

Course Code: P24MLS12A

Course Name- 3.2: (A) DIGITAL LIBRARY AND WEBTECHNOLOGY

Credit Distribution			Total Credits	Internal Marks	Semester Marks	Total Marks
L	T	P	L+T+P	C1	C2	C3
5	-	-	5	25	75	100

Objectives:

- To help students in acquiring knowledge about the concept of Digital Libraries
- To enable the students gain knowledge about the facets involved in DL design
- To enable the students gain knowledge about DL softwares
- To enable the students gain knowledge about Online and electronic resources and institutional repositories

A. Course Outcome (CO)

After completion of the course, students will become familiar with the basic concepts in Library & Information Science.

COs	Course Outcome	Level	Level
CO 1	Gained knowledge about the concepts of digital library, its organization, tools for digital information access	Understand	K2
CO 2	Acquired knowledge in digital library design, architecture and DL softwares	Understand	K2
CO 3	Apply the digital library software for library digital activities	Apply	K3
CO 4	Attained knowledge about the Search Engines	Understand	K2
CO 5	Demonstrate the skills in searching Web Tools	Skill	K6

B.SYLLABUS

Unit-I

Digital Libraries: Definitions, Concept, Characteristics, functions and Advantages Digital Library Components: Design, Architecture, Protocols, Standards and Interoperability,

Unit-II

Digital Library Software: dspace, GSDL and E-Prints. Online Data bases: E-Books, E-Journals, ETD and Course ware and online Publishers

Unit-III

Institutional Repository and Digital Achieves - Digital Library Initiatives, Creation of Tamil interface using D-Space, MERLOT-NPOR-SWAYAM

Unit-IV

Search Engines: Concept of Search Engines; Types of Search Engines (General Search Engines, Meta Search Engines, Intelligent Search Engines, Subject Specific Search Engines); Search Technologies and Strategies; Benefits and Limitations of Search Engines; Design and

Evaluation of Search Engines

Unit-V

Web Tools & Services: Email, Discussion Groups, Teleconferences, Video Conferencing, Bulletin Board Service, Remote Login; Search Tools: Search Engines, Subject Directories; Content Enriching Services: Blogs, Wikis, Social Media Websites

Unit-VI CURRENT CONTOURS (For Continuous Internal Assessment Only):

Social Networking Sites and Academic Social Networking Sites

Selected Readings:

1. Bates, Chris. (2006). Web Programming: Building Internet Applications. 3rd ed. New Delhi: Wiley-India.
2. Crumlish, Christian. (2007). The ABCs of the Internet. New Delhi: BPB Publications.
3. Hartl, Michael and Prochazka, Aurelius. (2007). Rails Space: Building a Social Networking Website with Ruby on Rails. Addison-Wesley Professional.
4. Kalbach, J. (2007). Designing Web Navigation: Optimizing the User Experience. Sebastopol: O'Reilly Media.
5. Miller, Joseph B. (2008). Internet Technologies and Information Services (Library and Information Science Text Series). Libraries Unlimited.
6. Morville, Peter and Rosenfeld, Louis. (2006). Information Architecture for the World Wide Web: Designing Large-Scale Web Sites. 3rd ed. Sebastopol: O'Reilly Media.
7. Nair, R. Raman. (2002). Internet for Information Services. New Delhi: EssEss Publications.
8. Robbins, Jennifer Niederst. (2012). Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics. 4th ed. Sebastopol: O'Reilly Media.
9. Sehgal, R. L. (2000). Internet and Internet for Librarians. New Delhi: EssEss Publications.
10. Russell, Jesse and Cohn, Ronald (eds.). (2012). Web Browser. Book on Demand Ltd.
11. Stallings, William. (2007). Computer Networking with Internet Protocols and Technology. Delhi: Pearson Education.
12. Weinberg, Tamar. (2009). The New Community Rules: Marketing on the Social Web. Sebastopol: O'Reilly Media

Web Link

1. <http://www.greenstone.org/>
2. <http://www.dspace.org/>
3. <http://epress.lib.uh.edu/pr/v8/n3/smit8n3.html>
4. <http://www.eprints.org/>
5. <http://moodle.org>
6. <http://joomla.org>
7. <http://drupal.org>
8. <http://scigate.ncsi.iisc.ernet.in/raja/>
9. <http://www.vidyanidhi.org.in/>
10. <http://www.20search.com/>
11. http://en.wikipedia.org/wiki/Web_2.0
12. <http://www.oreillynet.com>
13. http://en.wikipedia.org/wiki/Web_3.0

14. http://en.wikipedia.org/wiki/Main_Page

15. <http://www.lib.berkeley.edu/TeachingLib/Guides/Internet/InvisibleWeb.html>

16. <http://websearch.about.com>

C. Mapping of COs with POs & PSOs

Mapping of COs with POs & PSOs										
COs	Programme Outcomes					Programme Specific Outcomes				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	3	3	3	3	3	2
CO2	3	3	3	2	3	3	3	3	3	2
CO3	3	3	3	2	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	2
CO5	3	3	3	2	3	3	3	3	3	2

Course Code: P24MLS12B

Course Name- 3.2 B (SWAYAM)