



**SAVITRIBAI PHULE PUNE UNIVERSITY
TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE
AND COMMERECE, BARAMATI
(AUTONOMOUS)**

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

REVISED SYLLABUS

Choice Based Credits Systems (CBCS) Semester Pattern

Master of Library and Information Science

(SEMESTER I and II)

With Effect from: June, 2022 -2023

Anekant Education Society's
**Tuljaram Chaturchand College of Arts, Science and
 Commerce, Baramati**
 AUTONOMOUS

Course Structure for M.Lib.I.Sc.

Semester	Paper code	Title of Paper	No of Credits
I	PMLIS 111	Information, Communication & Society	4
	PMLIS 112	Introduction to Research Methodology	4
	PMLIS 113	Information Retrieval	4
	PMLIS 114	Management of Libraries & Information Centers -A	4
	PMLIS 115	Information Technology: (Theory)	4
		Certificate Course	2
		Sem -I Total Credits	20
II	PMLIS 121	Management of Libraries & Information Centers -B	4
	PMLIS 122	Statistical Techniques of Research Bibliometrics	4
	PMLIS 123	Bibliographic Control & Information Systems	4
Annual	PMLIS 124	Project	4
	PMLIS 125	Information Technology Applications : Practical	4
		Certificate Course	2
		Sem - II Credits	20
		Total Credits	40

SYLLABUS CBCS FOR M.Lib.I.Sc. (w. e. From June, 2022)
Academic Year 2022-2023
Semester – I

Paper Code: PMLIS 111 **Title of Paper :** Information, Communication and Society

A) Learning Objectives:

- 1 .To introduce to the students the concept of Information & its Communication in Knowledge Society.
2. To familiarize the students with professionalism & LIS Education
3. To introduce students with the concept of Economics of Information and Information Industry & Knowledge Management.

B) Learning Outcomes:

1. Can manage information resources and the information life-cycle through the processes of collection development, organization, preservation, conservation, access, and dissemination in accordance with physical, virtual, and technical infrastructure and needs
2. Understand purpose, role and importance of libraries in society.
3. Understand Library and Information Science as a Discipline.

TOPICS / CONTENTS:

Total No Of Credits = 04	
UNIT 1	<p>Information , Communication & Knowledge Society (15L)</p> <p>1.1 Information: Characteristics & Properties of Information, Use of Information in R & D, Business and Industry, Planning & Policy making, Management and Decision Making</p> <p>1.2 Information & its communication: formal and Informal communication, models of communication, Scholarly communication process, scientific communication, barriers of communication.</p> <p>1.3 Knowledge Society and the Library : Knowledge Society: Genesis, Characteristics and Implication & Changing Role of LIC & professionals in Knowledge Society.</p>
UNIT2	<p>Library and Information Science Education & Professionalism (15L)</p> <p>2.1 Library and Information Science Education: definition of professional education, components of professional education, LIS as a discipline, levels & curriculum of LIS Education in India, methods of teaching and evaluation in LIS Education, Accreditation of LIS Education in India.</p> <p>2.2 Professionalism: definition of profession & its characteristics, definition of Librarianship & changing role of library profession, role of professional associations in promoting librarianship, professional ethics (definition, concept, need & purpose)</p>
UNIT 3	<p>Information and Knowledge Management (15L)</p> <p>3.1 Information Management : concept & methods</p> <p>3.2 Knowledge Management : definition, objectives, methods & tools</p>
UNIT 4	<p>Economics of Information (15L)</p> <p>4.1 Concept, and Substance of Economics, Economics of information</p> <p>4.2 Economic Characteristics of Information as a commodity</p> <p>4.3 Information & Knowledge Industry -definition & kinds of knowledge industry (to be listed only) Information Industry Components: Generators, providers & intermediaries of Information.</p>

A) Learning Objective:

1. To introduce application of Research Methodology in LIS and inculcate research skills among the Students.
2. To familiarize the students with various research methods
3. To give exposure to current trends of Research in LIS.

B) Learning Outcomes:

1. Students will be able to learning the library and information science research
2. How to prepare research project synopsis
3. To learn skills in Google scholars.

TOPICS/CONTENTS:

Total No. Of Credits = 04	
UNIT 1	<p>Research (15L)</p> <p>1.1 Research: Meaning, definition, Need and Process of Research 1.2 Types of Research: Pure, Applied and Action Research 1.3 Spiral of Scientific Method 1.4 Ethical aspect of Research, Literature Search.</p>
UNIT 2	<p>Research Design (15L)</p> <p>2.1 Research Design: Definition, Steps in Research Design 2.2 Synopsis: Concept and essential Components 2.3 Identification and formulation of Problem 2.4 Hypothesis: Meaning, Definitions, Types</p>
UNIT 3	<p>Research Methods (16L)</p> <p>3.1 Research Methods : Historical Method, Descriptive Method, Experimental Method, Case Study Method, Future Research Method. 3.2 Content analysis: Concept, Definition, Need. Introduction to Metrics Studies : Webometrics, Librametrics, Scientometrics Informatics, Altmetric.</p>
UNIT 4	<p>Research Databases (14L)</p> <p>4.1 Web of Science, Scopus, emerald, Springer. 4.2 Google Scholars 4.3 Science Citation Index</p>

A) Learning Objectives:

1. To understand use of indexing techniques, vocabulary control & search strategies for Information Storage & Retrieval.
2. To familiarize students with Information retrieval models and develop skills in designing thesaurus.
3. To introduce Consolidation & Repackaging of Information into Information Products.

B) Learning Outcomes:

1. Students will be able to construct a keyword search statement in order to find relevant information
2. Understand the concept of ISR including indexing languages, vocabulary control, search strategies etc.
3. To make them understand the concept , types, design and development of information products.

TOPICS/CONTENTS

Total No Of Credits = 04	
UNIT 1	<p>Information Storage and Retrieval (16L)</p> <p>1.1 definition, purpose, components and types of information retrieval system</p> <p>1.2 Role of Indexing in Information Retrieval Types of Indexing- pre-coordinate (Chain indexing, POPSI, PRECIS, SLIC), Post coordinate (UNITERM) and Automatic Indexing (KWIC, KWAC, KWOC)</p> <p>1.3 Indexing languages and vocabulary control: definition, purpose & tools Thesaurus Structure , thesaurus relationships & construction</p>
UNIT 2	<p>Retrieval of Information (15L)</p> <p>2.1 Models for information retrieval: Input- Output Models and Theoretical Models.</p> <p>2.2 Information search and search strategy : type of search- keyword search, Phrase search, keyword and subject search, truncation search, range search , Boolean logic and Venn Diagram.</p> <p>2.3 Searching the web</p>
UNIT 3	<p>Evaluation of Information Storage and retrieval system. (12L)</p> <p>3.1 Evaluation- need, types and criteria with example e.g. Canfield Study and MEDLARS Test.</p> <p>3.2 Current Trends in Information Retrieval: searching the web, open access repository and its creation, Portal- vortal, Data mining.</p>
UNIT 4	<p>Information Repackaging and Products. (17L)</p> <p>4.1 Information analysis, repackaging and consolidation: Concept, definition, packaging and repackaging. Information consolidation activities, need, steps in information consolidation and repackaging process and advantages.</p> <p>4.2 Information Products: concept , types, design and development of information products.</p> <p>4.3 Marketing of information products and services: concept, need, market research, price, marketing mix: Seven P's, Kotler's Four C's , factors influencing the market.</p>

Paper Code: PMLIS 114 **Title of Paper :** Management of Libraries and Information Centres – A

A) Learning Objectives:

1. To study the functions of management & their application to librarianship.
2. To familiarize students with the concept HRD, planning and systems of financial management and control.
3. To introduce the students budgeting & its methods.

B) Learning Outcomes:

1. The students are able to identify & describe the characteristic of library management Systems.
2. The intention of this paper is to prepare students to manage the library
3. To train the students prepare library budget.

TOPICS/CONTENTS

Total No. of Credits = 04	
UNIT 1	<p>Management (15L)</p> <p>1.1 Concept, Definitions, Functions and Scope</p> <p>1.2 Styles, Approaches</p> <p>1.3 Schools of Management Thoughts</p> <p>1.4 Concept of Scientific Management</p>
UNIT 2	<p>Planning (14L)</p> <p>2.1 Planning : Meaning, Definition, Need</p> <p>2.2 Types of Planning, Steps</p> <p>2.3 Policies & Procedures, MBO, Decision Making</p> <p>2.4 Building and Space management in LICs, Risk & Contingency Management</p>
UNIT 3	<p>Human Resource Management (16L)</p> <p>3.1 Human Resource Management : Concept, Definition, Job analysis, Job description</p> <p>3.2 Organization Structures of the Library</p>
UNIT 4	<p>Financial Management (15L)</p> <p>4.1 Budgeting : Concept Definitions, Techniques & Methods : PPBS, ZBB</p> <p>4.2 Budgetary Control Systems: Cost-Effectiveness & Cost- Benefit Analysis</p> <p>4.3 Outsourcing: Concept, Need, Benefits, Limitations, Library services to be outsourced</p>

Paper Code : PMLIS 115

**Title of Paper : Information Technology: Basics
(Theory)**

A) Learning Objectives:

1. To introduce the concept & use of ICT and its application in Libraries and Information Centers.
2. Development of skills in planning and implementation of library automation
3. Study of digital library, use of e-documents & current trends in the use of ICT

B) Learning Outcomes:

1. Will be trained in Information Communication Technologies knowledge and Library automation Skills.
2. Students will be able to choose appropriate database in order to search for scholarly articles on Their topics
3. The use of communication and networking technologies.

TOPICS/CONTENTS:

Total No Of Credits = 04	
UNIT 1	Information & Communication Technology: Basics & Library Automation and Library Software (14L) 1.1 Information & Communication Technology : Basics of Communication Technology, Components, Transmission Media ,Transmission Mode , Bandwidth
UNIT 2	Networks & Internet (16L) 2.1 Networks : Definition, media ,Switching techniques , networks architecture,OSI model 2.2 Internet : Brief History, Components ,Connectivity , Internet Protocols, browsers & Search Engines : Concept, Types, examples, network based information services, Internet Security ,Intranet, Extranet
UNIT 3	Digital Library & Electronic Documents (17L) 3.1 Digital Library: genesis, definition, characteristics, objectives ,digitization devices, Software. 3.1.1 Data Warehousing & data mining : concept, application in libraries 3.1.2 Metadata - Brief history, Standards : Dublin Core 3.1.3 Virtual Library : Concept, Hybrid library, Electronic library 3.1.4 DOAJ :Concept Institutional repository - concept 3.1.5 Content Management : concept 3.2 Electronic Documents ,Multimedia - concept 3.3 Databases : Definition, Types 3.4 Databanks : Concept , Evaluation criteria, e.g.
UNIT 4	Current Trends in ICT (13L) 4.1 Blogs, Wi-Fi, RFID, Subject Gateways, Portals, RSS Feeds, Twitter, Face book, Web 2.0, Web 3.0, Biometric Technology for Library Security, Open Source Software, Folksonomy, Forums , Mobile based library services

M.Lib.I.Sc. - SEMESTER II

Paper Code: PMLIS 121 **Title of Paper :** Management of Libraries and Information Centers - B

A) Learning Objectives:

1. To familiarize students with the concept of System Analysis, Management of Change TQM & Marketing of LIS services
2. To introduce student with the concept history ,styles & school of management thoughts.
3. To introduce the concept of Re-engineering .

B) Learning Outcomes:

1. The students will be understand a theory of TQM, Management of Libraries And Information Centers.
2. To develop skills in Marketing of Library.
3. To understand students with the concept change management and marketing of library and information services.

TOPICS/CONTENTS:

Total No Of Credits = 04	
UNIT 1	System Analysis & Design (15L) 1.1 Library as a system, System analysis & Design 1.2 Monitoring & Control techniques: Management Information System, Network Techniques- PERT/CPM, DELPHI. 1.3 Performance Measurement & Evaluation Technique 1.3.1 Performance Measurement : Concept, Need, Reengineering, Time & Motion Study 1.3.2 Performance Evaluation of libraries : Meaning, objectives, stages, areas, method, evaluation of library performance, SWOT analysis, DFD (Data Flow Diagram)
UNIT 2	Total Quality Management (15L) 2.1 Total Quality Management: Concept, objectives, elements 2.2 Techniques and quality audit 2.3 TQM for LICs
UNIT 3	Change Management (14L) 3.1 Change Management : Concept, forces of change 3.2 Changes in procedure, types, steps, techniques, problems, 3.3 Change Management in LICs Re-engineering- concept, steps, sources, Re-engineering in libraries
UNIT 4	Marketing of Library & Information Services (16L) 4.1 Marketing of Library & Information Services: Concept, need, market analysis 4.2 Market Segmentation : Methods of Segmentation: Geographical segmentation, Psychographic segmentation, Behavioral segmentation, Demographic Segmentations 4.3 Marketing of library products & services, promotion techniques including electronic media

Paper Code: PMLIS 122 Title of Paper : Statistical Techniques of Research & Bibliometrics

A) Learning Objectives:

1. To understand the use of various data collection tools & statistical techniques for research.
2. To introduce the concept of Bibliometrics.
3. To familiarize the art and style of writing a research report.

B) Learning Outcomes:

1. Can perform and access research based practices through the application of Information literacy, inquiry, and research methods including data discovery analytics and Qualitative measures.
2. To Students learning to data analysis process.
3. How to used style manual in Research project.

TOPICS/CONTENTS

Total No Of Credits = 04	
UNIT 1	Research Tools and Techniques. (15L) 1.1 Questionnaire, Interview, Observation, Scales and Check lists, 1.2 Sampling Techniques: Meaning, Definition, Types (Probability & Non- probability)
UNIT 2	Data Analysis and Interpretation (15L) 2.1 Preliminary Analysis : Data editing, Classification, Tabulation, Graphical Presentation 2.2 Statistical Analysis : Descriptive Statistics : Measures of Central Tendency, Dispersion-Range, Variance, Standard Deviation, Correlation Inferential Statistics : Regression- Linear & Non-Linear, Z-T Test, Chi-Square Test Statistical Packages- SPSS
UNIT 3	Laws of Bibliometrics (15L) 3.1 Bradford’s Law: Concept ,formula& Application 3.2 Lotkas Law : Concept , formula & Application 3.3 Ziff Law : Concept ,formula & Application
UNIT 4	Style Manual (15L) 4.1 Style Manual : Chicago, MLA, APA 4.2 Current Trends In LIS Research.

A) Learning Objectives:

1. To familiarize students with the meaning and tools for Bibliographical Control of Information.
2. To provide knowledge about the information systems and understand the Rationale behind Internationalization in information systems.
3. To introduce the students UBC & its historical background .

. B) Learning Outcomes:

1. The students will be able to identify the concept of Bibliographic Control and Information Systems
2. To know about scope of Information Systems.
3. To develop new skills for design of Information Systems.

TOPICS/CONTENTS

Total No Of Credits = 04	
UNIT 1	<p>Bibliographic control. (15L)</p> <p>1.1 Concept, definition, aim, need</p> <p>1.2 UBC : Concept and Definition, Needs and prerequisite to UBC at National and International level.</p> <p>1.3 UAP : Historical background and IFLA’s Role, Objectives and scope , Inter Library Loan, International Agreement on Book exchange.</p>
UNIT 2	<p>Bibliographic organization in India (15L)</p> <p>2.1 Government initiative: Delivery of book act, National Library- INB, RRRLF, (ISBN).</p> <p>2.2 Bibliographic services in India</p> <p>2.3 Library Networks and Consortia : Definition, Need, Objectives, use, Activities services & examples (national & international)</p> <p>2.4 Information and Documentation Centre in India: Role, Objective, scope, services & products : NISCAIR, NASSDOC, DESIDOC, SENDOC, DSIR, NCSI , IASLIC.</p>
UNIT 3	<p>Information policy (15L)</p> <p>3.1 Information policy : Meaning, Need ,importance, process of formulation, guidelines</p> <p>3.2 International Policy Issues : UNESCO, IFLA, FID, ICSU/AB</p> <p>3.3 Indian Initiatives: National Information Policy 1986, Right to Information Act, National Knowledge Commission 2008.</p> <p>3.4 Intellectual Property Rights, Copyright Act, Information Technology act Plagiarism</p>
UNIT 4	<p>Information Systems . (15L)</p> <p>4.1 Definition, Objectives, Need, importance and types</p> <p>4.2 UNISIST (Global Information system) : rationale, objectives, impact of UNISIST</p> <p>4.3 NISSAT : History, Structure, Objectives, Activities, of NISSAT, Sect oral Centers: their field, scope and contribution.</p> <p>4.4 International Information Systems :Subject scope, input-output processing, services & Products e.g. INIS, AGRIS, IFIS, ASFIS, TITUS, DEVSIS, ASTINFO, BIOSIS, INSPEC, VINITI, INFOTERA, POPIN International etc. Commercial / Private Information systems : CAS, MEDLARS</p>

Paper Code : PMLIS 124

Title of Paper : Project Report

Learning Objective:

1. To develop skills using research methods, techniques and tools
2. To develop skills data analysis and interpretation process.
3. To introduce the students with various research methods.

Learning Outcome:

1. To make students acquainted with research process.
2. The students understanding the research databases.
3. How to writing research proposal

TOPICS/CONTENTS

	Total No Of Credits = 04
	The Project report shall be on an approved topic pertaining to Library and Information Science. Each student shall work under the supervision and guidance of a teacher for his / her Project report.

Paper Code: PMLIS 125

Title of Paper : Information Technology Applications
(Practical)

A) Learning Objectives

1. To provide students with hands-on-experience in the use of Library Software, CD and Internet Search.
4. To develop skills in web page designing.
5. To Introduce concept such as web search ,forms of electronic document

B) Learning Outcomes:

1. The students will be able to learning library software, CD search Webpage designing.
2. Learn the configuration and installation of important software.
3. Skillful search and access online resources.

TOPICS/CONTENTS

Total No Of Credits = 04	
UNIT 1	Using Library Software E-granthalya or any locally available library software. Creation & maintenance of bibliographic database of minimum 50 documents using E-granthalya or any locally available library software
UNIT 2	CD search :Study of minimum 5 CDs (text, graphic) Digitization of documents (scanning, OCR etc.)
UNIT 3	Web Search : Searching information on two subjects using various search Strategies-Basic, Advanced, truncation, wild card, pearl citation, Google Scholar, N-list etc.Content management software
UNIT 4	Web Page Designing Open a Page, Create a New Page, and Give Pages a Consistent Look (eg.-themes), Add Page Elements (eg. Page Banner), Create Hyperlinks

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