



Anekant Education Society's  
**Tuljaram Chaturchand College, Baramati**  
(Autonomous)

**One Year Degree Program in Library Science**

**(Faculty of Library and Information Science)**

**CBCS Syllabus**

**M.Lib.I.Sc. Semester –II**

**For Department of Library and Information Science  
Tuljaram Chaturchand College, Baramati**

**Choice Based Credit System Syllabus (2023 Pattern)  
(As Per NEP 2020)**

**To be implemented from Academic Year 2023-2024**

## **Title of the Programme : M.Lib.I.Sc.**

### **Preamble :**

AES's Tuljaram Chaturchand College has decided to change the syllabus of various faculties from June, 2023 by taking into consideration the guidelines and provisions given in the National Education Policy (NEP), 2020. The NEP envisions making education more holistic and effective and to lay emphasis on the integration of general (academic) education, vocational education and experiential learning. The NEP introduces holistic and multidisciplinary education that would help to develop intellectual, scientific, social, physical, emotional, ethical and moral capacities of the students. The NEP 2020 envisages flexible curricular structures and learning based outcomes for the development of the students. The credit structure and the courses framework provided in the NEP are nationally accepted and internationally comparable.

Field of library science is developing very fast have great impact of information technology. LIS professionals are not now limited only with the traditional library services, but they have to keep themselves abreast with the current developments in their field. The job of LIS professionals is now blended with IT professionals. To cope with the new challenges in the field, LIS professionals should perform with library skills, Board of Studies Library and Information Science of Tuljaram Chaturchand College, Baramati - Pune has prepared the syllabus of M.Lib.I.Sc. Semester - I under the Choice Based Credit System (CBCS) by following the guidelines of NEP 2020, NCRF, NHEQF, Prof. R.D. Kulkarni's Report, GR of Gov. of Maharashtra dated 20th April and 16th May 2023 and Circular of SPPU, Pune dated 31st May 2023.

Librarianship as a profession provides a variety of employment opportunities. In Fact, it is possible to choose the kind of library to suit one's interest and background. Persons with a superior record high qualification can achieve high position. The salaries in college, university libraries are comparable to those of teachers.

## Programme Specific Outcomes (POs)

On completing Master of Library and Information Science Programme, students shall be able to realize following outcomes:

### **PO1 Research-Related Skills and Scientific temper:**

Infer scientific literature, build a sense of enquiry and be able to formulate, test, analyse, interpret and establish hypothesis and research questions; and to identify and consult relevant sources to find answers. Able to plan and write a research paper/project while emphasizing on academics and research ethics, scientific conduct and creating awareness about intellectual property rights and issues of plagiarism.

### **PO2 Effective Citizenship and Ethics:**

Demonstrate empathetic social concern and equity centred national development and act with an informed awareness of moral and ethical issues and commit to professional ethics and responsibility

### **PO3 Social competence and communication skills:**

Demonstrate ability to accommodate the views of others and present their own opinions and complex ideas, in written or oral form, in a clear and concise manner in group settings. Exhibit thoughts and ideas effectively in writing and orally; communicate with others using appropriate media, build effective interactive and presenting skills to meet global competencies. Elicit views of others, present complex information in a clear and concise and help reach conclusion in group settings.

**PO4 Disciplinary Knowledge:** Demonstrate comprehensive knowledge and a strong theoretical grounding in their area of work.

### **PO5 Personal and professional competence:**

Perform independently and also collaboratively as a part of a team to meet defined objectives and carry out work across interdisciplinary fields. Execute interpersonal relationships, self-motivation and adaptability skills and commit to professional ethics.

### **PO6 Self-directed and Life-long learning:**

Demonstrate attitudes of being a life-long learner who passionately pursues self determined goals in the broadest context of socio-technological changes. Acquire the ability to engage in independent and life-long learning in the broadest context of socio technological changes.

### **PO7 Environment and Sustainability:**

Understand the impact of the scientific solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.

### **PO8 Critical Thinking and Problem solving:**

Identify problems by closely examining the situations around them and think holistically about the phenomena and generate viable solutions to these problems. Exhibit the skill of critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in terms of generic conventions. Identify the problem by observing the situation closely, take actions and apply lateral thinking and analytical skills to design the solutions.

Anekant Education Society's  
**Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati.**  
(Autonomous)

**Board of Studies in Library and Information Science**

**(From 2022-2023 to 2023-2024)**

<b>Sr. No.</b>	<b>Name of Member</b>	<b>Designation</b>
1.	Mr. D.V. Munguskar	Chairman
2.	Mr. A.S. Atole	Internal Member
3.	Dr. Sadanand Bansode	External Member Voice - Chancellor Nominee.
4.	Mr. Narendra Patil	External Member Other University
5.	Dr. K.P. Kumbhar	External Member Other University
6.	Mr. Anant Wagh	Industrial Member
7.	Mrs. Vidhya Jagtap-Pingale	Meritorious Alumni
8.	Mr. Jadhav Yogesh Jalindar	Students Representative

## Credit Distribution Structure for One Year P.G. (M.Lib.I.Sc)

Year (1Year PG)	Level	Sem.	Major		Research Methodology (RM)	OJT/ FP	RP	Cum. Cr.	
			Mandatory	Electives					
I	6.0	Sem-I	LIS -501-MJM: Information Communication (Credit 04) Society	LIS -511- MJE: Academic Library System ( Credit 04)	LIS -521-RM: Introduction to Research Methodology (Credit 04)	---	---	22	
			LIS -502-MJM: Management of Libraries & (Credit 04) Information Centers – A						
			LIS -503- MJM :Information Technology Application: (Credit 04) (Practical)						
			LIS -504- MJM :Information Retrieval (Credit 02)						
		Sem- II	LIS -551- MJM : Management of Libraries & (Credit 04) Information Centres -B	LIS -561- MJE Information Technology : Theory (Credit 04)	--	LIS -581- FP : Project Work (Credit 04)			22
			LIS -552- MJM : Statistical Techniques of Research (Credit 04) Bibliometrics						
			LIS -553- MJM: Information Communication (Credit 04) Technology : Practical						
			LIS -554- MJM : Bibliographic Control (Credit 02) & Information Systems						
<b>Cum. Cr. For PG Diploma</b>			<b>28</b>	<b>08</b>	<b>04</b>	<b>04</b>	<b>--</b>	<b>44</b>	

**Abbreviations:** (1) OJT: On Job Training: Internship/Apprenticeship; (2) FP: Field Projects; (3) RM: Research Methodology (4) RP: Research Projects (5) Cum.: Cumulative Credits

**Course Code:** LIS-501-MJM : P-PG, LIS: Library and Information Science, MT: Mandatory Theory,  
MP: Mandatory Practical, 1: First Year, 1: First Semester, 1: First Paper,

**Note:** In the subject code - - indicates short code of the subject (e.g.: LIS-501-MJM)

Anekant Education Society's  
Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati  
(Autonomous)

**Course Structure for M.Lib.I.Sc. (2023 Pattern)**

Sem	Course Type	Course Code	Course Title	Theory / Practical's	No. of Credits
<b>I</b>	Major (Mandatory)	LIS-501-MJM	Information Communication Society	Theory	4
	Major (Mandatory)	LIS-502-MJM	Management of Libraries & Information Centers – A	Theory	4
	Major (Mandatory)	LIS-503-MJM	Information Technology Applications : Practical	Practical	4
	Major (Mandatory)	LIS-504-MJM	Information Retrieval	Theory	2
	Major (Elective)	LIS-511-MJE	Academic Library System	Theory	4
	Major (Mandatory)	LIS-521-RM	Introduction to Research Methodology	Theory	4
	<b>Total Credits Semester I</b>				<b>22</b>
<b>II</b>	Major (Mandatory)	LIS-551-MJM	Management of Libraries & Information Centres –B	Theory	4
	Major (Mandatory)	LIS-552-MJM	Statistical Techniques of Research Bibliometrics	Theory	4
	Minor (Mandatory)	LIS-553-MJM	Information Communication Technology : Practical	Practical	4
	Major (Mandatory)	LIS-554-MJM	Bibliographic Control & Information Systems	Theory	2
	Major (Elective)	LIS-561-MJE	Information Technology: (Theory)	Theory	4
	On Job Training (OJT)/Field Project (FP)	LIS-581-FP	Project Work	Project	4
	<b>Total Credits Semester II</b>				<b>22</b>
<b>Cumulative Credits Semester I and II</b>					<b>44</b>

**ONLINE COURSES (SWAYAM / MOOCS)**

<b>Sr. No.</b>	<b>Title of the SWAYAM</b>	<b>National Coordinator</b>	<b>Course Coordinator</b>
1.	Koha Library Management System	SWAYAM	Prof. Kannan Moudgalya
2.	Library Automation & Digitization		

3.	Database and Content Organization		
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**CBCS Syllabus as per NEP 2020 for M.Lib.I.Sc.  
(2023 Pattern)**

**Name of the Programme** : M.Lib.I.Sc. Library and Information Science

**Programme Code** : PALIS

**Class** : M.Lib.I.Sc.

**Semester** : II

**Course Type** : Major Mandatory (Theory)

**Course Code** : LIS-551-MJM



**Course Title** : Management of Libraries & Information Centres –B  
**No. of Credits** : 04  
**No. of Lectures** : 60

### Course Objectives (COs):

1. To familiarize students with the concept of System Analysis, Management of Change TQM .
2. To introduce student with the concept Performance Measurement.
3. To introduce the concept of Re-engineering .
4. To introduce to the students the concept of Marketing of Library & Information Services.
5. To provide knowledge on library management
6. To enable students to understand the various sections and their routine
7. To facilitate students to plan libraries and to understand library governance
8. Student will create a marketing plan for a library.

### Course Outcomes (COs):

**By the end of the course, students will be able to:**

- CO1: The students will be understand a theory of TQM, Management of Libraries And Information Centers.
- CO2: To develop skills in Marketing of Library.
- CO3: To understand students with the concept change management and marketing of library and information services.
- CO4: Student can remember the management concepts
- CO5: Students can understand the various sections in library
- CO6: Describe the role of advocacy and community building in library marketing.
- CO7: Students can analyze the library SWOT analysis.
- CO8: identify the main approaches to the study of the management of an organization

### Topics :

<b>Total No Of Credits = 04</b>	
<b>UNIT 1</b>	<p><b>System Analysis &amp; Design ( 16L)</b></p> <p>1.1 Library as a system, System analysis &amp; Design</p> <p>1.2 Monitoring &amp; Control techniques: Management Information System, Network Techniques- PERT/CPM, DELPHI.</p> <p>1.3 Performance Measurement &amp; Evaluation Technique</p> <p>1.3.1 Performance Measurement : Concept, Need, Reengineering, Time &amp; Motion</p>

	Study 1.3.2 Performance Evaluation of libraries : Meaning, objectives, stages, areas, method, evaluation of library performance, SWOT analysis, DFD (Data Flow Diagram)
<b>UNIT 2</b>	<b>Total Quality Management (15L)</b> 2.1 Total Quality Management: Concept, objectives, elements 2.2 Techniques and quality audit 2.3 TQM for LICs
<b>UNIT 3</b>	<b>Change Management (15L)</b> 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
<b>UNIT 4</b>	<b>Marketing of Library &amp; Information Services (14L)</b> 4.1 Marketing of Library & Information Services: Concept, need, market analysis 4.2 Marketing of library products & services, promotion techniques including electronic media

**Choice Based Credit System Syllabus (2023 Pattern)**  
**(As Per NEP 2020)**  
**Mapping of Program Outcomes with Course Outcomes**

**Class** : M.Lib.I.Sc.

**Subject** : Library and Information Science

**Course** : Management of Libraries & Information Centres –B **Course Code** : LIS-551-MJM

**Weight age** : 1= weak or relation, 2= moderate or partial relation, 3= strong or direct relation

<b>Programme Outcomes (POs)</b>								
<b>Course</b>	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8

<b>Outcomes</b>								
CO 1	3	2						
CO 2		3						
CO 3	3	2						
CO 4	3	2			2			
CO 5	3				2			
CO 6	3	2						
CO 7					2			
CO8						3		

### **Justification for the Mapping**

#### **PO1 Research-Related Skills and Scientific temper:**

All of the course outcomes (COs) contribute to the development of students' Research-Related Skills and Scientific temper. For example, CO1, CO3, and CO4 require students to TQM, Management of Libraries and Information Centers and develop skills in Marketing of Library.CO4 and CO5 require students to understand the various sections in library. CO6 community building in library marketing.

#### **PO2 Effective Citizenship and Ethics:**

All of the COs also contributes to Effective Citizenship and Ethics. For example, CO1, CO2, and CO3 The students will be understand TQM, Management, change management ethics CO4 students to use their Effective management system in library.

#### **PO5 Personal and professional competence:**

CO4, CO5, CO7 contribute to the development of students' Personal and professional competence. For example, CO5 requires students to understand the various section in Library.

#### **PO6 Self-directed and Life-long learning:**

CO8, also contributes Self-directed and Life-long learning For example, main approaches to the study of the management of an organization.

### **References :**

1. Bryson Jo. Effective Library and Information Center Management Aldershot : Gower,1990.
2. Chapman Edward A. Pierre, Paul L. St. and Lubans John, Jr.: Library Systems Analysis Guidelines . New York: Wiley-Inter-Science, 1970.
3. Chowdhury G. G. Introduction to Digital Libraries. London : Facet Publishing 2003
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5. Cronin, Blaise ed. The Marketing of Library and Information Services. (Aslib Reader,Vol.4).London : Aslib,1981

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Resources Press, 1977.
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13. Maclachalan Liz. Making project management work for you. London : I. A. 1996.
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16. Noragh jones & Peter Jordan :Staff Management in Library and Information Work Aldershot: Gower  
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London : Clive Bingley, 1990.
20. Roshan Raina :TOM in Library & Information Services. New Delhi : Infuse ,1999.
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**Name of the Programme** : M.Lib.I.Sc. Library and Information Science

**Programme Code** : PALIS

**Class** : M.Lib.I.Sc.

**Semester** : II

**Course Type** : Major Mandatory (Theory)

**Course Code** : LIS-552-MJM

**Course Title** : Statistical Techniques of Research Bibliometrics

**No. of Credits** : 04

**No. of Lectures** : 60

## Course Objectives (COs):

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.
4. To study the functions of management & their application to librarianship.
5. To give exposure to current trends of Research in LIS.
6. To introduce the students Research & its Tools.
7. To know about Laws of Bibliometrics .

## Course Outcomes (COs):

**By the end of the course, students will be able to:**

- CO1: Can perform and access research based practices through the application of Information literacy, inquiry, and research methods including data discovery analytics and Qualitative measures.
- CO2: To Students learning to data analysis process.
- CO3: How to used style manual in Research project.
- CO4: The different methods and techniques of research.
- CO5: The use of data collection tools, organization and representation of data.
- CO6: Different data analysis techniques;
- CO7: About how to prepare research report.

## Topics :

<b>Total No Of Credits = 04</b>	
<b>UNIT 1</b>	<b>Research Tools and Techniques. ( 15L)</b> 1.1 Questionnaire, Interview, Observation, Scales and Check lists, 1.2 Sampling Techniques: Meaning, Definition, Types (Probability & Non- probability)
<b>UNIT 2</b>	<b>Data Analysis and Interpretation (15L)</b> 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 2.3 Inferential Statistics : Regression- Linear & Non-Linear, Z-T Test, Chi-Square Test Statistical Packages- SPSS	
<b>UNIT 3</b>	<b>Laws of Bibliometrics</b> 3.1 Bradford’s Law: Concept ,formula& Application 3.2 Lotkas Law : Concept , formula & Application 3.3 Ziff Law : Concept ,formula & Application	<b>( 15L)</b>
<b>UNIT 4</b>	<b>Style Manual</b> 4.1 Style Manual : Chicago, MLA, APA 4.2 Current Trends In LIS Research.	<b>(15L)</b>

**Class** : M.Lib.I.Sc.                      **Subject** : Library and Information Science  
**Course** : Statistical Techniques of Research Bibliometrics   **Course Code** : LIS-552-MJM

**Weight age** : 1= weak or relation, 2= moderate or partial relation, 3= strong or direct relation

<b>Programme Outcomes (POs)</b>								
<b>Course Outcomes</b>	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	3			3				3
CO 2	3	3		3				
CO 3	3	3						3
CO 4	3							
CO 5	3			2				
CO 6	3	2					2	
CO 7	3		2				2	

### **Justification for the Mapping**

#### **PO1 Research-Related Skills and Scientific temper:**

All of the course outcomes (COs) contribute to the development of students' Research-Related Skills and Scientific temper. For example, CO1, CO2, and CO3 require students to access research based practices through the application of Information literacy, inquiry, and research methods including data discovery analytics and Qualitative measures.CO4 and CO5 require students to different methods and techniques of research and use of data collection tools, organization and representation of data. CO6 and CO7 require students to data analysis techniques and prepare research report.

**PO2 Effective Citizenship and Ethics:**

The entire COs also contributes to Effective Citizenship and Ethics. For example CO2 and CO3 students will be understand ethical aspect of research.CO6 students to use their Research awareness in data analysis.

**PO3 Social competence and communication skills:**

CO7 also contributes to Social competence and communication skills For example CO7 students will be social competence about research report.

**PO7 Environment and Sustainability:**

CO6 and CO7 contribute to Environment and Sustainability. For example CO6 and CO7 students to develop their data analysis technique to use prepare project work.

**PO8 Critical Thinking and Problem solving:**

The entire COs also contributes to the development of students' critical thinking and problem-solving skills. For example, CO1 and CO3 require students to think critically about how to used style manual in Research project.

## References

1. Charles H. Busha & Stephen P. Harter, Research Methods in Librarianship Techniques and Interpretation New York : Academic Press 1980.
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**Name of the Programme** : M.Lib.I.Sc. Library and Information Science  
**Programme Code** : PALIS  
**Class** : M.Lib.I.Sc.  
**Semester** : II  
**Course Type** : Major Mandatory (Practical)  
**Course Code** : LIS-553-MJM  
**Course Title** : Information Communication Technology : Practical  
**No. of Credits** : 04  
**No. of Lectures** : 60

### **Course Objectives (COs):**



1. To provide students with hands-on-experience in the use of Library Software, CD and Internet Search.
2. To develop skills in web page designing. Providing hands on experience in use of application software, Integrated Library Software
3. To provide basics of information communication technologies and their application in libraries and information centers and their use in everyday operations of libraries.
4. To introduce the concept & use of ICT and its application in Libraries and Information Centers.
5. Development of skills in planning and implementation of library automation
6. Study of digital library, use of e-documents & current trends in the use of ICT
7. To prepare the students to streamline the library processes using computer technology, and meet the information needs of the users by providing efficient services.

### Course Outcomes (COs):

**By the end of the course, students will be able to:**

- CO1:** Will be trained in Information Communication Technologies knowledge and Library automation Skills.
- CO2:** Students will be able to choose appropriate database in order to search for scholarly articles On Their topics
- CO3:** The use of communication and networking technologies.
- CO4:** The understanding about implementation of library automation software and in achieving library security with the use of latest ICTs technique;
- CO5:** The use of communication and networking technologies;
- CO6:** The knowledge about database management, data ware housing, data mining and other artificial intelligence technologies.
- CO7:** Have an understanding of the concept of data structure, algorithm and database

### Topics :

<b>Total No Of Credits = 04</b>	
<b>UNIT 1</b>	Using Library Software E - Granthalaya / KOHA or any locally available library software. Creation & maintenance of bibliographic database of minimum 50 documents using E-granthalaya or any locally available library software
<b>UNIT 2</b>	CD search :Study of minimum 5 CDs (text, graphic) Digitization of documents (scanning, OCR etc.)
<b>UNIT 3</b>	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
<b>UNIT 4</b>	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

**Class** : M.Lib.I.Sc. **Subject** : Library and Information Science  
**Course** : Information Communication Technology: Practical **Course Code** : LIS-553-MJM

**Weight age** : 1= weak or relation, 2= moderate or partial relation, 3= strong or direct relation

Programme Outcomes (POs)								
Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	3			3				
CO 2	3	3		3				
CO 3	3		2	3				
CO 4	3	3	2					
CO 5	2		3	2				
CO 6	3	2						2
CO 7	2			3				

### Justification for the Mapping

#### PO1 Research-Related Skills and Scientific temper:

All of the course outcomes (COs) contribute to the development of students' Research-Related Skills and Scientific temper. For example, CO1, CO2, and CO3 require students to learning Information Communication technology skills and automation Skills CO4 and CO5 students understanding the library automation software and networking technologies to gain disciplinary knowledge. CO6 and CO7 understanding the critical thinking and problem solving skills in data structure and databases.

#### PO2 Effective Citizenship and Ethics:

The entire COs also contributes to Effective Citizenship and Ethics. For example CO2 and CO4 students will be understand implementation of library automation software. CO6 students to use their knowledge about the database management.

**PO3 Social competence and communication skills:**

CO3, CO4, CO5 also contributes to Social competence and communication skills For example CO3, CO4, CO5 students will be use to communication technology.

**PO4 Disciplinary Knowledge:** All of the course outcomes (COs) contribute to the development of students' Research-Related Skills and Scientific temper. For example, CO1, CO2, and CO3 require students understand the research databases, awareness in ICT and presenting skills. CO5 and CO7 students comprehensive knowledge and strongly work in information technology

**PO8 Critical Thinking and Problem solving:**

The entire COs also contributes to the development of students' critical thinking and problem-solving skills. For example, CO6 require students to about the knowledge management system.

## References

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**Name of the Programme** : M.Lib.I.Sc. Library and Information Science  
**Programme Code** : PALIS  
**Class** : M.Lib.I.Sc.  
**Semester** : II  
**Course Type** : Major Mandatory (Theory)  
**Course Code** : LIS-554-MJM  
**Course Title** : Bibliographic Control & Information Systems  
**No. of Credits** : 02

**Course Objectives (COs):**

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 .
4. To introduce the concept of Bibliographic control.
5. To familiarize the Bibliographic services in India..
6. To give exposure to Library Networks and Consortia
7. To introduce the students Information and Documentation Centre in India

**Course Outcomes (COs):**

**By the end of the course, students will be able to:**

- CO1:** The students will be able to identify the concept of Bibliographic Control and Information Systems
- CO2:** To know about scope of Information Systems.
- CO3:** To develop new skills for design of Information Systems.
- CO4:** To explore why Bibliographic services in India is needed.
- CO5:** To know the need of Information policy
- CO6:** To make them understand the concept, Need, Objectives, use, Activities, services of Library Networks and Consortia
- CO7:** To have overall knowledge about usefulness of Bibliographic

**Topics :**

<b>Total No Of Credits = 04</b>	
<b>UNIT 1</b>	<b>Bibliographic control. ( 10L)</b> 1.1 Concept, definition, aim, need 1.2 UBC : Concept and Definition, Needs and prerequisite to UBC at National and International level.

	1.3 UAP : Historical background and IFLA's Role, Objectives and scope , Inter Library Loan, International Agreement on Book exchange.
<b>UNIT 2</b>	<b>Bibliographic organization in India (10L)</b> 2.1 Government initiative: Delivery of book act, National Library- INB, RRRLF (ISBN). 2.2 Bibliographic services in India 2.3 Library Networks and Consortia : Definition, Need, Objectives, use, Activities services & examples (national & international) 2.4 Information and Documentation Centre in India: Role, Objective, scope, services & products : NISCAIR, NASSDOC, DESIDOC, SENDOC, DSIR,NCSI , IASLIC.
<b>UNIT 3</b>	<b>Information policy &amp; Systems (10L)</b> 3.1 Information policy : Meaning, Need ,importance, process of formulation, guidelines 3.2 International Policy Issues : UNESCO,IFLA, FID, ICSU/AB 3.3 Intellectual Property Rights, Copyright Act, Information Technology act Plagiarism 3.4 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.

**Class** : M.Lib.I.Sc.

**Subject** : Library and Information Science

**Course** : Bibliographic Control & Information Systems **Course Code** : LIS-554-MJM

**Weight age:** 1= weak or relation, 2= moderate or partial relation, 3= strong or direct relation

Programme Outcomes (POs)								
Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1				2				

CO 2								
CO 3			3					
CO 4								
CO 5								
CO 6								
CO 7								

### **Justification for the Mapping**

**PO3 Social competence and communication skills:**

CO3 also contributes to Social competence and communication skills For example CO3students to develop new skills for design of Information Systems.

**PO4 Disciplinary Knowledge:**

All of the course outcomes (COs) contribute to the disciplinary Knowledge For example, CO4 require The students will be able to identify the concept of Bibliographic Control and Information Systems to acquire disciplinary knowledge.

## **References**

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**Name of the Programme** : M.Lib.I.Sc. Library and Information Science

**Programme Code** : PALIS

**Class** : M.Lib.I.Sc.

**Semester** : II

**Course Type** : Major Mandatory (Theory)

**Course Code** : LIS-561-MJE

**Course Title** : Information Technology: (Theory)

**No. of Credits** : 04



### Course Objectives (COs):

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
4. To train the students in applying Information and Communication Technology in Libraries and Information Centre's
5. Acquire skills required for handling different operating systems and use application software for office management
6. To understand the concepts of networking and web technology.
7. Students can understand the basic concept of RFID.

### Course Outcomes (COs):

**By the end of the course, students will be able to:**

**CO1:** To provide basic concepts related to digital library system;

**CO2:** To explore the applications of software and standards in developing digital library systems.

**CO3:** To learn the use of content management system, web 2.0 and semantic web technologies in digital library systems;

**CO4:** To provide hands on experience in creation of digital libraries;

**CO5:** To know the concept of institutional repositories and their usages in library and institutional settings.

**CO5:** Will be trained in Information Communication Technologies knowledge and Library automation Skills.

**CO6:** The use of communication and networking technologies.

**CO7:** the current trends in library networks operational in India.

### Topics :

Total No Of Credits = 04	
<b>UNIT 1</b>	<b>Information &amp; Communication Technology: Basics &amp; Library Automation and Library Software ( 14L)</b>
	1.1 Information & Communication Technology : Basics of Communication Technology,
	1.2 Components, Transmission Media ,Transmission Mode , Bandwidth

<b>UNIT 2</b>	<b>Networks &amp; Internet</b> <span style="float: right;"><b>( 16L)</b></span> 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
<b>UNIT 3</b>	<b>Digital Library &amp; Electronic Documents</b> <span style="float: right;"><b>( 17L)</b></span> 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.
<b>UNIT 4</b>	<b>Current Trends in ICT</b> <span style="float: right;"><b>( 13L)</b></span> 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

**Class** : M.Lib.I.Sc.

**Subject** : Library and Information Science

**Course** : Information Technology: Theory

**Course Code** : LIS- 561 - MJE

**Weight age** : 1= weak or relation, 2= moderate or partial relation, 3= strong or direct relation

Programme Outcomes (POs)								
Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	3	3						

CO 2	3	3		2				
CO 3	3			3				
CO 4	3	3						
CO 5	2		3					
CO 6	3	2						
CO 7	2			2				

### **Justification for the Mapping**

#### **PO1 Research-Related Skills and Scientific temper:**

All of the course outcomes (COs) contribute to the development of students' Research-Related Skills and Scientific temper. For example, CO1, CO2, and CO3 require students to standard developing digital library system and content management system, web 2.0 and semantic web technologies CO4 and CO5 students understanding the institutional repositories and their usages. CO6 and CO7 use of communication and networking technologies.

#### **PO2 Effective Citizenship and Ethics:**

The entire COs also contributes to Effective Citizenship and Ethics. For example CO1 and CO2 to explore the applications of software. CO6 students to use their knowledge about the database management.

#### **PO3 Social competence and communication skills:**

CO5 also contributes to Social competence and communication skills For example CO5 students will trained in ICT and automation skills.

#### **PO4 Disciplinary Knowledge:**

All of the course outcomes (COs) contribute to the development of students' disciplinary Knowledge. For example CO2 and CO3 require students understand the web 2.0 and semantic web technologies in digital library systems.CO7 students gain knowledge to current trends in library networks in india .

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**Name of the Programme** : M.Lib.I.Sc. Library and Information Science

**Programme Code** : PALIS

**Class** : M.Lib.I.Sc.

**Semester** : II

**Course Type** : Major Mandatory (Theory)

**Course Code** : LIS -581- OJT/ FP

**Course Title** : Project Work

**No. of Credits** : 04

No. of Lectures : 60

### Course Objectives (COs):

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.

### Course Outcomes (COs):

**By the end of the course, students will be able to:**

- CO1.To make students acquainted with research process.
- CO2.The students understanding the research databases.
- CO3. How to writing research proposal.
- CO4. Perform a research project according to an individual study plan
- CO5. show independence, critical and creative thinking.
- CO6. document results by writing a research report,
- CO7. present and discuss the research results with colleagues and senior researchers

### Topics

**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.

**Class** : M.Lib.I.Sc.  
**Course** : Project Work

**Subject** : Library and Information Science  
**Course Code** : LIS- 581 – OJT/FP

**Weight age** : 1= weak or relation, 2= moderate or partial relation, 3= strong or direct relation

Programme Outcomes (POs)								
Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	3			2				
CO 2								
CO 3	3		2			3		

CO 4	3		2		3			
CO 5								3
CO 6				2				
CO 7	3			2				

### **Justification for the Mapping**

**PO1 Research-Related Skills and Scientific temper:**

All of the course outcomes (COs) contribute to the development of students' Research-Related Skills and Scientific temper. For example, CO1, CO3, and CO4 require students to be acquainted with the research process and understanding the research databases. CO7 involves presenting and discussing research results with colleagues with scientific temper.

**PO3 Social competence and communication skills:**

CO3 also contributes to Social competence and communication skills. For example, CO3 students acquire research skills.

**PO4 Disciplinary Knowledge:**

All of the course outcomes (COs) contribute to the development of students' disciplinary Knowledge. For example, CO1 makes students acquainted with the research process. CO6 and CO7 students gain knowledge to present and discuss the research results with colleagues and senior researchers.

**PO5 Personal and professional competence:**

CO4 also contributes to Personal and professional competence. For example, CO4 students perform a research project according to an individual study plan for professional competence.

**PO6 Self-directed and Life-long learning:**

The entire COs also contribute to Self-directed and Life-long learning. For example, CO3 involves student-directed learning to writing a research proposal.

**PO8 Critical Thinking and Problem solving:**

CO5 also contributes to Critical thinking and problem solving. For example, CO5 shows independence, critical and creative thinking for the students.