experts</li> <li>Practice under guidance</li> <li>Preparation of Group/individual lesson plans/teaching manual</li> </ul>	<ul> <li>Observation</li> <li>Submission         of lesson         Plans/         teaching         manuals</li> <li>Discussion         Lessons /         Criticism         lessons</li> </ul>
	supplementary texts.		

Unit- III: METHODS AND APPROACHES OF ENGLISH LANGUAGE TEACHING

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Chooses the appropriate method for teaching of English language	3.1 Methods :Grammar Translation Method, Direct Method, Bilingual Method, Dr.West's Method.	<ul> <li>Lecture-discussion</li> <li>Group discussion</li> <li>Visual Presentation/ Demonstration</li> </ul>	<ul><li> QA Session</li><li> Evaluation of Assignments</li></ul>
2. Employs the relevant approach for teaching of English language	3.2 Approaches: Situational Approach, Structural Approach Communicative Approach and Eclectic Approach in language teaching.		

Unit- IV: EVALUATION IN ENGLISH LANGUAGE TEACHING

	Learning Outcomes		Content		Suggested Strategies and Approaches		Assessment
1.	Describes	4.1	Evaluation	•	Digital	•	Test (oral/
	the concept		4.1.1 Concept and		presentation		written)
	of evaluation		Need	•	Group Discussion	•	Test
			4.1.2 Importance	•	Assignment		construction
2.	Differentiate		4.1.3 Qualities of			•	Seminar
	the		good test				presentation
	formative		4.1.4 Formative and				
	and		summative				
	summative		evaluation.				
	evaluation						
3.	Classifies the different	4.2	Types of test items				
	types of test items						
4.	List out the	4.3	Different types of test				
	types of test		4.3.1 Achievement				
			test				
			4.3.2 Diagnostic test				
			Prognostic test				
5.	$\mathcal{C}$	4.4	Construction of an				
	achievement		achievement test				
	test		Diagnostic test -Steps				
		4.6	Difference between				
			achievement and				
			diagnostic test				
		4.7	Remedial teaching in				
			English				

Unit- V: LANGUAGE LEARNING SUPPORT RESOURCES

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Employs         various         types of         teaching aids</li> <li>Develops         various         teaching aid</li> </ol>	<ul> <li>5.1 Teaching/learning resources-types</li> <li>5.2 Pictures-Charts-Flash Card-Models-Radio Tape Recorder-Video Clips-Interactive White Board-LCD (liquid crystal display) Projector-Internet CALL, (Computer Assisted Language Learning) Language Lab, magazines, newspapers, discussion, debates, workshops, seminar</li> </ul>	<ul> <li>ICT enabled group discussion.</li> <li>Hands-on experience with resources Assignment.</li> </ul>	<ul><li>QA Session</li><li>Quiz</li><li>Assignment Evaluation</li></ul>

## **SUGESTED ACTIVITIES-** (Any Two)

- 1. Prepare a vowel and consonant chart.
- 2. Identify and prepare different types of visual resources for teaching English.
- 3. Prepare activities and tasks for effective teaching by including audio-video materials, Information Computer Technology and Internet.
- 4. Prepare a lesson plan for teaching English Vocabulary.

## **□**PRESCRIBED READINGS

- 1. Alexander.L.G. (1975). *A first book in comprehension, précis and composition. Longman:* Hongkong.
- 2. Brewster Jean, GailElli., S & Denis, Giraf (1992). The primary English teacher's guide. Penguine Books: London.
- 3. Choudhary.N.R. (2002). *English Language Teaching*, Himalaya Publish House, Mumbai.
- 4. Cameron, Lynne (2001). *Teaching language to young learners*. Cambridge University Press: Cambridge.
- 5. Dave, Pratima.S (2002).Communicative Approach to the Teaching of Bachelor of Education English as a Second Language. Mumbai: Himalaya Publishing House.

- 6. Kohli A.L (2001). *Techniques of teaching English in the new millennium*. NewDelhi: DhanpatRai.
- 7. Singh.Y.K. (2005). *Teaching of English*. NewDelhi: APH Publishing Corporation.
- 8. Balasubramaniyan .T. (2005). A Text Book of English Phonetics for Indian students. Chennai: Macmillan Publication India Limited.

#### **USUGGESTED READINGS**

- 1. Grillett.M (1983).Developing Reading Comprehension, London: CUP.
- 2. HalbeMalati. (2005). Methodology of English Teaching, HimalayaPublishing House.
- 3. Parrot.M (1993). Tasks for the Classroom Teacher, London: Pergamon.
- 4. Davis, Paul & Mario Rinvolucri. (1988).Dictation: New Methods, NewPossibilities.Cambridge Handbook for Language Teachers.
- 5. Prabhu.N.S. (1987).Second Language Pedagogy. New York: Oxford UniversityPress.
- 6. Sahni, Geeta. (2006). Suggested Methodology of Teaching English.
- 7. Sunwani.V.K.(2005). The English Language and Indian Culture.

Course Code: BED1PC004 Pedagogic Course

## B. Ed. Degree Programme Semester - I

## THEORETICAL BASES OF HISTORY EDUCATION

(4 Credits – 120 Hours)

## **EXECUTE AND SET OF SET**

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

- 1. Examine the aims and objectives of teaching History
- 2. Classify the instructional objectives based on revised Bloom's taxonomy
- 3. Develop instructional plan for teaching history
- 4. Compare year plan, unit plan and lesson plan of teaching history.
- 5. Select the appropriate instructional method of teaching history
- 6. Determine the instructional techniques of teaching history
- 7. Identify the different types of evaluation
- 8. Construct different types of test for teaching history
- 9. Employ various resources for teaching history
- 10. Categorize the different resources for teaching

## Unit- I: CONCEPTS, AIMS AND OBJECTIVES OF TEACHING HISTORY

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Defines History</li> <li>States the         rationale of         including history         in school         curriculum</li> <li>Differentiate         aims and         objectives</li> <li>Classifies the         objectives based         on revised         Bloom's         taxonomy.</li> </ol>	<ul> <li>1.1 History – meaning and definitions</li> <li>1.2 Rationale of inclusion of History in school curriculum.</li> <li>1.3 Aims and objectives of teaching History at different levels: <ul> <li>i) Secondary,</li> <li>ii) Higher Secondary.</li> </ul> </li> <li>1.4 Values of teaching history</li> <li>1.5 Bloom's Taxonomy of instructional objectives (Revised)</li> </ul>	<ul> <li>Lecture</li> <li>Discussion</li> <li>Seminar</li> <li>Visual presentation</li> <li>Assignment writing</li> </ul>	<ul> <li>Test (Oral/written)</li> <li>QA Session</li> <li>Evaluating</li> <li>Assignment</li> </ul>

**Unit- II: INSTRUCTIONAL PLANNING IN HISTORY** 

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment	
1. Designs year plan. 2. Develops unit plan 3. Prepares lesson plan based on Herbartian steps 4. Compares unit plan and lesson plan	plan  2.3. Lesson plan- meaning  2.3.1. Importance of	<ul> <li>Lecture cum         Discussion</li> <li>Group         discussion</li> <li>Work shop         on lesson         plan writing</li> <li>Peer learning</li> </ul>	<ul> <li>Assessing the lesson plan</li> <li>Testing (oral/written)</li> <li>QA Session</li> </ul>	

Unit- III: INSTRUCTIONAL METHODS AND TECHNIQUES OF TEACHING HISTORY

	Learning Outcomes	Content		Suggested Strategies and Approaches	Assessment
2.	Chooses appropriate method for teaching of History  Differentiate	<ul><li>3.1. Factors determining selection of teaching method.</li><li>3.2 Methods and techniques of teaching History.</li><li>3.3.Teacher centered and</li></ul>	•	Lecture cum Discussion Report writing Seminar Peer learning Interactive	<ul> <li>Test (Oral/Written)</li> <li>QA session</li> <li>Report writing</li> <li>Assignment</li> </ul>
	teacher centered and learner centered methods	3.3.2. Demonstration 3.3.4 Active Learning		session	
3.	Employs relevant techniques of teaching	methodology 3.3.3. Dalton plan 3.3.4. Heuristic method 3.3.5. Project method 3.3.6. Source method 3.3.7. Problem solving method 3.3.8. Inductive and Deductive method 3.3.10 Brain storming			

**Unit- IV: EVALUATION OF HISTORY** 

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
formative and summative evaluation  2. Classifies the	construction 4.4.2.diagnostic test4.4.3.prognostic	<ul> <li>Lecture cum discussion</li> <li>Group Discussion</li> <li>Visual Presentation</li> <li>Assignment</li> </ul>	• Test (Oral/ Writte n) • QA Session • Evaluating Assignment

Unit-V: INSTRUCTIONAL RESOURCES IN TEACHING HISTORY

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Selects         <ul> <li>appropriate</li> <li>instructional</li> <li>resources</li> </ul> </li> <li>Locates         <ul> <li>historical</li> <li>resources for</li> <li>teaching</li> <li>history</li> </ul> </li> <li>Analyses the community         <ul> <li>resources for</li> <li>teaching</li> <li>history.</li> </ul> </li> </ol>	5.3. Community resources  – importance	<ul> <li>Lecture</li> <li>Discussion</li> <li>Interactive session</li> <li>Auto learning</li> <li>Preparation of list of resources</li> </ul>	<ul> <li>Evaluating assignment</li> <li>Test (Oral/Written)</li> <li>QA session</li> <li>Evaluation of report writing</li> </ul>

## SUGGESTED ACTIVITIES (any Two):

- 1. Prepare the instructional objectives and specifications based on revised Bloom's Taxonomy for teaching History.
- 2. Prepare a Year plan and Unit plan for Class VI.
- 3. Discuss any one current issue by organizing a brain storming session and prepare a report.
- 4. Prepare a report on various resources available in teaching/learning History at Secondary level.

### **PRESCRIBED READING:**

- 1. Aggarwal. J.C. (2003). *Teaching of History: A Practical approach*. New Delhi: Sterling publications.
- 2. Bhata. R.L.(2004). *Contemporary teaching of History*.(2<sup>nd</sup>.ed.). New Delhi: Surjeet publications.

- 3. Chandra, S.S., Shara, Amit., Upadhayaya, A.K. (2014). *Teaching of social science*. Meerut: Newdelhi.
- 4. Dash. B.N.(1998). Content and methods of teaching social studies. Ludhiana: kalian publishers.
- 5. Kaur, Jaskiran Vir. (n.d.). *Teaching of History*. Ludhiana: Tandon Publications.
- 6. Kumar.S.P.K.,&Nowshad.P.P.(2009). *Social studies in the class room*: Trends and met hods.
- 7. Kocchar. S.K. (1995). *Methods and techniques of teaching*. New Delhi: Sterling publishers.
- 8. Siddiqui, M.H.(2009). *Techniques of classroom teaching*. Newdelhi: APH Publishing Co-orporation.
- 9. Sivarajan.K., Thulasideeran ., & Vijayan.N.K.(2007). Social science education: Methods and techniques of teaching. Calicut: Calicut university co-operative store.
- 10. Srinivas, Murthi., Rao, IPrasad., & Rao, Digumarti Bhaskara. (2004). *Methodsofteachi ngHistory*. New Delhi: Discovery publishing.
- 11. Singh, Y.K. (2009). *Teaching of history: modern methods*. Newdelhi: APH publishing corporation.

#### **□**SUGGESTED READING

- 1. Anderson.W.L.,&Krathwohl.D.R.(2001).Taxonomy of Learning, Teaching and Assessing: *A revision of Bloom's Taxonomy of Educational Objectives. Handbook.* Newyork: Longman green & co.
- 2. Bloom.B.S.(1956). *Taxonomy of Educational Objectives: Cognitive Domain*. Newyork: David Mckay Co.
- 3. Bruner, Jerom.S. (1971). *Towards a theory of instruction*. Cambridge: Harward University press.
- 4. Clarck.L.H.(1974).*Teaching Social Studies in Secondary School* .(2<sup>nd</sup>ed.).Newyork (NY):Mcmillan.
- 5. Dash.B.N.(1998). Content and Methods of Teaching Social Studies. Ludhiana: Kalian publishers.
- 6. Deve, Pushkin (2009). *Methods and techniques of teaching*. New Delhi: Sterling publishers.
- 7. Edigar.M., & Rao.B (2003). *Teaching Social Studies Successfully*.New Delhi: Discovery publishing house.
- 8. Finer. (1953). *Teaching Techniques in Social Science*. Newyork: Bank street publishing.

Course Code: BED1PC005 Pedagogic Course

# B.Ed. Degree Programme Semester-I

#### THEORETICAL BASES OF MATHEMATICS EDUCATION

(4 Credits – 120 Hours)

### **COURSE OUTCOMES:**

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

- 1. Examine the aims and objectives of teaching Mathematics
- 2. Classify the instructional objectives based on revised Bloom's taxonomy
- 3. Develop instructional plan for teaching Mathematics
- 4. Distinguish year plan, unit plan and lesson plan
- 5. Select the appropriate method of teaching Mathematics
- 6. Determine the various techniques of teaching Mathematics
- 7. Identify the different types of evaluation.
- 8. Construct achievement test in Mathematics.
- 9. Employ various resources for teaching Mathematics.
- 10. Categorize the different resources for teaching Mathematics.

**Unit- I: AIMS AND OBJECTIVES OF TEACHING MATHEMATICS** 

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1. Describes the	1.1 Meaning and nature of	Lecture	• Tests
nature of	Mathematics	<ul> <li>Illustrations</li> </ul>	(oral/written)
		Auto instruction	• Report
Mathematics		<ul> <li>Digital</li> </ul>	Seminar
2. Explains the need	1.2Need and significance	presentation	presentation
of teaching	of teaching	Seminar	
Mathematics	Mathematics	<ul> <li>Discussions</li> </ul>	
		<ul> <li>Demonstration</li> </ul>	
3. States the aims of	1.3 Aims of teaching	<ul> <li>QA session</li> </ul>	
teaching	Mathematics		
Mathematics	1.3.1 Practical aim		
TVIALITE III ALICE	1.3.2 Social aim		
	1.3.3 Disciplinary aim		
	1.3.4 Cultural aim		
4. Differentiates	1.4 General Instructional		
	objectives(GIOs) and		
general instructional	Specific Learning		
objectives and	Outcomes (SLOs)		
specific learning	based on Bloom's		
outcomes	Taxonomy		
5. Classifies the	1.5 Bloom's Taxonomy		
objectives based on	(Revised)		
Revised Bloom's	, ,		
Taxonomy			

**Unit- II: PLANNING FOR INSTRUCTION** 

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1. Designs year plan	2.1 Year plan 2.1.1. Definition and importance of year plan 2.1.2 Development of year plan	<ul><li>Lecture</li><li>Lesson plan preparation</li><li>Discussion</li><li>Individual</li></ul>	<ul> <li>Observation         of class</li> <li>Lesson         transcript/ plan</li> </ul>
2. Develops unit plan	2.2 Unit plan 2.2.1 Definition and importance of unit plan 2.2.2 Development of Unit plan	work followed by group work	
3. Prepares lesson plans based on Herbartian steps and ALM	2.3 Lesson Plan 2.3.1 Definition and importance of lesson plan 2.3.2 Format of lesson Plan 2.3.3 Herbartian steps 2.3.4 Lesson plan based on ALM		

Unit- III: METHODS AND TECHNIQUES OF TEACHING MATHEMATICS

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1. Chooses the appropriate methods of teaching Mathematics	3.1 Methods of teaching 3.1.1 Inductive and deductive methods 3.1.2 Analytic and synthetic methods 3.1.3 Heuristic method 3.1.4 Laboratory method 3.1.5 Problem solving method 3.1.6 Project method 3.1.7 Activity Based Learning (ABL) 3.1.8 Active Learning Methodology (ALM)	<ul> <li>Lecture</li> <li>Digital presentation</li> <li>Seminar</li> <li>Discussions</li> <li>Debates</li> <li>QA session</li> </ul>	<ul> <li>Test         (oral/written)</li> <li>Assignment</li> <li>Seminar         presentation</li> </ul>
2. Employs the relevant techniques for teaching Mathematics	3.2 Techniques of teaching 3.2.1 Supervised Study 3.2.2 Group Discussion 3.2.3 Assignments 3.2.4 Constructivist Approach		

**Unit- IV: EVALUATION OF MATHEMATICS** 

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Describes the concept and purpose of evaluation</li> <li>Differentiates the formative and summative evaluation</li> </ol>	<ul> <li>4.1 Concept and purpose of evaluation</li> <li>4.2 Types of evaluation – formative and summative evaluation, Continuous and Comprehensive Evaluation</li> </ul>	<ul><li>Lecture</li><li>Seminar</li><li>Discussions</li></ul>	<ul><li>Tests (oral/written)</li><li>Reports</li></ul>
<ul><li>3. Classifies the different types of tests</li><li>4. Lists out the types of test items</li><li>5. Constructs an achievement test in Mathematics</li></ul>	<ul> <li>4.3 Types of tests – achievement test, diagnostic test and prognostic test</li> <li>4.4 Different types of test items</li> <li>4.5 Construction of Achievement test</li> </ul>		

**Unit- V: RESOURCES FOR TEACHING MATHEMATICS** 

Learning Outcome	Content	Suggested Strategies and Approaches	Assessment
1. Chooses appropriate print resources for teaching Mathematics	5.1 Print resources 5.1.1 Textbooks 5.1.2 Workbooks 5.1.3 Handbooks 5.1.4 Journals 5.1.5 Magazines 5.1.6 Newspapers	<ul><li>Lecture</li><li>Digital presentation</li><li>Seminar</li><li>Discussion</li></ul>	<ul><li>Test (oral/written)</li><li>Questioning</li><li>Reports</li></ul>
2. Prepares different visual resources for teaching Mathematics	5.2.1 Pictures 5.2.2 Charts 5.2.3 Flashcards 5.2.4 Models	Auto instruction	
3. Employs the relevant electronic resources for teaching Mathematics	<ul><li>5.3 Electronic resources</li><li>5.3.1 Computer</li><li>5.3.2 Interactive White board</li><li>5.3.3 Smartphone</li></ul>		

## **SUGGESTED ACTIVITIES** (Any two)

- 1. Prepare a report on learning Mathematics by students in classroom situations.
- 2. Prepare a lesson on CD on learning Mathematics in high school with details.
- 3. Develop a lesson plan based on ALM.
- 4. Construct a diagnostic test in Mathematics for any topic in standard VIII.

#### **□PRESCRIBED READINGS**

- 1. Aggarwal, J.C. (2008). Teaching of Mathematics. UP: Vikas Publishing House.
- 2. Bisnoi, U. (2015). Teaching of Mathematics. Meerut: R-Lal Book Depot
- 3. James, Anice. (2005). *Teaching of Mathematics*. New Delhi: Neelkamal Publications.
- 4. James, Anice. (2006). *Techniques of teaching of Mathematics*. New Delhi: Neelkamal Publications.
- 5. Kumar.S. ,& Ratnalikar, D.N. (2003). *Teaching of Mathematics*. New Delhi: Anmol Publishing House.
- 6. Kulshreshtha, A.K. (2008). *Teaching of Mathematics*. Meerut: R.Lall Books depot.
- 7. Mustafa,M.(2005). Teaching of Mathematics. New Delhi: Deep and Deep Publications
- 8. Mangal, S.K. (2015). *Teaching of Mathematics*. Ludhiana: Tandon Publications.
- 9. Sidhu, K.S. (2014). Teaching of Mathematics. New Delhi: Sterling Publications.
- 10. Soman,K & Sivarajan,K. (2008). *Mathematics Education*. (2<sup>nd</sup> Ed.) Calicut: Calicut University

#### **□**SUGGESTED READINGS

- 1. Anderson, L.W.,& Krathwohl, D.R.(2001). A Taxonomy for Learning, Teaching and Assessing: A Revision of Bloom's Taxonomy of Educational Objectives. Newyork: longman
- 2. Bhatia, K.K. (2001). *Foundations of Teaching Learning Process*. Ludhiana: Tandon Publications.
- 3. Mustafa, M. (2005). *Teaching of Mathematics*. New Delhi: Deep and Deep Publications.
- 4. Pratap, N. (2008). *Teaching of Mathematics*. Meerut: R. Lall Books Depot.
- 5. Siddizui, M.H. (2005). *Teaching of Mathematics*. New Delhi: APH Publications.
- 6. Rao, D.B. & Pushpalatha, D. (1995). *Achievement in Mathematics*. New Delhi: Discovery Publishing House.
- 7. Siddiqui, M.H. (2007). *Teaching of Mathematics*. New Delhi: APH Publishing House.

Course Code: BED1PC006 Pedagogic Course

## B.Ed. Degree Programme Semester-I THEORETICAL BASES OF PHYSICAL SCIENCE EDUCATION

(4 Credits - 120 Hours)

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

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

- 1. Examine the nature of science as a process and product
- 2. Classify the instructional objectives based on revised Bloom's taxonomy
- 3. Develop instructional plan for teaching Physical science
- 4. Compare year plan, unit plan and lesson plan of teaching physical science
- 5. Select the appropriate instructional method of teaching physical science
- 6. Determine the instructional techniques of teaching physical science
- 7. Identifies the different types of evaluation
- 8. Construct different types of test for teaching physical science
- 9. Employ various resources for teaching physical science
- 10. Categorize the different resources for teaching physical science

Unit- I: NATURE, AIMS AND OBJECTIVES OF TEACHING PHYSICAL SCIENCE

Learning Outcomes		SCIENCE			
nature of science as a process and product  2. Recognises the values of teaching physical science  3. Differentiates aims and objectives of physical science  1.2.1 Meaning and difference 1.2.2 General and specific objectives of teaching physical science  1.1.1 Science as a process and product and a product and a product and a process  1.1.2 Values of teaching discussion  • Group discussion  • Lecture  1.2 Aims and objective  1.2.1 Meaning and difference  1.2.2 General and specific objectives of teaching physical		_	Content	Strategies and	Assessment
1	2.	nature of science as a process and product  Recognises the values of teaching physical science Differentiates aims and objectives of	<ul> <li>1.1.1 Science as a product and a process</li> <li>1.1.2 Values of teaching physical science</li> <li>1.2 Aims and objective</li> <li>1.2.1 Meaning and difference</li> <li>1.2.2 General and specific objectives of teaching physical</li> </ul>	presentation • Group discussion	written)

4. Classifies general	1.2.3 Bloom's	
and specific	Taxonomy of	
objectives based	Educational	
on revised	Objectives	
Bloom's tonomy.	(Revised)	

**Unit- II: PLANNING OF INSTRUCTION** 

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
<ol> <li>Designs year plan.</li> <li>Develops</li> </ol>	1.1 Year plan 1.1.1 Advantages	Lecture     Method	• Test (oral/written)
unit plan	<ul> <li>1.2 Unit plan</li> <li>1.2.1 Definition</li> <li>1.2.2 Characteristics of a good unit</li> <li>1.2.3 Steps in Unit plan</li> <li>1.2.4 Importance of unit</li> </ul>	<ul><li>Discussion</li><li>Group discussion</li><li>Workshop</li><li>Lesson</li></ul>	<ul><li>Assignment</li><li>Participant observation</li><li>Lesson transcript</li></ul>
3. Prepares lesson plan based on herbartian steps	1007 20111111011	segment Preparation	
4. Compares unit plan and lesson plan	<ul><li>1.3.5 Merits and demerits of lesson planning</li><li>1.4 Comparison of lesson plan and unit plan.</li></ul>		

Unit- III: METHODS AND TECHNIQUES OF TEACHING PHYSICAL SCIENCE

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1. Chooses	3.1 Methods of Instruction	Seminar	• Test
appropriate	3.1.1 Lecture Method	Group	(oral/written)
method for	3.1.2 Demonstration	discussion	<ul> <li>Participation</li> </ul>
teaching of	Method	• Debate	in group
physical	3.1.3 Lecture cum	Brain Storming	discussion
science	Demonstration	<ul> <li>Participatory</li> </ul>	
	method	learning	
2. Employs	3.1.4 Scientific method		
relevant	3.1.5Heuristic method		
techniques of	3.1.6 Project method		
teaching	3.1.7 Laboratory method-		
physical	3.1.8 Historical and		
science	Biographical		
	method		
3. Suggests	3.1.9Active learning		
appropriate	Methodology		
methods and	(ALM).		
techniques for	3.1Techniques of Instruction		
teaching	3.1.3 Seminar		
physical	3.1.4 Panal Discussion		
science	3.1.5 Symposium		
	3.1.6 Brain Stroming		
4. Develops	3.1.7 Buzz session		
lesson plan	3.1.8 Role Play		
based on			
active			
learning			
methodology			

Unit- IV: EVALUATION IN PHYSICAL SCIENCE

Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1. Differentiates the formative and summative evaluation	III E variation	<ul><li>Digital presentation</li><li>Group Discussion</li><li>Assignment</li></ul>	<ul> <li>Test (oral/written)</li> <li>Test construction</li> <li>Seminar presentation</li> </ul>
<ol> <li>Classifies the different types of test items based on their uses</li> <li>Lists out the types of test used in physical science</li> <li>Develops achievement test and diagnostic test in physical science</li> </ol>	<ul> <li>1.3 Different types of test</li> <li>1.3.1 Achievement test</li> <li>1.3.2 Diagnostic test</li> <li>1.3.3 Prognostic test</li> <li>1.4 Construction of an achievement test</li> <li>1.5 Diagnostic test -Steps</li> <li>1.6 Difference between</li> </ul>		

Unit- V: RESOURCES FOR TEACHING PHYSICAL SCIENCE

	Learning Outcomes	Content	Suggested Strategies and Approaches	Assessment
1.	Selects	5.1 Visual Resources	<ul><li>Lecture</li><li>Discussion</li></ul>	Material  dayslanment
	appropriate instructional	Pictures, Flashcards, Charts, Posters,	Seminar	<ul><li>development</li><li>Test (oral/</li></ul>
	resources for	· · · · · · · · · · · · · · · · · · ·	Digital	written)
	teaching	i notographs, woders.	Presentation	• Report
	physical		Peer learning	writing
	science		T cer rearming	witting
2.	Develops	5.2 ICT Resources		
	ICT	Television, Internet,		
	resources for	Multimedia, Interactive		
	physical	whiteboard.		
	science	5.3 Community		
3.	Prepares	Resources		
	community	5.3.1 Science centers		
	resources for			
	teaching	exhibition/fair		
	physical	5.4 Laboratory Resources		
	science	5.4.1 Need and		
4.	Locates	importance		
	laboratory	5.4.2 Structure and		
	resources	Design		
	used for			
	learning	of various		
	physical	registers		
	science	5.4.4 Accident and		
		first aids		

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

- 1. Select a unit and prepare few visual resources for teaching physical science
- 2. Prepare an unit plan in physical science.
- 3. Prepare a topic based on any one technique of instruction and prepare a report.
- 4. Prepare a lesson plan based on Active Learning Methodology.

### **PRESCRIBED READINGS**

- 1. Radha, Mohan. (2010). *Teaching of physical science*. New Delhi: Neelkamal Publishers.
- 2. Sharma. R. C. (2006). *Modern Science Teaching*. New Delhi: DhanpatRai Publications.
- 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, Central Co-operative press.

#### **□**SUGGESTED READINGS

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