

**SOLAPUR UNIVERSITY, SOLAPUR
SYLLABUS FOR M.Phil. (Education)**

w.e.f. June 2010

Paper – I

Information Technology and Research Methodology

Section-I

Information Technology

Marks-50

OBJECTIVES: To enable the student to

1. Be acquainted with the Information and Communication Technology to apply for Educational research.
2. Be acquainted with Computed Hardware and Software to be able to use in Education & research
3. Be acquainted with the use of statistical packages (Software) and it's applications In Educational Research.
4. Be acquainted with Internet, e-concepts Media Technology and it's use in Educational research.

UNIT-I INFORMATION AND COMMUNICATION TECHNOLOGY

- a) Information technology: concept need and importance
- b) Meaning of telecommunication, Analog and digital signals, Modems
- c) Importance of computer networks, types of network.

UNIT-II COMPUTER HARDWARE & SOFTWARE

- a) Meaning of hard-ware and various hardware components of a personal computer & it's working.
- b) Input Devices:- Keyboard, mouse, touch pad, touch screen, joystick, light pen, bar code readers optical Mark Readers (OMR), scanners, Optical Character Recognition (OCR), Magnetic Ink Character Recognition (MICR) , Microphone.
- c) Output devices : Monitors (VDU), speakers etc., Impact Printers-dot-matrix printers, Non Impact printers-Ink-jet printers, laser printer etc., plotters.
- d) Computer Software: Meaning and Types (System. Application, Utility)
- e) Operation Systems: Meaning, Types, Functions
- f) Features of MS Windows, features of MS Office i.e. Word/Excel/PPT

UNIT-III INTERNET, WORLD WIDE WEB AND APPLICATIONS OF I.T. IN EDN.

- a) Concept and Meaning of Internet
- b) The World Wide web: Introduction to WWW, web Search engines, Downloading the information for off line viewing
- c) Electronic Mail (e-mail): The Concept of e-mail, Advantages and Disadvantages of e-mail, Use of e-mail in educational research
- d) Computer care – Virus, security and maintenance.
- e) Use of IT in Educational Management: Office Automation, Correspondence, Personal records, Accounting, Examinations
- f) Use of IT in Research: Problem selection, Review of related research & literature, Data collection, Analysis and Interpretation, Reporting, Presentation of research outcome
- g) Use of Statistical Software for data analysis in research (e.g. SPSS, Excel)

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- Das, B.C. (2000). Educational Technology: Cuttack. Kalyani Publications.
- Honcok, A, (1977). Planning for Educational Mass Media; New York, Lougman Group Ltd.
- Jain, Madhulika and others (2000). Information Technology Concepts. New Delhi: BPB Publications.
- Kovalchick, Anna and Dawson, Kara(2005). Encyclopedia of Education and Technology: New Delhi. Vol 1 and 2 Pantagon Press.
- Kumar, Keval. J. (2006). Mass Communication in India. Mumbai.
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- Mohanti, J. (1992). Educational Technology: New Delhi. Deep and Deep Publication
- Percival, Fred, Ellington, Henry (1984). A Handbook of Educational.

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2. Mangal, S. K. (1984), 'Educational Training'.
3. Vincent and Vincent (1985), 'Information Technology Further Education'.

मराठी संदर्भ ग्रंथसूची

1. येवले, समी (2007), 'शैक्षणिक तंत्रविज्ञान आणि माहिती तंत्रविज्ञान', पुणे : नित्यनूतन प्रकाशन.
2. नगराळे, शरद (2007), 'संगणक शिक्षण आणि माहिती तंत्रविज्ञान', पुणे : नित्यनूतन प्रकाशन.
3. चव्हाण, किशोर (2007), 'माहिती संप्रेषण तंत्रज्ञान', नाशिक : इनसाईट पब्लिकेशन.
4. पाटील बी. एम., शिखरे व्ही. पी. (2011), 'शैक्षणिक तंत्रविज्ञान आणि माहिती तंत्रविज्ञान, कोल्हापूर : फडके प्रकाशन.
5. बरवे मिनाक्षी, धावणकर मिनाक्षी (2008), 'माहिती संप्रेषण तंत्रविज्ञान', पुणे : नित्यनूतन प्रकाशन.
6. विरकर, प्रतिभा (2006), 'माहिती संपर्क तंत्रज्ञान आणि शिक्षण', पुणे : विद्यार्थीगृह प्रकाशन.
7. बरवे, मिनाक्षी (2006), 'संगणक शिक्षण आणि शिक्षक', पुणे : नित्यनूतन प्रकाशन.
8. साळी व. झा., भावे बी. एस., रायते शंकरराव (2007), 'माहिती संप्रेषण आणि तंत्रज्ञान (डी.टी.एड.)', कोल्हापूर : फडके प्रकाशन.
9. जगताप, ह. ना. (2003), 'प्रगत शैक्षणिक तंत्रविज्ञान आणि माहिती तंत्रविज्ञान', पुणे : नित्यनूतन प्रकाशन.
10. किर्ती आलमप्रभु रवि, 'माहिती संप्रेषण तंत्रविज्ञान'.

Paper-I
Section-II
Research Methodology

(50 Marks)

Unit -I : Introduction :

- 1) Research and science
- 2) Research and scientific thinking.
- 3) Nature of science and scientific method
- 4) Methods of acquiring knowledge.

Unit –II Research Language:

- 1) Distinction between concept and construct. Limitation and delimitation. Assumption and Hypothesis. Statement and definition.
- 2) Distinction, among Nominal definition conceptual definition and operational definition.
- 3) Different variables: dependent, independent, intervening, and extraneous.
- 4) Significance of ‘Law of single variable’ in research.

Unit –III Sampling :

- 1) Fundamental concepts-Universe, population, sampling frame-sampling error. Sample, levels of confidence and significance.
- 2) Steps in sampling designs criteria for selecting sampling procedure, characteristics of good sampling design.
- 3) Types of sampling-probability & Non-probability.

Unit-IV Use of Statistics in educational research:

- 1) Descriptive and inferential statistics.
- 2) Parametric tests and their applications
- 3) Non-Parametric test and their application
- 4) Construction of Norms
- 5) Interpretation and generalization of results.

Books Recommended:

1. Balguruswamy E. : Programming in ANSI ‘C’
2. Best J.W.V. Kahn : Research in Education.
3. Butcher H. J. Sampling in Educational Research.
4. Kothari C.R. : Research Methodology : Methods & Techniques.

5. Agrwal J. C. Education Research An Introduction.
6. Clarke – Research processes in Physical Education Recreation and health.
7. Clarke – Research processes in Physical Education.
8. Robson M, A.K. Uppal, T.S. Brar – Thesis format.
9. Kamlesh Sen – Research methodology.
10. Bloomer & Linguist – Statistical methods in psychology & Education.
11. Garrett – Statistics in Psychology.
12. Clarke – Practical Measurement in Physical Education.
13. Dr. Deshmukh P. N. – Research Methodology in Physical Education- Krishnakant distributor, Latur. MHS.

Paper – II
Foundations of Education

100 Marks

Unit-I Philosophy of Education.

- A) Meaning, Scope and importance.
- B) Nature of Knowledge Sources of Knowledge & aims of Knowledge .
- C) Epistemology and Education – “Methods of acquiring Knowledge.
 - 1) Axiology and Education – Contribution made by Bhagwatgeeta, Jainism, Buddhism and Islam to Value Education

Unit-II Western Schools of Philosophy and Education.

Reconstructivism, essentialism, logical Impericism & existentialism constructivism.

Unit-III Human Rights and Education

- a) ‘Human right in Education’ – Concept, Need, aims of and teaching-learning method.
- b) Right to Information-Meaning, Need and advantages to citizen.
- c) Implication of Consumer act to Education.
- d) Intolerant property Right and Education.

Unit-IV Schools of Psychology

- a) Humanism, behaviorism, purposivism, Gestalt, Cognitive Psychology
- b) Thought Process-
Teacher thought Process, Student thought Process, Hidden Curriculum Teaching theories.
- c) Variables related to teaching learning Process.
- d) Recent trends – Brain based learning, Co-operative learning, collaborative learning concept mapping.

Unit-V Teaching – Learning Process

- 1) Concept of teaching
- 2) Condition of teaching
- 3) Learning styles Models –
 - a) Honey & Mumford’s model, b) Sudbury C) Model of democratization. d) Anthony Greaser’s model

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2. Bhatia, K. and Bhatia, B.D., 'Theory and Principles of Education, Delhi : Daoba House.
3. Brameld, Theodore (1955), 'Philosophies of Education in Cultural Perspective', New York : Holt, Rinehart and Winston.
4. Edwards, Paul (Edi.) (1967), 'The Encyclopedia of Philosophy', Volume 314, New York : Macmillan Publishing Co. Inc.
5. Brubacher, J. S. (Chairman) (1963), 'Modern Philosophers of Education (Year Book), Allahabad : Central Book Depot (6th Printing).
6. Arora, Kamali (1978), 'Difference between Effective and Ineffective Teachers', New Delhi : C. Chand and Company Ltd.
7. Chauhan, S. S. (1978), 'Advanced Educational Psychology', New Delhi : Vikas Publishing House Pvt. Ltd.
8. Mangal, S. K. (1975), 'Psychological Foundations of Education', Ludhiyana: Prakash Brothers.
9. Mitra, S. K. (Ed.), 'Psychology of Teaching', Baroda : Center of Advanced Study in Education.
10. Mukherji, S. N. (Ed.), 'Teacher Education in India', Volume I and II, New Delhi : S. Chand and Co.
11. Tibble, J. W. (Ed.), 'The Future of Teacher Education', London.
12. UCERT (1990), 'Teacher Education in India', New Delhi.

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1. अकोलकर, ग. वि. (1973), 'शैक्षणिक तत्त्वज्ञानाची रूपरेषा', पुणे : श्रीविद्या प्रकाशन.
2. कुंडले, म. बा. (1996), 'शैक्षणिक तत्त्वज्ञान व शैक्षणिक समाजशास्त्र', पुणे : श्रीविद्या प्रकाशन.
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4. कक्कड, गुरुप्रसाद व गायकवाड शशी (1995), 'शिक्षण व अध्यापक शिक्षण', विचार मंथन.
5. भिलेगांवकर, स. दि. व मोरे, सी. एस. (2006), 'शिक्षक शिक्षण', पुणे : नित्यनूतन प्रकाशन.
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Paper – III

Aspects of Educations

100 Marks

1) Value Education

- a) Need of Value Education
- b) Various Programs for Inculcation of Values.
- c) Barrios in inculcation
- d) Values for emerging world

2) Economics of Education

- a) Meaning, Nature and Scope.
- b) Education and human resource development.
- c) Impact of Liberalization, Privatisation, and globalization on education.

3) Environmental Education

- a) Environment: - meaning, Scope and Importance of Knowledge of Environment.
- b) Eco-system:- Food Chain and Foodweb.
- c) Conservation of natural resources-Concept, need, Importance and Strategies.
- d) Sustainable Development – Concept, need and Importunes of sustainable development.

4) Population Education

- a) Meaning, Importance and need of population education.
- b) Nature of Population education – Demographic factors.
- c) Population and quality of Life Population in relation to socio – economic development.
- d) Family Life Education –
Concept of family, family role and responsibilities, responsible parenthood.

5) Futurology.

- a) Futurology meaning and importance.
- b) Futurology reference to Dallore’s report.
- c) Education in the Field of future studies.

REFERENCES

1. Ruhela, S. P. (Edit), 'Human Values and Education', New Delhi: Sterling Publishers Pvt. Ltd.
2. Ed. Chhatwal G.R., Pandey D. K., Nanda K. K. (1988), 'Encyclopedic Dictionary of Environment', Volume I to IV, New Delhi : Anmol Publishers.
3. Johno, Enachwo (1990), 'Economics of Education and the Planning Challenge', New Delhi : Anmol Publishers.
4. Sharma G. D., 'Economics of College Education', New Delhi : Association of Indian Universities.

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11. चव्हाण, दिपक (2005), 'पर्यावरण शिक्षण', य.च.म. मुक्त विद्यापीठ, नाशिक.
12. घाटे, निरंजन (2001), 'वेध पर्यावरणाचा', पुणे : मेहता पब्लिशिंग हाऊस.
13. अहिरे, बा. ग. (2006), 'लोकसंख्या शिक्षण', पुणे : नित्यनूतन प्रकाशन.

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16. पाटील, गितांजली व सप्रे, निलिमा (2000), 'शिक्षणातील नवप्रवाह व नवप्रवर्तने', कोल्हापूर : फडके प्रकाशन.
17. पंडित, ब. वि. (1990), 'भविष्याभ्यास आणि उद्याचे शिक्षण', पुणे : नूतन प्रकाशन.
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