File Ref.No.14361/GA - IV - B1/2013/CU

UNIVERSITY OF CALICUT

Abstract

General and Academic IV-Faculty of Humanities - Syllabus of the Multi Disciplinary Courses in Library and Information Science in tune with CUFYUGP regulations 2024 with effect from 2024 admission onwards -Approved - By exercising the powers of the Academic Council -Implemented -Orders issued.

G & A - IV - B

U.O.No. 18102/2024/Admn Dated, Calicut University.P.O, 04.12.2024

Read:-1.U.O.No. 3103/2024/Admn dated 22.02.2024.

2.U.O.No. 10062/2024/Admn dated 26.06.2024.

3.Item No 2 of the minutes of the meeting of the Board of Studies in Library and Information Science held on 13.11.2024.

4.Remarks of the Dean, Faculty of Humanities dated 28.11.2024.

ORDER

1. The Regulations of the Calicut University Four Year UG Programmes (CUFYUGP Regulations 2024) for Affiliated Colleges, was implemented with effect from 2024 admission onwards, vide paper read as (1) above and the same has been modified vide paper read as (2) above.
2. The meeting of the Board of Studies in Library and Information Science SB held on 13.11.2024, vide paper read (3) above, has approved the syllabus of the following Multi Disciplinary Courses in Library and Information Science in tune with CUFYUGP Regulations 2024 w.e.f 2024 admission onwards.

    - LIS1FM105 Information Resources and Learning Platforms
    - LIS2FM106 Library Technologies

3. The Dean Faculty of Humanities, vide paper read (4) above, has approved the above recommendation of the Board of Studies in Library and Information Science held on 13.11.2024.
4. Considering the urgency the Vice Chancellor has approved the item no 2 of the minutes of the meeting of the Board of Studies in Library and Information Science SB held on 13.11.2024, by exercising the powers of the Academic Council conferred under section 10.13 of the Calicut University Act 1975 and accorded sanction to implement the Multi Disciplinary Courses in Library and Information Science w.e.f 2024 admission onwards.
5. The syllabus of the following Multi Disciplinary Courses in Library and Information Science in tune with CUFYUGP Regulations 2024 are therefore implemented w.e.f 2024 admission

onwards.

- LIS1FM105 Information Resources and Learning Platforms
- LIS2FM106 Library Technologies

6. Orders are issued accordingly.(Syllabus appended)

Ajayakumar T.K

Assistant Registrar

To

The Principals of all Affiliated Colleges

Copy to: PS to VC/PA to PVC/ PA to Registrar/PA to CE/JCE I/JCE II/JCE VIII/DoA/EX and EG
Sections/GA I F/CHMK Library/Information Centres, Suvega/SF/DF/FC

Forwarded / By Order

Section Officer

CALICUT UNIVERSITY FOUR-YEAR UNDERGRADUATE PROGRAMME (CUFYUGP)

MULTI-DISCIPLINARY COURSE

Semester 1

LIS1FM105 Information Resources and Learning Platforms

Course Description

This course equips students with essential skills for identifying information resources, evaluating them, and ethically use information to achieve academic and research objectives. Emphasizing the critical role of library and information literacy in modern academia, the course addresses the evolving needs of information seekers.

Programme	**Library and Information Science**				
Course Code	**LIS1FM105**				
Course Title	**Information Resources and Learning Platforms**				
Type of Course	Multi-Disciplinary Course				
Semester	1				
Academic Level	**100-199**				
Course Details	**Credit**	**Lecture per week**	**Tutorial per week**	**Practical per week**	**Total Hours**
	3	3	Nil	-	45

Learning Approach (Hours/ Week)			**Mark Distribution**			**Distribution of ESE (Hours)**
Lecture	**Practical**	**Tutorial**	**CE**	**ESE**	**Total**	
45 Hours	-	-	25	50	75	**3**

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Explain key concepts related to libraries and the process of information management	U	C	Written Exam, Assignment
CO2	To give an understanding of the core functions of library operations like classification, cataloguing and to know the different access points of information.	An	P	Practical Tests, Assignment
CO3	Identify and locate appropriate information sources such as books, journals, and e-resources for academic work.	E	P	Case Studies, Group
CO4	Determine credibility, relevance, and suitability of information sources using criteria such as authority, currency, audience, etc.	Ap	P	Practical Tests, Case study
CO5	To provide an awareness about different e-learning platforms and academically useful databases.	Ap	P	Practical Tests

***Remember(R),Understand(U),Apply(Ap),Analyse(An),Evaluate(E), Create (C)**

 # Factual Knowledge (F) Conceptual Knowledge (C) Procedural Knowledge (P) Meta cognitive Knowledge (M)

Syllabus of Multi-Disciplinary Course

LIS1FM105 Information Resources and Learning Platforms

Module	Unit	Content	Hrs 45	Marks 50
Module -1	**Information and Society**			10
	1.1	Data, Information, Knowledge, Wisdom Knowledge Society, Knowledge Economy Need for Knowledge Organization	2	
	1.2	Data in the contemporary society Big Data, Open Data, Open Access, Open Science	2	
	1.3	Information Transfer Cycle and Generation	1	
	1.4	Information Storage and Retrieval	2	
	1.5	Information Search Techniques	2	
		Total	**9**	
Module -II	**Knowledge Organization**			15
	2.1	Library: conceptual change Types of libraries: their distinguishing features and functions	2	
	2.2	Library Classification: Concept, definition, need and functions. Different Classification schemes.	2	
	2.3	Knowledge organization in DDC Class Number, Book Number, Collection Number and Call Number.	2	
	2.4	Shelf Arrangement	1	
	2.5	Library Catalogue: Concept, definition and functions, OPAC, Web-OPAC	2	
		Total	**9**	
Module -III	**Information Resources**			15
	3.1	Documentary Sources Primary, Secondary and Tertiary sources	1	
	3.2	Reference Sources: Dictionary, Thesaurus, Encyclopedia, Yearbook, Biographical, Geographical and Statistical Sources	2	

	3.3	E-resources: E-books, E-journals, Databases, ETDs, E-zines; Subject gateways	2	
	3.4	Non Documentary sources	1	
	3.5	Evaluation of Information Sources Misinformation, Disinformation, Fake news Identification and precautions; Fact checking in media.	2	
		Total	**8**	
Module -IV	**E-Learning Platforms**			10
	4.1	Learning Management Systems: Moodle	2	
	4.2	E-Learning platforms: SWAYAM, NPTEL, Coursera, EDX, e-PGPathshala.	2	
	4.3	Databases: Scopus, Web of Science, PubMed, ERIC, JSTOR.	2	
	4.4	INFLIBNET Services: N-LIST, Shodhganga, Shodhgangothri, E-ShodhSindhu	2	
	4.5	National Digital Library of India (NDLI)	1	
		Total	**9**	
	Open Ended Module			
Module - V		Explore to the scope to practical applications of the information resources and other applications	10	

References

1. Baker, D., & Evans, W. (2011). Libraries and society: role, responsibility and future in an age of change. Chandos Publishing.
2. Bates, A. W. & Poole, G. (2003). Effective teaching with technology in higher education: Foundations for success. Indianapolis, IN: Jossey-Bass.
3. Bawden, David and Robinson, Lyn. (2012) Introduction to Information Science. London: Facet Publishing
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8. Ranganathan, S. R. (2006). Prolegomena to library classification. Sarada Ranganathan Endowment.
9. Roblyer, M.D. (2006). Integrating educational technology into teaching. (4th ed.). Upper Saddle River, NJ: Pearson Education, Merrill.
10. Satija, M. P. (2013). The theory and practice of the Dewey Decimal Classification system. Chandos Publication.

Mapping of COs with PSO and POs:

	PSO1	PSO2	PSO3	PSO4	PSO5	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1						3	-	1	-	-	-	2
CO 2						2	-	2	1	-	-	3
CO 3						-	-	2	-	1	3	3
CO 4						-	-	2	-	-	-	2
CO5						1	-	1	3	-	-	3

Correlation Levels:

Level	Correlation
-	Nil
1	Slightly/Low
2	Moderate/Medium
3	Substantial/High

Assessment Rubrics

Test paper / Mid-semester exam	: 10
Seminar/Viva/Quiz	: 6
Assignment	: 4
Open-ended module	: 5
Total	: **25 Marks**
Final Exam	**50 Marks**

Model Question Paper

LIS1FM105 Information Resources and Learning Platforms

Time : 1.5 hrs Maximum Marks : 50

PART A - Answer all questions. Each question carries 2 marks.

(Ceiling 16 marks)

1. Knowledge organization
2. Non-documentary sources of information
3. WebOPAC
4. Secondary sources of information
5. NDLI
6. UGC-CARE list
7. ETD
8. Database
9. Boolean Operators
10. Call number

PART B - Answer all questions. Each question carries 6 marks.

(Ceiling 24 marks)

11. Explain the different information search techniques
12. Describe the major differences between data, information, and knowledge
13. Describe the characteristics of the different types of libraries
14. Discuss the factors to be considered while evaluating an information source
15. Briefly discuss about the databases provided by INFLIBNET center to the higher education sector.

PART C - Answer any One question. Each question carries 10 marks.

(1 x 10 = 10)

16. Define e-resources. Describe the different types of e-resources in detail.
17. Define e-learning. Evaluate the significance of MOOC platforms in higher education.

CALICUT UNIVERSITY FOUR-YEAR UNDERGRADUATE PROGRAMME (CUFYUGP)

MULTI-DISCIPLINARY COURSE

Semester 2

LIS2FM106 Library Technologies

Course Description

This course provides a comprehensive understanding of modern library automation systems, the design and implementation of digital libraries, institutional repositories and the software for library automation (e.g.Koha). Additionally, the course delves into software tools for information management, including reference management systems (e.g., Zotero/ Mendeley), plagiarism detection tools (e.g., Turnitin/DrillBit), and digital preservation systems (e.g., DSpace). By the end of the course, students will attain practical skills in using and managing library automation systems and also in developing digital libraries which enable them for performing their roles in modern information centers and libraries.

Programme	Library and Information Science				
Course Code	**LIS2FM106**				
Course Title	**Library Technologies**				
Type of Course	Multi-Disciplinary Course				
Semester	2				
Academic Level	**100-199**				
Course Details	**Credit**	**Lecture per week**	**Tutorial per week**	**Practical per week**	**Total Hours**
	3	3	-	-	45

Learning Approach (Hours/ Week)			**Marks Distribution**			**Duration of ESE (Hours)**
Lecture	**Practical**	**Tutorial**	**CE**	**ESE**	**Total**	
45 Hours	-	-	25	50	75	3

Course Outcomes (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Attain a basic understanding of library automation, digital libraries their design, and organization.	U	C	Written Exam, Assignment
CO2	Apply principles of digital library creation, including digitization and metadata development.	Ap	P	Practical Tests, Assignment
CO3	Familiarize software's used for information management, particularly Koha and DSpace	Ap	P	Case Studies, Group
CO4	Basic understanding about the role of emerging technologies in modern libraries	U	F	Practical Tests
CO5	Develop academic content effectively, including assignments, articles, and project proposals, using appropriate referencing styles and software like Zotero / Mendeley, Turnitin/DrillBit.	C	P	Practical Tests

*Remember(R),Understand(U),Apply(Ap),Analyse(An),Evaluate(E), Create (C)

Factual Knowledge (F) Conceptual Knowledge (C) Procedural Knowledge (P) Meta cognitive Knowledge (M)

Syllabus of Multi-Disciplinary Course

LIS2FM106 Library Technologies

Module	Unit	Content	Hrs 45	Marks 50
Module -1	**Library Automation**			15
	1.1	Libraries and their role in knowledge organization	2	
	1.2	Library automation: Need for library automation, planning and implementation.	2	
	1.3	Automated library housekeeping operations	1	
	1.4	Library automation software - Koha	2	
	1.5	Adoption of RFID in library automation	2	
	Total		**9**	
Module -II	**Digital Library**			**15**
	2.1	Digital Library: definition, scope and characteristics.	1	
	2.2	Design and organization of digital libraries: Architecture, user interfaces and pre- requisites.	2	
	2.3	Digitization – Scanning, OCR and Conversion to PDF.	2	
	2.4	Digital library creation: Metadata development, digital preservation and conservation - archiving, security and migration issues.	2	
	2.5	Greenstone Digital Library Software (GSDL)	2	
	Total		**9**	

Module-III	**Institutional Repository**			**10**
	3.1	Institutional repositories-concepts, characteristics and purpose	1	
	3.2	Design and architecture of institutional repositories	1	
	3.3	Contents and standards of institutional repositories- Metadata	2	
	3.4	Institutional repository software – DSpace	2	
	3.5	Research Data Management (RDM)	2	
	Total		8	
Module-IV	**Emerging Library Technologies**			**10**
	4.1	Artificial Intelligence and Machine Learning in Libraries	2	
	4.2	Internet of Things (IoT) in libraries	2	
	4.3	Augmented Reality and Virtual Reality in libraries	2	
	4.4	Cloud computing in libraries	2	
	4.5	Smart Libraries	1	
	Total		**9**	
Module-V	**Demonstrate practical skills required for software based Information management**		10	
Open ended Module	Koha, GSDL, DSpace, Zotero, Mendeley, Turnitin, DrillBit			

References

1. Andrew, C. (2010). Introduction to digital library management. London: Facet Publishing.
2. Bilal, D., & Breeding, M. (2014). Library automation: Core concepts and practical systems analysis (3rd ed.). Libraries Unlimited Inc.
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14. Williams, Brian K., & Sawyer, Stacey C. (2014). Using information technology: A practical introduction to computers & communications (11th ed.). McGraw-Hill.
15. Witten, I.H., & Bainbridge, D. (2005). How to build a digital library. Amsterdam: Morgan Kaufmann.

Mapping of COs with POs

	PSO1	PSO2	PSO3	PSO4	PSO5	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1						2	-	-	3	-	-	2
CO 2						-	-	-	3	3	2	2
CO 3						-	-	-	3	1	3	3
CO 4						1	-	3	3	-	-	3
CO 5		-				-	1	2	3	-	-	3

Correlation Levels:

Level	Correlation
-	Nil
1	Slightly/Low
2	Moderate/Medium
3	Substantial/High

Assessment Rubrics

Test paper / Mid-semester exam	: 10
Seminar/Viva/Quiz	: 6
Assignment	: 4
Open-ended module	: 5
Total	**: 25 Marks**
Final Exam	**50 Marks**

Semester 2

LIS2FM106 Library Technologies

Model Question Paper

Time : 1.5 hrs Maximum Marks : 50

PART A - Answer all questions. Each question carries 2 marks.

(Ceiling 16 marks)

1. Library automation
2. Copy Cataloguing
3. Integrated Library Management Software
4. Born digital documents
5. Institutional Repository
6. Open Access
7. Dublin Core
8. RFID
9. Cloud computing
10. MARC

Part B: Answer all questions. Each question carries 6 marks.

(Ceiling 24 marks)

11. Describe the importance of automated library housekeeping operations
12. Explain the concept of Research Data Management (RDM)
13. Describe the process of content development in digital libraries
14. Discuss the ethical issues related to rights management in digital libraries.
15. Explain the role of metadata in digital libraries

PART C - Answer any One Question. Each question carries 10 marks.

(1 x 10 = 10)

16. Discuss the design and organization of digital libraries, focusing on user interfaces and standards.
17. Discuss the adoption of emerging artificial intelligence based technologies in libraries