

# CENTRAL UNIVERSITY OF HIMACHAL PRADESH

[ESTABLISHED UNDER THE CENTRAL UNIVERSITIES ACT 2009]

PO Box: 21, DHARAMSHALA, DISTRICT KANGRA - 176215 (HP)

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

**Course Code:** LIS 406A

**Course Name:** Knowledge Organization and Information Processing (Practice): Cataloguing

**Faculty:** Mr. Nimmala Karunakar

**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 give practice and train students in the techniques of Cataloguing practices the various documents according to AACR-2, MARC-21, train in the use of LCSH and Sear's list for subject heading, assigning Book Numbers, etc.

## **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. Counseling, Activities and Tutorials (CAT): 25%
  - i. Assignment: 5%
  - ii. Library Work: 5%
  - iii. Seminar: 5 %
  - iv. Class Test: 5%
  - v. Case study of cataloguing: 5%

## **Course Content**

1. Cataloguing of books and non book materials according to AACR-2 **(15Hours)**
2. Cataloguing of books and non book materials according to MARC21 **(15 Hours)**



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

**Course Code:** LIS-530

**Course Name:** Foundation of Digital library (Theory)

**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 / 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%
1. End Term Examination: 50%
2. Continuous Internal Assessment: 25%
  - Assignment/Library Work/Class Test/Surprise Test/Quiz/Seminar: 15%
  - Class Attendance: 10%

## **Course Contents**

### **Unit I: Digital Library Framework, Architecture**

Digital Libraries: Conceptual Framework; Definitions, Components

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

Access methods: Closed vs. Open; IP-based vs. Remote-authentication

Digital Libraries: Role in Education and Research.

### **Unit II: Digital Collection development**

Digital information: definition, features

Types of digital information: Ebooks, Ejournals, Multimedia resources.

Types of Digital libraries: Archives, Institutional Repositories, ETDs

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: Scanners, Digital cameras, OCR Software; technical issues.

Digital formats: Proprietary vs. Open. Role in digital preservation.

### **Unit III: Digital library standards**

Information Representation: ASCII, ISCII, Unicode

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

Metadata: definitions, types, categories.

Metadata Standards: Dublin Core, EAD, TEI, METS, MODS.

Interoperability standards: OAI-PMH, OAI-ORE

### **Unit IV: Digital Resource Discovery, User Interface and Evaluation**

Search Engines used by DL software: Lucene, etc.

Search and retrieval techniques/strategies

Metadata Harvesters (PKP-OHS) and Federated Search

User interfaces – Types of User Interface , Model Design of UIs

Criteria for evaluation of digital libraries

### **Unit V: Case studies**

Comparative study of metadata schema used by various digital libraries.

Comparative study of search interfaces on live and active production digital library systems using different software.

Evaluative study of live and active production digital library systems

### **Prescribed Texts:**

2. Witten, Ian H., Bainbridge, David and Nichols, David M. How to Build a Digital Library. 2<sup>Nd</sup> Edition, 2003.
3. Arms, William Y. Digital Libraries. MIT Press, 2000. Online Edition Updated in 2005.  
<http://www.cs.cornell.edu/wya/diglib/MS1999/index.html>
4. G.G. Chowdhury, Introduction to digital libraries. UK, facet publishing , 2007
5. Hughes, Lorna M. Digitizing Collections: strategic issues for the information manager. Newyork, Neal Schuman Pub., 2004
6. Pedley, Paul. Digital Copyright. 2nd ed. London, Facet, 2009
7. HathiTrust Digital Library.  
<http://www.emeraldinsight.com/journals.htm?issn=0950-4125&volume=25&issue=7&articleid=1949590&show=html>
8. World Digital Library  
<http://www.emeraldinsight.com/journals.htm?issn=0950-4125&volume=27&issue=4&articleid=17086914&show=html>

### **Prescribed Journal Articles**

1. Defining a digital library  
<http://www.emeraldinsight.com/journals.htm?issn=0737-8831&volume=25&issue=2&articleid=1610966&show=html>
2. Choosing Software for a Digital Library  
<http://www.emeraldinsight.com/journals.htm?issn=0741-9058&volume=24&issue=9/10&articleid=1722698&show=html>
3. The system development life cycle and digital library development.  
<http://www.emeraldinsight.com/journals.htm?issn=1065-075X&volume=23&issue=4&articleid=1631438&show=html>
4. How not to run a digital library project  
<http://www.emeraldinsight.com/journals.htm?issn=1065-075X&volume=20&issue=4&articleid=1509301&show=html>
5. Digital library research: current developments and trends  
<http://www.emeraldinsight.com/journals.htm?issn=0024-2535&volume=52&issue=5&articleid=859728&show=html>

### **Additional Readings:**

1. Deegan and Tanner. Digital Futures. London, L.A., 2002
2. G.G.Chowdhury, Introduction to digital libraries. UK, Facet publishing , 2007
3. Rowley, Jennifer. The Electronic Library. 4th Ed. London, Lib. Assoc., 1996



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**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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