

**M.Phil.–Part-I : Paper : 1**

**Teaching Techniques/Pedagogical Methods in Library and  
Information Science**

**Objectives:**

At the end of the course, the scholars will be able to

1. Understand the meaning, scope and concept of Education, Educational Technology, Instructional Technology & Educational Evaluation.
2. Appreciate the contributions made by philosophers and psychologists to the field of education.
3. Review the relative effectiveness among the different methods and techniques of teaching and learning in Higher Education.
4. Discriminate among different types of tests meant for students' evaluation, diagnose the learning problems of the students and take remedial measures.
5. Be aware of the web based communication strategies for professional development and be benefited of the e-resources in Education.

**SYLLABUS**

**UNIT – I Higher Education and Learning**

Historical Perspectives ... Objectives and Role of Higher Education ... Learning and Learning Hierarchy ... Information Processing ... Learning Events and Outcomes ... Motivation.

**UNIT – II Teaching Technology : Designs**

Teaching Technology: Meaning, concept and scope ... Instructional Designs: Objective based, Skill based, Competency based, Learning style based and Model based.

**UNIT – III Methods and Techniques of Teaching**

Large Group Techniques: Lecture, Modified Lecture, Seminar, Symposium, Panel Discussion, Team Teaching, Project Approach and Workshop ... Small Group Techniques: Group Discussion, Simulation, Role Playing, Buzz Technique, Brain Storming, Case Discussion and Assignment ... Systems Approach in Education.

**UNIT – IV Measurement and Evaluation in Education**

Educational Evaluation: A Conceptual Framework...Methods of Evaluation ... Self Evaluation and Student Evaluation in Higher Education ... Question Banking ... Diagnostic Testing and Remedial Teaching.

**UNIT – V Electronic Media in Education**

Instructional Media: Concept, Selection, Use and Variety ..... e-Learning V Resources : e-Learning, e-books, e-journals,etc....Web-based Learning: Access and Tteaching Issues.

## **TEXT BOOKS:**

### **For Units I to IV**

**Vedanayagam, E.G. (1989) Teaching Technology for College Teachers.** New Delhi: Sterling Publishers (P) Ltd.

### **For Unit V**

**Rajasekar, S. (2005) Computer Education and Educational Computing,** Hyderabad: Neelkamal Publications.

## **BOOKS FOR REFERENCE:**

**Kumar, K.L. (1997) Educational Technology,** New Delhi: New Age International (P) Ltd.

**Sampathkumar, K., Paneerselvam, A and Santhanam, S. (1990) Introduction to Educational Technology,** New Delhi: Sterling Publishers (Pvt.) Ltd.

**Tony Bates, A.W. (2005) Technology, e-Learning and Distance Education,** New York: Routledge.

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## **Paper –II : RESEARCH METHODS AND TRENDS IN LIBRARY AND INFORMATION SCIENCE**

### **Unit – I: Basics of Research**

Research : Meaning, Objectives, Characteristics. Types of Research; Pure, Applied, Action Research, Inter-Disciplinary Research – Logic and Scientific Investigation. Research Problem: Identification, Selection and Formulation of a Research Problem. Areas of research in LIS.

### **Unit – II: Research Design and Scaling Techniques**

Research Design – Meaning, importance and Concept. Characteristics of a Good Research Design. Types of Research Design: Exploratory, Case Study, Delphi Method- Descriptive, Diagnostic and Experimental. Components of Research Design, Scaling Techniques.

### **Unit- III: Data Collection Methods**

Data Collection: Primary and Secondary Data Sources. Tools of Data collection: Schedule, Interview, and Questionnaire -Observation – Survey-Sampling Techniques. Precautions in the Use of Secondary Data

### **Unit – IV: Data Analysis**

Data Analysis: Analysis and Interpretation – Statistical Tools and Techniques – Measure of Central Tendency – Content Analysis, T-Test, ANOVA, Chi-Square Test - Regression and Correlation. Report Writing - Utilization and Presentation of Diagrams, graphs and tables. Role of Bibliography in Research.

### **Unit –V: Resent Trends in Library and Information Science**

Digital libraries- Introduction – Definition – Characteristics - Components of Digital library - Collection of Digital Library- e-books- e-journals- News letters - Digital Libraries Initiatives in India- Digital Library Projects at National and International level.

## **Books Recommended for Further Readings**

1. Devarajan, G. Research in Library & Information Science. New Delhi; Ess Ess, 2002
2. Kothari, C. R. Research Methodology – Methods & Techniques. New Delhi; Vishwa Prakasam., 1996.
3. Krishan Kumar. Research Methods in Library and Information Science, New Delhi Vikas; 1992
4. Panda, B. D. Research Methodology for Library Science. New Delhi; Anmol, 1997.
5. Ravichandra Rao, I.K, Quantitative Methods for Library and Information's Science, New Delhi: Wiley Eastern
6. Santhosh Gupta. Research Methodology and Statistical Techniques. New Delhi; Deep and Deep, 2000
7. Chowdhury, G.G. Introduction to Digital Libraries. London: Facet, 2003.
8. Deegan, Merlyn and Tanner, Simon. Digital Futures: Strategies for the Information Age. London: Facet, 2001.

## **PAPER- III : INFORMATION TECHNOLOGY (IT) APPLICATIONS IN LIBRARY AND INFORMATION SCIENCE**

### Unit – I : Introduction

Library Automation –Need for automation – Historical Development of Computer: Types of Computer Generations – Operating Systems – DOS, Windows- Unix- Input /Output Devices- Systems Hardware and Software – System Software and Application Software .

### Unit – II: Library Automation

Social, Economical and Psychological Implications of Library Automation System - Study and Planning for Automation – Computerization of Various House Keeping Operations – A Study of Some Important Library Automation Packages SOUL, LIBSYS etc,

### Unit- : Networking

Networking: Need - Purpose – Types – LAN, WAN, MAN, Topologies — Important Networks in Library and Information Science – NICNET, INDONET, INFLIBNET, ERNET, DELNET etc.

### Unit IV– Digital Library

Digitization – Digital Library Development – Issues Involved – Electronic Resources – Access to Web Based Digital Resources – Electronic Publishing, E-mail and CD ROM Technology. Strategic Management of Digital Libraries – Challenges for Digital Library – Intellectual property Rights in Digital environment –

### Unit V– Resource Sharing

Resource Sharing - An Historical Developments – Resource Sharing Tools – Resource Sharing Technology to crossing the Hurdles – Barriers – Library Consortium –Concepts –Need- Types of Consortium- Consortium Initiatives in India - INDEST Consortium and UGC-Infonet Consortium

## **Books Recommended for Further Readings**

1. Rajaraman, V. Fundamentals of Computers, New Delhi: PHI
2. Ravichandra Rao, I.K, Library Automation, New Delhi: Wiley Eastern,
3. Moorthy, T.A. and Jain, S.P. Network Access to electronic Documents and its copyright Implications, FID conference proceedings, New Delhi, INSDOC
4. Iyer, V.K., Management of Library Information services, New Delhi, Rajat Publicaitons.
5. Chowdhury, G.G. Introduction to Digital Libraries. London: Facet, 2003.
6. Pedley. Digital Copyright. Ed2. London: Facet, 2005