



SYLLABUS

2015-2016



PT. RAVISHANKAR SHUKLA UNIVERSITY
RAIPUR
CHHATTISGARH

PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR
Master of Library and Information Science
Scheme of Exam: 2015-16

FIRST SEMESTER

Total Credits - 20

Paper	Subject	Internal Marks	External Marks	Credits
MLI	FOUNDATION OF INFORMATION SCIENCE	20	80	4
MLII	KNOWLEDGE ORGANISATION & INFORMATION PROCESSING	20	80	4
MLIII	RESEARCH METHODS & STATISTICAL TECHNIQUES	20	80	4
MLIV	MANAGEMENT OF LIBRARY & INFORMATION CENTRES/INSTITUTION	20	80	4
MLV	INFORMATION PROCESSING AND RETRIEVAL (PRACTICE-I)	20	80	4
Total		100	400	20

SECOND SEMESTER

Total Credits - 20

Paper	Subject	Internal Marks	External Marks	Credits
ML VI	INFORMATION RETRIEVAL	20	80	4
ML VII	INFORMATION SOURCES, PRODUCTS AND SERVICES	20	80	4
ML VIII	INFORMATION TECHNOLOGY : BASICS & APPLICATIONS	20	80	4
ML IX_A	MANAGEMENT INFORMATION SYSTEMS.	20	80	4
ML X	INFORMATION PROCESSING & RETRIEVAL (PRACTICE – II)	20	80	4
Total		100	400	20
Total Marks of Semester I & II		200	800	40

Paper-I **FOUNDATION OF INFORMATION SCIENCE**

M.M 80 Pass Marks 36 %

UNIT-1 Information Science- 0.8 Credits

- Definition, Scope, Objectives, Genesis and development.
- Information Science as a discipline and its relationship with other subject fields.
- Information industry- Generators, Providers and intermediaries.

UNIT-2 Information and communication- 0.8 Credits

- Information: Characteristics, Nature and use of information.
- Conceptual difference between data,
- Information and Knowledge.
- Communication of Information.
- Information generation and diffusion.
- Communication channels and barriers.

UNIT-3 Information and the state- 0.8 Credits

- Policies relating to information including science and technology and education.
- International and national programs and policies (NAPLIC)
- IT and library.
- UAP, UBC
- Laws relating to information with special reference to India. Including press and registration act. Delivery of books (public Libraries) Act, Copyright Act.

UNIT-4 Information user & their needs- 0.8 Credits

- Categories of information users.
- Information needs: definition and models.
- Information seeking behavior.
- Methods and techniques of user studies.
- Evaluation of user studies.

Unit-5 Information products- 0.8 Credits

- Information products: Nature, concept, types, design and development and marketing.
- Economics of information.
- Information management.
- Knowledge management.

PAPER-II KNOWLEDGE ORGANISATION & INFORMATION PROCESSING

M.M. 80 Pass Marks 36%

UNIT-1 Universe of Knowledge- 0.8 Credits

- Structure and attributes.
- Modes of formation of subjects,
- Different types of subjects and their modes of formation
- Universe of Knowledge as mapped in different schemes of classification.

UNIT-2 Methods of knowledge organization- 0.8 Credits

- Canons and normative principles of sayers and Ranganathan of classification.
- Species of Library Classification schemes.
- Standard schemes of library classification; Introduction, features and application-CC, DDC, & UDC.

UNIT-3 0.8 Credits

- Universal and special schemes of classification.
- Abstract classification.
- Choice of schemes of classification.
- Study of categories postulated by different classificationists for grouping ideas.
- Postulates & Principles for facet sequence,
- Telescoping of facets.

UNIT-4 Notation- 0.8 Credits

- Notation: Types, Structure & qualities, canons of notation.
- Mnemonics- Types and canons
- Indicator digits.
- Zone analysis and sector notation.
- Canons for book classification.
- Systems of book number.

UNIT-5 Recent Trends & Developments- 0.8 Credits

- Design and development of a Scheme of library classification.
- Role of DRTC, CRG and FID.
- Contribution of International Conferences towards classification research.
- BSO: Salient features.

PAPER-III RESEARCH METHODS & STATISTICAL TECHNIQUES

M.M. 80 Pass Marks 36%

UNIT-1 Research- 0.8 Credits

- Research: Concept, Meaning, need and process of research.
- Types of Research- Fundamental and Applied.
- Research Design- Types of research design, Identification and formulation of problem, Hypotheses.

UNIT-2 Research methods- 0.8 Credits

- Research Methods- Scientific, Historical, Descriptive, Survey and case study methods, Experimental method and Delphi Method.
- Research techniques & Tools- Questionnaire, Schedule interview, Observation and sampling techniques.

UNIT-3 Data analysis and Interpretation- 0.8 Credits

- Descriptive Statistics- Measures of central tendencies- Mean, Median, Mode.
- Tabulation and generalization.
- Standard Deviation and Correlation.
- Testing of hypotheses.

UNIT-4 Bibliometrics, Informatics & Scientometrics- 0.8 Credits

- Bibliometrics, Informatics & Scientometrics: Concept definition and their scope
- Bibliometrics laws- Bradford, Zipf, Lotka.
- Content analysis,
- Sociometry.
- Citation studies- Citation-nature and definition, Citation-theory and analysis.
- Offset weight age formula of Sengupta.

UNIT-5 Research reporting- Designing research proposal- 0.8 Credits

- Structure, Style, Contents & Guidelines for Research reporting.
- Standards for citing bibliographical references (Like Chicago manual, MLA & Indian standards)
- Current trends in library and information science research.

PAPER-IV MANAGEMENT OF LIBRARY & INFORMATION CENTRES/INSTITUTION

M.M. 80 Pass Marks 36%

UNIT-1 Management 0.8 Credits

- Management styles and approaches.
- Management schools of thought.
- Functions and Principles of Scientific Management.
- Human Resource Management- Organization structure, Job analysis and description; Job evaluation, Motivation.

UNIT-2 Financial Management- 0.8 Credits

- Resource mobilization.
- Budgeting technique & methods: PPBS. Zero based budgeting etc. Budgetary control.
- Cost effectiveness and cost benefit analysis.
- Total Quality Management (TQM)- Definition, Concept & elements of TQM and quality audit.

UNIT-3 System Analysis and Design- 0.8 Credits

- System- definition, Concept and characteristics.
- Library as a system.
- Project management,
- PERT/CPM.
- Decision tables.
- DFD (Data Flow Diagram).
- Work study: Flow chart, Gantt chart, Block diagrams.

UNIT-4 Planning- 0.8 Credits

- Concept, Definition, Need, Purpose, Types, Policies and Procedures.
- MBO, MBE
- Strategic management- Definition objectives. Policies process & models of strategic management.
- SWOT analysis.

UNIT-5 Managing Change 0.8 Credits

- Concept of change: changes in procedures, method.
- Use of new tools and techniques;
- Techniques of managing change.
- Collection development and management- Policies and procedures.
- Time and motion study.

PAPER-V INFORMATION PROCESSING AND RETRIEVAL (PRACTICE-1) 4 Credits

M.M. 80 Pass Marks 36%

- Classification of titles/documents by Colon Classification (6th Rev. Ed.) and UDC (Medium Edition).

PAPER-VI
INFORMATION RETRIVAL

M.M. 80
Pass Marks 36%

UNIT-I Subject analysis and representation- 0.8 Credits

- Problems of subject analysis and representation.
- Contributions of cutter, Ranganathan, Farradane and Coates.
- Principles of subject cataloguing- Assigning subject-Headings using library of Congress subject headings and sears list of subject heading etc.

UNIT-II Indexing language and vocabulary control- 0.8 Credits

- Indexing languages- Types and characteristics.
- Vocabulary control- Tools of vocabulary control.
- Thesaurus- Structure and construction of an IR Thesaurus. Thesaurofacet.
- Trends in automatic indexing.
- Recall and Precision devices in indexing languages.

UNIT-III Indexing systems- 0.8 Credits

- Pre coordinate and post coordinate indexing system.
- Outline study of the following indexing systems.
- KWIC, KOWC.
- Chain Indexing, PRECIS, POPSI.
- Uniterm indexing, Citation indexing.
- Standards for Bibliographical Description: AACR-2, ISBD, MARC(Format), CCF

UNIT -IV Information Retrieval Systems- 0.8 Credits

- Definition, Types, Components and operational stages of IRS.
- Information Retrieval- Data Base, Information base and SQL, IR Models.
- Search Process- Principles & methods of searching.
- Search Techniques- Boolean searches On-line searching techniques and retrieval.

UNIT-V Information retrieval systems evaluation. 0.8 Credits

- Projects and parameters.
- Important test results- Cranfield, Medlars, Smart.
- Information retrieval through optical media and CD-ROM data base.
- IR through OPAC and Internet.

PAPER-VII
INFORMATION SOURCES, PRODUCTS AND SERVICES.

M.M. 80
Pass Marks 36%

UNIT-I Information sources- 0.8 Credits

- Documentary sources of information.
- Print, Non-print including Electronic Nature.
- Characteristics, Utility and evaluation of different types of information sources.
- Non Documentary Information sources; Human and institutional – Nature, Types, Characteristics and utility.
- Internet as a source of information.

UNIT-II Information services- 0.8 Credits

- Information services- Concepts, Definition need and trends.
- Techniques and evaluation of alerting services (CAS & SDI).
- Bibliographic, Referral.
- Document delivery and translation services.

UNIT-III Information Products- 0.8 Credits

- Information products- Nature, Concept, Types, Design and marketing Abstracting,
- Types and guidelines in preparing abstracts.
- Study and evaluation of important abstract periodicals information analysis, Repackaging and consolidation.

UNIT- IV User Educations- 0.8 Credits

- Goals and objectives, Levels, Technique and methods.
- Reference interview and search techniques.
- Resource sharing and library networking.
- Study of Indonet, Inlibnet, Calibnet, Nicnet, Delnet, Adinet, Malibnet.

UNIT-V 0.8 Credits

- International information system and network.
- AGRIS, BIOSIS, CAS, DEVSIS, ICSU, INIS, INSPEC, MEDLARS.

PAPER-VIII
INFORMATION TECHNOLOGY: BASICS & APPLICATIONS

M.M. 80
Pass Marks 36%

UNIT-II Information Technology- 0.8 Credits

- Definition, need, scope and objectives.
- Historical background of computers.
- Generation of computers.
- Architecture CPU, Input/output devices .
- Hardware and software.
- Operating system-Ms-windows, UNIX, MS-DOS.

UNIT-II Networking- 0.8 Credits

- Types of networks-LAN, WAN, MAN.
- Local Area Networks; LAN Topologies, Network Hardware- Network interface card, hubs/switches.
- Gateways/Bridges, routes, modem.
- Network Protocols- TCP/IP, Net-BUI, IPX.

UNIT-III Internet-Basic features and tools- 0.8 Credits

- Connectivity- Dialup, Leased lines, Microwave, ISDN.
- Digital Subscriber Lines (DSL).
- E-mail-Protocols- Telnet, FTP, DTTP. Web browsers, Web servers, Search Engines, Keta Search,
- Web design- SGML, HTML, DHTML and XML.

UNIT-IV Data Base Management System- 0.8 Credits

- Models- Hierarchical, Network, Relational and object oriented.
- Software- CDS/ISIS, SOUL.
- Structure Query Language. Artificial Intelligence.
- Digital libraries- definition, characteristics & attributes,
- Storage media formats- DVD.

UNIT-V Library Automation- 0.8 Credits

- Planning and implementation of library automation.
- Automation of in- house operations- Acquisitions, Cataloguing, Circulation, OPAC Bar-coding.

**PAPER- IX-A
MANAGEMENT INFORMATION SYSTEMS.**

**M.M. 80
Pass Marks 36%**

UNIT-I 0.8 Credits

- Definition, concepts, elements and objectives of M.I.S.
- Information and management effectiveness.
- Information needs and management levels,
- Features of MIS system approach to MIS.
- Properties of MIS.

UNIT-II 0.8 Credits

- Structure of MIS.
- MIS and decision making.
- Planning for MIS-Systems analysis; Systems design.
- Techniques of system analysis; Techniques for MIS planning.

UNIT-III Information Support System- 0.8 Credits

- Management reporting systems (MRS);
- Decision Support Systems (DSS);
- Office Automation Systems (OAS);
- Knowledge Based Systems.

UNIT IV Functional Informational Systems- 0.8 Credits

- Financial Information Systems; Marketing IS; & Human resource IS.
- Implementation, Evaluation & Maintenance of MIS.

UNIT V 0.8 Credits

- Role of Computer in MIS.
- Data Base Management.
- Data Base Software-Software needs selection and development.
- Data communication and networking.
- Using Information superhighways- Internet and Intranet.

**PAPER – X
INFORMATION PROCESSING & RETRIVAL (PRACTICE- II)**

**M.M. 80
Pass Marks 36%**

**4 Credits
(AACR-2)
Cataloguing of Publications by AACR-2**
