

Ph.D - PROGRAMME STRUCTURE

The Ph.D. Programme Structure shall comprise of the following courses:

Course Code	Subject Title	Mark Distribution			
		Credits	Duration of Exam	Maximum Marks	Pass Marks
MPED-01	Educational Research Methodology and Data Analysis	4	3	100	50
DPED-02	Education System - An Overview	6	3	100	50
DPED-03	Back ground Paper related to the candidate's Ph.D work	6	3	100	50

**MPED – 01: EDUCATIONAL RESEARCH METHODOLOGY AND
DATA ANALYSIS**

Unit 1 Basics of Research

Research as Phenomena – Method of acquiring knowledge (grounds) – Conventional Methods – Modern and Scientific Methods – Baseline assumptions of Scientific method – Theory building – Acquisition of Knowledge from multi sources– Nature, Type and Functions of Theories – Meaning and Concepts of Academic Writing, Expository Writing, Journal Reading, Research Reading. Types of Research: Fundamental, Applied and Action Research – Historical, Survey, Philosophical, Cross Sectional, longitudinal, Analytic, Comparative, Case Study, Genetic, Explorative, Descriptive, Experimental, Ex-post-facto.

Unit 2 Experimental Research Methods

Types of Experimental Designs: Between group, within group or Individual Designs (Single, Parallel group, rotation and Factorial Designs) Characteristics: Random assignment, control over extraneous variables, manipulating treatment conditions, outcome measures, group comparisons, threats to validity, steps in conducting experimental research – Experimental Research Designs: Pre-experimental, True experimental, quasi experimental, factorial designs – Experimental Validity of Designs: Internal and External Validity.

Unit 3 Sampling and Hypothesis

Probability and Non-probability Sampling Techniques – Sampling Error – Hypothesis – Types – Hypothesis Testing –Hypothetical Errors: Type-I and Type-II – Interpretations and Hypothetical Inferences.

Unit 4 Tools of Research

Reliability and Validity of research tools – Types of tests and Inventories: Achievement tests, Aptitude tests, Interest inventories, personality inventories, projective Techniques – observation – Questionnaire: closed and open forms attitude scales (Thurston technique – likert method) – semantic differential forms – sort technique – Sociometry – limitations.

Unit 5 Descriptive Data Analysis

Need and use of descriptive analysis – parametric and Non-parametric Data – Measures of Central Tendency, Dispersion, Relationship, Positional Statistics and its interpretations – Normal distribution: Interpreting the normal probability distribution, Practical applications of the normal current – Statistics Inference.

Unit 6 Inferential Data Analysis

Need and use of interracial analysis – partial correlation – multiple regression – Analysis: path analysis, Multi-level analysis, predictor analysis, profile analysis, correspondence analysis, Discriminate analysis, Factor analysis and item analysis – Matrix display tactics for drawing conclusions.

Unit 7 Software Data Analysis:

Statistical Packages Ms-Excel, SPSS, MINI TAB, Graph pad – Qualitative analyses using computer software, NUD-IST (Non-numerical unstructured Data – Indexing, Searching and Theorising) – Review of Packages and their applications – Theoretical understanding of statistics – Statistical applications and interpretations – past – analysis considerations.

Unit 8 Enquiry Forms in Research:

Research Paradigms and approval Normative and Interpretive Paradigms – comparison and control in the research process – causal models: Nomothetic and Idiographic – critical theory models – oral history models – Making the abstract concrete – bringing theory to practice – conceptualization – Operationalization – level of measurement: Normal, ordinal, Internal, Ratio.

Unit 9 Qualitative Research: Qualitative research model – Themes: Design strategies, Data Collection, Fieldwork strategies, analysis strategies – Theoretical Traditions. Ethnography, Phenomenology, Heuristic inquiry, Ethno – Methodology, Symbolic interaction, Hermeneutics. Triangulation, Narrative Analysis, Ecological Psychological Systems theory, Grounded Theory, Feminist inquiry – Research Strategies: Document or content analysis – Case Study, Ethnographic Studies, Meta Analysis – Data Collection Techniques: Observation, Interview, Review of Document.

Unit 10 Writing and Dissemination of Research Report

Report Writing: Organization of Research Report, Types of Research Reports, Style of writing the report, Research report in APA format Plagiarism and Grammar Checking – Software using for Plagiarism Checking - References and bibliography - Evaluation of research - Criteria of evaluation. Writing Research proposal: Style of Research Proposal, Criteria for writing good Research Proposal - Funding Agencies of Educational Research. Dissemination of Research Report: Significance of Research Dissemination, Dissemination of Research Report in International Standards, National and International Journals on Education – Predatory Journals, Journals with impact factor, Indexed Journals, H-factor, M-factor.

Reference Books

- Basavayya, D. & Venkataiah, N. (2016).** *Essence of Educational Research Methodology.* New Delhi: Neelkamal Publications.
- Bergman, M.M. (2008).** *Advances in Mixed Methods Research.* New Delhi: SAGE Publications.
- Best, J. W. (1974).** *Research in Education.* New Delhi: Prentice-Hall of India.
- Borg, W.R. & Gall, M.D. (1979).** *Educational Research: An Introduction.* (3rd Edition). New York: Longman Inc.
- Boudah, D.J. (2011)** *Conducting Educational Research.* New Delhi: SAGE Publications.
- Cohen, L. (2008).** *Research Methods in Education.* London: Routledge.
- Dipti & Bhatt (2015).** *Research Methods in Education.* New Delhi: Neelkamal Publications.
- Ford, N. (2012).** *Using the Web for Research.* New Delhi: SAGE Publications.
- Golten, C. & Manion, L. (1981).** *Perspectives on Classrooms and Schools.* London: Holt, Rinehart and Winston.
- Golten, C. & Manion, L. (1985).** *Research Methods in Education.* London: Routledge.
- Gupta, M. (2013).** *Research Methodology,* New Delhi: Prentice Hall of India.
- Gupta, S.L. (2013).** *SPSS 17.0 for Researchers.* New Delhi: International Publications.
- Huizingh, E. (2007).** *Applied Statistics with SPSS 1.* New Delhi: SAGE Publications.
- Johnson, B. & Christensen, L. (2012).** *Educational Research: Quantitative, Qualitative and mixed Approaches.* Los Angeles: Sage Publications.
- Keith F. Punch. (2009).** *Introduction to Research Methods in Education.* Los Angeles: Sage Publications.
- Kothari, C.R. (2015).** *Research Methodology.* New Delhi: New Age Publications.
- Kumar, R. (2014).** *Research Methodology: A Step-by Step Guide for Beginners.* New Delhi: Sage Publications.
- Maheswari, V.K. & Bansal,S. (2013).** *Elements of Educational Research.* Meerut: Raj Printers.
- Paul, S. (2012).** *Qualitative Data Analysis.* New Delhi: Sage Publications.
- Richard, A. (2013).** *Interpreting Quantitative Data.* New Delhi: SAGE Publications.
- Sharma, R.A. (2013).** *Educational Research.* Meerut: R. Lall Book Depot.

DPED – 02: EDUCATION SYSTEM - AN OVERVIEW

UNIT 1 UNDERSTANDING EDUCATION AND ITS NATURE

Education: Meaning, Definition, Nature, Concept of Education - Aims of Education- Process and functions of Education - Purpose of Education - Role and Importance of Education in Life - Characteristics of an Educated Person. Aspects of Education: Liberal and Vocational Education, Human Rights Education, Environmental Education, Inclusive Education. Social Aspects of Education: Women Education, Peace Education, Moral Education, Education for Deprived People, Education for Minority, Education for sustainable Development.

UNIT 2 PHILOSOPHICAL FOUNDATIONS OF EDUCATION

Meaning, Definitions and Concept of Philosophy of Education – Relationship between Philosophy and Education - Eastern Thoughts: Vedic Education, Jainism, Buddhism, and Hinduism - Western Thoughts: Individualism, Socialism, Totalitarianism, Democracy, Idealism, Realism, Naturalism, Pragmatism, Eclecticism, Reconstructivism and Existentialism – Education for National Integration and International Understanding - Branches of Philosophy: Metaphysics, Epistemology, Axiology and Logic – Authoritative, Empirical, Scientific, Rational and Intuitive methods of acquiring Knowledge – Knowledge management

UNIT 3 VISION OF EDUCATION: INDIAN THINKERS

Salient features of the philosophy and practice of Education – Rabindranath Tagore: Liberationist pedagogy – M.K.Gandhi’s Basic Education for self sufficiency – Aurobindo Ghosh’s Integral education – J.Krishnamurthi ‘s Education for Individual and social transformation. Swami Vivekananda.

UNIT 4 EDUCATION IN THE MODERN INDIAN SOCIETY

Education in Concurrent List - Directive Principle: Article 21A - Universalisation of Elementary Examination - Wastage and Stagnation - Brain Drain - Brain Gain - Right to Education Act - Equitable Education - University Education Commission (1948) - Secondary Education Commission (1952-53) - Kothari Commission (1964-66) - Ishwar Bhai Patel Committee (1977) - Adisehiah Committee (1978) - National Policy on Education (1986) - Programme of Action (1992) - National Curriculum Framework (2005) - National Knowledge Commission (2007) - Justice J.S.Verma Committee (2012) - Characteristics of Modern Indian Society: Autonomy, Accountability - Digital Divide - E-Governance in Education - Constitutional Provisions related to Education.

UNIT 5 EDUCATION SYSTEM AND AGENCIES

Education System: Formal, Informal and Non-formal - Distance Education and Open Education. Innovative Education: e-Learning, Mobile Learning, Online Learning, U-Learning - Value Oriented Education - Role of International Organizations on Education: UNESCO, OECD, The World Bank, ILO, WHO. Role of National Organizations on Education: NCTE, NCERT, CSIR, RCI, AICTE, NAAC, DEB, UGC. Role of State Organizations on Education: TANSICHE, DIET, SCERT.

UNIT 6 TEACHER EDUCATION IN INDIA

Changing roles of teachers - Development of secondary teacher education (STE) - Pre-service and in-service education of teachers - Structure of secondary teacher education system in India - Merits and limitations - Vertical and horizontal mobility - Professional development of teachers and teacher educators - Role expectations of teacher in the 21st century - Pandit Madan Mohan Malviya National Mission and Special Orientation of Primary Teachers (SOPT) - District (DPEP) and Sarva Shiksha Abhiyan (SSA)

UNIT 7 INTERNET, WEB AND MOBILE TECHNOLOGIES

Internet Basics - Internet services - Teleconferencing - Internet security - Synchronous and asynchronous communication - e-mail, chat, newsgroups and forums - Academic and Research content - Online journals and abstraction services - Online courses - Web2.0 and Web3.0 Technologies - Applications in learning - Social media - Professional forums - Blogs - Twitter - Wiki - Photo and video sharing - Mobile Technologies - Mobile Apps - ICT in Education - Learning Management Systems - Multiple learning spaces - Personalized learning - Online surveys - e-portfolio - Learning Analytics - Open Educational Resources - MIT Open Courseware - MOOCs - Blended learning - Flipped Classroom - Shodhganga - SWAYAM

UNIT 8 OPEN AND DISTANCE LEARNING

System of Education: Formal, Informal, Non-formal and Distance Education Distance Education: Introduction, Concept, Scope - Evolution of Distance Learning - Characteristics of Distance Learners - Open learning Systems - Self learning - Virtual University - Digital Library - Management Information System - Virtual Classrooms - IGNOU - Organisational structure of National / State Open Universities - Open Educational Resources - OER University

UNIT 9 SCHOOL MANAGEMENT PERSPECTIVES

Teacher : Definition - Position - Teacher as a Manager - Classroom Supervision - Administration Vs Supervision - Teachers as a Planner in the Communicative System - Education as a Service Industry - School Management - Responsibilities, and Roles - Leadership Theories - Qualities and outcomes of educational management - Total Quality

Management in Education - School Development Plans - Key Areas - School climate – Quality Control Measures - IQAC- Policy Making - Management in Central and State Government - Local Educational Authorities – Role of NIEPA – School financial Management - Autonomy, Accountability –e-governance in Education.

UNIT 10 VOCATIONALISATION AND SKILL DEVELOPMENT

Vocational Education – Need and Importance - Human Resource Planning - Government initiatives for Human Resource Development in rural areas - National Skill Development Mission – NSDC and SSDC - Skill development at various levels – Entrepreneurship.

Reference Books

Abdul Kalam, A. P.J., with Rajan, Y.S. (2002). *India 2020. A Vision for the New Millennium*, Viking Penguin Books (P) Ltd., New Delhi.

Agarwal, J.C. (1999). *Theory and Principles of Education*. Vikas Publications House Pvt. Ltd., New Delhi.

Bhahirathi Sahu (2007). *The New Educational Philosophy*. New Delhi: Sarup & Sons.

Bhatnagar, R.P. and Vidya Arawal (1997) *Educational Administration*. R. Lall Book Depot, Meerut.

Chandra, S. S. and Sharma, R. K. (1996) *Principles of Education*. Atlantic Publishers, New Delhi.

Rather, A. R. (2007). *Theory and Principles of Education*. New Delhi: Discovery Publishing House.

Sharma, A.P. (2010). *Indian and Western Philosophy*. New Delhi: Unicorn Books.

Singh, Y. K. (2008). *Philosophical Foundations of Education*. New Delhi: APH Publishing Corporation.
