

**C.S.J.M. UNIVERSITY, KANPUR**  
**MASTER OF LIBRARY & INFORMATION SCIENCE**  
**(M. Lib. I. Sc.)**  
**One Year Post Graduate Course**  
**COURSE CONTENTS**

<b>Paper No.</b>	<b>Paper Title</b>	<b>Sessional marks</b>	<b>Exam marks</b>	<b>Total</b>
I	Knowledge, Information and Society	20	80	100
II	Information Processing and Retrieval (Theory)	20	80	100
III	Information Processing Practice – I (Classification)	20	80	100
IV	Information Processing Practice – II (Cataloguing)	20	80	100
V	Information Consolidation and Repackaging	20	80	100
VI	Information Systems and Organisations	20	80	100
VII	Research Methodology and Statistical Techniques	20	80	100
VIII	Information Technology Applications: Theory	20	80	100
IX	Information Technology Applications: Practical	20	80	100
	<b>Grand Total</b>	<b>180</b>	<b>720</b>	<b>900</b>

**PAPER –I**

**KNOWLEDGE, INFORMATION AND SOCIETY**

**UNIT –I**

- Information : Nature, Properties and Scope
- Conceptual difference between Data, Information and Knowledge
- Information and Knowledge: Its attributes of Characteristics
- Information Service as a discipline and its relation with other subjects

**UNIT –II**

- Information Generation: Modes and forms
- Information Theory, Information Diffusion Process
- Knowledge generation Cycle : Knowledge generation to utilization
- Personal Knowledge and Public Knowledge , Knowledge and sources

**UNIT –III**

- Communication Process and Media
- Communication Channels and Models
- Communication of Information and Barriers to I.C.
- Trends in Scientific Communication

**UNIT –IV**

- Social implication of information
- Economic implication of information
- Changing role of Library and Information Centre in Modern Information Society

**UNIT –V**

- Information Policies: National Programmes and Policies
- National Information Policy (NIP)
- National Information Policy of Library and Information Science (NAPLIS)
- Organisation and Institution involved in the development of library and Information Services

**PAPER –II**  
**INFORMATION PROCESSING AND RETRIEVAL THEORY**

**UNIT –I**

Objectives, operations and design of information retrieval systems Capability of information retrieval system and its evaluation

**UNIT –II**

Information retrieval tools classification cataloguing, indexing, abstracting and online retrieval, UBC, Standardization activities of bibliographic description

**UNIT –III**

History and development of subject indexing, Pre-coordinate indexing, Post-coordinate indexing, Special type of indexing – citation indexing ; automatic indexing – PRECIS, POPSI, KWIC, KWOC, Cyclic indexing, Indexing languages Thesaurus, vocabulary control, Evaluation of indexing system

**UNIT –IV**

Uses and Techniques of abstracting, Abstracting services in different disciplines, Indexes in abstracting services

**UNIT –V**

Search Process; Search strategies and heuristics, Common command languages and multiple information retrieval process, Database searching

**PAPER –III**  
**INFORMATION PROCESSING PRACTICE – I (Classification)**

Classification by UDC (Abridge Rev. English Ed. 1961) Adequate Number of Titles from all Disciplines. Candidates will be required to Classify 20 Titles in all.

**PAPER –IV**  
**INFORMATION PROCESSING PRACTICE – II (Cataloguing)**

Cataloguing of Serials, Composite Books, Multi-Volumes Sets and Non-Book Materials (Microforms and Monographs) by AACR-2 (1978), Library of Congress List of Subject Heading will be followed for Subject Heading, Candidates will be required to Catalogue 5Titles in all.

**PAPER –V**  
**INFORMATION CONSOLIDATION AND REPACKAGING**

**UNIT –I: An overview of Information Analysis and Repackaging**

- Definition, Concepts, processes, techniques, trends in Information, analysis and Repackaging including electronic content creation, Contents analysis

**UNIT –II: Information Consolidation**

- Abstracting – need, purpose, definition, concepts types, guidelines and stapes in abstracting, Information Consolidation (Definitional Analysis)

**UNIT –III**

- Information Institutions: Evolution and Growth.
- Information Centres: Types and their Organisation
- Referral Centres: Need and function.
- Information consolidation activities, Methodology for information consolidation ( Pre – requisites and steps in the preparation of information consolidation products).

**UNIT –IV: Information Products**

Nature Concepts types and design of different information product such as Newsletter, House journal , Trade and Product Bulletins, Technical Digests, Trend Report etc. Marketing of Information Products

**UNIT –V: Information Analysis and Consolidation Centres**

Genesis, Types, Function and activities of information analysis and consolidation Centers. Planning and Management of information analysis and consolidation Centres (Policy formulations, management and resource needed)

**PAPER –VI**  
**INFORMATION SYSTEMS & ORGANISATION**

**UNIT –I: An overview of Information System**

Concept, meaning characteristics, objective types and constraints of information systems, Function and services of components of information system such as Libraries documentation centre. Referral centres, data centres data banks, clearing houses, National information System (Concept, components objectives, Requirements, Planning and designing)

**UNIT –II: Information Systems**

Information system in India (NISSAT, BITS, ENIVIS, INSDOC, DESIDOC, SENDOC, NCSI, NASSDOC, CORD, NAI)

**UNIT –III: Information Systems in USA**

Information Systems in USA (OCLC, ERIC, RLG, RLIN, NTIS ) information system in UK (Blaise line , JANET) information system in Russia (VINITI) other (INIS, AGRIS, APINESS, ASTINFO, INFOTERRA)

**UNIT –IV: Organizations Promoting Information Systems**

UN based International Organization (UNESCO, ILO, UNIDO, FAO, UNISIST, Organization promoting information systems in India (UGC, DST, DRDO, ICAR, ICSSR, CSIR, ICMR) Other international organization (OECD, ICSU, IDRC, IAEA)

**UNIT –V: Professional Organizations Promoting Information System**

Professional organizations at international level (FID, IFLA, ISKO) Professional organization at national level (ALA, SLA, ASLIB, ILA, IASLIC, SIS, ALSD)

**PAPER –VII**  
**RESEARCH METHODOLOGY AND STATISTICAL TECHNIQUES**

**UNIT –I: Research**

Concept, meaning, need and process of Research, Ethical aspect of research  
Types of research, Research design (Aims, Objectives, Scope, Types and  
Limitation), Hypothesis, Literature search (Print, Non-Print & electronic sources)

**UNIT –II: Research Methods, Tools and Techniques**

Research Methods (Scientific method, historical method, descriptive methods  
experimental method and Delphi method ), Research Techniques & Tools  
(Questionnaire, Schedule, Interview, Observation, scales and check lists, library  
records and reports, sampling techniques)

**UNIT –III: Data Analysis and Interpretation**

Descriptive statistics (Measures of central tendency mean median, mode).  
Tabulation and Generalization, Measures of dispersion, variance and covariance  
standard deviation, Graphical presentation of data – bar, pie, line graph,  
histograms, inferential statistic, test correlation , Regression linear & non linear,  
chi-square test, Sociometry, statistical package, SPSS Statistical Graphics etc.

**UNIT – IV: Bibliometrics Scientometrics & Informetrics**

Concept and definition, Bibliometric laws (Bradford, Zipfs Lotka )Bibliographic  
coupling, Citation analysis Webometrics, Citation Studies, informetrics,  
Scientometrics

**UNIT –V: Research Reporting**

Structure, Style, contents, guidelines for research reporting, etc. Style manuals:  
Chicago- MLA- APA etc. B- citation & methods of research & evaluation.

**PAPER – VIII**  
**INFORMATION TECHNOLOGY APPLICATION: THEORY**

**UNIT- I**

- Information Technology: overview
- Introduction to Computer Technology
- Overview of Communication Technology

**UNIT-II**

- Fundamentals of Tele-communication Technology: Media, Mode and Components
- Network Types and Topologies: LAN, MAN, WAN
- Bus, Star, Ring, Token Ring, etc.
- Transmission Media, Switching System

**UNIT-III**

- Library Automation: Needs, Purpose, Functions and basic requirements
- Automation in-house operation: Acquisition, cataloguing, circulation, serial control, budget management, OPAC
- Automation software packages: guidelines, evaluation and features

**UNIT-IV**

- Management of information services: Current Awareness Services (CAS), Selective Dissemination of Information (SDI), Print Indexes, Online Search Services, Document Delivery Services, CD-ROM Database
- Database: Concept and components, Database Management System (DBMS)

**UNIT-V**

- Resource Sharing through Networks
- Network and their classification: ERNET, NICNET, JANET, BLAISE Line, OCLC, INFLIBNET
- Internet and its Services
- Tele-conferencing, telex, videotext
- Searching on the Internet (WWW, subject directories, search engines, uses of Internet Access in Libraries)

**PAPER – IX**  
**INFORMATION TECHNOLOGY APPLICATION: PRACTICAL**

- HTML programming: Page Creation
- Library Automation Softwares: SOUL, Greenstone, Joomla, Drupal etc.