

SCHEME OF EXAMINATION FOR B. ED. TWO YEAR PROGRAMME

B.Ed. 1st Year

Course	Nomenclature	Max. Marks			No. of Credits (Minimum)	Teaching periods per Week (Exam Hours: Marks)
		Total	Theory	Internal Assessment		
I	Childhood and Growing up	100	80	20	4 Credits	6 periods per week (3 hours, 80 marks)
II	Contemporary India and Education	100	80	20	4 Credits	6 periods per week (3 hours, 80 marks)
III	Learning and Teaching	100	80	20	4 Credits	6 periods per week (3 hours, 80 marks)
IV & V	Pedagogy of School Subject I*	100	80	20	4 Credits	6 periods per week (3 hours, 80 marks)
IV & V	Pedagogy of School Subject II*	100	80	20	4 Credits	6 periods per week (3 hours, 80 marks)
Enhancing Professional Capacities (EPC) Practicum						
VI (A)	Reading and Reflecting on Texts	50	30	20	2 Credits	3 periods per week
VI (B)	Drama and Art in Education	50	30	20	2 Credits	3 periods per week
VII (A)	Critical Understanding of ICT	50	30	20	2 Credits	3 periods per week
VII (B)	Understanding the Self	50	30	20	2 Credits	3 periods per week
	Total Marks	700		Total Credits	28 Credits	

Note: Engagement with the field in the School for 4 weeks: Tasks and assignments for all the theory papers**

COURSE-I: CHILDHOOD AND GROWING UP

Time: 3 Hours

Max. Marks: 100
(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q.No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

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

- explain the meaning, concept and characteristics of growth, maturation and development at various stages
- describe the problems of childhood and adolescent age especially with respect to the Indian context
- develop an understanding of different aspects of a child's physical, intellectual, social and moral development
- analyze the impact of urbanization, globalization and economic changes on construction and experience acquired by growing child
- develop an understanding of dimensions and stages of childhood development and developmental tasks; with a focus on cognitive views of learning as well as social-cultural and constructivism
- explain the concept of individual differences and its implications
- enlist the factors influencing individual difference
- differentiate between classical and operant conditioning theory of learning
- explain the Piaget's concept of cognitive development
- differentiate between Kohlberg's theory of moral development and Erikson theory of psycho-social development
- describe the role of teacher in teaching learning situations
- explain the concept and principles of different perspectives in learning
- describe childhood in the context of poverty and globalization

COURSE CONTENT

UNIT- 1

Development of Child at different Stages (Childhood and Adolescence)

- Concept, Meaning and general principles of Growth and development. Stages of development—growth and development across various stages from infancy to adolescence. (Physical, intellectual, social and moral development.)
- Piaget's concept of cognitive development,
- Kohlberg's theory of moral development
- Erikson's psycho-social development theory
- Factors affecting Growth and development
- Relative role of heredity and environment in development.
- Concept of growth and maturation
- Parenting styles: influencing developmental aspects of childhood and adolescence.
- Impact of Media on growing children and adolescents: deconstruction of significant events that media highlights and creates.

UNIT- 2

Understanding Individual Difference

- Concept of individual difference, Factors influencing individual difference, Educational implications of individual differences for teachers in organizing educational activities.
- Dimensions of differences in psychological attributes-cognitive, interest, aptitude, creativity, personality and values.
- Understanding individual from multiple intelligences perspective with a focus on Gardner's theory of multiple intelligences. Implications for teaching-learning
- Understanding differences based on a range of cognitive abilities—learning difficulties, slow learners and dyslexics, intellectual deficiency, intellectual giftedness. Implications for catering to individual variations in view of 'difference' rather than 'deficit' perspective.
- Methods and Ways to understand Children's and Adolescents' Behaviour: Gathering data about children from different contexts: naturalistic observations; interviews; reflective journals about children; anecdotal records and narratives
- Meaning, characteristics and kinds of Play; Play and its functions: linkages with the physical, social, emotional, cognitive.
- Games and group dynamics, rules of games and how children learn to negotiate differences and resolve conflict.

UNIT-3

Theoretical Perspectives to enhance Learning among Children and Adolescents

- Learning: Meaning, implicit knowledge and beliefs.

- Perspective on Human Learning: connectionists or Behaviorist (Thorndike, Classical and Operant Conditioning)
- Cognitivist (Insightful learning, Tolman's Sign learning theory)
- Constructivism
- Bruner's discovery learning:
- Concepts and principles of each perspective and their applicability in different learning situations.
- Relevance and applicability of various theories of learning for different kinds of learning situations.
- Role of learner in various learning situations as seen in different theoretical perspectives.
- Role of teacher in teaching learning situations.

UNIT-4

Deprivation and Deprived Children: Measures for their Adjustment and Education

- Childhood in the context of poverty and globalization
- Current issues related to adolescents stress and role of the teacher (Increasing loneliness, changing family structures and rising permissiveness)
- Issues in marginalization of difference and diversity
- Children living in urban slum, socially deprived girls: measures to bring improvement in their status
- Child rearing practices of children separated from parents practices of children's separated children in crèches; children in orphanages
- Schooling: peer influences, school culture, relationships with teachers, teacher expectations and school achievement; being out of school, overage learner
- Understanding needs and behavioral problems of children and adolescents: Relationships with peers: friendships and gender; competition and cooperation, competition and conflict; aggression and bullying from early childhood to adolescence substance abuse, drug addiction,
- Impact of globalization, urbanization and economic changes on construction and experience of children in childhood and adolescent age.

Tasks & Assignments: Any one of the following (10 marks)

- Administer any two of the following Psychological Tests and prepare a report on it:
 - Intelligence Test
 - Personality Test
 - Self-Concept Questionnaire/ Inventory
 - Creativity
 - Learning Style Inventory

- Parenting Style Inventory
 - Interest Test
 - Teaching Attitude
- Conduct a case study on a problematic Child (M.R, L.D, V.I, H.I, disruptive behavior and delinquent child etc.) and prepare a report on it.
 - Prepare an observation schedule and observe the behavior of child in school setting.
 - Prepare a survey report on "How media is affecting the behavior of growing child" on a group of Ten Children of age 6-14 years in terms of enhancing violence and developmental aspects of childhood. (The survey should be based on the collection of the data using a questionnaire).
 - Any other task/assignment given by the institution.

SUGGESTED READINGS

- Aries, P. (1965). Centuries of Childhood-A social history of the family life. Random House Inc. Chapter 1: The Ages of Life, Chapter 2: The Discovery of Childhood, and Conclusion - The two concepts of childhood.
- Bhatia, H. R.(1990). Elements of Educational Psychology Bombay:Orient Langman Ltd.
- Bodrova, E. and Leong, D. (1996). Tools of the Mind. New Jersey: Merrill. Chapter 1: Introduction to the Vygotskian Approach. Chapter 2: Acquiring Mental Tools and Higher Mental Functions, Chapter 3: The Vygotskian Framework and Other Theories of Development and Learning, Chapter 4: The Zone of Proximal Development.
- Chauhan, S. S.(2000). Psychology of Adolescence. New Delhi: Vikas Publishers.
- Cole, M., Cole, S. R. and Lightfoot, C. (2004). The Development of Children. New York: Worth Publishers. Chapter 1: The study of Human Development.
- Crain, W. (1992). Theories of Development: Concepts and Applications. (3rd Edition). New Jersey: Prentice Hall. Chapter 7: Kohlberg's Stages of Moral and Development, Chapter 8: Learning Theory: Pavlov, Watson, and Skinner, Chapter 9: Bandura's Social Learning Theory, Chapter 11: Chapter 12: Erikson and the Eight Stages of Life.
- Dandipani, S. (2000). A Textbook of Advanced Educational Psychology, New Delhi: Anmol Publications Pvt. Ltd.
- Dash, M.(1991). Educational Psychology. New Delhi: Deep and Deep Publishers.
- Gardner, H. (1985). Frames of Mind: The Theory of Multiple Intelligences, London: Paladin Books.
- Gilligan, C. (1977). In a Different Voice: Women's Conception of Self and Morality. Harvard Educational Review, 47 (4), 481-517.
- Gulati, S. (1995). Education for Creativity, New Delhi: NCERT.
- Hurlock, E. B. (1990). Adolescent Development. New York. McGraw Hill.

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- Kakkar, S.B (1978). *Indian Childhood: Cultural Ideas, and Social Reality*, New Delhi: Oxford.
- Kauffman et al (1993). *Exceptional Children*. Boston: Allyn & Bacon.
- Kundu, C.L. and Tutoo, D.N. (2000). *Educational Psychology*. New Delhi: Sterling Publishers Pvt. Ltd.
- Mangal S.K (2002). *Advanced Educational Psychology*, New Delhi: Prentice Hall of India Private Limited.
- Mathur, S. S. (2000). *Shiksha Manovigyan*. Agra: Vinod Pustak Bhandar.
- Mukunda, K. V. (2009). *What Did You Ask in School Today? A Handbook on Child Learning*, Noida: Harper Collins. Chapter 2: Learning, 22-50; Chapter 6: Moral Development, 117-146.
- Nanda, S.K (1995). *Educational Psychology*, Jalandhar: New Academic Publishing Co.
- Newman, B. M. and Newman, P.H. (2007). *Theories of Human Development*. London: Lawrence Erlbaum Associates, publishers.
- Pal, H.R.(2006). *Advanced Educational Psychology (Hindi)* New Delhi. Delhi University.
- Pal, H.R. and Sharma, M. (2007). *Education of Gifted (Hindi)*, New Delhi: Kshipra.
- Piaget J. (1997). *Development and Learning*. In Gauvian, M. and M. Cole.(eds.) *Readings on the Development of Children*. New York: W. H. Freeman.
- Snowman, B. R. and Snowman, J.(1996). *Psychology Applied to Teaching*. 8th edition. Boston: USA: Houghton Mifflin. Chapter 2: Stage theories of Development, Chapter 7: Behavioural and Social learning theories, Chapter 8: Information Processing Theories, Chapter 9: Constructivist Learning Theory.
- Tripathi, S. N. (1983). *Pratiba Aur Srijnatmakt*, Bombay: Mcmillan Co.

COURSE-II: CONTEMPORARY INDIA AND EDUCATION

Time: 3 Hours

Max. Marks: 100
(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

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

- understand perspectives in education including social bases of education
- critically understand the constitutional values related to aims of education
- analyze varied aims of education and its process aspects
- develop their own view about education and its development in social and cultural context
- develop a personalized professional view of one's pedagogical role
- think critically about the prevailing conditions of the society and their remedies
- visualize meaningfully the contemporary India
- develop an understanding of trends, issues and challenges facing contemporary Indian Society

COURSE CONTENT

UNIT-1

Constitution of India and Education

- Concurrent status of education
- Policies, Acts and Provisions related to education
- Education of marginalized and socially disadvantaged segments
- Education and Fundamental Rights and Duties: Articles 14, 15, 16, 30 and 51A
- Directive Principles of State Policies
- Right to Education (RTE) Act 2009

UNIT - 2

Review of Education Commissions and Policies in India:

- Prominent characteristics of education in India during colonial rule

- Critical appraisal of recommendations of following commissions
 - i) Secondary Education commission (1952-53)
 - ii) Indian Education Commission (1964-66)
 - iii) National Policy of Education (1986)
 - iv) Ramamurthy Education Commission (1990)
 - v) Programme of Action (1992)
- National Curriculum Framework 2005: Needs and Objectives

UNIT – 3 .

Contemporary Issues in Indian Education

- Universalization of Elementary Education and related issues such as MDM, SSA and RMSA
- Issues and Debates on Globalization, Liberalization and Privatization
- Common School System
- Vocationalisation of Education
- Three Language Formulas
- Open learning and distance education System
- Modernization: Concept, Advantages & Disadvantages

UNIT – 4

Emerging Concerns of Indian Society and Education

- Culture and Education
- Democracy and Education
- Inequalities in ancient, medieval and modern education
- New Economic Reforms and their impact on Education
- Education for Technological Empowerment
- Role of teacher in the context of Universal Education
- Reservation as an egalitarian Policy

Task & Assignments: Any one of the following (10 marks)

- Project on conflicts and social movements in India.
- Role of media in democracy.
- Impact of electronic media on children.
- Challenges of pluralistic education in the contexts of conflict.
- Any other task/assignment given by the institution.

SUGGESTED READINGS

- Challenges of Education- A policy perspective, (1985). Ministry of Education, Govt. of India, New Delhi.
- Deshpande, S. (2004). Contemporary India: A Sociological View. New Delhi: Penguin.

- Education for all (1993). The India scene, Ministry of Education, Govt. of India, New Delhi.
- Walia, J.S. (2011). Modern Indian Education and its Problems. Jalandhar: Paul Publishers.
- Walia, J.S. (2011). Philosophical, Sociological and Economic Bases of Education. Jalandhar: Ahim Paul Publishers.
- Kashyap, S.C. (2009). The Constitution of India. New Delhi National Book Trust.
- Gera, L., Viswanathappa G. & Srinivas K. (2014). Foundations of Education. Hyderabad: Neelkamal Publications Pvt. Ltd.
- National Policy of Education (1986). Ministry of Education, Govt. of India, New Delhi, 1992.
- Pandey, K.P.(2010). Perspectives in Social Foundations of Education. New Delhi: Shipra Publications.
- Programme of Action (1992). Ministry of Education, Govt. of India, New Delhi.
- Rajput, J.S. (1994). Universalisation of Elementary Education, Role of Teacher Education, New Delhi: Vikas Publishing House.
- Report of the Education Commission Education and National Development (1964-66) Ministry of Education, Govt. of India, New Delhi.
- Report of the Secondary Education Commission (1952-53) Ministry of Education, Govt. of India, New Delhi, 1949.
- Report of the University Education Commission (1948) Ministry of Education, Govt. of India, New Delhi 1949.
- Right to Free and Compulsory Education Act 2009.
- Sadgopal, A.(2000). Shiksha Main Badlav ka Sawal: Samajik Amubhavo se Niti Tak. Delhi: Granth Shilpi.
- Sadgopal, A. (2009). Muft aur Anivarya Shiksha Adhikaar Vidheyak 2009. Vimarsh Vol.1.

COURSE- III: LEARNING AND TEACHING

Time: 3 Hours

Max. Marks: 100
(Theory: 80 Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

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

- explain the concept and importance of teaching
- explain the concept of phases and levels of teaching
- describe different theories of teaching, models of teaching and strategies of teaching
- explain the concept, importance and types of learning
- describe Flander's Interaction Analysis along with concept and types of evaluation

COURSE CONTENT

UNIT-1

- Teaching: Concept, Nature, Importance of Teaching and Phases of Teaching: Pre-active, Inter-active and Post-active
- Teaching : Different from Instruction, Training and Indoctrination
- Levels of Teaching : Memory, Understanding and Reflective level
- Theories of Teaching: Formal Theories, Descriptive Theories, Normative Theories

UNIT-2

- Models of Teaching
 - Bruner's Concept Attainment Model
 - Mastery Learning Model
 - Inquiry Training Model
 - Glaser's Basic Teaching Model
- Strategies of Teaching
 - Simulation
 - Brain-storming
 - Lecture

- Demonstration
- Team-Teaching

UNIT-3

- Learning: Concept, Importance, Types and Factors Affecting Learning
 - Concept of e-learning (m-learning and online learning)
 - Constructivism
 - Learning styles
- Flander's Interaction Analysis: Concept, Procedure and Significance in Teaching-Learning
- Use of ICT in Teaching Learning Process

UNIT-4

- Evaluation in Teaching – Learning Process: Concept, Need and Characteristics of Evaluation
- Evaluation Devices- Written, Oral and Observation
- Types of Evaluation : Formative, Summative and Diagnostic
- Grading and its Types
- Continuous and Comprehensive Evaluation

Task & Assignment: Any one of the following (10 marks)

- Draft a report on Teachers' Teaching Style by one week Classroom observation of two teachers.
- A Survey based report on an effective Teacher's behaviours or class room Instruction Strategies of effective Teacher.
- Study of a case and prepare a report on influential factors of learning.
- Any other task/assignment given by the institution.

SUGGESTED READINGS

- Bhushan, A. and Ahuja, M. (1992). Educational Technology. Meerut: Vikas Publication.
- Dececco, J.P. and Cramford, Q.R. (1970). Psychology of Learning and Instructions. New Delhi: Prentice Hall of India Pvt. Ltd.
- Flanders, Ned A. (1978). Analyzing Teacher Behaviour. London: Addison Wesley Publishing Co.
- Gage, N.L. (1978). The Scientific Basis of the Art of Teaching. London: Teacher's College Press.
- Joyce, B. W., M. and Showers, B. (1985). Models of Teaching, New Delhi: Prentice Hall of India Pvt. Ltd.
- Mehra, V. (2010). A Text book of Educational Technology, New Delhi: Sanjay Prakashan.

COURSE-IV & V (GROUP A) Opt. (i): PEDAGOGY OF HINDI

Time: 3 Hours

Max. Marks: 100
(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

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

- understand the importance and role of Hindi language in our mother tongue (in our Country) or role of mother tongue in the education of a child
- develop various skills e.g. Language skills, teaching skills (micro-teaching skills) etc.
- conduct pedagogical analysis
- demonstrate the use of various audio-visual aids
- explain the concept of evaluation and types of evaluating techniques
- concept of curriculum in teaching of Hindi
- knowledge of different co-curricular activities in teaching of Hindi

पाठ्यवस्तु

इकाई-1

हिन्दी शिक्षण

- मातृभाषा शिक्षण का अर्थ, स्वरूप, महत्त्व, उद्देश्य एवं सामान्य सिद्धान्त
- देवनागरी लिपि की विशेषताएँ एवं सीमाएँ
- हिन्दी भाषा का महत्त्व – मातृभाषा एवं राष्ट्रीय भाषा के रूप में
- ब्लूम द्वारा निर्धारित अनुदेशनात्मक उद्देश्य
- भाषाई कौशलों का विकास
 - (अ) श्रवण कौशल
 - (आ) भाषण कौशल
 - (इ) पठन कौशल
 - (ई) लेखन कौशल

- हिन्दी शब्दों का वर्गीकरण (अर्थ, उत्पत्ति, व्युत्पत्ति)
- हिन्दी ध्वनियों का वर्गीकरण, अक्षर विन्यास एवं विराम-चिन्ह
- उच्चारण शिक्षण का महत्त्व, उच्चारण दोष के कारण व उपाय

इकाई- 2

- हिन्दी पाठ योजना का अर्थ, महत्त्व एवं रूपरेखा
- दृश्य-श्रव्य सहायक साधनों का महत्त्व, चयन एवं प्रयोग
- इकाई योजना एवं दैनिक पाठ योजना का अर्थ, महत्त्व, अन्तर एवं निर्माण
- सूक्ष्म शिक्षण द्वारा शिक्षण कौशलों का विकास: प्रस्तावना कौशल, प्रश्न कौशल, उदाहरण कौशल, व्याख्या कौशल और उद्दीपन परिवर्तन कौशल
- हिन्दी शिक्षण में सूचना तकनीकी की उपयोगिता एवं प्रयोग

इकाई- 3

- पद्य शिक्षण का अर्थ, उद्देश्य, महत्त्व, विधियाँ, सोपान
- गद्य शिक्षण का अर्थ, उद्देश्य, महत्त्व, विधियाँ, सोपान
- व्याकरण शिक्षण का अर्थ, उद्देश्य, महत्त्व, विधियाँ, सोपान
- हिन्दी शिक्षण में अनुवाद का अर्थ, विशेषताएँ, रचना शिक्षण (कहानी, पत्र, नाटक एवं निबन्ध) उद्देश्य, महत्त्व, विधियाँ सोपान
- हिन्दी शिक्षण में गृहकार्य – स्वरूप एवं संशोधन
- हिन्दी सुलेख शिक्षण – गुण, उद्देश्य एवं विधियाँ

इकाई- 4

- वर्तमान शिक्षा प्रणाली में हिन्दी पाठ्यपुस्तक की विशेषताएँ एवं समीक्षा
- 21वीं शताब्दी में हिन्दी की वर्तमान स्थिति, हिन्दी अध्यापक के गुण एवं कर्तव्य
- हिन्दी में मूल्यांकन – अर्थ, स्वरूप, विभिन्न विधाओं का मूल्यांकन एवं संशोधन
- हिन्दी प्रश्न पत्र निर्माण – आदर्श प्रश्न पत्र के सिद्धान्त का मूल्यांकन एवं संशोधन
- भाषा शिक्षण में हिन्दी पुस्तकालय की उपयोगिता एवं व्यवस्था
- हिन्दी पाठ्य वस्तु का अर्थ एवं शिक्षा – शास्त्रीय विश्लेषण

प्रयोगात्मक क्रियाएँ

- सूक्ष्म कौशलों के सोपानों का विकास
- पाठशालाओं में हिन्दी की पाठ्यक्रम सहगामी क्रियाओं की व्यवस्था करना

संदर्भ ग्रंथ सूची

- बाहरीण, हरदेव (1972), व्यावहारिक हिंदी व्याकरण लोके भारती प्रकाशन, इलाहाबाद
- वेस्टन कॅनिप (1973), डवैलपिंग सैकिंड लैगवेज स्किल्स थरीरी एण्ड प्रैक्टिस रैप्स मैकलील
- श्रीवास्तव राजेन्द्र प्रसाद (1973), हिंदी शिक्षण दि मैकमिलन कम्पनी ऑफ इंडिया लि०, देहली
- शुक्ल, भगवती प्रसाद (1974), हिंदी उच्चारण और वर्तनी, आर्य बुक डिपो, नई दिल्ली
- सुखिया, के०के० (1976), हिंदी ध्वनियां और उनका शिक्षण, रामनारायण लाल, इलाहाबाद
- तिवारी, भोलानाथ तथा भाटिया, कैलाश चन्द (1980), हिंदी शिक्षण लिपि प्रकाशन, दिल्ली
- उमा, मंगल (1991), हिंदी शिक्षण, नई देहली, आर्य बुक डिपो
- सूद, विजय (1991), हिन्दी शिक्षण विधियाँ, लुधियाना : टंडन पब्लिकेशन
- पाण्डे, आर०एस० (1992), हिंदी शिक्षण, आगरा, विनोद पुस्तक मन्दिर
- सिंह सावत्री (1992), हिंदी शिक्षण, मेरठ, तायल बुक डिपो
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COURSE-IV & V (GROUP A) Opt. (ii): PEDAGOGY OF ENGLISH

Time: 3 Hours

Max. Marks: 100
(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

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

- understand the functions and importance of English language
- understand the linguistic principles;
- conduct pedagogical analysis and develop teaching skills
- understand the different theories to language learning and teaching
- critically explain various teaching methods
- develop and use teaching aids in the classroom both print and audio-visual material, and ICT (internet and computer technology)
- understand about the teaching of prose, poetry, composition and grammar
- acquire language skills : listening, speaking, reading and writing
- understand need and functions of language lab
- understand the process of language assessment and
- develop creativity among learners

COURSE CONTENT

UNIT-1

An Overview of Language Teaching

- Meaning, Importance and Functions of language.
- Linguistic characteristics of English.
- Linguistic Principles, and Aims and Objectives of Teaching English
- Philosophical, Social and Psychological Bases of Approaches to Language Acquisition and Language Learning; Inductive and Deductive Approach; Whole Language Approach; Constructive Approach; Multilingual Approach to Language Teaching.

UNIT-2

Learner Centered Approaches and Methods of Teaching

- Difference between 'Approach' and 'Method'
- Direct Method, Bi-lingual method, Audio-Lingual Method, Structural Approach, Communicative Approach, Constructive Approach and Co-operative Learning
- Teaching of Prose, Poetry, Composition and Grammar – Objectives and Methodology
- Micro and Mega Lessons

Teaching Learning Materials and Aids

- Print media; other reading materials such as learner chosen texts, magazines, newspapers, class libraries, etc., ICT – audio-visual aids including CALL programmes; Radio, T.V., Films, Planning co-curricular activities (discussion debates, workshops, seminar etc.); language labs, etc.

UNIT-3

Developing Listening and Speaking Skills

- Features of English Pronunciation, Elementary knowledge of English sounds.
- Stress, Rhythm, Intonation, Patterns and their Implications.
- Materials and resources for developing the Listening and Speaking Skills: Storytelling, dialogues, Situational Conversations, Role Playing, Simulations, Speech, Games and Contexts, Language Laboratories, Pictures, Authentic Materials and Multimedia Resources.

Developing Reading and Writing Skills

- Developing Reading and Writing Skills
- Teaching Mechanism of Reading
- Reading aloud and Silent Reading; Extensive and Intensive Reading; Study Skills, Including using Thesauruses, Dictionary, Encyclopedia Etc.
- Writing : Stages of Writing; Process of Writing; Formal And Informal Writing, such as Poetry, Short Story, Letter, Diary, Notices, Articles, Reports, Dialogue, Speech, Advertisement, etc., Reference Skills, Study Skills, Higher Order Skills.

UNIT-4

Remedial and Enrichment Content

- Meaning and Significance of remedial teaching
- Common errors in English and their removal through remedial teaching

Remedial Teaching Strategies

- Individualized Educational Programme
- Peer Support Programme
- Reward Scheme
- Handling Pupil's language acquisition problems

- Feedback to students, parents and teachers

Evaluation Procedure

- Progress and Assessment of development of Language; Continuous and Comprehensive Evaluation; Techniques of Evaluation – oral, written, portfolio; cloze test, self-evaluation, peer evaluation, group evaluation.
- Typology of Questions; activities and tasks (Open-ended questions, MCQ's, true and false etc.) Reflecting – Problem Solving, Creative and Critical Thinking and Enhancing Imagination.

Tasks & Assignments: Any one of the following (10 marks)

- Do a comparative study of positive features and weaknesses of different approaches to language learning.
- Prepare an outline for a school magazine.
- Develop the material for the school magazine based on your experiences during school experience practice (Hand written).
- Prepare a book-review of any one English Text Book (from syllabus of 8th to 10th class).
- Prepare activities for listening, speaking, reading and writing.
- Any other task/assignment given by the institution.

SUGGESTED READINGS

- Agnihotri, R.K. and Khanna A.L. (1994). Socio-Cultural and Linguistic Aspects of English in India. SAGE Publications New Delhi/Thousand Oaks/London, Publication.
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- Sharma, A. (2010). *Teaching Of English*. Vijya Publications, Ludhiana
- Sharma, P. (2011). *Teaching of English: Skill and Methods*. Delhi: Shipra Publication.
- Thwaite, A., and Rivalland, J. (2009). How can analysis of classroom talk help teachers reflect on their practices? *Australian Journal of Language and Literacy*, 32(1), 38.
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COURSE-IV & V (GROUP A) Opt. (iii): PEDAGOGY OF SANSKRIT

Time: 3 Hours

Max. Marks: 100
(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

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

- explain the nature, need & principles of Sanskrit Language
- describe different methods of teaching of Sanskrit
- demonstrate the use of various audio visual aids
- explain the objectives and steps of teaching prose, poetry, composition & grammar of Sanskrit
- define the meaning of evaluation and types of evaluating techniques
- explain and organise different type of co-curricular activities related to Sanskrit (Shloka Recitation, Lecture, Dramatization and other creative competitions)

COURSE CONTENT

इकाई 1

- संस्कृत भाषा शिक्षण – अर्थ, महत्त्व, उद्देश्य
- संस्कृत भाषा एवं साहित्य का ऐतिहासिक तथा वर्तमान अवलोकन
संस्कृत भाषा की पाठ्यक्रम में अनिवार्यता या स्थान
- संस्कृत भाषा शिक्षण में सामान्य सिद्धान्त तथा सूत्र
संस्कृत भाषा शिक्षण में श्रवण तथा पठन का अभ्यास

इकाई 2

- संस्कृत भाषा शिक्षण की विभिन्न पद्धतियाँ – उद्देश्य, विशेषताएँ, लाभ तथा सीमाएँ
- संस्कृत भाषा शिक्षण की विधियाँ
 - पाठशाला विधि
 - पाठ्यपुस्तक विधि
 - प्रत्यक्ष विधि

- व्याकरण अनुवाद विधि
- संस्कृत पाठ्य पुस्तक निर्माण
- संस्कृत अध्यापक तथा दृश्य श्रव्य साधन प्रयोग
- सूक्ष्म तथा विस्तृत पाठ योजना
- संस्कृत भाषा शिक्षण एवं पुस्तकालय

इकाई 3

संस्कृत में विधाओं का शिक्षण

- संस्कृत में गद्य-शिक्षण-प्रक्रिया. उद्देश्य तथा सोपान
- संस्कृत में पद्य-शिक्षण- प्रक्रिया. उद्देश्य तथा सोपान
- संस्कृत में व्याकरण शिक्षण -प्रक्रिया. उद्देश्य तथा सोपान
- संस्कृत में रचना शिक्षण - प्रक्रिया. उद्देश्य तथा सोपान
- संस्कृत में अनुवाद शिक्षण- प्रक्रिया. उद्देश्य तथा सोपान

संस्कृत विषय वस्तु

- धातु रूप-पठ, लिख, अस्, भू, कृ (लट् तथा लै लकार)
- शब्द रूप- राम, हरि, नदी, लता
- प्रत्यय - (अनीयर, तव्यत्) समास (बहुब्रीहि द्वन्द्व)
- शब्दार्थ तथा अनुवाद (8वीं तथा 10वीं हरियाणा बोर्ड के पाठ्यक्रम से)

इकाई 4

संस्कृत भाषा कौशल

- संस्कृतमे उच्चारण शिक्षण - अशुद्धि उच्चारण के प्रकार, व्याकरण तथा सुधार के उपाय।
- संस्कृतमें अक्षर-विन्यास, शिक्षण-सम्बन्धी अशुद्धियां, कारण तथा निवारण के उपाय।

संस्कृत भाषा ज्ञान का मूल्यांकन, अर्थ, परीक्षाओं के प्रकार (निबंधात्मक, वस्तुनिष्ठ, लघूत्तर)

- गृहकार्य नियोजन एवं संशोधन प्रक्रिया।
- संस्कृत भाषा की सहपाठ्य क्रियाएं (श्लोकोच्चारण, भाषण, अभिनयीकरण एवं रचनात्मकप्रतियोगिताएं)

संस्कृत शिक्षण हेतु अनुमोदित पुस्तकें

- चौबे, विजय नारायण (1985) संस्कृत शिक्षण विधि, उत्तर प्रदेश हिन्दी संस्थान, लखनऊ।
- सफाया, रघुनाथ (1990) संस्कृत-शिक्षण, चण्डीगढ़: हरियाणा हिंदी ग्रंथ, चण्डीगढ़।
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- मित्तल संतोष (2008) टीचिंग ऑफ संस्कृत, आर.एल. बुक डिपो।
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COURSE-IV & V (GROUP A) Opt. (iv): PEDAGOGY OF URDU

Time: 3 Hours

Max. Marks: 100
(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

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

- explain the concept of Urdu and its elements
- define linguistic skills and development of these skills among pupils
- conduct pedagogical analysis on any two lessons in Urdu and develop teaching
- explain the concept of evaluation and methods of evaluating the performance of students
- critically explain various methods for teaching Urdu
- demonstrate language competencies

COURSE CONTENT

UNIT I

Nature and Development of Language

- Nature, development forms, functions and significant movements in modern Urdu Literature
- Elements of Urdu Language –its phonetic structure, morphological structure and syntactic structure.
- Spelling Errors, their causes and corrections.
- Children Literature.
- Objectives of Teaching Urdu at Secondary and Senior Secondary levels.
- Statement of objectives in behavioral terms.

UNIT II

Pedagogical Analysis & Lesson Planning

- Meaning, importance and Steps of Pedagogical Analysis
- Pedagogical Analysis on any two topics of Prose & Poetry each
- Lesson planning: Need & Importance, Basic Elements & its Preparation
- Unit Planning in Urdu: Need, importance and its preparation
- Identification of linguistic and Ideational content of the lessons.

UNIT-3

Micro Teaching Skills: Skill of Introducing the Lesson, Skill of Questioning, Skill of Illustration, Skill of Explaining, Skill of Stimulus Variation.

Approaches and Methods of Teaching Urdu

- Prose: Objectives and Methodology, lesson planning.
- Poetry: Objectives and Methodology, lesson planning.
- Grammar: Objectives and approaches, lesson planning.
- Speech development, speech defects, causes and remedies.
- Reading, loud reading and silent reading, intensive and extensive reading, self-reading and reading habits.
- Writing composition, objectives and methodology and correction of composition.

Materials for Teaching Urdu

- Urdu Text book and its evaluation.
- Supplementary Readers.
- Use of audio visual aids in teaching of Urdu.

UNIT-4

Activities Related to Urdu

- Activities for developing listening and speaking competencies.
- Activities for developing reading competency.
- Activities for developing writing competency.

Evaluation

- Meaning, Importance and Types of Evaluation in Urdu
- Types of tests: Essay type, short answer type and objective type.
- Continuous and Comprehensive Evaluation: Meaning, importance & Process.
- New approaches to Assessment – Question bank, Open Book Examination & Grading
- Construction of Achievement Test – Concept and Steps
- Diagnostic testing and remedial measures

Action Research in Urdu

- Concept and Importance of Action Research
- Planning for Action Research

Tasks & Assignments: Any one of the following (10 marks)

- Pedagogical analysis of any one topic.
- Preparation of transparencies for two lessons.
- Development of test items –essay, short answer and objective type question in Urdu.
- Preparation of Diagnostic test and remedial Program in Urdu.
- Organizing a co-curricular activity related to Urdu in School/IASE.
- Planning an outline for action research in Urdu.
- Any other project/assignment given by the institution

SUGGESTED READINGS

- Ansari, A. (1970). Ghazal Aur Ghazal ki Taleem, New Delhi: Taraqqi-e-Urdu Board.
- Gray, C.W. (1965). Teaching of Reading & Writing, Paris, UNESCO Teaching the mother Tongue in Secondary School, London: Longmans.
- Husain, A. (1975). Mukhtasar Tareekh-e-Urdu, Urdu Kitab Ghar.
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- Khan, R.H. (1974). Urdu Imla, Delhi National Academy, Taraqqi-e-Urdu Board.
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COURSE- IV & V (GROUP B) Opt. (i): PEDAGOGY OF MATHEMATICS

Time: 3 Hours

Max. Marks: 100
(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- (i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions
- (ii) Q.NO. 1 will be compulsory and will carry 16 marks. It will be comprised of 4 short answer type questions of 4 marks each to be selected from the entire syllabus.
- (iii) Two long – answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- (iv) All questions will carry equal marks.

OBJECTIVES

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

- explain the meaning, nature, aims and objectives of mathematics
- perform pedagogical analysis of various concepts in mathematics
- describe instructional planning and development of relevant material for the teaching of mathematics
- use ICT in teaching of mathematics
- describe continuous and comprehensive evaluation, diagnostic testing and remedial teaching in mathematics
- explain importance and uses of learning resources in mathematics
- improve competences in secondary level mathematics

COURSE CONTENT

UNIT I

Concept and Aims of Teaching of Mathematics

- Meaning, scope and nature of mathematics
- Aims and objectives of teaching mathematics at secondary stage
- Framing objectives according to Blooms taxonomy
- The nature of mathematical propositions, use of quantifiers and venn diagram
- A Mathematical theorem and its variants- converse, inverse and contra positive, proofs and types of proof.

Historical Perspective of Mathematics

- History of mathematics with special emphases on teaching of mathematics
- Coexistence of precision and beauty in mathematics

UNIT-2

Development of Curriculum in Mathematics

- Meaning and objectives of curriculum
- Principles for designing curriculum of mathematics at different stages of schooling
- Recent curriculum reform at national/ state level at their critical appraisal
- Content Analysis, Pedagogical Analysis and their comparison
- Pedagogical analysis of following topics of mathematics
 - Equations
 - Sets
 - Volume
 - Trigonometry
 - Ratio and proportion

Methods of Teaching Mathematics

- Inductive - deductive
- Analytic – synthetic
- Problem solving
- Heuristic method

UNIT-3

Learning Resources

- Importance of summer programs, correspondence courses, mathematics club, contests and fairs
- Designing mathematics laboratory and its effective use
- Importance of re-creational activities – games, puzzles and riddles in mathematics
- Projective and non-projective teaching aids

Instructional and Material Development

- Writing of lesson plan
- Micro lesson planning with special reference to following micro teaching skills- Introduction, probing question, class room management, skill of illustration with examples, skill of reinforcement
- Preparation and use of audio-visual material and equipments
- Application of ICT in teaching of mathematics

UNIT-4

Evaluation in Mathematics

- Evaluation Tools: Meaning, need and use of diagnostic testing and remedial teaching
- Continuous and comprehensive evaluation
- Formative and summative evaluation
- Criterion and norm reference test

Professional Development of Mathematics Teachers

- Types of In-service programme for mathematics teacher
- Role of mathematics teachers association , journals and other resource material in mathematics education
- Professional growth through participation in conference/ seminars/workshop

Tasks & Assignments: Any one of the following (10 marks)

- Preparation of an unit plan in Mathematics
- Preparation of lesson plans on two different approaches on a selected content matter
- Development of learning aids on any topic in Mathematics and procedure for using it.
- Book review of any two books in Mathematics.
- Any other task/assignment given by the institution.

SUGGESTED READINGS

- Alen, D.W and Ryan, K.A. (1969).Micro teaching, reading. Masschusetts, Falifornia: Addition Wesley.
- Bloom, B.Se. (1956). Taxonomy of Educational objectives. Handbook No. 1, New York: Longmans Green.
- Boyer, C. B. (1968). History of Mathematics. New York: John Wiley.
- Butler, C.H. and Wren, K.H. (1980). The teaching of secondary mathematics. New York: McGraw-Hill Book Company.
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- Dave, R.H. and Saxena, R.C. (1970). Curriculum & Teaching of Maths in Secondary Schools. A Research Monograph, Delhi: NCERT
- Davis, D.R. (1951). The teaching of Mathematics. London: Addison Wesclyh Press.
- Kulshrestha, A.K. (2007). Teaching of Mathematics. Meerut: R.Lal Book Depot.
- Mangal, S.K. (2007). Teaching of Mathematics, New Delhi: Arya Book Depot.
- Shankaran and Gupta, H.N. (1984). Content- cum -- Methodology of teaching Mathematics. New Delhi: NCERT.

COURSE-IV & V (GROUP B) Opt. (ii): PEDAGOGY OF HOME SCIENCE

Time: 3 Hours

Max. Marks: 100
(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

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

- develop understanding of the meaning, scope, areas, aims and objectives of Teaching of Home Science
- acquaint students about misconceptions regarding Home Science
- acquaint students about importance and interdisciplinary approach of Home-science
- develop understanding of the various methods and procedures required for Teaching Home Science effectively
- develop instructional planning and development of relevant material for the Teaching of Home science
- develop practical skills to organize various learning experiences related to Teaching of Home Science
- acquaint students to use I.C.E.T. in Teaching of Home Science
- perform pedagogical analysis of various concepts in Home science
- develop competencies and skill for effective evaluation in Home Science

COURSE CONTENT

UNIT-1

Concept and Aims of Teaching of Home Science

- Meaning, Nature and Scope of Home Science.
- Components of Home Science.
 - Food and Nutrition
 - Resource Management
 - Human Development

- Textiles and clothing
- Extantion Education
- Misconceptions regarding Home Science
- Importance of Teaching of Home Science in various stages of Secondary Education.
- General aims and objectives of Teaching Home Science at Secondary stage.
- Bloom's Taxonomy of Educational Objectives and writing objectives in terms of behavioural outcomes of students
- Study of National, Programmes run by Government relating to Health, Nutrition and Child Care

UNIT-2

Skills and Methods of Teaching Home Science

- Micro-teaching skills
 - Skill of Introducing the lesson
 - Skill of Questioning
 - Skill of Illustration
 - Skill of Explaining
 - Skill of Stimulus variation
- Preparation of Micro Lesson Plan
- Methods of Teaching
 - Lecture-cum-Demonstration
 - Laboratory
 - Project
 - Inductive-Deductive
 - Problem Solving

UNIT-3

Instructional Planning and Material Development

- Unit planning and lesson planning
- Meaning, Importance and preparation of Unit plan
- Meaning, Importance and Preparation of Lesson Plan

Meaning, Importance, Classification and Preparation of Audio-Visual Material used for Teaching of Home Science

- Application of I.C.T in Teaching of Home Science
- Learning Resources
- Importance and Organization of Home Science Club.
- Excursions and Home Science Exhibitions
- Home Science Laboratory: Planning, Organization and its importance.

UNIT-4

Pedagogical Analysis

- Meaning, importance and Steps of Pedagogical Analysis

- Pedagogical Analysis on the following topics:
 - Balanced Diet
 - Health and Hygiene
 - Fiber
 - Care and Maintenance of Fabrics
 - Child Care
 - Elements of Art
 - Principles of Design
 - Importance and Principles of Budget Making

Evaluation

- Evaluation in Home Science-Meaning and Importance of Evaluation
- Formative and Summative Evaluation.
- Diagnostic Testing and Remedial Teaching
- Development of Test Items
- Short-Answer Type
- Objective-Type

Tasks & Assignments: Any one of the following (10 marks)

- Market Survey and Report.
- Preparation of decorative items for the beautification of the school.
- Preparation of a Report on Quality Control Measures.
- Preparation of a Report on Mid-day Meal Programme in the school.
- Any other project/assignment given by the institution.

SUGGESTED READING

- Hindi Garanth Academy, Yadav, S. (2001). Teaching of Home Science. New Dehli: Anmol Publications.
- Sukhia, S. P. & Malhotra, P. V. (1976). Teaching of Home Science. Chandigarh: Haryana.
- Singh L.C. (1977). Micro-Teaching: An Innovation in Teacher Education. New Delhi: Department of Teacher Education, NCERT.
- Dass and Ray. (1983). Teaching of Home Science. New Delhi: Sterling Publishers Pvt. Ltd.
- Kapoor, R. (1994). Teaching of Home Science. Ludhiana: Prakash Book Depot.
- Chandra, A. (1995). Fundamentals of Teaching Home Science. New Delhi: Sterling publishers.
- Sheri, G. P. & Sherry, D. P. (2008). Teaching of Home Science. Agra: Vinod Pustak Mandir.

COURSE – IV & V (GROUP C) Opt. (i): PEDAGOGY OF BIOLOGICAL SCIENCE

Time: 3 Hours

Max. Marks: 100
(Theory: 80 Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

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

- develop awareness about developments in the area of biological sciences
- orient prospective teachers in specific educational aspects of science e.g. aims and objective of biological science; pedagogical analysis of contents in biological sciences, methods of teaching, evaluation
- enable prospective teachers to be effective teachers in order to perform the required role as a biological teacher under Indian School conditions

COURSE CONTENT

UNIT-1

- Nature, History, scope and Interdisciplinary linkage of Biological Sciences
- General Aims and Objectives of Biological Sciences
- Facts and principles of Biology & its applications consistent with the stages of cognitive development of learners, Origin of life and evolution, biodiversity, observation and experiments in Biological Science.
- Bloom's taxonomy of educational objectives
- Formulation of specific objective of Biological Science in behavioural terms

UNIT-2

Pedagogical Analysis

- Meaning, importance and Steps of Pedagogical Analysis
- Pedagogical Analysis on the following topics:
 - Photosynthesis,
 - Human digestive system,
 - Food Chain,
 - Ecological Balance

- Respiratory System
- Excretory
- Circulatory
- Hereditary and Environment

UNIT-3

- Development of Instructional Material: Unit planning, Lesson planning, Preparation of Teaching aids, Development of Demonstration Experiments.
- Development of Self-Instruction materials, Linear Programme
- Teaching Strategies: Problem Solving, Investigatory approach, collaborative learning, experimental learning
- Micro Teaching Skills: Skill of Introducing the Lesson, Skill of Questioning, Skill of Illustration, Skill of Explaining, Skill of Stimulus Variation

UNIT-4

- Concept of measurement and evaluation
- Types of evaluation: Formative, Summative, Diagnostic
- Preparation of an objective type and achievement test, Attributes of a good Achievement Test
- Different types of Grading
- Continuous and Comprehensive Evaluation

Task & Assignments: Any one of the following (10 marks)

- Model of Food Chain
- Model of Respiratory System
- Model of Excretory System
- Any other project/assignment given by the institution

SUGGESTED READINGS

- Aggarwal, D. D. (2008). *Modern Method of Teaching Biology*, Karanpaper Books. New Delhi.
- Anderson, R.D. (1992). *Issues of Curriculum Reform in Science, Mathematics and Higher Order Thinking Across the Disciplines: The Curriculum U.S.A.* University of Colorado.
- Bremmer, J. (1967). *Teaching Biology*, Macmillan, London.
- Buffaloe, N. and Throneberry, J.B. (1972). *Principles of Biology* University Press, New Delhi: Prentice- Hall of India Ltd.
- Carin. & Robert, S. (1989). *Teaching Modern Science (5th edition)*. U.S.A: Merill Publishing Co.

- Green, T.L. (1965). *The Teaching of Biology in Tropical Secondary Schools*, London: Oxford University Press.
- Gupta, S.K. (1985). *Teaching of Physical Science in Secondary Schools*. New Delhi, Sterling Publishing (Pvt. Ltd).
- Heiss, E.D., Obourn. S., & Hoffman. C.W. (1985) *Modern Science Teaching*. New Delhi: Sterling Publishing (Pvt) Ltd. Macmillian Company Press.
- Heiss, Obourn.,& Hoffman. (1985) *Modern Science in Secondary Schools*. New Delhi: Sterling Publishing Private Ltd.
- Nayak, (2003). *Teaching of Physics*. New Delhi: APH Publications.
- Pandey,(2003). *Major Issues in Science Teaching*. New Delhi: Sumit Publications.
- Passi, B.K. (1976). *Becoming a Better Teacher: Micro Teaching Approach*, Ahemedabad: Sahitya Mudranalaya.
- Patton, M.Q. (1980). *Qualitative Evaluation Methods*. New Delhi: Sage Publications.
- Sharma, R.C. (2006). *Modern Science Teaching* .New Delhi: Dhanpat Rai Publications.
- Siddifit, S. (1985). *Teaching of Science Today and Tomorrow*. New Delhi: Doba's House.
- Yadav, M.S. (2003) *Teaching of Science*. New Delhi: Anmol Publications.

COURSE-IV & V(GROUP C) Opt. (ii): PEDAGOGY OF ECONOMICS

Time: 3 Hours

Max. Marks: 100
(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

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

- develop an understanding of meaning, scope, aims and objectives of teaching of Economics
- get knowledge of different methods of teaching
- get knowledge of different devices, techniques and tools of evaluation
- develop the skill of preparing lesson plan in subject
- develop an interest in teaching of Economics
- acquire knowledge of present economic conditions in India
- acquire desirable attitudes and to become effective instrument of economic change and economic development
- become an effective citizen and good consumer
- acquire appropriate professional behaviour and to develop commitment to leading profession
- train the students to use problem-solving approach in problems related to economy and economics
- demonstrate application of I.C.T. in Teaching of Economics

COURSE CONTENT

UNIT-1

Concept, Scope, Aims and Objectives of Teaching of Economics

- Meaning, Nature and Scope of Economics as a school subject
- Aims, objectives and values of Teaching Economics
- Importance and role of Economics in Education
- Values of Teaching Economics: Practical, Social & Cultural

- Bloom's Taxonomy of objectives
- Statement of objectives in Behavioural Terms.

UNIT II

Pedagogical Analysis & Lesson Planning

- Meaning, importance and Steps of Pedagogical Analysis
- Pedagogical Analysis on the following topics:
 - Wants and their classification
 - Laws of return
 - Population- its Growth Pattern, Problems of over population, Density of population
 - National Income- Meaning, Methods of Measurement.
- Lesson planning: Need & Importance, Basic Elements & its Preparation

Learning Resources

- Importance and Organization of Economics Club
- Excursion and Economics Exhibitions
- Organization of seminars, symposiums and discussions

UNIT III

- **Development of Instructional Material**
 - Development and Designing of Curriculum of Economics
 - Economics Text-Book: Importance and criteria of selection
 - Economics Teacher: Professional Competencies and Responsibilities
 - Development/ Utilization of Instructional Aids- Charts, Maps Graphs Tables, Models Film Strips, T. V. Computer, Internet.
 - Application of I.C.T. in Teaching of Economics.
- **Methods of Teaching** : Lecture Method, Discussion Method, Survey Method, Project Method & Inductive-Deductive Method
- **Skills of Teaching** : Skill of Introducing the lesson, Skill of Explaining, Skill of Probing Questions, Skill of Illustration with Example & Skill of Stimulus Variation

UNIT IV

Evaluation

- Meaning, Importance and Types of Evaluation in Economics
- Types of tests: Essay type, short answer type and objective type.
- Continuous and Comprehensive Evaluation: Meaning, importance & Process.
- New approaches to Assessment – Question bank, Open Book Examination & Grading
- Construction of Achievement Test – Concept and Steps

Tasks & Assignments: Any one of the following (10 marks)

- Market Survey and Report about Consumer Behaviour

- Preparation of a Report on Programs run by Government relating to alleviation of poverty and/ or spread of education
- Preparation of test items of an achievement test of economics.
- Preparation of at least two teaching aids for teaching of Economics
- Any other project/assignment given by the institution

SUGGESTED READINGS

- Arora, P. N. (1985). Evaluation in Economics. New Delhi: NCERT.
- Kanwar, B. S. (1973). Teaching of Economics. Ludhiana: Prakash Brothers.
- Lee, N. (Ed.). (1975). Teaching of Economics. London: Heinemann Education Books.
- Sharma and Sexana (2002). Teaching of Economics. Surya Publication Meerut.
- Siddiqui, M.H. (1993). Teaching of Economics. New Delhi, Ashish Publishing House.
- Sidhu, H.S. (2000): Teaching of Economics. Ludhiana: Tondon Publications.
- Singh, Y. K. (2008). Teaching of Economics. New Delhi: APH Publishing Corporation.
- Tyagi, G. (2007). Teaching of Economics. Vinod Publishing House.
- Varshna, R. K. (1996). Teaching of Economics. Sahitya Publications.

PAPER-IV & V (GROUP C) Opt. (iii): PEDAGOGY OF COMPUTER SCIENCE

Time: 3 Hours

Max. Marks: 100
(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

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

- develop understanding of the meaning, scope, aims and objectives of teaching of computer science
- acquaint students about importance of computer science
- develop understanding of the various skills, methods and procedures required for teaching computer science effectively
- describe instructional planning and development of relevant material for the teaching of computer science
- develop practical skills to organize various learning experiences related to teaching of computer science
- develop skills and competencies required for preparing teaching-aids in teaching of computer science
- attain proficiency in using smart class room equipment effectively
- perform pedagogical analysis of various concepts in computer science
- train the students to use problem-solving approach in problems related to daily life
- develop competencies and skill for effective evaluation in Computer Science

COURSE CONTENT

UNIT-1

Concept and Aims of Teaching of Computer Science

- Concept, Need and Scope of Computer Science.
- Importance of Teaching of Computer at various stages in Indian Schools.
- Introduction to computers
- Input and Output and storage devices
 - MS Office-2007 onwards (Word, Excel, MS Access, PowerPoint, Paint)
 - Uses and Applications of computer

- Computer care- Viruses, Security and maintenance
- General Aims and Objectives of Teaching Computer Science
- Bloom's Taxonomy of Educational Objectives
- Writing objectives in terms of behavioural outcomes of students

UNIT-2

Skills and Methods of Teaching Computer Science

- Micro-teaching skills
 - Skill of Introducing the lesson
 - Skill of Questioning
 - Skill of Illustration
 - Skill of Explaining
 - Skill of Stimulus variation
- Preparation of Micro Lesson Plan
- Methods of Teaching
 - Lecture-cum-Demonstration
 - Laboratory
 - Project
 - Inductive-Deductive
 - Problem Solving
 - Advanced Methods of Teaching: CML,CAI, Mobile Learning and Online Learning

UNIT-3

Instructional Planning and Material Development

- Unit planning and lesson planning, Preparation of Lesson Plan
- Meaning, Importance, classification and preparation of Instructional Material used for Teaching of Computer Science

Learning Resources

- Text Books: Characteristics and Criteria for Selection of Computer Books with special reference to Theory and Practical Books of Computer Subject
- Self-Instructional Material
- Computer Assisted Instructional Material
- Computer Science Laboratory: Planning, Organization and its importance

UNIT-4

Pedagogical Analysis

- Meaning, importance and Steps of Pedagogical Analysis
- Pedagogical Analysis on the following topics:
 - Computer System
 - Operating System

- Net-Working
- M.S. Windows
- MS Office
- Information Technology & Computers.

Evaluation

- Evaluation in Computer Science-Meaning and Importance of Evaluation
- Formative and Summative Evaluation.
- Diagnostic Testing and Remedial Teaching
- Types of Tests used in Computer Science

Tasks & Assignments: Any one of the following (10 marks)

- Preparation of Self Instruction Modules for the Secondary School Students
- Collection and Interpretation of data regarding computer attitude of Government School students.
- Use online Evaluation Tools for measuring Soft skills.
- Act as proctor for Computer literacy in peer teaching.
- Any other project/assignment provided by the college.

SUGGESTED READINGS

- Singh, L.C. (1977). Micro-Teaching: An Innovation in Teacher Education, Department of Teacher Education, New Delhi: NCERT.
- Gill, N.S. (2001). Essentials of Computer and Network Technology. Khanna Book Publishing Company.
- Leon, A. M. (2001). Computer for everyone. New Delhi: Vikas Publishing house.
- Intel. (2003). Intel Innovation in Education. New Delhi: Student Work Book.
- Tanenbaum, A. S. (2009). Computer Networks. New Delhi: Pearson Prentice Hall.
- Singh, Y.K. (2011). Teaching of Computer Science. New Delhi: APH publication.
- Khandai, H. (2013). Teaching of Computer Science. New Delhi: APH publication.

PAPER-IV & V (GROUP C) Opt. (iv): PEDAGOGY OF MUSIC

Time: 3 Hours

Max. Marks: 100
(Theory: 80, Practical: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

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

- develop interest for music
- develop understanding of aims of teaching of music
- develop competencies and skills for teaching of music
- provide knowledge of different methods and techniques of teaching of music
- understand lesson planning and evaluation aspects in teaching music
- develop understanding & aesthetic sense through music
- enable pupil teachers to organize competitions and other practical activities

COURSE CONTENT

UNIT 1

Music: Concepts, Aims and Objectives

- Concept of Music, types and importance of Music in present scenario
- History of Indian Music: Ancient, Medieval and Modern period.
- Aims and objectives of Music as a subject in the School curriculum.
- Bloom's Taxonomy and Instructional objectives in teaching of Music

UNIT 2

Teaching Skills, Lesson Planning, Notation and Voice Culture of Indian Music

- Micro-teaching skills: Meaning, Process, Utility, Merits, Limitations
 - Introducing the Lesson
 - Questioning
 - Stimulus Variation
 - Illustration with Examples
 - Explaining

- Lesson Planing: Meaning, Importance & types.
- Possibilities of notation for Indian Music: Critical study of Bhatkande and Vishnu Digamber Pulskar
- Voice-culture-importance in Indian context

UNIT 3

Teaching Methods, Qualities of Music Teacher, Motion and Rhythm, Aesthetics in Indian Music

- Methods of teaching Music
 - Alankar - Geet Method
 - Demonstration – imitation Method
 - Project Method
 - Individual and Group Teaching Method
- Qualities of Music Teacher-Gayak, Vadaḡ and Avadyakar/composer.
- Knowledge and Importance of Taal/Motion and Rhythm and its training
- Aesthetics in Indian Music

UNIT 4

Instructional Aids, Textbooks, Classical Music, Evaluations

- Meaning and Importance of Audio-visual Instructional Aids in Teaching of Music
- Textbooks: Meaning, Importance of textbooks in teaching of Music, Qualities of a good textbooks of Music
- Importance of Classical Music, Suggestions for the popularization of Classical Music.
- Evaluation in Music: Meaning, Purpose, Importance, Evaluation Devices-Oral, Written and Practical

Tasks & Assignments: Any one of the following (10 marks)

- Tuning of the instrument related to the subject of the students.
- Collection of Musical documents (Notes, Newspaper and Magazines Articles cutting).
- Preparation of Project Report on the legends of Music.
- Preparation of low cost teaching aids.
- Any other project/ assignment given by the institution.

SUGGESTED READINGS

- Elliott (2012). Fundamental of Music. New Delhi: Prentice Hall of India.
- Shah, S. (2006). Sangeet Shikshan. Agra: Vinod Pustak Mandir.
- Khanna, J. (2003). Teaching of Music. Ludhiana: Tondon Publications.
- Vasant (1998). Sangeet Vishaarad. Hathras: Sangeet Karyalaya.

COURSE-IV & V (GROUP D) Opt. (i): PEDAGOGY OF PHYSICAL SCIENCES

Time: 3 Hours

Max. Marks: 100
(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

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

- acquaint them with the teachings of physical sciences
- develop awareness about developments in the area of teaching and learning of physical sciences
- understand the methods and skills of teaching physical sciences
- develop competencies to teach at various levels in the Indian school conditions
- prepare a lesson plan
- acquiring skills relating to planning the lessons and presenting them effectively
- develop scientific thinking in themselves, students and communities
- understand the importance of educational technology for teaching physical sciences
- understand the techniques of evaluating science teaching and to construct an achievement test to assess the learning outcomes of pupils
- estimate the facilities required for the organization and maintenance of science laboratory
- understand the special qualities of a science teacher and to acquire those qualities
- acquire a favourable scientific temper towards science teaching and values

COURSE CONTENT

UNIT-1

Importance of Teachings of Physical Sciences

- Nature, Concept & Scope of Physical Sciences and its Place in the School Curriculum.
- History of Physical Sciences with special emphasis on Teaching of Physical Science.
- Aims and Objectives of Teaching Physical Sciences.
 - Differentiate between the terms 'Aims' and 'Objectives'.

- Aims of teaching Physical Sciences at Middle, Secondary and Senior Secondary stages.
- Bloom's Taxonomy of educational objectives.
- Instructional Objectives of teaching Physical Sciences at the school stage and their formulation.
- Physical Science Teacher: Qualities & Responsibilities.
- Need for Professional Orientation.

UNIT -2

Approaches & Methods of Teaching Physical Sciences

- Development of Teaching Skills through Micro Teaching (Probing Questions, Introducing the Lesson, Explaining, Illustration with Examples, Using Chalkboard and Stimulus Variation).
- Methods of teaching Physical Sciences (Lecture cum Demonstration method, Project method and Problem Solving method).
- Aids, Equipments and Assistance in teaching Physical Sciences:
 - Need and utilities of Physic Sciences Laboratory.
 - Preparation and use of Teaching Aids.
 - Unit and Lesson Planning.
 - Popularization and Propagation of Physical Sciences through Science Exhibition, Science Magazine, Science Trip and Science Quiz.
- E-teaching of Physical Sciences using technology for self-learning and collaborative learning of science

UNIT-3

Pedagogical Analysis of contents in Physical Sciences

- Contents Analysis, Pedagogical Analysis and their comparison.
- Study of items: Division of units into sub-units, Teaching requirements, Instructional objectives, Teaching strategies, Previous knowledge testing, Topic announcement, Concepts of contents, Presentation, Teaching aids use, Demonstration experimental verification, Thought provoking questions and Criterion based tests.
- Pedagogical analysis of any one of the following topics:
 - Atomic Structure
 - Energy and its types
 - Environment and Pollution
 - Water as a Universal Solvent
 - Transmission of Heat
 - Magnetism
 - Friction

UNIT-4

Evaluating Outcomes of Physical Sciences Teaching

- Indicators of Quality Learning and Major Issues in Classroom Learning with special reference to Physical Sciences.
- Concept of Test, Measurement and Evaluation.
- Differentiate between the terms 'Examination' and 'Evaluation'.
- Qualities of a good test, Principles and steps in construction of an achievement test, Blue Print and Question Paper, Item analysis, Construction of multiple choice questions, Diagnostic test, Remedial teaching in physical sciences.
- Continuous and comprehensive evaluation, Formative and summative assessment, Grading pattern.
- Selection of appropriate evaluation technique.

Task & Assignments: Any one of the following (10 marks)

- Preparation of Unit Plan and two lesson plans on any topic of Physical Science included in the Science text book of secondary school.
- Write Book Review on any two books in Physical Sciences.
- Write Review on Science Exhibition, Science Trip, Science Fair, Science Fiction Movie and Scientific Environment of Class.
- Preparation of a unit/ achievement test on any topic by developing the Blue Print and the test items conforming to the blue print.
- Preparation of a model / tool / device based on any principle of Physical Sciences.
- Any other project/assignment given by the institution.

SUGGESTED READINGS

- Gupta, S.K. (1985). Teaching of Physical Science in Secondary Schools. New Delhi: Sterling Publications (Pvt.) Limited.
- Joshi, D. (2012). Methodology of Teaching Science. New Delhi: Dorling Kindersley (India) Pvt. Ltd.
- Mangal, S.K. (2009). Teaching of Physical Sciences. New Delhi: Arya Book Depot.
- Pandey.(2003). Major Issues in Science Teaching. New Delhi: Sumit Publications.
- Radha, M.(2010). Teaching of Physical Science. New Delhi: Neelkamal Publishers.
- Rahi, A.S. (2012). Pedagogy in Physical Sciences and Teachers. U.S:Createspace Publications.
- Sharma, R.C. (2006). Modern Science Teaching. New Delhi: Dhanpat Rai Publications.
- Sonika, R.(2012). Methodology of Teaching Science. New Delhi: Dorling Kindersley (India) Pvt. Ltd.
- Sood, J.K. (1992). New directions in Science Teaching. Chandigarh: Kohli Publishers.
- Vanaja, M. (2010). Educational Technology. New Delhi: Neelkamal Publishers.

COURSE-IV & V (GROUP D) Opt. (ii): PEDAGOGY OF SOCIAL SCIENCE

Time: 3 Hours

Max. Marks: 100
(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

After completion of the course, student teachers will be able to

- initiate pupil-teacher to various concepts and technology of teaching of Social Studies for promotion of National and International Peace and Understanding
- have an overview and integrate the knowledge drawn from various sources-History, Geography, Civics, Sociology and Economics
- acquire knowledge and develop understanding about the various pedagogical principles involved in teaching of Social Studies
- understand the principles of curriculum development, its transaction and evaluation
- explain use of teaching aids effectively in the class-room
- develop lesson plan with the help of advanced technology and explain challenging situations in the society

COURSE CONTENT

UNIT 1

Foundation and Context of Social Sciences

- Meaning, Nature and Scope of Social Sciences as a school subject
- Aims and Objectives of teaching Social Sciences at School level
- Taxonomy and behavioural Objectives in Social Sciences
- Values of Teaching Social Sciences
- Correlation of Social Sciences with History, Economics, Civics, Geography, Sociology, Mathematics, Natural Science and Psychology

UNIT-2

Pedagogy & Lesson Planning

- Meaning, importance and Steps of Pedagogical Analysis
- Pedagogical Analysis on the following topics:

- Constitution of India
- Size, Location and Physical features of India
- French Revolution
- Population
- Democracy in the contemporary world
- Disaster Management
- Lesson planning in Social Sciences: Need & Importance, Basic Elements & its Preparation

UNIT-3

Curriculum, Teaching Learning Material and Skills of Teaching Social Sciences

- Meaning, Importance and Principles of designing a good Curriculum of Social Sciences; Critical Appraisal of the Existing Curriculum in Social Sciences, Suggestions for improvement; Approaches of organizing social sciences curriculum-logical, concentric, spiral, chronological.
- Teaching Learning Material: Textbook & Reference Books, Documentaries, News Papers, Maps, Community, Atlas, and E-resources (Blog, World Wide Web, and Social Networking)
- Skills of teaching Social Studies: Skill of Explaining. Skill of Illustration with Examples, Skill of Reinforcement, Skill of Questioning and Skill of Stimulus Variation

UNIT-4

Classroom Processes and Evaluation in Social Sciences

- Classroom Processes: Discovery method, Discussion method, Computer Assisted Instruction (CAI) Educational broadcasting and telecasting, e-tutoring, Survey Method, Field Visits, Concept Mapping and Story Telling.
- Meaning, Importance and Types of Evaluation in Social Sciences.
- Continuous and Comprehensive Evaluation: Meaning, importance & Process.
- New approaches to Assessment – Question bank, Open Book Examination, Grading & Credit System
- Construction of Achievement Test – Concept and Steps

Tasks & Assignments: Any one of the following (10 marks)

- Understanding a slum in terms of its economics, subsistence, politics and historic memories.
- Study the transport needs of a community by analyzing different kinds of vehicles people own in relation with gender and socio-economic standards.
- Explore how cartoons, stamps, currency, magazines, globes and so on be used in teaching of social science.
- Trace any consumer product from its raw form and how various factors of geography, economics, politics and history influenced it.
- Any other project/assignment given by the institution.

SUGGESTED READINGS

- Agarwal, J.C. (1993). Teaching of Social Studies-A Practical Approach. Second (Revised Edition): Viaks Publishing House.
- Batra, P. (ed) (2010). Social Science Learning in Schools: Perspective and Challenges. New Delhi, Sage.
- Dhamija, N. (1993). Multimedia Approaches in Teaching Social Studies, New Delhi: Harman Publishing House.
- Eklavya (1994). Samajik Adhyayan Shikshan: Ek Prayog, Hoshangabad, Eklavya.
- George, A. and Madan, A. (2009). Teaching Social Science in Schools, NCERT's New Textbook, New Delhi, Sage.
- Khan, S. U. (1998). History Teaching-Problems: Prospective and Prospect, New Delhi: Heera Publications.
- Kochhar, S.K. (1998). Teaching of Social Studies, New Delhi: Sterling Publishers Pvt. Ltd, New Delhi.
- NCERT (2006). Position Paper, National Focus Group on Teaching of Social Sciences, New Delhi, NCERT.
- NCERT Social Science Textbooks for classes VI-X, New Delhi, NCERT.

COURSE-IV & V (GROUP D) Opt. (iii): PEDAGOGY OF COMMERCE

Time: 3 Hours

Max. Marks: 100
(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

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

- gain insight on the meaning and nature of Commerce for determining aims, and strategies of teaching learning
- identify and relate everyday experiences with learning commerce
- understand lesson planning and evaluation aspects in teaching Commerce
- apply the knowledge in analyzing higher secondary Commerce contents in terms of the techniques and aids for the purpose of teaching Commerce
- understand the different types of curriculum, classroom management techniques and technology in and of education to teach Commerce
- develop interests in knowing the recent development in teaching methodology, and technological developments in Commerce
- be professionally competent to design pedagogical content knowledge to be imparted in actual teaching-learning systems
- develop critical attitude to different types of learning resources and to use them for becoming an informed and effective teacher
- understand various tools and techniques of assessment of pupil's scholastic and non-scholastic performance
- become a self-critical teacher of commerce in modern day

COURSE CONTENT

UNIT- 1

Foundation and Context of Commerce

- Meaning, Nature and Scope of Commerce as a school subject.
- Aims and Objectives of teaching Commerce at School level
- Taxonomy and behavioural Objectives in Commerce.

- Values of Teaching Commerce: Practical, Social & Cultural
- Correlation of Commerce with Book-keeping, Organisation of Business and Secretarial Practice, Economics, Law, Sociology, Mathematics and Geography.

UNIT-2

Important Concepts, Pedagogy & Lesson Planning

- Understanding terminology of Commerce: Book Keeping, Accountancy, Business Management, E-commerce, M-commerce
- Meaning, importance and Steps of Pedagogical Analysis
- Pedagogical Analysis on the following topics:
 - Cash Book.
 - Trade
 - Advertisements
 - Balance Sheet.
 - GST/VAT Calculation
- Lesson planning in Commerce: Need & Importance, Basic Elements & its Preparation

UNIT-3

Curriculum, Teaching Learning Material and Skills of Teaching Commerce

- Meaning, Importance and Principles of designing a good Curriculum of Commerce, Critical Appraisal of the Existing Curriculum in Commerce, Suggestions for improvement
- Teaching Learning Material: Textbook & Reference Books, Business Documents, News Papers and E-resources (Blog, World Wide Web, and Social Networking)
- Skills of teaching Commerce: Skill of Explaining, Skill of Illustration with Examples, Skill of Reinforcement, Skill of Questioning and Skill of Stimulus Variation

UNIT-4

Classroom Processes and Evaluation in Commerce

- Classroom Processes: Personalized System of Instruction (PSI), Computer Assisted Instruction (CAI) Educational broadcasting and telecasting, e-tutoring, Problem Solving and Heuristic method.
- Meaning, Importance and Types of Evaluation in Commerce.
- Continuous and Comprehensive Evaluation: Meaning, importance & Process.
- New approaches to Assessment – Question bank, Open Book Examination & Grading
- Construction of Achievement Test – Concept and Steps

Tasks & Assignments: Any one of the following (10 marks)

- Visits to banks, insurance houses, warehouse, trade-centres, companies and other business houses

- Collection of business documents, newspaper and magazines articles (cuttings), business forms
- Collection of e-learning resources in Commerce.
- Explore how cartoons, currency, newspapers, magazines, documentaries etc. be used in teaching of commerce.
- Any other project/assignment given by the institution.

SUGGESTED READINGS

- Aggarwal, J.C. (1996) Teaching of Commerce: A Practical Approach. New Delhi:Vikas Publishing House Pvt. Ltd.
- Allen, O. C. and Francis, P.H. (1988). Curriculum: Foundations, Principles and Issues. New Jersey: Prentice Hall.
- Head, G. W. (1988). Commerce. London: Heinemann Professional Publishing.
- Joyce, & Well, (2004). Models of Teaching. U.K: Prentice Hall of India.
- Khan, M. S. (1982). Commerce Education. New Delhi: Sterling Publishers Private Ltd.
- Kochhar, S. K. (1992). Methods and Techniques of Teaching. New Delhi: Sterling Publishers Private Ltd.
- Muthumanickam, R. (2004). Educational Objectives for Effective Planning and Teaching. Chidambaram: Cyber land Publisher.
- Rao, S. (2000). Teaching of Commerce. New Delhi: Anmol Publications Pvt. Ltd.
- Singh, Y. K. (2009). Teaching of Commerce. New Delhi: APH Publishing Corporation Ltd.

COURSE-IV & V (GROUP A) Opt. (v): PEDAGOGY OF PUNJABI

Time: 3 Hours

Max. Marks: 100

Credits-4

(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q.No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions carry equal marks.

OBJECTIVES:

Pupil-teachers would be able to

- Develop awareness about basic concepts related to teaching of Punjabi at the secondary level.
- Impart training in various skills e.g. language skills, use of techniques of evaluation, teaching skills (micro-teaching skills)etc.
- Enable pupil teachers to use current method of teaching Punjabi.

COURSE CONTENTS

UNIT-I

1) Nature of Punjabi Language, Aims and Objectives and Principles of Teaching.

- The nature and importance of language – its origin and development
- Origin and development of Punjabi language and its script
- Role of mother tongue in the education of a child
- Aims & objectives of teaching of Punjabi
- General Principles and maxims of teaching of Punjabi

2) Development of Language skills

- Listening
- Speaking
- Reading
- Writing

UNIT-II

3) Development of Micro lessons based on skills of questioning, explaining illustration and stimulus variation,

Role of language activities

- Debates
- Recitation
- Story telling
- Symposium

4) Methodology

Modern methods of teaching language with specific references to:

- Project method
- Play way method
- Discussion method
- Correlation method
- Observation method

UNIT-III

5) Methods of teaching of prose, poetry, composition and grammar

6) Preparation of lesson plans for each of the above aspects of language.

UNIT-IV

7) Instructional Material

- Audio-visual aids meaning, importance and their kinds Proper use of these in teaching of Punjabi
- Construction of the curriculum of Punjabi language, critical appraisal of Punjabi curriculum at secondary school level
- Qualities of a good Punjabi text book, criteria governing the construction of Punjabi text books.

8) Evaluation:

- Modern concept of evaluation in Language
- Different types of techniques and tests for evaluating different language skills.
- Construction of
 - Oral type tests
 - Short-answer type tests
 - Objective-type tests
 - Essay-type tests
 - Diagnostic test

Task and assignment: (10 Marks)

Any task assigned by the institution.

SUGGESTED READINGS

- Singh, G.B. (1981). Gurumukhi Lipi Da Janam Te Vikas, Chandigarh: Punjab University Publication Bureau
- Singh, G. (1971). Gurumukhi Lipi Bare, Ludhiana: Lahore Book Shop
- Singh, H. (1966). Punjabi Bare, Patiala: Punjabi University
- Sekhon, S. S. & Singh, P. P. (1961). Punjabi Boli Da Itihas, Punjab: Bhasha Vibhag

COURSE-IV & V (GROUP D) Opt. (iii): PEDAGOGY OF ARTS

Time: 3 Hours

Max. Marks: 100

Credits-4

(Theory: 80, Internal: 20)

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q.No. 1 will be compulsory and will carry 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions carry equal marks.

Objectives:

- To develop an understanding of the place of Art in Education of the child.
- To develop competencies and skills for teaching of Art.
- To develop an understanding and insight into the stages of 'Art' development in children at various age levels.
- To develop competencies and skills of the methods and techniques, in teaching of 'Art' of different kinds.
- To develop competencies in evaluating some products of Art.

COURSE CONTENT

UNIT I

- (i) Art and meaning of Visual Communication
- (ii) Appreciation of Art
- (iii) Art in daily Life
- (iv) Art in Education

UNIT II

- (i) Methods and material of Art through the ages encaustic, oil, tempera, Fresco etc.
- (ii) Modern Art movements, Abstraction, Cubism, Expressionism Realism, Impressionism, Romanticism.

UNIT III

Methods of Teaching Art

- (i) Qualities of an Art Teacher and his role in Education
- (ii) How to prepare lesson notes for Art classes?
- (iii) How to prepare Art Syllabus for Art classes?

(iv) How to teach Still life, Designs, Nature-Study and Painting- Composition.

(v) Class room Decoration

UNIT IV

(i) Stages of development in Children's Art

(ii) How to teach Art in Primary, Middle, High and Higher Secondary classes, the material required, amount of time necessary and the size of the class?

(iii) Relation of Art and Craft with other School subjects and the importance of Art and Craft Exhibitions in Education.

Task and assignment: Any one of the following: (10 marks)

(a) Landscape from memory: Simple composition in connection with common flowers, mountains, sky, huts, water, bridge, birds, animals and human figures in action in any medium on a quarter sheet of drawing paper.

(b) Decoration designs: Pictorial composition in water or tempera.

(c) Still Life Drawing and Painting of Group of two or three simple objects in any medium.

(d) Poster: will include writing of Block and script Letters in English/Hindi/Punjabi/Urdu with nibs or brush in ink or colour.

(e) Collage making

(f) Presentation of Art-Work

Recommended Books

1. Jeswani, K.K. Art in Education, Atma Ram & Sons Kashmiri Gate, Delhi-6
2. Road, H. Education through Art, Faber and Faber London
3. Lowen Feld, V. Creative and mental Growth, Macmillan Co., New York
4. Jeswani K.K. Appreciation of Art, Atma Ram and Sons, Kashmiri Gate, Delhi-6.
5. Tolstoy What is Art? An essay on Art, Oxford University Press, New York.
6. Percy Brown Indian Paintings.
7. Ian Chilvers The Oxford Dictionary of Art.
8. Bhup Singh Gulia The Traditions of Northern India (A study of Art, Architecture and Craft in Haryana) Subhi Publications, City Centre, Gurgaon (HR).
9. Lois Fichner – Rathus - Understanding Art, Prentice-Hall International (U.K.) Ltd. London

COURSE- VI (A): READING AND REFLECTING ON TEXTS
(To be evaluated by the External Examiner)

Max. Marks: 50

Distribution of 50 Marks will be

- I. Sessional Work = 20 Marks**
- II. Practical Work at the time of exam= 20 Marks**
- III. Viva-voce = 10 Marks**

OBJECTIVES

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

- Read and respond to variety of texts in different ways, may be personal, creative or Critical.
- enhance their capabilities as readers and writers by becoming participants in the process of reading
- get involved in the reading interactively – individually and in groups
- become resources for one another
- comprehend and think reflectively on spoken or written texts
- read critically and analyze course readings, ideas presented in the class and experiences in schools
- write with a sense of purpose and for an audience
- learn to think together and develop meta-cognitive awareness to become conscious of their own thinking process

COURSE CONTENT

UNIT I

Reading as a Language Skill

- acquisition of reading skills
- reading for global and local comprehension
- reading a wide variety of texts such as descriptive, narratives, conversations, biographical sketches, plays, poems, letters, screenplays, reports, news reports

Attentive/Close Reading and Reflecting on Texts

- Identify and select the texts :course text and beyond
 - Understanding the process of critical reading
 - Ways of reading: pre-reading and post reading

UNIT 2

Developing Writing skills

- Writing for specific purpose and specific audience
- Experience the classroom process of Writing (including collaboration, editing)

- Recognizing errors as part of learning process
- Editing the written texts in terms of discourse, syntax, morphology and writing conventions.

Writing and Reflecting on Text

- Understand the concept of reflective writing
- Distinguish Features of reflecting writing's
- Read, reflect, and think critically: recognize the benefits of reflecting on developing teaching philosophy
- Includes knowledge of types of texts: their structure, language features, word knowledge and content knowledge acquired through learning and personal experience

Sessional Work (Any two of the following):

- Read a book, a journal Article, or a chapter and write personal responses and summarize.
- Prepare presentations on literary TEXT – Autobiography / ethnographic text.
- Beyond the textbook: reading comprehension and question –answers.
- Preparing a Vocabulary Book (50 words), with Meanings and Usage.
- Writing a book review and critically analyze the Content and Language of the text.
- Any other project/assignment given by the institution.

SUGGESTED READINGS

- Agnihotri, R.K. and Vandhopadhyay, P.K. (ed.) (2000). *Bhasha, bhubhashita or Hindi: Ekanthsamvaad*, New Delhi: Shilalekh.
- Anderson R.C. (1984). Role of the Reader's Schema in comprehension, learning and memory. In R.C Anderson, J. Osborn, & R. J. Tierney (Eds.), *Learning to read in American Schools: Basal readers and content texts*. Psychology Press.
- Butler, A. and Turbill, J. (1984). *Towards Reading-Writing Classroom*. New York: Primary English Teaching Association Cornell University.
- Grellet, F. (1981). *Developing Reading skills: A practical guide to reading comprehension exercise* Cambridge University Press.
- Mason, J. M. and Sinha, S. (1992). Emerging Literacy in the Early Childhood Years. Applying a Vygotskian Model of Learning and Development in B. Spodek (Ed.) *Handbook of Research on the Education of Young Children*, New York: Macmillan.137-150.
- NCERT (2005). *National Curriculum Framework (NCF)*. New Delhi: NCERT.
- Reading Development Cell, NCERT (2008). *Reading for meaning*. New Delhi: NCERT.
- Rosenblatt, Louise M. (1980). What Fact Does This Poem Teach? *Language Arts*.57(4).
- Tompkins, Gail E. (1994). *Teaching Writing: Balancing Process and Product*. Macmillan.
- California Yule, G. (2006). *The study of language*, Delhi: Cambridge University Press.

- Martin, Jr. B. (1987). *The Making of a Reader: A Personal Narrative*. In Bernice E. Cullinan, *Children's Literature in the Reading Programme*. Michigan: International Reading Association.
- Richards, J.C. and Theodore S. R. (1986). *Approaches and Methods in Language Teaching: A description and Analysis*. India: Cambridge University Press.

COURSE- VI (B): DRAMA AND ART IN EDUCATION
(To be evaluated by the External Examiner)

Max. Marks:50

Distribution of 50 Marks will be

I. Sessional Work = 20 Marks

II. Practical Work at the time of exam= 20 Marks

III. Viva-voce = 10 Marks

OBJECTIVES

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

- develop and understanding of drama & art, the scope and purpose of art education and art as the basis of education
- exhibit basic understanding in art appreciation, art expression and art education
- bring the arts into the centre of exploration, e.g. in visual arts: semiotics of the image/film/play/music
- explore the adaptive strategies of artistic expression
- recognize the role of drama as education in the elementary school
- learn to identify areas that are best suited for drama exploration
- examine through chosen themes, how learning can take place in the classroom through group drama exploration by a whole class of elementary school students
- explore the role of the teacher as creative guide in learning that is drama driven
- explore how art can enhance learning

COURSE CONTENT

UNIT 1

Understanding Drama and Arts in Education

- Meaning and Concept of 'Art' and 'Arts in Education',
- Understanding aesthetics and its education relevance
- Drama and Arts as Pedagogy of learning and development- understanding drama, Arts (Visual & Performing Arts) and their importance in teaching- learning of different subjects at school level.
- Range of art activities in drama
- Experiencing, responding and appreciating drama
- Exposure to selective basic skills required for drama
- Drama: Facilitating interest among students: planning and implementing activities
- Enhancing learning through drama for children with and without special needs: strategies and adaptations

UNIT 2

Media and Electronic Arts

- Range of art activities in media and electronic art forms
- Experiencing, responding and appreciating media and electronic arts
- Exposure to selective basic skills in media and electronic arts
- Media and electronic arts: Facilitating interest among students: planning and implementing activities
- Enhancing learning through media and electronic art for children with and without special needs: strategies and adaptations

Sessional work (Any two of the following):

- Role Playing' activity for historical / contemporary personalities wherein students play the role of that personality to advocate his/her opinions/decisions/thought processes (for example, Akbar, Hitler, Galileo, Bhagat Singh etc.)
- Write a self-reflective essay on how this course on art will make you a better teacher
- Learn and briefly explain how music notations are made. Submit a brief report OR learn and explain the concept of composition in visual art. Submit a brief report. OR make and submit a sample advertisement for a product OR Learn Mudras of a classical dance forms and hold a session for the students on that. Submit photo report of the same OR Carry out web search on Indian sculpture and submit a brief compilation
- Organizing art, craft and music exercises with small groups followed by discussions and presentation.
- Observe an art period in a school and briefly write your reflections on it.
- Any other project/ assignment given by the institution.

SUGGESTED READINGS

- Chawla, S.S. (1986). Teaching of Art. Patiala: Publication Bureau, Punjabi University.
- Dodd, N. and Winifred, H. (1971/1980). Drama and Theatre in Education, London: Heinmann.
- Efland, A. D. (1990). A history of Art Education: Intellectual and social currents in teaching the visual arts. New York, NY: Teachers College Press.
- Harriet, G. (1964). Art in Everyday Life. Calcutta: Oxford and IBH Publishing Company.
- Khanna, S. and NBT (1992). Joy of Making Indian Toys, Popular Science. New Delhi: NBT.
- McCaslin, N. (1987). Creative Drama in the Primary Grades. Vol. I and In the Intermediate Grades, Vol. II, New York/London: Longman.
- Mishra, A. (2004). Aaj bhi Khareinhai Talaab, Gandhi Peace Foundation, 5th Edition.
- Narayan, S. (1997). Gandhi views on Education: Buniyadi Shiksha [Basic Education], The Selected Works of Gandhi; The Voice of Truth, Vol 6, Navajivan Publishing house.

- NCERT (2006). Position Paper National Focus Group on Arts, Music, Dance and Theatre, New Delhi: NCERT.
- Prasad, D. (1998). Art as the Basis of Education, NBT, New Delhi.
- Sahi, J. and Sahi, R.(2009). Learning Through Art, Eklavya.
- Shirley, G. (2000). Art, an A to Z guide. Franklin Watts: USA.
- Vaze, P. (1999). How to Draw and Paint Nature. Jyosna Prakashan: Mumbai.
- Ward, A. (1993). Sound and Music. Franklin Watts: New York.

COURSE- VII (A): CRITICAL UNDERSTANDING OF ICT
(To be evaluated by the External Examiner)

Max. Marks: 50

Distribution of 50 Marks will be

- | |
|---|
| <p>I. Sessional Work = 20 marks</p> <p>II. Practical Work at the time of exam= 20 Marks</p> <p>III. Viva-voce = 10 Marks</p> |
|---|

OBJECTIVES

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

- demonstrate the use of ICT in Education
- demonstrate the use of MS Windows and MS Office
- prepare presentations in word and power point slides
- demonstrate the use of ICT and its integration in education
- demonstrate the use of internet for teaching
- use ICTs to develop digital portfolios in their teaching subjects
- use effectively the ICTs and the pedagogies associated with them
- use of smart classroom
- use of electronic and projecting devices in teaching

COURSE CONTENT

UNIT -1

- MS WINDOWS: Basic concept of an Operating System and its functions; Introduction of Windows & Basic components of a Window
- MS Office: MS WORD, Introduction to a Word Processor, Basic components of MS WORD and its operation
- MS Power Point: Introduction to Presentation Graphics, Basic components of MS Power Point and its operations, Making Small Presentations
- Basics of a presentation
 - Creation of Power point Presentation
 - Providing Aesthetics
 - Slide Manipulation and Slide Show Presentation of the Slides
- MS Excel: Introduction to Spreadsheets, Concept of Worksheets and workbooks and their operations, Preparation of Worksheets and workbooks

UNIT-2

- Internet: Concept & Definition; Ways of using the Internet in instruction

- Basic modes of use of the internet, e-mail, file exchange, discussion groups, live-conferencing (chat) and knowledge navigation
- Classification of the modes: searching for information and exchanging information
- Smart Classroom: Concept, Equipment, Organization, Operation & its importance in teaching.
- Platform for On-Line Teaching: Microsoft Teams, Google Classroom

Sessional Work (Any two of the following):

- Making a resume in MS Word.
- Making of lesson plan in MS Word.
- Making small presentations in MS Power Point.
- Making of progress report-card and annual results in MS Excel.
- Making of salary statement in MS Excel.
- Making of projects using internet.
- Making of projects integrating internet and smart classroom.
- Any other project/assignment given by the institution.

SUGGESTED READINGS

- Cox, J. & Urban, P. (1999). Quick Courses in Microsoft Office, New Delhi: Galgotia Publications.
- Jain, Satish. (1990). Introduction to Computer Science and Basic Programming, New Delhi: Prentice Hall of India.
- Saxena, S. (1998). A first Course in Computer, New Delhi: Vikas Publications.
- Sinha, P.K. (1990). Computer Fundamentals, New Delhi: BPB Publications.
- Tanenbaum, A.S. (1998). Computer Networks, New Delhi: Prentice-Hall of India.
- Intel (2003). Intel Innovation in Education, New Delhi: Student Work Book.

COURSE- VII (B) :UNDERSTANDING THE SELF
(To be evaluated by the External Examiner)

Max. Marks: 50

Distribution of 50 Marks will be

- I. Sessional Work = 20 marks**
- II. Practical Work at the time of exam= 20 Marks**
- III. Viva-voce = 10 Marks**

OBJECTIVES

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

- identify their own potential
- give conscious direction to their lives to take responsibility for their actions
- develop a holistic and integrated understanding of the human self and personality
- develop the capacity for self-reflection and personal integration
- develop the capacity for perspective taking and appreciating different points of view
- develop sensitivity towards needs of children by connecting with one's own childhood experiences
- develop the capacity to establish peace within oneself
- develop the capacity to establish harmony within a group and methods of conflict resolution

COURSE CONTENT

UNIT 1

Knowing one's True Potential

- Concept of Self and Self Identity, Self-Esteem, Aspects of Development of the Inner Self, Self-Development Strategies
- Personality: Determining a Distinctive Personality, Dynamic Approaches to Personality
- Forms of self-expression: Personal constructs, Social Constructs
- Communication Skills, Soft skills
- Self and Identity: Adult-Child gaps

UNIT 2

Peace, Progress and Harmony

- Locus of control
- Stress Management and Techniques of Relaxation
- Social Interaction and Group Influence (Social Bonds , Group Formation ,Cooperation & Competition)
- Methods of Conflict Resolutions and Group & Social Harmony
- Yoga for Peace and Harmony, Breathing exercises, Meditation.

Sessional Work (Any two of the following):

- Write a self-reflective journal (approx.600-800 words).
- Elaborate your own values towards self and society.
- Report on stress management techniques.
- Any other project/assignment given by the institution.

SUGGESTED READINGS

- Goel, B. S. (1988). Psycho-Analysis and Meditation, Third Eye Foundation of India, Sonapat, Haryana.
- Snyder, C.R. (2011). Positive Psychology: The Scientific and Practical Explorations of Human Strengths. Sage Publishers.
- Topichik, G.S. (2008). Managing Workplace Negativity, PHI, Delhi.
- Kaul, H.K. (2013). Yoga Asana for Everyone. Surjeet Publishers.
- Hadfield, J. A. (1983). Psychology and Morals, Methuen & Co. London.
- Charles, K. and Arul, V. (2015). Peace and Value Education, Selvi Publishers.
- Feldonan, R.S. (2009). Essentials of Understanding Psychology Seventh Edition, Tata Mc Graw Hill, New Delhi.
- Kubalker, R. (2015). Know your Stress-Manage Your Stress, Neel Kamal Publishers.
- Sheorron, B. (2008). The Presentation Skills Workshop, Prentice Hall of India, New Delhi.
- Steve, D. (2012). The Basics of Communication: A relational Perspective Sage Publishers.