



University Of Kerala

**Four Year Under Graduate Programme
(UoK FYUGP)**

Syllabus

Major Discipline

Library and Information Science

May 2024

About the Discipline

Library and Information Science is a multidisciplinary field that focuses on the organization, management, and dissemination of information resources. Professionals in this field work in libraries, archives, museums, and other information institutions to help users access and utilize information effectively. They are trained in various aspects of information organization, retrieval, and preservation, as well as in the use of technology to enhance information services. Library and Information Science plays a crucial role in promoting literacy, education, and access to information for all individuals, making it an essential discipline in today's digital age. The application of Library and Information Science is vast and diverse, encompassing a wide range of fields and industries.

Graduate Attributes

Graduate attributes bridge the gap between academia and the real world, fostering lifelong learning and meaningful contributions. They denote the skills, competencies, and high-level qualities that a student should acquire during their university education. Apart from gathering content knowledge, these attributes go beyond the assimilation of information to its application in various contexts throughout a graduate's life. It aims to inculcate the art of critical thinking, problem-solving, professionalism, leadership readiness, teamwork, communication skills, and intellectual breadth of knowledge. The University of Kerala envisages to pave the path of guiding the student's journey to shape these attributes uniquely, making them integral to personal growth and success in various spheres of life. The University strives to ensure that these graduate attributes are not just checkboxes, but play a pivotal role in shaping the students into capable, compassionate, and responsible individuals with a high degree of social responsibility.

Programme Outcomes

No.	Program Outcomes (POs)
PO-1	Critical thinking - analyze information objectively and make a reasoned judgment - draw reasonable conclusions from a set of information, and discriminate between useful and less useful details to solve problems or make decisions - identify logical flaws in the arguments of others - evaluate data, facts, observable phenomena, and research findings to draw valid and relevant results that are domain-specific
PO-2	Complex problem-solving - solve different kinds of problems in familiar and no-familiar contexts and apply the learning to real-life situations - analyze a problem, generate and implement a solution and to assess the success of the plan

	understand how the solution will affect both the people involved and the surrounding environment
PO-3	Creativity - produce or develop original work, theories, and techniques - think in multiple ways to make connections between seemingly unrelated concepts or phenomena - add a unique perspective or improve existing ideas or solutions - generate, develop, and express original ideas that are useful or have values
PO-4	Communication skills - convey or share ideas or feelings effectively - use words in delivering the intended message with utmost clarity - engage the audience effectively - be a good listener who can understand, respond, and empathize with the speaker - confidently share views and express himself/herself
PO-5	Leadership qualities - work effectively and lead respectfully with diverse teams - build a team working towards a common goal - motivate a group of people and make them achieve the best possible solution. - help and support others in their difficult times to tide over the adverse situations with courage
PO-6	Learning ‘how to learn’ skills - acquire new knowledge and skills, including ‘learning how to learn skills, that are necessary for pursuing learning activities throughout life, through self-paced and self-directed learning - work independently, identify appropriate resources required for further learning - acquire organizational skills and time management to set self-defined goals and targets with timelines - inculcate a healthy attitude to be a lifelong learner
PO-7	Digital and technological skills - use ICT in a variety of learning and work situations, access, evaluate, and use a variety of relevant information sources - use appropriate software for analysis of data - understand the pitfalls in the digital world and keep safe from them
PO-8	Value inculcation - embrace and practice constitutional, humanistic, ethical, and moral values in life including universal human values of truth, righteous conduct, peace, love, nonviolence, scientific temper, citizenship values - formulate a position/argument about an ethical issue from multiple perspectives - identify ethical issues related to work, and follow ethical practices, including avoiding unethical behaviour such as fabrication, falsification or misrepresentation of data, or committing plagiarism, and adhering to intellectual property rights - adopt an objective, unbiased, and truthful actions in all aspects of work

No	Programme Specific Outcome(PSO)
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PSO-1	• identify, select, and provide access to information in a variety of format
PSO-2	• identify the needs of particular user groups and develop collections, services, programs, and policies to meet these needs
PSO-3	• apply a wide range of electronic resources and techniques for effective information retrieval
PSO-4	• analyze relevant information resources and published research to form valid and well-grounded conclusions
PSO-5	• apply appropriate research methodologies to issues and professional concerns in LIS
PSO-6	• conceptualize, employ, evaluate, and utilize appropriate technologies in library and information-related applications
PSO-7	• awareness of contemporary issues in the information workplace, a commitment to professional values, standards, and ethics;

Semester I

1. Multi-Disciplinary Course (MDC) - Digital Resources and e-Learning Tools

Semester 2

2. Multi-Disciplinary Course (MDC) – Basics of Digital Librarianship



University of Kerala

Discipline	Library and Information Science				
Course Code	UK1LISMDC100				
Course Title	Digital Resources and e-Learning Tools				
Type of Course	MDC1				
Semester	I				
Academic Level	100 - 199				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	3	1	2		3
Pre-requisites	Basic Digital Skills				
Course Summary	This course will help you to acquire knowledge and enhance the use of digital learning tools and platforms for various learning situations, opening up career opportunities in Library and Information Science. Explore Information, Knowledge, and Society. Learn about the characteristics of data, information, knowledge, wisdom, and the knowledge economy. Understand the information transfer cycle and the role of libraries. Discover artificial intelligence in academia and evaluate information sources, including combating misinformation and utilizing e-learning platforms.				

Detailed Syllabus:

Module	Unit	Content	Hrs
I	Information, Knowledge, and Society		15
	1.1	Information: Characteristics - Data, Information, Knowledge, Wisdom; Knowledge Society, Knowledge economy.	4
	1.2	Information Transfer Cycle: Generation, Storage, and Dissemination of information.	4
	1.3	Information explosion. Knowledge organization and the role of libraries.	4
	1.4	Artificial intelligence in the information domain/academic	3
II	Information Resources		15

	2.1	Documentary sources: Primary, Secondary, and Tertiary sources of information.	4
	2.2	Reference sources: Dictionary, Thesaurus, Encyclopaedia, Biographical, Geographical and Statistical sources of information.	4
	2.3	Major Databases: general and subject-specific	4
	2.4	Evaluation of Information - Misinformation, Disinformation, Fake news identification and precautions. Fact-checking in media.	3
III	E-learning: Sources and Platforms		15
	3.1	E-journals, E-books, ETDs, Subject Gateways, Open Access Journals, Open Access Books, Databases, MOOCs, Open Access & Instruction, Repositories,	3
	3.2	Learning Management Systems (LMS), AI tools for E-Learning	3
	3.3	E-learning Platforms- SWAYAM, NPTEL, Coursera, EdX, LinkedIn Learning, SkillShare, Google Workplace for Education; Blackboard.	3
	3.4	DOAJ, DOAB, , National Digital Library of India(NDLI), Google Scholar	3
	3.5	Databases- Web of Science, SCOPUS, Science Direct. Digital Libraries; JSTOR, PUBMED Central, Shodhganga, e-PG Pathshala, Vidhyamitra, N- LIST	3

Course Outcomes			
No	Upon completion of the course, the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Gain insight into the role of data, information, knowledge, and wisdom in shaping modern societies and economies.	U	1,2
CO-2	Distinguish between primary, secondary, and tertiary information sources, employing various references, databases, and digital tools for academic research	R, U	1,2,3
CO-3	Critically evaluate information, discerning and addressing misinformation, disinformation, and fake news through fact-checking	E	7
CO-4	Explore e-learning avenues such as e-journals, e-books, and digital libraries, while understanding the significance of MOOCs and institutional repositories	Ap	1,2,4
CO-5	Acquire practical proficiency in leveraging digital resources for academic and research,	C, An	1,2,3

R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create

Name of the Course: Digital Resources and e-Learning Tools, Credits: 3:0:0

(Lecture:Tutorial: Practical)

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/ Tutorial (T)	Practical (P)
1	Gain insight into the role of data, information, knowledge, and wisdom in shaping modern societies and economies.	PSO 1,2 PO 1,5	U	F, C	L,T	
2	Distinguish between primary, secondary, and tertiary information sources, employing various references, databases, and digital tools for academic research.	PSO 1,2,3 P O 1,6,7,	R,U	F,C,P,M	L,T	
3	Critically evaluate information, discerning and addressing misinformation, disinformation, and fake news through fact-checking	PSO 7 P O 1, 4,6,7	E	F,C,M	L,T	
4	Explore e-learning avenues such as e-	PSO 1,2,4,6	Ap	C,P,M	L,T	

	journals, e-books, and digital libraries, while understanding the significance of MOOCs and institutional repositories	P O 6,7				
5	Acquire practical proficiency in leveraging digital resources for academic and research,	PSO 1,3,4,6 P O 1,6,7	C,An	P,M	L,T,	

F-Factual, C- Conceptual, P-Procedural, M-Metacognitive

Mapping of COs with PSOs and POs :

CO NO	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	PSO 7	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	-	-	-	-	-	3	2	1	3	3	3	3	3
CO 2	3	3	3	-	-		-	3	2	2	2	1	3	3	-
CO 3	-	-	-	-	-		3	3	2	3	4	2	3	3	3
CO 4	3	3	-	3	-	3	3	3	3	3	3	2	3	3	3
CO 5	3	-	3	3	-	3	-	3	-	-	-	3	3	3	-

Correlation Levels:

Level	Correlation
-	Nil
1	Slightly / Low

2	Moderate / Medium
3	Substantial / High

Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Assignments
- Final Exam

Mapping of COs to Assessment Rubrics :

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓	✓		✓
CO 2	✓	✓		✓
CO 3	✓	✓		✓
CO 4		✓		✓
CO 5		✓		✓

Learning Resources

1. Aberdour, M. (2013). *Moodle for Mobile Learning*. Packt Publishing.
2. Barman, B. (2011). *Library and Information Services: Course Material for Diploma in Library and Information Science Programme of Krishna Kanta Handiqui State Open University*. Krishna Kanta Handiqui State Open University.
3. Bawden, D., & Robinson, L. (2022). *Introduction to Information Science*. Facet Publishing.
4. Chandra, A., & Khanijo, M. (2024). *Knowledge Economy: The Indian Challenge*.
5. Evans, W., & Baker, D. (2011). *Libraries and Society: Role, Responsibility and Future in an Age of Change*. Elsevier Science.
6. Gupta, P. K., & Das, T. (2010). *Modern Trends in Library and Information Science*. Scientific

Publishers.

7. Holmes, B., & Gardner, J. (2024). *e-Learning: Concepts and Practice*.
8. Kaushik, A. (2018). *Library and Information Science in the Age of MOOCs*. IGI Global.
9. Secker, J. (2004). *Electronic Resources in the Virtual Learning Environment: A Guide for Librarians*. Elsevier Science.
10. Steels, L., & Tokoro, M. (Eds.). (2003). *Future of learning : Issues and prospects*. IOS Press, Incorporated.
- 11 <https://www.openaccess.nl>
- 12 [National Digital Library of India \(NDLI\)](#)
- 13 [Google Scholar](#)
- 14 [open-access web of science](#)
- 15 [Scopus preview - Scopus - Welcome to Scopus](#)
- 16 [Researcher tools and databases | Elsevier](#)
- 17 [INFLIBNET Centre Gandhinagar](#)
- 18 [NMEICT | National Mission on Education through Information and Communication Technology](#)

Note: Course Instructors: Librarian(UGC) of affiliated /autonomous colleges (NET/PhD) or UGC-qualified persons



University of Kerala

Discipline	Library and Information Science				
Course Code	UK2LISMDC100				
Course Title	Basics of Digital Librarianship				
Type of Course	MDC2				
Semester	II				
Academic Level	100-199				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	3	1	2	-	3
Pre-requisites	Basic Digital Skills				
Course Summary	Explore library management fundamentals, digital preservation, and research support in the Digital Librarianship course. Acquire knowledge in library automation, digital library design, and information organization. Additionally, familiarize yourself with essential software tools like D-Space, KOHA, Zotero, and Mendeley to enhance skills in collection curation and research assistance, paving the way for diverse career paths.				

Detailed Syllabus:

Module	Unit	Content	Hrs
I		Digital Libraries and Library Automation Fundamentals	15
	1.1	Libraries and their role in Knowledge Organization, Types of Libraries	5
	1.2	Digital library: definition, scope, and characteristics.	2
	1.3	Design and organization of digital libraries - architecture, interoperability, and compatibility	5
	1.4	User interfaces, protocols, and standards	3
II		Development of Digital Libraries	10
	2.1	Development of – prerequisites; content development; Digitization-scanning, OCR, and conversion to PDF.	3
	2.2	Metadata development, Digital preservation, and conservation - archiving, security and preservation issues	2
	2.3	Network platforms and server management; IPR	2

	2.4	Digital Library Software, Open-source software – D-Space.	3
III	Research Support Service		5
	3.1	How to prepare assignments, articles, project proposals, and reports. Style manuals and referencing.	2
	3.2	Style manuals and referencing	1
	3.3	How to write a research proposal.	2
IV	Library and Reference Software Essentials		15
	4.1	Library Management Software: KOHA	6
	4.2	Digital Library Software: D-space	6
	4.3	Reference Management Software, Zotero, Mendeley	3

Course Outcomes

	Upon completion of the course, the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Attain a basic understanding of digital libraries their design, and organization	U	1, 5
CO-2	Apply principles of digital library creation, including digitization and metadata development	R, U	1,6
CO-3	Implement digital preservation and conservation techniques for digital content	A	2
CO-4	Utilize network platforms and digital library software, particularly D-Space, for managing digital collections	An	1, 5
CO-5	Develop academic content effectively, including assignments, articles, and project proposals, using appropriate referencing styles and software like Zotero and Mendeley	E,C	5

R-Remember, U-Understand, Ap-Appl, An-Analyse, E-Evaluate, C-Create

Name of the Course: Basics of Digital Librarianship; Credits: 3
(Lecture:Tutorial: Practical)

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/ Tutorial(T)	Practical (P)
CO-1	Demonstrate a basic understanding of digital libraries, their design, and organization	PSO 1,5 PO 1,2,3,6,7,8	U	F, C	L,T	
CO-2	Apply principles of digital library creation, including digitization and metadata development	PSO 1,6 P O 1,2,3,5,7,8	U,R	F,C,P	L, T	
CO-3	Implement digital preservation and conservation techniques for digital content	PSO 2 PO 6,7	Ap	C,P,M	L,T	
CO-4	Utilize network platforms and digital library software, particularly D-Space, for managing digital collections	PSO 1,5 PO 1,2,4,6,7,8	An	F,C,P	L, T	
CO-5	Develop academic content effectively, including assignments, articles, and project proposals, using appropriate referencing styles and software like Zotero and Mendeley	PSO 5 PO1,2,3,4,6,7,8	E,C	C,P,M		

Mapping of CO with PSO and PO`s

CO	PSO 1	PSO2	PSO3	PSO4	PSO5	PSO 6	PSO 7	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO-1	3	3	3	2	1	3	1	1	2	1	3	2	3	3	3
CO 2	2	3	2	3	2	3	2	2	2	1	3	3	3	3	3
CO 3	3	2	3	3	2	3	3	2	3	3	3	3	3	3	3
CO 4	3	2	3	3	2-	3	3	3	3	2	4	-	3	3	3
CO 5	3	-	3	3	5	3	3	3	2	-	-	-	3	3	3

Correlation Levels:

Level	Correlation
-	Nil
1	Slightly / Low
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Assessment Rubrics:

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Mapping of COs to Assessment Rubrics :

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓	✓		✓
CO 3	✓	✓		✓
CO 4	✓	✓		✓
CO 5	✓	✓		✓

Learning Resources

1. Abdullahi, I., Karisddappa, C. R., & Asundi, A. Y. (2014). *LIS Education in Developing Countries: The Road Ahead*. De Gruyter.
2. Aberdour, M. (2013). *Moodle for Mobile Learning*. Packt Publishing.
3. Bottomley, J., Prymachuk, S., & Waugh, D. (2018). *Academic Writing and Referencing for Your Education Degree*. Critical Publishing Limited.
4. Evans, W., & Baker, D. (2011). *Libraries and Society: Role, Responsibility and Future in an Age of Change*. Elsevier Science.
5. Gupta, P. K., & Das, T. (2010). *Modern Trends in Library and Information Science*. Scientific Publishers.
6. Johnson, A. P. (2016). *Academic Writing: Process and Product*. Rowman & Littlefield Publishers
7. Mackenzie, A., & Martin, L. (2016a). *Developing Digital Scholarship: Emerging practices in academic libraries*. Facet Publishing.
8. Mackenzie, A., & Martin, L. (2016b). *Developing Digital Scholarship: Emerging practices in academic libraries*. Facet Publishing.
9. McGuinness, C. (2021). *The academic teaching librarian's*

handbook. FacetPublishing

10. Naik, P. G., & Naik, G. R. (n.d.). *Creating and Managing Institutional Repository Using DSpace: A Case Study Approach*. Educreation Publishing.
11. Sharma, A. K. (2019). *Koha for Beginners*. Willford Press.
12. Sharma, R. N., & Headquarters, I. (2012). *Libraries in the early 21st century, volume 2: An international perspective*. De Gruyter.
13. SpringerLink (Online service), Earnshaw, R., & Vince, J. (2008). *Digital Convergence - Libraries of the Future* (1st ed. 2008.). London: Springer London : Imprint: Springer
14. NMEICT | National Mission on Education through Information and Communication Technology
15. [www.INFLIBNET](http://www.INFLIBNET.ac.in) .ac.in
16. <https://www.dspace.com/en/inc/home.cfm>
17. <https://www.zotero.org>
18. <https://www.mendeley.com>

Note: Course Instructors: Librarian(UGC) of affiliated /autonomous colleges (NET/PhD) or UGC-qualified persons.