M.PHI./Ph.D. : LIBRARY SCIENCE

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