SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar

NAAC 'A' Grade (10-01-2023 To 09-01-2028)

With effect from Academic Year 2026-27

Masters of Library & Information Science Part-Time [MLISc] Semester- I / III

Course Type	Course Code	Course Title	Teaching-Learning Scheme	Total Notional Hours	Course credits
			L-P-T		
DSC	**PA01PTCLIB61/ PA03PTCLIB61**	Research Methodology and Statistical Techniques	4-0-1	**120**	4

- **Course Learning Outcomes (CLOs)**

On completion of this course, students will be able to:

CLO1: Explain the foundations, types, and processes of research in LIS.

CLO2: Formulate research problems, hypotheses, and structured research designs.

CLO3: Apply appropriate research methods and data collection techniques.

CLO4: Apply basic data analysis using statistical tools, ICT applications, and introductory research evaluation indicators.

CLO5: Prepare structured research reports using standard citation styles and ethical practices.

Unit	Course Content	Learning Pedagogies*	CLO(s)
I	**Research Foundations and Design** • Nature, scope, and significance of research in LIS • Types of research: basic, applied, interdisciplinary approaches • Emerging research trends in LIS • Steps in research process: problem identification to proposal formulation • Hypothesis development and operational definitions • Literature review techniques and tools	Classroom Lecture Seminar, Inquiry based Learning, Research - Oriented Learning	CLO1, CLO2
II	**Research Methods and Data Collection** • Overview of scientific and historical research methods • Descriptive, survey, and case study approaches • Experimental and Delphi techniques • Tools for data collection: questionnaire, interview, observation • Designing data collection instruments	Classroom Lecture Seminar, Inquiry based Learning, Research - Oriented Learning	CLO2, CLO3

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III	**Data Analysis and Statistical Techniques** • Data organization: classification and tabulation • Measurement scales and statistical concepts • Central tendency: mean, median, mode • Dispersion measures: variance, standard deviation • Data visualization: graphs, charts, histograms • Hypothesis testing: Z-test, t-test, chi-square • Introduction to statistical software (SPSS overview)	Classroom Lecture Seminar, Inquiry based Learning, Research - Oriented Learning	CLO3, CLO4
IV	**Research Reporting, Scholarly Communication and Publication Ethics** • Structure and components of research reports • Academic writing styles: APA, MLA, Chicago • Citation practices and referencing tools • Ethical issues: plagiarism, copyright, academic integrity • Scholarly communication and publication standards	Classroom Lecture Seminar, Inquiry based Learning, Research - Oriented Learning	CLO4, CLO5

- **Assessment Methodologies**

(A) Internal Assessment

a. Internal Formative assessment (25 Marks)

(a) Attendance
(b) Assignment
(c) Seminar/Presentation

a. Internal Summative Assessment (25 Marks)

(a) Mid-Term Examination

(B) Weightage of Learning Efforts for External Assessment

Unit	Aligned COs	Total Learning Hours	Approximate weightage (Marks) to Learning levels (BT)			Total Marks
			Remember (R)	Understanding (U)	Application/ Analyse & above (A)	
I	CLO1, CLO2	30	1	4	09	14
II	CLO2, CLO3	32	1	4	07	12
III	CLO3, CLO4	28	1	4	07	12
IV	CLO4, CLO5	30	1	4	07	12
		120	**04**	**16**	**30**	**50**

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- **Assessment and Evaluation**

Sr. No.	Assessment/Evaluation	Component	Weightage (%)
1	Continuous Internal Evaluation	Seminars, Assignments, Attendance, Mid-Term examination	50
2	End-Semester Examination	Written Exam	50

(C) CLOs – PLOs Matrix

CLO	PLO											
	PLO 1	**PLO 2**	**PLO 3**	**PLO 4**	**PLO 5**	**PLO 6**	**PLO 7**	**PLO 8**	**PLO 9**	**PLO 10**	**PLO 11**	**PLO 12**
CLO1	3	-	2	-	1	-	2	-	-	-	2	1
CLO2	2	-	2	1	1	-	3	1	-	-	1	1
CLO3	-	1	2	2	1	1	3	1	1	-	1	1
CLO4	-	-	2	2	2	-	3	3	1	2	1	1
CLO5	1	-	2	1	2	1	3	2	2	3	3	2

Values to **CLO-PLO** matrix are assigned **by judging the importance of the particular CLO** in relation to the **PLOs**.

CLO – PLO correlation	Value
Strong	3
Moderate	2
Low	1
No correlation	-

- **Suggested Learning Materials Books:**

Sr. No.	Title	Author(s)	Edition/Year	Publisher
1	Research Methodology: Methods and Techniques	C.R. Kothari & Gaurav Garg	4th Ed., 2019	New Age International
2	Research Methodology for LIS	Krishan Kumar	2nd Ed., 2018	Vikas Publishing
3	Introduction to Research in LIS	Ronald R. Powell & Lynn Silipigni Connaway	5th Ed., 2020	Libraries Unlimited
4	Basic Research Methods for Librarians	Lynn Silipigni Connaway	6th Ed., 2021	ABC-CLIO
5	Statistical Methods	S.P. Gupta	Latest	Sultan Chand
6	Research Design	John W. Creswell	5th Ed., 2018	Sage Publications

7	The Craft of Research	Booth et al.	4th Ed., 2016	University of Chicago Press
8	Bibliometrics and Research Evaluation	Nicola De Bellis	2014	Scarecrow Press
9	Scientometrics for LIS	B.K. Sen	Latest	ESS ESS Publications
10	Academic Writing and Publishing	Murray Rowena	2017	McGraw Hill
11	Research Methodology	Patel R.C.	2017	Jay Publications

- **Online Resources (Open Source)**

Sr. No.	Description of Resource(s)	Weblink
1	ePG Pathshala – Research Methodology in LIS	https://epgp.inflibnet.ac.in
2	INFLIBNET LIS Modules (LISP Series)	https://ebooks.inflibnet.ac.in
3	NDLI (National Digital Library of India)	https://ndl.iitkgp.ac.in
4	eGyanKosh – Research Methods	https://egyankosh.ac.in
5	DOAJ – Open Access Journals	https://doaj.org
6	Shodhganga (Indian Theses Repository)	https://shodhganga.inflibnet.ac.in
7	Google Scholar (Citation & Research Tracking)	https://scholar.google.com
8	Zotero Reference Manager	https://www.zotero.org
9	Mendeley Reference Manager	https://www.mendeley.com
10	SPSS Tutorials (Open Learning)	https://www.spss-tutorials.com
11	ResearchGate (Scholarly Communication Platform)	https://www.researchgate.net
12	Scopus Preview (Citation Analysis)	https://www.scopus.com
13	Web of Science (Research Evaluation)	https://www.webofscience.com
14	Turnitin Academic Integrity Resources	https://www.turnitin.com/resources
15	Creative Commons Licensing	https://creativecommons.org

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Course Type	Course Code	Course Title	Teaching-Learning Scheme	Total Notional Hours	Course credits
			L-P-T		
DSC	**PA01PTCLIB62/ PA03PTCLIB62**	Information Analysis, Repackaging and Consolidation	4-0-0	**120**	04

Course Learning Outcomes (CLOs)

On completion of this course, students will be able to:

CLO1: Explain the concept, need, purpose, and processes of Information Analysis, Consolidation and Repackaging (IACR), and identify different types and levels of users and their information needs.

CLO2: Analyze and apply the methods and steps involved in information processing, consolidation, and repackaging for developing need-based information products and services.

CLO3: Design and prepare various IACR-based information products such as state-of-the-art reports, trend reports, newsletters, house journals, and technical digests using appropriate methodologies.

CLO4: Evaluate different modes of information presentation (textual and non-textual) and apply principles of technical writing for effective communication of information.

CLO5: Examine the organization, management, and marketing of Information Analysis and Consolidation (IAC) Centres and assess strategies for promoting information products and services.

Unit	Course Content	Learning Pedagogies*	CLO(s)
I	**Information Analysis, Consolidation and Repackaging (IACR).** • Information Analysis, Consolidation and Repackaging: Need, Purpose and Advantages. • Users & User Groups, Types and levels of users. • IACR Processes: Pre-requisites and Steps. • Packaging and Repackaging of Information. • Modes of Presentation: Textual and Non-Textual Presentation. • Technical Writing: Characteristics, pre-requisites and guiding principles	Classroom Lecture Seminars ICT-Enabled Learning Reflective Practices Self-Directed Learning	CLO1 CLO4

II	**Processing Methods of IACR Products and Services**. • IACR Products: Types and Steps for preparation. • Methodology for the Preparation of Information Product • Methodology for Information Consolidation, Understating of subjects, Information Requirement Information Consolidation products by Diffusion stages	Classroom Lecture Seminars ICT-Enabled Learning Reflective Practices Self-Directed Learning	CLO2
III	**Preparation of Information Products** • State-of-the-art Reports, Trend Reports, House Journals, Newsletters, Technical Digest	Classroom Lecture Seminars ICT-Enabled Learning Collaborative Learning Reflective Practices Self-Directed Learning	CLO3
IV	**Organization and Management of Information Analysis and Consolidation Centres (IAC)** • Information Analysis and Consolidation Centre (IAC): Need, Characteristics and Functions. • Organization and management of IAC Centre. • Marketing: Definitions, scope and importance. • Marketing of Information Products and Services.	Classroom Lecture Seminars ICT-Enabled Learning Reflective Practices Self-Directed Learning	CLO5

- **Assessment Methodologies**

(A) Internal Assessment

a. Internal Formative assessment (25 marks)

(a) Attendance
(b) Assignment
(c) Seminar/Presentation

b. Internal Summative Assessment (25 marks)

(a) Mid-Term Examination

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(B) Weightage of Learning Efforts for External Assessment

Unit	Aligned COs	Total Learning Hours	Approximate weightage (Marks) to Learning levels (BT)			Total Marks
			Remember (R)	Understanding (U)	Application/ Analyse & above (A)	
I	CLO1 CLO4	30	1	2	11	14
II	CLO2	32	1	2	09	12
III	CLO3	28	1	2	09	12
IV	CLO5	30	1	2	09	12
		120	**04**	**08**	**38**	**50**

- **Assessment and Evaluation**

Sr. No.	Assessment/Evaluation	Component	Weightage (%)
1	Continuous Internal Evaluation	Seminars, Assignments, Attendance, Mid-Term Examination	50%
2	End-Semester Examination	Written Exam	50%

(C) CLOs – PLOs Matrix

CLO	PLO											
	PLO 1	**PLO 2**	**PLO 3**	**PLO 4**	**PLO 5**	**PLO 6**	**PLO 7**	**PLO 8**	**PLO 9**	**PLO 10**	**PLO 11**	**PLO 12**
CLO1	3	1	3	1	-	-	-	-	2	2	2	2
CLO2	2	2	3	2	-	-	1	1	3	2	1	2
CLO3	2	1	2	2	-	1	-	-	3	2	1	2
CLO4	2	-	2	1	-	-	-	-	2	3	2	3
CLO5	3	-	2	2	2	1	1	1	2	2	3	3

Values to **CLO-PLO** matrix are assigned **by judging the importance of the particular CLO** in relation to the **PLOs**.

CLO – PLO correlation	Value
Strong	3
Moderate	2
Low	1
No correlation	-

- **Suggested Learning Materials Books:**

Sr. No.	Title	Author(s)	Edition/Year	Publisher
1	Information Analysis, Consolidation and Repackaging	Singh, Sewa	2014	Atlantic Publishers
2	Information Analysis, Repackaging, Consolidation and Information Retrieval	Kumar,P. S. G.	2004	B R Publishing Corporation
3	Elements of information analysis, consolidation & repackaging (IACR)	Amitabha Chatterjee	2013	Prova Prakashani
4	Information Consolidation and Repackaging- Framework, Methodology, Planning.	Seethrama, S.	1997	Ess Ess Publication.

- **Online Resources (Open Source)**

Sr. No.	Description of Resource(s)	Weblink
1	Babasaheb Ambedkar Open University	https://baou.edu.in
2	Information and Library Network.	http://www.inflibnet.ac.in
3	National Digital Library	https://ndl.iitkgp.ac.in
4	egyankosh	www.egyankosh.ac.

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Course Type	Course Code	Course Title	Teaching-Learning Scheme	Total Notional Hours	Course credits
			L-P-T		
DSC	**PA01PTCLIB63/ PA03PTCLIB63**	Information Analysis, Repackaging and Consolidation (Practical)	0-8-0	**120**	04

- **Course Learning Outcomes (CLOs)**

On completion of this course, students will be able to:

CLO1: Identify user information needs and select relevant sources for the preparation of need-based information products.

CLO2: Apply techniques of information analysis, consolidation, and repackaging to organize and synthesize information effectively.

CLO3: Design and prepare various information products such as state-of-the-art reports, trend reports, newsletters, house journals, and technical digests.

CLO4: Demonstrate skills in technical writing, editing, formatting, and presentation (both textual and non-textual) for effective communication of information.

CLO5: Evaluate the quality, usability, and relevance of prepared information products based on user needs and professional standards.

Unit	Course Content	Learning Pedagogies*	CLO(s)
I	Information Products • Preparation • Presentation	Classroom Lecture Case-Based Learning Problem-Based Learning Collaborative Learning ICT-Enabled Learning Reflective Practices Inquiry-Based Learning Self-Directed Learning	CLO1 CLO2 CLO3 CLO4 CLO5

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Semester - I / III

- **Assessment Methodologies**

(A) Internal Assessment

a. Internal Formative assessment (25 Marks)

(a) Attendance

(b) Product Presentation

b. Internal Summative Assessment (25 Marks)

(a) Viva-voce

(B) Weightage of Learning Efforts for External Assessment

Unit	Aligned COs	Total Learning Hours	Approximate weightage (Marks) to Learning levels (BT)			Total Marks
			Remember (R)	Understanding (U)	Application/ Analyse & above (A)	
I	CLO1 CLO2 CLO3 CLO4 CLO5	120	04	04	42	50
		120	**04**	**04**	**42**	**50**

- **Assessment and Evaluation**

Sr. No.	Assessment/Evaluation	Component	Weightage (%)
1	Continuous Internal Evaluation	Attendance, Product Presentation	50%
2	End-Semester Examination	Information Product, Viva-voce	50%

(C) CLOs – PLOs Matrix

CLO	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CLO1	2	1	3	1	-	-	-	-	2	3	2	2
CLO2	2	2	2	2	-	-	1	1	3	2	1	2
CLO3	2	1	2	2	-	1	-	-	3	2	1	2
CLO4	2	-	2	2	-	1	-	-	2	2	2	3
CLO5	2	-	2	-	1	-	1	1	2	3	3	2

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Values to **CLO-PLO** matrix are assigned **by judging the importance of the particular CLO** in relation to the **PLOs**.

CLO – PLO correlation	Value
Strong	3
Moderate	2
Low	1
No correlation	-

- **Suggested Learning Materials Books:**

Sr. No.	Title	Author(s)	Edition/Year	Publisher
1	Information Analysis, Consolidation and Repackaging	Singh, Sewa	2014	Atlantic Publishers
2	Information Analysis, Repackaging, Consolidation and Information Retrieval	Kumar,P. S. G.	2004	B R Publishing Corporation
3	Elements of information analysis, consolidation & repackaging (IACR)	Amitabha Chatterjee	2013	Prova Prakashani
4	Information Consolidation and Repackaging- Framework, Methodology, Planning.	Seethrama, S.	1997	Ess Ess Publication.

- **Online Resources (Open Source)**

Sr. No.	Description of Resource(s)	Weblink
1	Babasaheb Ambedkar Open University	https://baou.edu.in
2	Information and Library Network.	http://www.inflibnet.ac.in
3	National Digital Library	https://ndl.iitkgp.ac.in
4	egyankosh	www.egyankosh.ac.

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Semester - I / III

Course Type	Course Code	Course Title	Teaching-Learning Scheme	Total Notional Hours	Course credits
			L-P-T		
DSE	**PA01PTELIB61/ PA03PTELIB61**	Management of Library and Information Systems Centres	4-0-1	**120**	04

- **Course Learning Outcomes (CLOs)**

On completion of this course, students will be able to:

CLO1: Critically analyze the evolution, concepts, functions, and various management approaches, and assess their applicability in library and information systems and centres

CLO2: Apply systems approach principles to libraries by conducting system analysis, designing workflows, and utilizing tools such as flowcharts, MIS, and network analysis (PERT/CPM) for effective decision-making.

CLO3: Evaluate and implement monitoring and performance measurement techniques, including Operations Research (OR), MBO, and marketing research, for assessing library and information services.

CLO4: Design and manage human resource development programmes by applying HR planning techniques, TQM principles, and quality improvement strategies in library and information centres.

CLO5: Develop and justify financi l management strategies, including budgeting methods (PPBS, Zero-Based Budgeting), cost analysis, and budgetary control systems for efficient management of libraries and information centres.

Unit	Course Content	Learning Pedagogies*	CLO(s)
I	**Evolution of Management:** • Concepts • Definition • Nature • Purpose • Management School of Thought Management **Styles and Approaches:** • Various Styles of Approaches **Functions:** Functions of Management and Their Relevance to Libraries and Information Centers	Classroom Lecture Seminars (Student-led and Faculty-moderated) Case-Based Learning	CLO1

II	**System Analysis:** • Systems Meaning Library as a System and its Subsystems • Systems Analysis • Flow Charting • Evaluation • System Design – General Considerations **Monitoring Techniques:** • Operations Research (OR) • Management Information System (MIS) • Management By Objectives (MBO) • Network Analysis – PERT/CPM **Evaluation Techniques:** • Methods of Evaluation • Techniques of Evaluation Performance Measurement Performance Evaluation Marketing Research Evaluation of Information Systems & Services **Personnel/Human Resource Management:** • Macro & Micro Approach	Classroom Lecture Seminars (Student-led and Faculty-moderated) Case-Based Learning Problem-Based Learning Classroom Lecture	CLO2 CLO3
III	**Personnel/HR Planning:** • Need & Purpose • Elements of HRP • Methods & Techniques of HRP **Personnel/Human Resource Development:** • Need • Mechanisms • Instruments & Systems • HRD Process • HRD In Libraries & Information Centers **HRD and Total Quality Management:** • Quality Improvement Programmes • Total Quality Approach • Need of Quality • Total Quality Management (TQM) Objectives Elements Benefits	Seminars (Student-led and Faculty-moderated) Case-Based Learning Problem-Based Learning	CLO4

IV	**Financial Management:** • Budgeting & Types • Budgetary Terminology • Objectives • Principles & Factors Considerations of Budgeting • Budget Formulation • Budget Method PPBS Zero Based Budgeting • Budgetary Control System Need Process of Budgetary Control in Libraries/ Information Centers ***Costing*:** • Concept • Need of Costing In Libraries • Types of Costs • Costing Methods ***Cost Analysis* :** • Cost Effectiveness • Cost Benefit Analysis • Methods of Cost Analysis	Classroom Lecture Seminars (Student-led and Faculty-moderated) Case-Based Learning Problem-Based Learning	CLO5

- **Assessment Methodologies**

(A) Internal Assessment

a. Internal Formative assessment (25 Marks)

(a) Attendance
(b) Assignment
(c) Seminar

b. Internal Summative Assessment (25 Marks)

(a) End of Term Exam

(B) Weightage of Learning Efforts for External Assessment

Unit	Aligned COs	Total Learning Hours	Approximate weightage(Marks) to Learning levels (BT)			Total Marks
			Remember (R)	Understanding (U)	Application/ Analyse& above (A)	
I	CLO1	30	1	2	11	14
II	CLO2 CLO3	32	1	2	09	12
III	CLO4	28	1	2	09	12
IV	CLO5	30	1	2	09	12
		120	**04**	**08**	**38**	**50**

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- **Assessment and Evaluation**

Sr. No.	Assessment/Evaluation	Component	Weightage (%)
1	Continuous Internal Evaluation	Seminars, Assignments, Attendance, Mid-Term Examination	50%
2	End-Semester Examination	Written Exam	50%

(C) CLOs – PLOs Matrix

CLO	PLO											
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11	PLO 12
CLO 1	3	-	2	-	2	-	1	-	-	2	-	1
CLO 2	2	-	2	3	2	1	2	1	-	-	-	1
CLO 3	2	-	3	2	2		3	2	1	2	1	1
CLO 4	2	-	2	1	-		1	-	-	-	2	3
CLO 5	3	-	2	2	-	1	2	1	1	2	1	2

Values to **CLO-PLO** matrix are assigned **by judging the importance of the particular CLO** in relation to the **PLOs**.

CLO – PLO correlation	Value
Strong	3
Moderate	2
Low	1
No correlation	-

- **Suggested Learning Materials Books:**

Sr. No.	Title	Author(s)	Edition/Year	Publisher
1	Management	Koontz, Weihrich, H.	2nd Edition / 1988	McGraw-Hill.
2	LIbrary administration	Rangnathan, S. R	1959	Ess Ess Publications.
3	Library administration	Mittal, R. L.	1984	Ess Ess Publications.
4	The planning approach to library management	Wilson. A.	1979	Library Association.
5	Sanchalan : Visangtma & Vahvharma	J.E. Ghathiyawala	1983	Gujrat Uni. Granth Nirman Board
6	Sanchalan na nava Khyalo & Dishao	Ramnik Yadav	2000	Gujrat Uni. Granth Nirman Board

7	Pustak vyavsthapan	Bhaiya, Chhgan	2010	P.R. Publications.
8	Management Techniques for Librarians	Evans, G. E.	2n Edition /1983	Academic Press
9	Library and information management	Narayana, G. L.	1991	Prentice-Hall of India.
10	Advances in Library Administration and organization	Williams, Delmus E.; Golden, Janine; Sweeney, Jennifer K.	2015	Emerald
11	Studies in library management, Vol.1-4, London	Holroyd, G.	1976	Clive Bingley.
12	Models for Library Management, Decision-Making and Planning	Hayss, Robert M.	2001	Academic Press
13	Systems analysis and design	Awad, B. M.	1995	Galgotia
14	Information system design and management	Lazer, P.	1992	Sarda Ranganathan Lectures, 15.
15	Library Systems Analyse Guidelines	Chapman, E. A., Pierre, P. L. & Lubans, J.	1970	Wiley Inter-Science.
16	Handbook of Special Librarianship and Information	Ashworth. W.	6th Edition / 1967	ASLIB
17	Performance Measurement in Libraries and Information Services	Abbot, Christine	1994	ASLIB
18	Quality Management For Information and Library Managers	Brophy, P. & Coulling	1995	Jaico Publications House.
19	Effective Library and Information Centre Management	Byrson, Jo	1990	Gower
20	Personnel management in libraries	Cowley. J.	1982	Bingley
21	Human resource management in libraries	Mahapatra, P.K	2002	Ess Publishers
22	The quality infrastructure : measuring, analyzing, and improving library services	Murphy, Sarah Anne	2014	American Library Association
23	Costing and the economics of library and information services	Roberts, S. A.	1988	ASLIB

- **Online Resources (Open Source)**

Sr. No.	Description of Resource(s)	Weblink
1	Paper No. 06: Management of Libraries and Information	https://epgp.inflibnet.ac.in/
2	Module 01: Introduction to HRM: Meaning, definition, scope, objectives and functions of Human Resource Management . In Paper 01: Human Resource Management (Subject: Management)	https://epgp.inflibnet.ac.in/
3	Paper No. 06: Management Information System (MIS) (Subject: Management)	https://epgp.inflibnet.ac.in/
4	Paper No. 05: Principles of Management (Subject: Management)	https://epgp.inflibnet.ac.in/
	MLI-102: Management of Library and Information Centre	https://egyankosh.ac.in/

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Master of Library and Information Science Part-Time [MLISc]

Semester- I / III

Course Type	Course Code	Course Title	Teaching-Learning Scheme	Total Notional Hours	Course credits
			L-P-T		
DSE	**PA01PTELIB62/ PA03PTELIB62**	Metric Studies and Quality Indicators	4-0-1	**120**	04

- **Course Learning Outcomes (CLOs)**

On completion of this course, students will be able to:

CLO1: Critically examine the evolution, concepts, and emerging trends of bibliometrics, scientometrics, infometrics, webometrics, and altmetrics in the context of scholarly communication.

CLO2: Analyze and apply fundamental bibliometric laws (Bradford's Law, Zipf's Law, Lotka's Law, 80/20 Rule) and related theories (Matthew Effect, Ortega Hypothesis) to interpret patterns in scientific literature.

CLO3: Evaluate citation-based indicators, including impact factor, h-index, immediacy index, and half-life, to assess research performance and scholarly impact.

CLO4: Apply bibliometric techniques such as citation analysis, co-citation analysis, and collaboration network analysis to map scientific domains and research trends.

CLO5: Utilize major bibliographic databases (Scopus, Web of Science, Google Scholar, CrossRef, Dimensions) and tools (Biblioshiny, VOSviewer) to conduct bibliometric studies and visualize research output.

Unit	Course Content	Learning Pedagogies*	CLO(s)
I	**Historical Evolution of Metrics:** • Concept • Definition • Emerging trends of Bibliometrics, Scientometrics, Infometrics, Webometrics, Altmetrics	Classroom Lecture Seminars (Student-led and Faculty-moderated) ICT-Enabled Learning (LMS-based Tasks, Digital Resources, Virtual	CLO1

		Labs/Webinars) Self-Directed Learning (Guided Readings, Concept Exploration Tasks)	
II	**Bibliometrics Laws:** • Broadford's Law • Zipf s Law • Lotka's Law • 80/20 Rule • Ortega Hypothesis • Mathew effect in Reward System • Intellectual Epidemics as a model of Scientific Communication	Classroom Lecture Seminars (Student-led and Faculty-moderated) ICT-Enabled Learning (LMS-based Tasks, Digital Resources, Virtual Labs/Webinars) Self-Directed Learning (Guided Readings, Concept Exploration Tasks)	CLO2
III	**Citation Analysis**: • Citation analysis and co-citation analysis • Authorship patterns and collaboration networks • Journal impact factors and h-index calculation • Indicators of citation impact • Research metrics and indicators • Journal citation measures Impact factor Immediacy index Half-life etc. • Relative citation indicators • Mapping scientific landscapes using bibliometric methods	Classroom Lecture Seminars (Student-led and Faculty-moderated) ICT-Enabled Learning (LMS-based Tasks, Digital Resources, Virtual Labs/Webinars) Self-Directed Learning Guided Readings, Concept	CLO3

		(Exploration Tasks) Collaborative Learning Research Oriented Learning	
IV	**Databases and Software Packages or Tools:** • Databases : Demonstration of Scopus, WoS, Google Scholar, CrossRef, Dimension • Software Packages: Demonstration of Biblioshiny, VOSViewer	Classroom Lecture Seminars (Student-led and Faculty-moderated) ICT-Enabled Learning (LMS-based Tasks, Digital Resources, Virtual Labs/Webinars) Self-Directed Learning (Guided Readings, Concept Exploration Tasks)	CLO4 CLO5

- **Assessment Methodologies**

(A) Internal Assessment

a. Internal Formative assessment (25 Marks)

(a) Attendance
(b) Assignment
(c) Seminar/Presentation

b. Internal Summative Assessment (25 Marks)

(a) Mid-term Exam

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With effect from Academic Year 2026-27

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Semester- I / III

(B) Weightage of Learning Efforts for External Assessment

Unit	Aligned COs	Total Learning Hours	Approximate weightage(Marks) to Learning levels (BT)			Total Marks
			Remember (R)	Understanding (U)	Application/ Analyse& above (A)	
I	CLO1	30	1	2	11	14
II	CLO2	32	1	2	09	12
III	CLO3	28	1	2	09	12
IV	CLO4 CLO5	30	1	2	09	12
		120	**04**	**08**	**38**	**50**

- **Assessment and Evaluation**

Sr. No.	Assessment/Evaluation	Component	Weightage (%)
1	Continuous Internal Evaluation	Seminars, Assignments, Attendance, Mid-Term Examination	50%
2	End-Semester Examination	Written Exam	50%

(C) CLOs – PLOs Matrix

CLO	PLO											
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO10	PLO11	PLO12
CLO 1	3		2		2			3		2	1	1
CLO 2	2						3	3				
CLO 3	2				2		3	3		3	2	
CLO 4	2		2	2			3	3	2			1
CLO 5	2			3	3	2	2	3	2		1	2
CLO 6												

Values to **CLO-PLO** matrix are assigned **by judging the importance of the particular CLO** in relation to the **PLOs**.

CLO – PLO correlation	Value
Strong	3
Moderate	2
Low	1
No correlation	-

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- **Suggested Learning Materials Books:**

Sr. No.	Title	Author(s)	Edition/Year	Publisher
1	Evaluative Bibliometrics: The use of publication and citation analysis in the evaluation of scientific activities	F. Narin	1976	Computer Horizons Inc
2	Bibliometrics, Informetrics and Scientometrics	Tiwari, Ashwini	2006	RBSA
3	The Evaluation of Research by Scientometrics Indicators	Vinkler, Peter	2010	Chandos.
4	Topic modeling in scientometrics.	Bergmann, C	2023	Shekharhb
5	Best practices in bibliometrics & bibliometric services	Deinzer, G., Gorraiz, J. I., Bellis, N. D., & Repiso, R.	2022	Frontiers Media SA
6	Scientific information systems and principles of selectivity	W. Goffman and K. S. Warren	1980	Praeger
7	Citation analysis and dynamics of citation networks	Golosovsky, M	2019	Springer
8	The new metrics: Practical assessment of research impact.	Lasda, E. M	2022	Emerald Publishing Limited
9	Predicting the dynamics research impact	Manolopoulos, Y.	2021	Springer International Publishing AG
10	Applied evaluative informetrics. Berlin:	Moed, H. F	2017	Springer International Publishing
11	Altmetrics for digital libraries: Concepts, applications, evaluation and recommendations	Nuredini, K.	2021	Logos Verlag Berlin
12	Informetrics: Theory, methods and applications	Oiu, J., Zhao, R., Yang, S., & Dong, K.	2017	Springer
13	Measuring research: What everyone needs to know	Sugimoto, C. R., & Larivière, V.	2018	Oxford University Press
14	Introduction to webometrics: Quantitative web research for the social sciences.	Thelwall, M	2022	Springer International Publishing
15	Demystifying scholarly metrics: A practical guide.	Vinyard,M. W., &Colvin, J. B	2022	Libraries Unlimited.
16	The science of science.	Wang, D., & Barabási, A. L.	2021	Cambridge University Press

- **Online Resources (Open Source)**

Sr. No.	Description of Resource(s)	Weblink
1	Google Scholar Database	https://scholar.google.com/
2	Scopus (Licensed Version) Database	https://www.scopus.com/pa es
3	Web of Science (Licensed Version) Database	https://mjl.clarivate.com/ https://webofscience.com
4	Dimension Database	https://www.dimensions.ai/

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Semester- I / III

Course Type	Course Code	Course Title	Teaching-Learning Scheme	Total Notional Hours	Course credits
			L-P-T		
DSE	**PA01PTELIB63/ PA03PTELIB63**	Academic Library System	4-0-1	**120**	04

- **Course Learning Outcomes (CLOs)**

On completion of this course, students will be able to:

CLO1: Explore the development of academic libraries and UGC's role.

CLO2: Explain university library structure and librarian responsibilities

CLO3: Apply collection development and weeding policies.

CLO4: Utilize resource sharing programs like INFLIBNET and consortia.

CLO5: Manage library finances and budgeting effectively.

Unit	Course Content	Learning Pedagogies*	CLO(s)
I	**Evolution and Policy Framework of Academic Libraries** • Pre- and post-independence development of academic libraries • Key committees, commissions, and government interventions • Role of UGC and National Education Policy (NEP 2020) in library development • UGC and distance/open education initiatives	Classroom Lecture ICT-Enabled Learning Self-Directed Learning	CLO1
II	**University Libraries: Functions and Governance** • Functions of universities and their libraries in the knowledge ecosystem • Library Committee: structure, powers, and decision-making roles • Status, responsibilities, and evolving role of the librarian in modern academic libraries	Seminars Collaborative Learning Reflective Practices	CLO2
III	**Collection Development and Management in Modern Libraries** • Meaning, need, purpose, and policy ofcollection development • Selection, acquisition, and weeding procedures for print and digital resources • Integrating open educational resources (OER) and e-resources	Case-Based Learning Micro-Projects/Mini Research Tasks Experiential Learning	CLO3

IV	**Introduction to Resource Sharing and Library Finance** **Resource Sharing Programs** • Concept and Definition, Historical Perspective • INFLIBNET and various consortia (DELNET, N-LIST, UGC-INFONET) • Digital resource sharing, ICT-enabled access. **Library Finance and Budgeting** • Importance, sources, and principles of library expenditure • Outsourcing services, cost-effective management	Industrial Visit/Field Visit/Institutional Visit ICT-Enabled Learning Collaborative Learning	CLO4 CLO5

- **Assessment Methodologies**

(A) Internal Assessment

a. Internal Formative assessment (25 Marks)

(a) Attendance
(b) Assignment
(c) Seminar/Presentation

b. Internal Summative Assessment (25 Marks)

(a) Mid-Term Examination

(B) Weightage of Learning Efforts for External Assessment

Unit	Aligned COs	Total Learning Hours	Approximate weightage (Marks) to Learning levels (BT)			Total Marks
			Remember (R)	Understanding (U)	Application/ Analyse & above (A)	
I	CLO1	30	1	**2**	11	14
II	CLO2	32	1	**2**	**09**	12
III	CLO3	28	1	**2**	**09**	12
IV	CLO4 CLO5	30	1	**2**	**09**	12
		120	**04**	**08**	**38**	**50**

- **Assessment and Evaluation**

Sr. No.	Assessment/Evaluation	Component	Weightage (%)
1	Continuous Internal Evaluation	Seminars, Assignments, Attendance, Mid-Term Examination	50%
2	End-Semester Examination	Written Exam	50%

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(C) CLOs – PLOs Matrix

CLO	PLO											
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11	PLO 12
CLO 1	3	-	2	-	1	-	-	-	-	1	2	1
CLO 2	3	1	2	1	-	-	-	-	-	1	3	2
CLO 3	2	2	3	1	-	-	-	1	2	3	3	2
CLO 4	2	1	2	3	2	2	-	-	1	2	2	2
CLO 5	2	-	2	1	-	-	1	1	1	2	3	3

Values to **CLO-PLO** matrix are assigned **by judging the importance of the particular CLO** in relation to the **PLOs**.

CLO – PLO correlation	Value
Strong	3
Moderate	2
Low	1
No correlation	-

- **Suggested Learning Materials Books:**

Sr. No.	Title	Author(s)	Edition/Year	Publisher
1	Academic Libraries: Research Perspectives	Mary K. Bolin	1st Edition/2010	ALA (American Library Association)
2	University Libraries and Digital Learning Environments	Kay Johnson, Elaine H.	1st Edition/2012	Chandos Publishing
3	Collection Development in the Digital Age	Maggie Fieldhouse, Audrey Marshall	2nd Edition/2012	Facet Publishing
4	Academic Library Management: Case Studies	Eleanor Mitchell, Peggy Seiden	1st Edition/2013	ACRL (Association of College and Research Libraries)

5	Library and Information Center Management	Robert D. Stueart, Barbara B. Moran	8th Edition/2012	Libraries Unlimited
6	Developing Library Collections	Peggy Johnson	2nd Edition/2009	ALA Editions
7	Resource Sharing in Libraries: Concepts and Practices	Allen Kent, Harold Lancour	1st Edition/1974	Marcel Dekker
8	Digital Library Economics: Academic Library Finance and Budgeting	David Baker, Wendy Evans	1st Edition/2009	Chandos Publishing
9	Academic Libraries and the Internet: Past, Present and Future	David Baker	1st Edition/2006	Chandos Publishing
10	Management of Library and Information Centers	S. R. Ranganathan	2nd Edition/1965	Sarada Ranganathan Endowment for Library Science
11	Academic Library System **(Hindi Book)**	R. L. Sehrawat	First Edition / 2013	Hindi Granth Academy
12	University Library Management **(Hindi Book)**	K. C. Gautam	First Edition / 2015	University Publications
13	Library and Information Centre Management **(Hindi Book)**	N. N. Singh	First Edition / 2012	S. S. Publication
14	Academic Library Activities **(Gujarati Book)**	J. C. Makwana	First Edition / 2019	A.S. F. Computer
15	Academic Library Management **(Gujarati Book)**	**D. K. Desai**	**First Edition / 2018**	**Navbharat Sahitya Mandir**

- **Online Resources (Open Source)**

Sr. No.	Description of Resource(s)	Weblink
1	EPGPathshala INFLIBNET Study Material	https://epgp.inflibnet.ac.in/
2	EGyanKosh Indira Gandhi National Open University Study Material	http://egyankosh.ac.in/
3	National Digital Library Study Material	https://ndl.iitkgp.ac.in/
4	Vardhman Mahavir Open University Kota Study Material	https://www.vmou.ac.in/slm
5	Dr. Babasaheb Ambedkar Open University Study Material	https://baou.edu.in/syllabus-slm-e-books
6	National Institute of Open Schooling (NIOS) Study Material	https://nios.ac.in/online-course-material/sr-secondary-courses/library-and-information-science.aspx
7	NPTEL SWAYAM Platform	https://nptel.ac.in/
8	YouTube Channel	LIS Academy
9	YouTube Channel	UGC NET LIS Tutorials

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Semester- I / III

Course Type	Course Code	Course Title	Teaching-Learning Scheme	Total Notional Hours	Course credits
			L-P-T		
DSE	**PA01PTELIB64/ PA03PTELIB64**	Corporate Library System	4-0-1	**120**	04

- **Course Learning Outcomes (CLOs)**

On completion of this course, students will be able to:

CLO1: Explain the concept, nature, functions, and types of corporate libraries and information centres, and analyze the diverse information needs of corporate users.

CLO2: Design and evaluate effective collection development policies and implement advanced information searching and access strategies in corporate environments.

CLO3: Apply web-based technologies and emerging paradigms (Library 2.0/4.0, Industry 4.0, and social media tools) to deliver innovative information services in corporate settings.

CLO4: Develop and deliver value-added information products through analysis, consolidation, packaging, and dissemination tailored to organizational needs.

CLO5: Demonstrate skills in corporate communication and knowledge management by preparing newsletters, reports, and organizing professional events for information sharing.

Unit	Course Content	Learning Pedagogies*	CLO(s)
I	**Introduction** • Definition, Need, Nature and Functions of corporate Libraries and Information centres. • Learning resources, • Types of corporate Libraries, types of users and their Information need.	Classroom Lecture Seminars Problem-Based Learning Collaborative Learning ICT-Enabled Learning Self-Directed Learning	CLO1
II	**Collection Development** • Objectives and Purpose • Collection development planning, Implementation and evaluation. Use of various search techniques	Classroom Lecture Seminars ICT-Enabled Learning Self-Directed Learning	CLO2

Semester I/III

III	**Web based Information services** • Corporate librarian 2.0 • Library 4.0, Industry 4.0 • Social networks- Blogs, X, Twitters, Face book, Google buzz etc.	Classroom Lecture Seminars Collaborative Learning ICT-Enabled Learning Self-Directed Learning	CLO3
IV	**Corporate communications systems and tools** • Newsletter. Bulletins, preparing for organizing events • Social talks • Conference • News briefs • Press releases • Editing • Reporting • Knowledge management in corporate Libraries.	Classroom Lecture Seminars Collaborative Learning ICT-Enabled Learning Reflective Practices Self-Directed Learning	CLO4 CLO5

- **Assessment Methodologies**

(A) Internal Assessment

a. Internal Formative assessment (25 Marks)

(a) Attendance
(b) Assignment
(c) Seminar/Presentation

b. Internal Summative Assessment (25 Marks)

(a) Mid-Term Examination

(B) Weightage of Learning Efforts for External Assessment

Unit	Aligned COs	Total Learning Hours	Approximate weightage (Marks) to Learning levels (BT)			Total Marks
			Remember (R)	Understanding (U)	Application/ Analyses & above (A)	
I	CLO1	30	1	**2**	11	14
II	CLO2	32	1	**2**	09	12
III	CLO3	28	1	**2**	09	12
IV	CLO4, CLO5	30	1	**2**	09	12
		120	**04**	**08**	**38**	**50**

- **Assessment and Evaluation** **Semester I / III**

Sr. No.	Assessment/Evaluation	Component	Weightage (%)
1	Continuous Internal Evaluation	Seminars, Assignments, Attendance, Mid-Term Examination	50
2	End-Semester Examination	Written Exam	50

(C) CLOs – PLOs Matrix

CLO	PLO											
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CLO 1	3	–	3	–	–	–	–	–	–	2	1	1
CLO 2	2	3	3	3	2	1	–	–	2	3	2	1
CLO 3	2	–	2	3	3	2	–	–	2	2	1	2
CLO 4	2	–	3	2	1	–	–	–	3	3	2	2
CLO 5	1	–	2	2	1	–	–	–	2	2	3	3

Values to **CLO-PLO** matrix are assigned **by judging the importance of the particular CLO** in relation to the **PLOs**.

CLO – PLO correlation	Value
Strong	3
Moderate	2
Low	1
No correlation	-

- **Suggested Learning Materials Books:**

Sr. No.	Title	Author(s)	Edition/Year	Publisher
1.	Introduction to information processing & retrieval for library and information professionals	Satyanarayana, N.R.;	2016	Ess Ess Publications
2.	Information Retrieval and Preservation in Library Management/	Gokhale, Navjot	2023	Peridot Literary Books
3.	Innovations in Information Retrieval: Perspectives for Theory and Practice/	Foster, Allen	2011	Facet Publishing.

4.	Information retrieval	Sukula, Shiva	2014	Ess Ess Publications
5	Best Practices for Corporate Libraries.	Kelsey, Sigrid e	2011	Libraries Unlimited

- **Online Resources (Open Source)**

Sr. No.	Description of Resource(s)	Weblink
1	IGNOU	http://www.ignou.ac.in
2	Information and Library Network	www.inflibnet.ac.in
3	Developing Library Network	http://www.delnet.org
4	egyankosh	www.egyankosh.ac.in
5	National Digital Library	http://ndl.iitkgp.ac.in

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With effect from Academic Year 2026-27

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Semester- I / III

Course Type	Course Code	Course Title	Teaching-Learning Scheme	Total Notional Hours	Course credits
			L-P-T		
DSS	**PA01PTSLIB61/ PA03PTSLIB61**	Artificial Intelligence and Libraries	2-0-1	60	02

- **Course Learning Outcomes (CLOs)**

On completion of this course, students will be able to:

CLO1: Explain the concept, meaning, scope, and evolution of Artificial Intelligence in Library and Information Science.

CLO2: Describe AI technologies and their applications in library operations and services.

CLO3: Examine the application of AI in cataloguing, classification, information retrieval, digital libraries, and reference services.

CLO4: Analyse ethical, privacy, and professional issues related to AI-driven library environments.

CLO5: Evaluate managerial implications and future trends of Artificial Intelligence in Library and Information Science.

Unit	Course Content	Learning Pedagogies*	CLO(s)
I	**Foundations of Artificial Intelligence in Library & Information Science:** • Introduction to Artificial Intelligence • AI Technology in LIS and Applications in Library Services • AI in Cataloguing and Classification • AI in Information Retrieval and Search Systems • AI Powered Digital Library and Archives • AI in Reference and User services	Classroom Lecture Interactive Discussion ICT-enabled Teaching Collaborative Learning	**CLO1, CLO2, CLO3**
II	**Ethical, Managerial and Future Perspectives:** • Ethical and Privacy Concerns in AI-Driven Libraries • AI in Library Management and Decision - Making • The Future of AI in Library and Information Science	Classroom Lecture Inquiry-Based Learning	**CLO4, CLO5**

- **Assessment Methodologies**

(A) Internal Assessment (25 Marks)

a. Internal Formative assessment

(a) Attendance
(b) Assignment
(c) Seminar/Presentation

a. Internal Summative Assessment

(a) Mid-Term Examination

(B) Weightage of Learning Efforts for External Assessment

Unit	Aligned Cos	Total Learning Hours	Approximate weightage (Marks) to Learning levels (BT)			Total Marks
			Remember (R)	Understanding (U)	Application/ Analyse & above (A)	
I	**CLO1, CLO2, CLO3**	40	1	5	9	15
II	**CLO4, CLO5**	20	1	4	5	10
		60	**02**	**09**	**14**	**25**

- **Assessment and Evaluation**

Sr. No.	Assessment/Evaluation	Component	Weightage (%)
1	Internal Evaluation	Seminars, Assignments, Attendance, Mid-Term examination	50%
2	End-Semester Examination	Written Exam	50%

(C) CLOs – PLOs Matrix

CLO	PLO											
	PLO 1	**PLO 2**	**PLO 3**	**PLO 4**	**PLO 5**	**PLO 6**	**PLO 7**	**PLO 8**	**PLO 9**	**PLO 10**	**PLO 11**	**PLO 12**
CLO1	3	-	2	-	-	-	-	-	-	-	1	-
CLO2	2	3	-	2	-	2	-	-	-	1	-	-
CLO3	2	-	3	-	2	-	1	2	-	2	-	-
CLO4	-	-	-	2	-	-	-	-	-	2	3	1
CLO5	1	-	2	3	2	3	-	-	2	-	2	2

Values to **CLO-PLO** matrix are assigned **by judging the importance of the particular CLO** in relation to the **PLOs**.

CLO – PLO correlation	Value
Strong	3
Moderate	2
Low	1
No correlation	-

- **Suggested Learning Materials Books:**

Sr. No.	Title	Author(s)	Edition/Year	Publisher
1	AI and Future of Library Science: Innovations and Applications	Joshi Yougal and et al.	1st / 2025	Indu Book Services
2	Artificial Intelligence for Academic Libraries	Clifford B. Anderson; Douglas H. Fisher	1st / 2026	Routledge
3	Artificial Intelligence for Libraries	Brady D. Lund	1st / 2026	Bloomsbury Libraries Unlimited
4	Machine Learning for Librarians	Nathaniel Torres	2025	EdTech Press
5	Generative AI and Libraries: Claiming Our Place in the Center of a Shared Future	Michael Hanegan; Chris Rosser	2025	ALA Editions / Core
6	AI and Information Access: Benefits, Challenges and Lessons	G. G. Chowdhury; Sudatta Chowdhury	2025	Facet Publishing
7	Leveraging AI in School Libraries: From Basics to Best Practices	Delandrus Lenet Ieashea Seales	2025	ALA Editions
8	Creating Generative AI Policies: A Guide for Public and Academic Libraries	Robin Hastings	2026	ALA Editions
9	Law Librarianship in the Age of AI	Ellyssa Kroski	2019	ALA Editions
10	The AI and Data Revolution: Understanding the New Data Landscape	Martin De Saulles	2025	Facet Publishing
11	AI-Powered Cataloguing: A Practical Guide to Building a Cataloguing Application with Power Apps	Hannes Lowagie	2025	Facet Publishing
12	Krutrim Budthematam Ane Mahiti Vigyan	Dr. K. D. Patel	1st Addition / 2021	University Granth Nirman Board
13	Pustkalaya Ane Mahiti Vigyan Ma Mahiti Technology	Dr. Hitesh Patel	1st Addition / 2019	Atul Prakashan

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- **Online Resources (Open Source)**

Sr.No.	Description of Resource(s)	Weblink
1	UNESCO Recommendation on Open Educational Resources (OER) – official normative framework useful for discussing open knowledge ecosystems, ethics, access, and AI-enabled educational environments.	https://www.unesco.org/en/legal-affairs/recommendation-open-educational-resources-oer
2	UNESCO Open Educational Resources portal – policy and implementation resources connecting OER, digital learning, and emerging technologies.	https://www.unesco.org/en/open-educational-resources
3	IFLA Artificial Intelligence Special Interest Group – current professional discussions, events, and community resources on AI in libraries.	https://www.ifla.org/units/ai/
4	OCLC AI for Libraries – practical examples of AI use in metadata, discovery, and library workflows.	https://www.oclc.org/en/artificial-intelligence.html
5	OCLC Research report: Responsible Operations: Data Science, Machine Learning, and AI in Libraries – foundational open report on responsible AI adoption in the library domain.	https://www.oclc.org/content/dam/research/publications/2019/oclcresearch-responsible-operations-data-science-machine-learning-ai.pdf
6	ACRL AI Competencies for Academic Library Workers – competency framework for AI literacy, evaluation, ethics, and responsible institutional use.	https://www.ala.org/acrl/standards/ai
7	ARL Research Libraries Guiding Principles for Artificial Intelligence – policy-oriented resource for ethics, transparency, and trust in AI adoption.	https://www.arl.org/resources/research-libraries-guiding-principles-for-artificial-intelligence/
8	LIBER AI & Machine Learning in Libraries guide – openly available orientation guide for AI/ML concepts, examples, and library use cases.	https://libereurope.github.io/ds-topic-guides/ai-ml.html
9	Google Machine Learning Crash Course – open foundational learning resource for core AI/ML concepts, evaluation, and fairness.	https://developers.google.com/machine-learning/crash-course
10	Elements of AI – free beginner-friendly course for foundational AI literacy suitable for LIS learners and faculty.	https://www.elementsofai.com