

Courses offered by the Department Spring Semester 2020(Jan- June 2020)

Name of School: School of Mathematics Computer & Information Sciences

Name of Department: Library And Information

Name of Programme of Study: M.LIB

(Courses for IV Semester)

Sr. No.	Course Code	Course Name	Credits	Teacher
1.	LIS 525A	Wed- Based Library and Information Services	4	Guest Faculty
2.	LIS530	Foundation of Digital Library	4	Dr. Dimple Patel
3.	LIS507	Community Lab for Library and Information	4	Nimmala Karunakar
4.	LIS 518A	Research and Technical Library System		Guest Faculty
5.	LIS609A	Bibliometrics, Informametrics and Scientometrics	4	Guest Faculty

Course Code: LIS 518

Course Name: Research and Technical library system

Credits Equivalent: 4 Credits (One credit is equivalent to 10 hours of lectures

/ organised classroom activity / contact hours; 5 hours of laboratory work / practical / field work / Tutorial / teacher-led activity and 15 hours of other workload such as independent individual/ group work; obligatory/ optional work placement; literature survey/ library work; data collection/ field work; writing of papers/ projects/dissertation/thesis; seminars, etc.)

Course Objectives:

1. To introduce the student to the special nature of different managerial perspectives of research and technology libraries
2. To abreast them with the technology based services and practices for specialized users
3. To make the student understand workflow in different sections in research and technology libraries

Attendance Requirements:

Students are expected to attend all lectures in order to be able to fully benefit from the course. A minimum of 75% attendance is a must failing which a student may not be permitted to appear in examination.

Evaluation Criteria:

1. Mid Term Examination: 25%
2. End Term Examination: 50%
3. Counselling, Activities and Tutorials (CAT): 25%
 - i. Assignment: 10%
 - ii. Library Work: 5%
 - iii. Seminar: 5 %
 - iv. Surprise Test: 5%

Course Content:

Unit - I: Research and Technical Libraries

- Concept, scope, characteristics, Objectives and Functions
- Role of Special Libraries in R and D institutions, Industries, Government departments
- Agencies and their Role in the Promotion and Development of Research

and Technical Libraries

Unit- II: Personnel Management for Research and Technical Libraries

- Human Resource Management
- Staff Recruitment, Selection & Training, Staff Formula
- Staff Development, Motivation & Leadership Quality Improvement
- Staff Manual

Unit-III: Financial Management for Research and Technical Libraries

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- Sources of Library Finance
- Budget Estimation - Line Budget, Program Budget, Performance Budget

Unit-IV: Collection Management and Services for Research and Technical Libraries

- Print documents & Non-Book Materials
- Electronic Resources and Online Databases
- Information services and technology based services
- Library space and accommodation - design and planning

Unit-V: Special Library Routines & Workflow

- Acquisition & Processing of Reading Material - Principles, Routines and Records
- Technical Processing: routines and tools
- Circulation - Methods, Routine Records, Serials Control
- Shelving, Maintenance and Preservation of Library Materials, Stock Verification
- Annual Report and Statistics

Prescribed Text Books:

1. [Meghna Dhar](#) ,Research and Technical Libraries: Organisation, Operation and Services, Ess Ess Publication, 2010
2. [S.C. Sinha & A.K. Dhiman](#), Special Libraries : Research & Technical Libraries, Ess Ess Publications, 2002
3. [S. R. Ranganathan](#), Library Administration: [Second Edition]
[Volume 3 of Ranganathan Series in Library Science Series](#) ,Ess Ess Publication, 2006

Suggested Extra Readings:

1. American Society for Engineering Education, Reference Materials for the Technical Library, Pennsylvania State University press ,1982
2. Robert D. Stueart, Bárbara B. Moran, Library management, Libraries Unlimited



Central University of Himachal Pradesh

[Established under Central Universities Act 2009]

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Tel: 01892-229330, 237285, Fax: 01892-229331,

[Website: www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)

Course Code: LIS-530
Course Name: Foundation of Digital library (Theory)
Faculty Name: Dimple Patel

Credits Equivalent: 4 Credits (One credit is equivalent to 10 hours of lectures / organised classroom activity / contact hours; 5 hours of laboratory work / practical / field work / Tutorial / teacher-led activity and 15 hours of other workload such as independent individual/ group work; obligatory/ optional work placement; literature survey/ library work; data collection/ field work; writing of papers/ projects/dissertation/thesis; seminars, etc.)

Course Objectives:

To acquaint the student with:

- Concept of digital libraries
- Building a Digital library collection
- Identification, Description and Interoperability standards
- Retrieval techniques, User Interfaces and Evaluation of digital libraries
- Digital preservation and archiving

Attendance Requirements:

Students are expected to attend all lectures in order to be able to fully benefit from the course. A minimum of 75% attendance is a must failing which a student may not be permitted to appear in examination.

Evaluation Criteria:

1. Mid Term Examination: 25%
2. End Term Examination: 50%
3. Continuous Internal Assessment: 25%

Course Contents

Unit I: Introduction, Digital Library Framework, Architecture

Digital Libraries: Conceptual Framework; Definitions, Components

Types of Digital Libraries: Digital Archives, Institutional Repositories, ETDs

Digital library Architecture: Kahn-Wilensky Architecture, Dienst and NCSTRL, Open Archival Information System (OAIS) Reference Model

Unit II: Digital Collection development and DL software

Building digital collection: Born Digital - Selection of digital resources; Digitization - Selection and Acquisition of materials for Digitization;

Steps in digitization;

Hardware/Software requirements and selection criteria

Open Source Software (OSS) – definition, concept, examples

OSS vs. Proprietary software

DSpace software – Features

Unit III: Digital library standards

Information Representation: Unicode

Persistent Identification Standards: URI, URL, URN, CNRI Handle System, DOI.

Metadata: definition, types.

Dublin Core Metadata Element Set (DCMES)

Interoperability standards: OAI-PMH, OAI-ORE

Unit IV: Digital Resource Discovery

Search Engines used by DL software: DSpace Lucene Search Engine

Search and retrieval techniques/strategies

Metadata Harvesters (PKP-OHS)

Federated Search

Faceted Search

Unit V: DL initiatives

Significant Indian Digital Libraries:

Digital Library of India (DLI)

Traditional Knowledge Digital Library (TKDL)

eprints@IISc,

Librarians' Digital Library (LDL)

Significant Global Digital Libraries:

HathiTrust,

Million Books Project,

Digital Access to Scholarship at Harvard (DASH),

Digital Library of Information Science and Technology (DLIST)



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PO BOX: 21, DHARAMSHALA, DISTRICT KANGRA – 176215, HIMACHAL PRADESH

www.cuhimachal.ac.in

Course Code: LIS507

Course Name: Community Lab for Library and information Science

Credits Equivalent: 4 Credits (One credit is equivalent to 10 hours of lectures / organised classroom activity / contact hours; 5 hours of laboratory work / practical / field work / Tutorial / teacher-led activity and 15 hours of other workload such as independent individual/ group work; obligatory/ optional work placement; literature survey/ library work; data collection/ field work; writing of papers/ projects/dissertation/thesis; seminars, etc.)

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CENTRAL UNIVERSITY OF HIMACHAL PRADESH

[Established under the Central Universities Act 2009]

PO Box: 21, Dharamshala, District Kangra - 176215 (HP)

www.cuhimachal.ac.in

Course Code: LIS 609A

Course Name: Bibliometrics, Informametrics and scientometrics

Credits Equivalent: 4 Credits (One credit is equivalent to 10 hours of lectures / organised classroom activity / contact hours; 5 hours of laboratory work / practical / field work / Tutorial /teacher-led activity and 15 hours of other workload such as independent individual/

groupwork; obligatory/ optional work placement; literature survey/ library work; data collection/field work; writing of papers/ projects/dissertation/thesis; seminars, etc.)

Course Objectives:

To understand the concept of Bibliometrics, Informametrics and scientometrics
To understand the significance of scientific collaborations

Attendance Requirements:

Students are expected to attend all lectures in order to be able to fully benefit from the course.
A minimum of 75% attendance is a must failing which a student may not be permitted to appear in examination.

Evaluation Criteria:

Mid Term Examination: 25%

End Term Examination: 50%

Counseling, Activities and Tutorials (CAT): 25%

I. Assignment: 10%

II. Library Work: 5%

III. Case study of cataloguing: 10%

Course Content

Unit 1: Evolution of the concept of Informetrics: Librametry, Bibliometry, Scientometrics, Webometrics.

Unit 2: Theory and Laws: Zipfs Law, Lotka s Law Bradford s Law, Price Theory and circulation theory

Unit 3: Quantitative and Qualitative Techniques Types

Unit 4: Citation analysis: Definition Theory of citing, different forms of citations, age of citation Citation counts, self-citation

Unit 5: Application of quantitative and qualitative tools and Techniques in Library and Information science

Suggested Extra Readings:

1. Donohue, J C. Understanding scientific literature. A Bibliometric approach. London: MIT. 1990.

2. Egghe, L and Rousseau R. Introduction to Informetrics: Quantitative methods in Library, Documentation and Information Science. Amsterdam, Elsevier. 1990.

3. Garfield, E. Citation Indexing Its theory and application in science and technology and humanities. John Wiley, New York. 1979.

4. Herson. P. Statistics: A component of the research process. Assblex, 1991.

2. Weilis, Jean Ed. The Principles and Features of AACR. Ottawa, Canadian Lib., 1997

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Course Code: LIS 525A

Course Name: Webbased

Library and Information Services

Faculty: Dr. Dimple Patel

Credits Equivalent: 4 Credits (One credit is equivalent to 10 hours of lectures / organised classroom activity / contact hours; 5 hours of laboratory work / practical / field work / Tutorial / teacherled activity and 15 hours of other workload such as independent individual/ group work; obligatory/ optional work placement; literature survey/ library work; data collection/ field work; writing of papers/ projects/dissertation/thesis; seminars, etc.)

Course Objectives:

- To acquaint the students with various web information resources
- To train the student in finding, locating and accessing web information resources

Attendance Requirements:

Students are expected to attend all lectures in order to be able to fully benefit from the course. A minimum of 75% attendance is a must failing which a student may not be permitted to appear in examination.

Evaluation Criteria:

- Mid Term Examination: 25%
- End Term Examination: 50%
- Continuous Internal Assessment : 25%
- Assignment/Library Work/Class Test/Surprise Test/Quiz: 15%
- Class Attendance: 10%

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Course Contents

UNIT - I: Information Resources

□ Categories of information: Primary, Secondary, Tertiary

□ Documentary and Nondocumentary

Information Resources

□ Information Generation Cycle

□ Literature Search: Importance and steps

UNIT - II: Webbased

Information Services

□ Origin, characteristics, features of Internet, WWW

□ Overview of Web 1.0, Web 2.0 and Web 3.0.

□ Websites (Personal/Institutional)

□ Networking sites: Social, Professional, Academic.

□ Blogs and Microblogs, Wikis, RSS, Podcasts, Media sharing sites

UNIT - III: Webbased

Scholarly Information Resources

□ EBooks:

features, merits and demerits

□ EJournals:

features, merits and demerits

□ Library consortia: eShodhSindhu,
CSIR Labs, FORSA

□ Webbased

Reference Sources: General and subjectbased

UNIT - IV: Open Access Scholarly Information Resources on the Web

□ Open Access: Concept, need and importance

□ Open Educational Resources: concept, need and importance, examples

□ OA Digital Repositories: concept, need and importance, examples

UNIT - V: Discovery Services and Evaluation of Web Resources

□ Library OPACs: Library of Congress, WorldCat, INDCAT

□ Internet Search Engines: Origin, development, types, working.

□ Academic Search Engines; Subject Gateways

□ Discovery tools for OA scholarly information: DOAJ, DOAB, OALster,
ROAR, OpenDOAR.

□ Evaluation criteria for Webbased

Information Resources

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Reading List

1. Krishna Kumar: Reference Service, Ed.5 New Delhi, Vikas, 2003.
2. Open Access - SPARC. <https://sparcopen.org/openaccess/>
3. Suber, Peter. Open Access Overview.
<http://legacy.earlham.edu/~peters/fos/overview.htm>
4. eShodhSindhu.
<http://www.inflibnet.ac.in/ess/index.php>
5. Online Dictionary for Library and Information Science
http://www.abcclio.com/ODLIS/odlis_A.aspx
6. WorldCat. <http://www.worldcat.org/>
7. DOAJ. <https://doaj.org/>
8. DOAB. <http://doabooks.org/>
9. OAister. <http://www.oclc.org/en/oaister.html>
10. OpenDOAR. <http://opendoar.org/>
11. ROAR. <http://roar.eprints.org/>