

M.J.P. ROHILKHAND UNIVERSITY, BAREILLY

COURSE STRUCTURE OF MASTER OF LIBRARY AND INFORMATION SCIENCE

The course shall consist of Seven (07) theory papers each of three hours duration and the Two (02) Practice/Practical/Viva-Voce Papers each of three hours duration. There will be Nine (09) papers in two (02) Semesters and all are compulsory and written papers. The nomenclature of each paper along with the allotment of marks is as follows:

SEMESTER - I

Paper No.	Paper Code	Nomenclature	Duration	MAX MARKS		
	I-IV			WRITTEN	INTERNAL	TOTAL
1	ML-101	INFORMATION, COMMUNICATION AND SOCIETY	3 Hours	70	30	100
2	ML-102	INFORMATION PROCESSING RETRIVAL	3 Hours	70	30	100
3	ML-103	RESEARCH METHODS AND STATISTICAL TECHNIQUES	3 Hours	70	30	100
4	ML-104	A. KNOWLEDGE ORGANIZATION AND PROCESSING (CLASSIFICATION PRACTICE BY UDC) B- KNOWLEDGE ORGANIZATION AND PROCESSING (CATALOGUING PRACTICE BY AACR-2)	3 Hours	70	30	100

SEMESTER - II

Paper No.	Paper Code	Nomenclature	Duration	MAX MARKS		
	V-IX			WRITTEN	INTERNAL	TOTAL
5	ML-105	INFORMATION SOURCES, SYSTEMS AND PROGRAMMES	3 Hours	70	30	100
6	ML-106	ACADEMIC LIBRARY SYSTEM	3 Hours	70	30	100
7	ML-107	INFORMATION INSTITUTIONS, PRODUCTS AND SERVICES	3 Hours	70	30	100
8	ML-108	INFORMATION TECHNOLOGY: APPLICATION	3 Hours	70	30	100
9	ML-109 or ML-110	PLANNING AND MANAGEMENT OF SPECIAL LIBRARY SYSTEM DESSERTATION (OPTIONAL)	3 Hours	70	30	100
				Dissertation 70 Viva voce 30		
10	ML-111	A- INFORMATION TECHNOLOGY: APPLICATION (PRACTICAL)	3 Hours	70	30	100

Syllabus for M.Lib. & I.Sc. Programme
M.J.P. ROHILKHAND UNIVERSITY, BAREILLY
Scheme of Master of Library and Information Science
(Syllabus M.Lib.I.Sc.)

Paper-I INFORMATION, COMMUNICATION AND SOCIETY

UNIT-1

- Information: Data .Information and knowledge.
- Conceptual Difference between Data, Information and Knowledge.
- Information and Knowledge: Its attributes or Characteristics.
- Information Services as a discipline and its relation with other subjects.

UNIT-2

- Information Generation: Modes and Forms.
- Information Theory, Information Diffusion Process.
- Knowledge Generation Cycle: Knowledge generation to utilization.
- Knowledge management, definition, concept, need basic tools.

UNIT-3

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

UNIT-4

- Intellectual Property Right Act.
- Concept of Freedom, Censorship, Data Security and Fair use.
- Changing role of Library and Information Centers in Modern Information Society.

UNIT-5

- Information Industry, Generators, Providers and Intermediaries
- Information as an asset and Resource, System and Services.
- National Information Policy of Library and Information Science (NAPLIS).
- Organizations and Institution involved in the development of Library and Information Services.

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UNIT-1

- Repackaging and Consolidation: Concept and Procedure.
- Procedure of Repackaging: Content analysis, formatting, Consolidation.

UNIT-2

- Abstract and Abstracting: Concept, Types, Procedure of Abstracting. Guidelines in Preparing Abstracts.
- Study of few internationally recognized Abstracting indexing Services in print and electronic form- BIOSIS, CAS, PUB-MED, Science Citation Index (SCI).

UNIT-3

- Index and Indexing: Concept and Types. Co-ordinate Indexing System: Pre Coordinate (KWIC, KWAC, KWOC) and Post Coordinate
- Citation Indexing, Chain Indexing
- Indexing Language: Types and Characteristics.

UNIT-4

- Vocabulary Control: Tools of Vocabulary Control.
- Features of Construction of Thesaurus.

UNIT-5

- Information Retrieval System: Concept and Types. Features and Elements of IR. Trends in IR.
- Evaluation of IR Systems.
- Search Strategies: Manual/Machine, Feedback and Refining

Paper-III RESEARCH METHODS AND STATISTICAL TECHNIQUES

UNIT-1

- Research Concept, Need and Process.
- Type of Research: Fundamental, Applied, Interdisciplinary.
- Elements of Research Methods.
- Identification and Formulation of Problems.
- Hypothesis Data Collection.
- Literature search Print and Electronic Sources.

UNIT-2

- Research Methods: Scientific, Historical, Descriptive, Survey and Case Study.
- Experimental and Sampling Methods of Research.

UNIT-3

- Research Techniques and Tool: Questionnaires, Schedule, Interview, Observation Library Records, and Sampling Techniques.
- Data Analysis and Interpretation: Concept and Use.

UNIT-4

- Bibliometrics: Concept and Definition.
- Bibliometric Laws.
- Info metrics.
- Statistical Methods in Library and Information Science and Services.
- Descriptive Statistics, Inferential System and Graphics & Presentation of Data: Bar, Pi-Line Graphs Histograms.

UNIT-5

- Research Reporting: Structure, Style Contents, Guidelines.
- Current Trends in Library and Information Science and Research.

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**Paper-IV A-KNOWLEDGE ORGANIZATION AND PROCESSING
(CLASSIFICATION)**

PRACTICE BY UDC)

Classification by UDC (Abridged Rev. English Ed. 1961). Adequate numbers of titles from all Disciplines. Candidates will be required to Classify 10 (Ten) Titles in all.

**B-KNOWLEDGE ORGANIZATION AND PROCESSING
(CATALOGUING)**

PRACTICE BY AACR-2)

Cataloguing of Non Book Materials (Cartographic, Sound recording, Video recording, Microforms and Monographs etc.) by AACR-2 (1978). Candidates will be required to Catalogue 3 (Three) Titles in all.

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Paper-V INFORMATION SOURCES, SYSTEMS AND PROGRAMMES

UNIT-1

- Information Sources: Primary, Secondary and Tertiary.
- Physical Medium of Information: Print Media, Microform, Electronic and Optical Media.
- Documentary, Multimedia (Hypermedia) and Hypertext.

UNIT-2

- Information Sources System and Programmes in: Natural Science, Humanities and Social Science, Science and Technology.

UNIT-3

- Non-Documentary Sources:
Human Resources- Library and Information Personnel
Information Intermediaries.
Database Designers etc.

UNIT-4

- Institutional Sources.
- Mass Media.
- Non-Disciplinary Source and Documents.
- Organization of Information Source and Programmes.

UNIT-5

- International Organization
- Information Sources for Users.
- Content Analysis and its Correlation to users.
- Customization of Information.
- Citation analysis and cito-analysis products.
- Aids to Information Sources.

Paper-VI ACADEMIC LIBRARY SYSTEM

UNIT-1

- Academic Library: Role, Objectives and Function.
- Reports of Various Committees and Commissions with regard to Academic Libraries.
- Role of UGC and Other agencies in promoting College and University Library.

UNIT-2

- Role of Library Authorities in promoting Library Resources.
- Development of Library Services.
- Financial Management of Academic Libraries.

UNIT-3

- Collection Development: Policy and Procedures.
- Collection Development Programme, Allocation of Funds.
- Stock Verification and Rectification, Weeding Policy.
- Library Committees: Its role in Collection development.

UNIT-4

- Personnel Management of Academic Libraries.
- Norms and Patterns for Staffing.
- Management Planning, HRD Quality Improvements Programme.
- UGC Service Conditions and Pay scales.
- Status of the Professionals.

UNIT-5

- Continuing Education Programmes for Academic Library development.
- Resources Sharing: Objectives and Functions.
- INFLIBNET and its Implication to Library Resources Sharing.
- Regional and City Networks of Libraries and their Importance.
- Role of Internet in promoting of Academic Library Services.

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Paper-VII INFORMATION INSTITUTIONS, PRODUCTS AND SERVICES

UNIT-1

- Information Institute: Evolution and Growth.
- Information Centers: Types and their Organization.
- Data Centre, Basic concept, types and levels.
- Referral Centers: Need and Function.

UNIT-2

- Information Product: Nature, Types, Design and development and Marketing.
- Information analysis and Consolidation Centers: Meaning, Scope, Activities and products.
- Management & ICA Centers.
- Literature Searches and Bibliography.

UNIT-3

- Technical Enquiry Service: Purpose, Scope.
- Document Delivery Service: Need, Characteristics, Types and Supply.
- Electronic Document Delivery System.
- Translation Service.

UNIT-4

- Information Product: Information News-Letter, House Bulletin, In-House Communication.
- Trade and Product Bulletin.
- Consolidation Product: Reviews, State of Arts Report and Trends Report.
- Technical digests: Need, Categories, Planning and Designing.

UNIT-5

- Database Support Services: Database Types and use.
- Database Intermediaries such as Searchers, Editors etc.
- Online Information System and Information Networks.
- International Standard for Database Design and Development.

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Paper-VIII INFORMATION TECHNOLOGY: APPLICATION

UNIT-1

- Information Technology: Overviews.
- Information Technology and Libraries
- Overview of Information Communication Technology.

UNIT-2

- Fundamentals of Tele-Communication Technology, Media, Mode and Components.
- Networks Types: LAN, MAN, WAN their application in Library Networks.
- Network Topologies: Bus, Star, Ring, Token Ring etc.

UNIT-3

- Automation Software Packages: Guideline, Evolution and Features.
- Criteria for Selection of application Software.
- Software Packages: KOHA, Alice for windows, SOUL, Green Stone

UNIT-4

- Digital Libraries: Definition, Objective, Scope.
- Human Computer Interface.
- Multimedia, Elements and its Application to libraries
- Data warehousing, Data Mining, Meta Data, Dublin Core, Digital Object Identifier.

UNIT-5

- Artificial Intelligence and Expert Systems: Concepts, Features.
- Online Searching of MEDLINE, DIALOG, and OCLC.
- Literature Publishing: Electronic bulletins, e-journals, institutional repositories.
- Concept of subject gateways, Tele-conferencing.

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Paper-IX PLANNING AND MANAGEMENT OF SPECIAL LIBRARY SYSTEM

Unit-1

Definition, objectives, distinguishing features and scope of Special Libraries: Industrial, Business, Government, Research Institute, Newspaper, Differently abled

Unit-2

Development of Special Libraries in India, organizational pattern: Centralized vs Decentralized. Library personnel: staff pattern, selection and recruitment.

Unit-3

Modern special library building: planning, basic elements in the design of building, furniture and fittings.

Unit-4

Library governance: authority, committee and role of librarian. Inter-library cooperation and resource sharing, budgeting of special library, electronic journal consortia: (INDEST, FORSA, CSIR, E- Shodh Sindhu, INDEST, N-LIST)

Unit-5

Study of some representative special libraries in India: Indira Gandhi National Centre of Arts, New Delhi (IGNCA), National Institute for the visually handicapped Dehradun, Khuda Baksh Oriental Public Library, Patna

Or

DISSERTATION & COMPREHANSIVE VIVA-VOCE (OPTIONAL)

The candidates will be expected to work for dissertation on any current topic assigned to them. The work for dissertation will commence from semester-1. The dissertation will have a minimum 100 printed pages. The dissertation shall be evaluated by external as well internal examiners.

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Paper-X

INFORMATION TECHNOLOGY: APPLICATION (PRACTICAL)

(a) Training and Hand on experience followed by Test in following areas:
Bibliographical Data base Management with Special reference to practical of: LIBSYS
Library Automation Practical with Special Reference to SOUL package of
INFLIBNET. CD-ROM Search. Introduction to MS Office. Operating Systems
(Windows, UNIX)

(b) Database Creation using Software Packages Libsys, SOUL and KOHA. (any
two).

(i) Bar code generations, Membership cards.

(ii) C.D. Rom and online surfing.

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