

LIS17401CR-RESEARCH METHODS

(4 Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
3	1	0	4

Objectives

- To acquaint with foundation of research, various methods, planning, designing, reporting in the field of Library and Information Science.

Unit-I

- 1.1 Research: Foundations, Need & Ethics with special reference to online ethics.
- 1.2 Research: Types and Steps.
- 1.3 Barriers in Research.

Unit-II

- 2.1 Research Design/Research Proposal: Structure and preparation of a model synopsis.
- 2.2 Hypothesis: formulation, types.
- 2.3 Citation and Reference Styles with Special emphasis on APA Style.
 - 2.3.1 Online Citation and Reference Management Tools (Mendeley etc.)

Unit-III

- 3.1 Review of Literature (Tools and Techniques)
- 3.2 Research Methods:
 - 3.1.1 Historical: Definition, Characteristics and Stages
 - 3.1.2 Descriptive: Definition, Characteristics and Stages (Survey, Case Study etc)
 - 3.1.3 Experimental: Definition, Characteristics, Steps/Procedures,
 - 3.1.4 Spiral of Scientific Method

Unit-IV

- 4.1 Data Analysis Software and Applications: SPSS Overview
- 4.2 Research Report: Form, Structure and guidelines.
- 4.3 Research Communities: With Special Reference to Virtual Research Communities (VRC's)

Suggested Readings

- Arora, P.N., &Arora, S. (2000). *C A Foundation course statistics*. (4thRev.ed.)NewDelhi: S.Chand.
- Allan, B. (2010). *Supporting Research Students*.London:Facet
- Baker, L. (2006). *Research methods*. U.S.A: John Hopkins University Press.
- Barry, C.A.(1997). Information Skills for an Electronic World: Training Doctoral Research Students. *Journal of Information Science*, 23 (3), 225-238.
- Busha, C.H., &Harter, S. H. (1988).*Research Methods in librarianship: techniques and interpretation*. New York: Academic Press.
- Chiang, K.H. (2003). Learning experiences of doctoral students in U.K Universities. *International Journal of Sociology and Social Policy*, 23 (1/2), 4-32.
- Croxtan, F. E. (1969). *Applied general statistics*. (3rded). New Delhi: Prentice Hall.
- Denzin, N. K., & Lincoln, Y. S. (1994).*Handbook of qualitative research*. Thousand Oaks: Sage Publications.
- Elhance, D.N. (2005). *Fundamentals of statistics*.Allhabad: KitabMahal.
- Frankfort, C., &Nachmias, D. (1999).*Research methods in social sciences*. (6thed. New York: Worth Publishers.
- Goode, W. J., &Hatt, P .K. (1952).*Methods in social research*.New York, McGraw-Hill.
- Gosh, B.N. (1984). *Scientific method and social research* (2nded.).Delhi: Sterling.
- Goswami, P. R. (1996). *Statistical information system and libraries*. New Delhi: Anmol Pub.
- Gupta, S.C., &Kapoor, V.K. (2001).*Fundamentals of mathematical statistics*. NewDelhi: Sultan Chand.

- James, T. Mc. C. (2005). *First course in statistics*. (9thed.). New Delhi: Prentice Hall.
- Khanna, J.K. (1997). *Library Compendium*. New Delhi: Beacon Books.
- Kumar, K. (1999). *Research Methods in Library and Information Science*. (2nd Rev. ed.). New Delhi: Har-Anand Publications.
- Powell, R.R., &Connaway, L. S. (2004).*Basic research methods for librarians*. West Port, Conn : Libraries Unlimited
- Sharma, R. D. (1988). *Research methods in social sciences*. New Delhi: National Book Organization.
- Sharma, P. S. K. (1996). *Librarian's knowledge of knowledge (including research methodology)*. New Delhi: EssEss.
- Simpson, I.S. (1988). *Basic statistics for librarians*.(3rd Rev ed.). U.K: Library Association.
- Singh, S.P. (2002). *Research methods in social sciences: a manual for designing questionnaire*. New Delhi: Kanishka Publishers.
- Somekh, B., &Lewin, C. (2005).*Research methods in the social sciences*. London: Sage Publications.
- Sproull, N .L. (1988).*Handbook of research methods: a guide for practioners and students in social sciences*. Metuchen, N.J: Scarecrow Press.
- Trochim, W. M.K. (2003). *Research Methods* (2nd ed.). New Delhi: Biztantra.

LIS17402CR-LIBRARY AUTOMATION AND NETWORKING

(Theory)

Credit Pattern

Lecture	Tutorial	Practical	Total
3	1	0	4

Objectives

- Develop an understanding of current applications of computer and communications technology in library and information services.
- To acquaint about emerging technologies useful for information access like Digital Libraries and allied concepts.

Unit-I

- 1.1 Library Automation: Origin and Development
- 1.2 Library Automation: Need and Purpose
- 1.3 Planning and Implementation of Library Automation
- 1.4 Library Automation: Operations

Unit-II

- 2.1 Communication: An Overview
- 2.2 Networks: Concept and Components
 - 2.2.1 Classification and Topology
 - 2.2.4 Resource Sharing and LIS Networks
- 2.3 Classification of LIS Networks based on Services offered

Unit-III

- 3.1 Internet: Origin and Development; Features and Working
- 3.2 World Wide Web: Origin and Development

- 3.3.1 Features; Working and Use
- 3.3.2 Information Search Tools
- 3.3 Invisible Web: Brief Concept and Tools
- 3.4 World Wide Web and Information Resources
 - 3.4.1 Online Journals
 - 3.4.2 Online Books
 - 3.4.3 Electronic Theses and Dissertation (ETDs)
 - 3.4.4 Online Newspapers, etc.
 - 3.5.5 Open access Resources

Unit-IV

- 4.1 Digital Libraries: Origin and Development and Features
- 4.2 Digital Libraries: Issues and Challenges
- 4.3 Digital Preservation: Concept and importance
- 4.4 Metadata
 - 4.4.1 Metadata: Historical Development and Concept
 - 4.4.2 Types of Metadata (Three and Five Category Taxonomy)
 - 4.4.3 Metadata Element Sets: Dublin Core etc.

Suggested Readings

Antleman, K. (2004). Do open access articles have a greater research impact? *College and research libraries*, 65(5), 372-82. Available at:

<http://eprints.rclis.org/archive/00002309/>

Arms, W. Y. (2005). *Digital Libraries*. New Delhi: Ane.

Baca, M., & Getty Research Institute. (2008). *Introduction to metadata*. Los Angeles, CA: Getty Research Institute.

Bush, V. (1945). As we may think. *Atlantic Monthly*, 176, pp.101-108. Available at

<http://www.theatlantic.com/unbound/flashbks/computer/bushf.htm>

Also available at

<http://www.ps.uni-sb.de/~duchier/pub/vbush.shtml>

Caplan, P. (2003). *Metadata fundamentals for all librarians*. Chicago: American Library Association.

Deaenley, J., & Feather, J. (2001). *The wired world: An introduction to the theory and practice of the information society*. London: Library Association.

D-Lib Magazine.(2007). Available at

<http://www.dlib.org>

Duval, B.K. & Main, L. (1992). *Automated library systems*. Westport, Connecticut:

Meckler Description of Dublin Core.(2007). Available at:

<http://dublincore.org/>

Earnshaw, R. E., & Vince, J. A. (2001). *Digital content creation*. U.S.A:Springer.

Foulonneau, M., & Riley, J. (2008). *Metadata for digital resources: Implementation, systems design and interoperability*. Oxford: Chandos.

Glossbrenner, A., &Glossbrenner, E. (2001). *Search Engines for the World Wide Web*. U.S.A: Peachpit.

Haynes, D. (2004). *Metadata for information management and retrieval*. London: Facet

Hartman, K., Ackermann, E. C., & Hartman, K. (2010). *Searching & researching on the Internet and the World Wide Web*. Sherwood, OR: Franklin, Beedle& Associates.

Hockx-Yu, H. (2006). Digital preservation in the context of institutional repositories. *Program electronic library and information systems*, 40(3),232-243.

Jacobs, N. (Ed.). (2006). *Open access: Key strategic, technical and economic aspects*. England: Chandos.

Ma, J., & Association of Research Libraries. (2007). *Metadata*. Washington, D.C: Association of Research Libraries.

- Maggie, J. (2004). The digital preservation coalition. *VINE: The Journal of Information and Knowledge Management Systems*, 34,(2),84-86.
- Miller, S. J. (2011). *Metadata for digital collections: A how-to-do-it manual*. New York: Neal-Schuman Publishers.
- Pariser, E. (2011). *The filter bubble: What the Internet is hiding from you*. New York: Penguin Press.
- Jones, R., Andrew, T., & MacColl, J. (2006). *The institutional repository*. England: Chandos.
- Kochar, R.S., & Sudarshan, K.N. (1997). *Library Automation: issues and systems*. New Delhi: APH Pub.
- Kochtanek, T. R. & Matthews, J. R. (2002). *Library information systems*. Westport, Connecticut: Libraries Unlimited.
- Lancaster, F. W. (1993). *Libraries and the Future: Essays on the Library in the Twenty-first Century*. U.S.A: Haworth.
- Lazinger, S. S. (2001). *Digital preservation and metadata*. Englewood: Greenwood.
- Malavya, V. (1999). *Library Automation*. New Delhi: Comman Wealth Pub.
- Minoli, D. (2001). *Internet and intranet engineering: Technologies, protocols and applications*. New Delhi: Tata McGraw-Hill.
- Norton, P. (2006). *Introduction to computers*. New Delhi: Tata McGraw-Hill
- Taylor, A. G. (2003). *The organization of information*. London: Libraries Unlimited
- Seadle, M. (2004). Selection for digital preservation. *Library Hi Tech*, 22(2), 119-121. Available at :
<http://www.emeraldinsight.com/Insight/ViewContentServlet?Filename=Published/EmeraldFullTextArticle/Articles/2380220201.html>
- Servin, C. (1996). *Telecommunications: Transmission and network architecture*. London: Springer.

Strauss, H. (2007). The future of the web, intelligent devices, and education. *Educase Review*, 42(1), 32-47. Available at:

<http://www.educause.edu/apps/er/erm07/erm0711.asp>

Vishwanathan, T. (1992). *Telecommunications switching systems and networks*. New Delhi: Prentice Hall.

Williams, B. K. & Sawyer, S. C. (2003). *Using information technology* (5th ed.). New York: McGraw-Hill/Irwin.

Zeng, M.L., & Qin, J. (2008). *Metadata*. London: Facet.

LIS17403CR- LIBRARY AUTOMATION AND NETWORKING (PRACTICE)

(4Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
0	0	4	4

Objectives:

- To educate and train budding professionals in running automated library with state of the art library management software.
- To create, manage, and access e-content useful for knowledge and development by developing interfaces, sensitizing in Web designing, familiarizing searching techniques and emerging web services besides facilitating print and web resource management.

Unit-I

- Practical 1.1 Creating New Projects using Standard EXE.
- Practical 1.2 Working with VB Components like Labels, Frames.
- Practical 1.3 Radio Buttons, Scrolls, and List Boxes etc.
- Practical 1.4 Database connectivity Using ADODB Control.
- Practical 1.5 Data Insertion /Retrieval/Updation. (Project).

Unit-II

- Practical 2.1 Library Management Software: Acquisition Module, Catalogue Module.
- Practical 2.2 Library Management Software: Circulation Module, OPAC Module and Serial Control Module.
- Practical 2.3 Greenstone: Installation and Customization.
- Practical 2.4 Greenstone: Collection Building, Metadata induction (project).

Practical2.5 Greenstone: Plugins, Searching-Indexes, Browsing-classifiersand working with ISIS files.

Unit III

Practical 3.1 Syntax of HTML Document. Create a new HTML document.

Practical 3.2 Formatting of HTML Document. Format text (font size, color, etc.) in HTML presentation. Creating internal and external links.

Practical 3.3 Creating lists using bullets or numbers.

Practical 3.4 Creating Tables and organizing information.

Practical3.5 Background colorand images.

Practical 3.6 Introduction of FrontPage and publisher for webpublishing

Practical3.7 Creation of awebsite and publishing on free web services (project)

Unit IV

Practical 4.1 Web Searching: Simple and Advanced using various search techniques.

Practical 4.2 Searching tools and their usage: Search Engines, Meta Search Engines, Subject Gateways; etc.

Practical 4.3 Searching Web Resources using Digital Libraries, E-repositories and E-Archives.

Practical 4.4 Introduction to various emerging webservices. (Like Blogs, RSSfeed, U-tube, wikis etc.)

Practical4.5 Creationof Blog and /or Wiki (Project).

Suggested Readings

Bradley, P. (2007).*How to use web 2.0 in your Library*. London: Facet Pub.

Booth, C., Mates, B. T., Guder, C. S., Junus, S. G. R., Riley-Huff, D. A., Tatomir, J., &Tatomir, J. (2012). *Making libraries accessible: Adaptive design and assistive technology*. Chicago, IL: ALA TechSource.

Cooke,A.(1999). A guide to finding quality information on the internet: Selection and evaluation strategies ,London: LA.

- Crumlish, C., & Malone, E. (2009). *Designing social interfaces*. Beijing: O'Reilly Media.
- Devlin, I. (2012). *HTML5 multimedia: Develop and design*. Berkeley, Calif: Peachpit Press.
- Glossbrenner, A., & Glossbrenner, E. (1998). *Search Engines for World Wide Web*. Redmond, Wash: Microsoft.
- Halvorson, M. (2003) *Microsoft Visual Basic 6.0 Professional step by step (2nded)*. Redmond, Wash: Microsoft.
- Hartman, K., & Ackermann, E. C. (2005). *Searching & researching on the internet & the world wide web*. Wilsonville: Franklin Beedle.
- Holzner S. (2003). *Visual Basic 6 Programming*. New Delhi: Dreamtech .
- Holzner, S. (2000). *HTML black book*. Scottsdale, AZ: Coriolis.
- Holzner, S. (2006). *New Visual Basic 2005 black book*. Scottsdale, Ariz: Paraglyph.
- HTML complete*. (2003). San Francisco: Sybex.
- Jamsa, K.A. (2002). *HTML and web design: tips and techniques*. New York: Mc Graw Hill.
- Kerman, M, C., & Brown R. L. (2000). *Computer programming fundamentals with applications in Visual Basic 6.0*. Reading Mass: Addison-Wesley.
- Lane, J. (2012). *Foundation Website creation with HTML5, CSS3, and JavaScript*. Berkeley, Calif.: friends of ED.
- Li, Ze-Nian., & Drew, Marc S. (2004). *Fundamentals of Multimedia*. NJ: Prentice Hall Pub.
- Library and Information Technology Association (U.S.). (2002). *Open source software for libraries: An open source for libraries collaboration*. Chicago: LITA.
- Lloyd, I. (2011). *Build your own website the right way using HTML & CSS*. Collingwood, Australia: Sitepoint.
- Lopuck, L. (2012). *Web design for dummies*. Indianapolis, IN: John Wiley & Sons.
- MacDonald, M. (2011). *Creating a website*. Beijing: O'Reilly.
- McCormick, J. A. (1990). *A guide of optical storage technology: using CD-ROM, WORM, erasable, digital paper, and other high density opto-magnetic storage devices*. Homewood, III: Dow Jones-Irwin Professional
- McCormick, J. A. (1994). *The new optical technology: including multimedia, CD-ROM and optical drives*. Burr Ridge, III: Irwin Professional
- Meloni, J. C. (2012). *Sams teach yourself HTML, CSS, and JavaScript all in one*. Indianapolis, Ind: Sams Pub.
- Mitchell, S. (2009). *Create your own website*. Indianapolis, Ind: Sams.
- Ogunjobi, T. (2013). *Drupal web profiles*. Boca raton, fl: Crc press.
- Osborn, J., Smith, J., AGI Training Team., & AGI Creative Team. (2011). *Web design with HTML and CSS: Digital classroom*. Indianapolis, IN: Wiley Pub.
- Page, R. (2012). *Website optimization: An hour a day*. Hoboken, NJ: John Wiley & Sons.
- Pence, J.H. (2001). *How to do everything with HTML*. New York: McGraw Hill.
- Perry, R. L. (2000). *Build your own Website*. New York: Franklin Watts.

Poulter,A, Tseng .G.,&Sargent.G.(1997).The library and information professionals guide to the
www.London.LA.

Raatma, L. (2010). *Blogs*. Ann Arbor, Mich: Cherry Lake Pub.

Richardson, W. (2006). *Blogs, wikis, podcasts, and other powerful web tools for classrooms*.
Thousand Oaks, Calif: Corwin Press.

Sauers, Micheal P., &Adkins, Denice.(2001).*Using the internet as a tool: a how to do it manual for
librarians*. New York: Neal-Schuman Pub.

Seo, K. K.-J. (2012). *Using social media effectively in the classroom: Blogs, wikis, twitter, and more*.
New York, NY: Routledge.

Terry,R.,& Banerjee, K(2008). Building Digital Libraries. Newyork:Neal-Schuman

Vats, L. (2001).*Web designing with HTML, Java Script an introduction*. Delhi: CyberTech Pub.

West, M. (2013). *HTML5 foundations*. Chichester, West Sussex, U.K: John Wiley & Sons.

Witten, I. H., Bainbridge, D., & Nichols, D. M. (2010). *How to build a digital library*. Burlington, MA:
Morgan Kaufmann Publishers.

Worsley, T. (2000). *Building a website*. New York: DK Pub.

Zak, D.(2001).*Programming with Microsoft Visual Basic 6.0*.Cambridge, Mass: Course Technology.

Zak, D.(2007).*Microsoft Visual Basic 2005: reloaded (2nd ed)* US: Thomson Course Technology.

Zee, N. (2003). *HTML & Web artistry 2: More than code (2nd ed.)*.IndianoPolis, IN: New Riders Pub.

Websites (Illustrative):

University of Waikato. (2017). About Greenstone. Available at: <http://www.greenstone.org/>

University of Waikato. (2017). GreenstoneWiki. Available at:

<http://www.greenstone.org/wiki/index.php/GreenstoneWiki/>

LIS17404DCE-PROJECT REPORT

(4 Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
0	1	3	4

Objective

- The main objective of the “project report” is to pursue a current problem in the field of Library & Information science to explore its facets thoroughly and come out with solutions or ways in a scientific way. This will prove useful to the student in applying knowledge and experience acquired during the academic session to real, live and emerging problems in the field.

Method of Instruction

Each student or a group of two students only (depending upon the scope of the problem) will be required to submit a project report on an approved topic of current research and application. The report is to be submitted both in hard and soft format. The student(s) will work under the supervision of one or two experts/ guides from the Department or any other department of the university/ other recognized research institutes for successful completion of the project. The areas and topic will be finalized and approved by the Departmental research cum ethics committee to be constituted for the purpose, comprising Head of the Department, two senior colleagues and two approved supervisors on rotation basis.

Each report will be evaluated by the external and internal examiner and marks/grades for evaluation will be on presentation, methodology and inputs put in the work. The viva voce will also be conducted by the committee comprising HOD, External Examiner and two senior faculty members.

The Project will be of 100 marks out of which 80 marks will be awarded to project report evaluation and 20 marks will be for viva voce by the said committee. There will be no internal assessment. The Project Report is to be submitted not beyond 2 months after completion of 4th semester examination.

Suggested Readings:

The guide will provide the suitable list of readings and resources relevant to the problem.

Other Suggested Readings:

American Psychological Association.(2007). APA style. Available at

<http://apastyle.apa.org/>

Anderson, William Ewart. (1947). *Thesis **writing**, a guide for the preparation of the master's thesis*. Montgomery, Ala., Paragon Press.

Baker, Lynda. (2006). *Research methods*. U.S.A: John Hopkins University Press.

Busha, Charles.H. & Harter, Stephen, H. (1988). *Research Methods in librarianship: techniques and interpretation*. New York: Academic Press.

Krishan Kumar. (1999). *Research Methods in Library and Information Science*. (2nd Rev. ed.). New Delhi: Har-Anand Publications.

Morrow, Paul Reed.(1932). *A guide to **thesiswriting***. Athens, Ga.

McGregor Company.

Newsom, Nathan William.(1898). *Standards for **thesiswriting***.Scranton, Pa,

International textbook.

Powell, Ronald.R.,&Connaway, Lynn. Silipigni.(2004). *Basic research methods for librarians*. West Port, Conn : Libraries Unlimited

Singh, S.P. (2002). *Research methods in social sciences: a manual for designing questionnaire*. New Delhi: Kanishka Publishers.

Trochim, William. M.K.(2003). *Research Methods (2nd ed.)*. New Delhi: Biztantra.

***Note:** The reading list is not exhaustive. The main reading list will vary from problem to problem and will be developed by the scholar and concerned Supervisor jointly for fruitful completion.

LIS17405DCE-Web Resources for Research

(4 Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
03	0	01	04

Objectives

- To acquaint students with the problems faced by research community in using web Based information
- To acquaint students with Tactics and Strategies for dealing with such sources
- To acquaint students with sources and tools dealing with web based information

UNIT-I Problem in Scientists Current Practices of Using Web-Based Information

- 1.1 Web information Sources: Concept and Need
- 1.2 Challenge to Harnessing Web-Based Information
 - 1.2.1 Information Overload and Resources Evaluation
 - 1.2.2 Web Site Navigation, Reliability and Browsability issues
 - 1.2.3 Preprints
 - 1.2.4 Financial Concerns
 - 1.2.5 Scholarly Misconduct and Misinformation
 - 1.2.6 Copyright issues

UNIT-II Tactics and Strategies for Dealing with Web-Based Information

- 2.1 Artificial Intelligence: Concept and Importance
- 2.2 Heuristic Search Strategies and Navigational Query Formulation
- 2.3 Controlled Vocabularies and Web Site Evaluation
- 2.4 Search Strategies and Refinement Techniques in Online Databases

UNIT-II Sources and tools for Dealing with Web-Based Information

- 3.1 Subscribed Sources -Subject Directories, e-Journals, e-Books, Databases and ETD's.
- 3.2 Free Information Sources
- 3.3 Preprint Servers

UNIT-IV

- 4.1 Identifying Web Resources (URL, URI, PURL, etc.)
- 4.2 Digital Object Identifier: Concept and Features
- 4.3 Digital Signatures and Digital Humanities
- 4.4 Emerging Technologies: Web 3.0, etc.

Suggested Readings:

Hoggan, D. B. (2002). Challenges, strategies, and tools for research scientists: using Web-based information resources. *Electronic Journal of Academic and Special Librarianship*, 3(3).

Korf, R. E. (1990). Real-time heuristic search. *Artificial intelligence*, 42(2-3), 189-211.

Metzger, M. J. (2007). Making sense of credibility on the Web: Models for evaluating online information and recommendations for future research. *Journal of the Association for Information Science and Technology*, 58(13), 2078-2091.

Pearl, J. (1984). *Heuristics: intelligent search strategies for computer problem solving*.

Russell, S., Norvig, P., & Intelligence, A. (1995). *A modern approach. Artificial Intelligence*. Prentice-Hall, Englewood Cliffs, 25, 27.

Schlachter, G. A., & Reference Service Press. (2002). *Scholarship search strategies*. El Dorado Hills, CA: Reference Service Press.

HOFSTEDE, A. H., Proper, H. A., & van der Weide, T. P. (1996). Query formulation as an information retrieval problem. *The Computer Journal*, 39(4), 255-274.

Libra Television. (2010). *Resources*. London: Teachers TV/UK Dept. of Education.

**LIS17406GE-Content Management
(2 Credits)**

Credit Pattern

Lecture	Tutorial	Practical	Total
1	1	0	2

Objective

- To focus on various aspects of Content Management and develop skills for building and managing Digital Collections. Using different Content Management Systems

Unit-I Content Management Systems: Basics

- 1.1 Content Management: Concept and Importance
- 1.2 Understanding Key concepts in Content Management: Portal, Container, Module, Content, Role, User, Permissions etc.
- 1.3 Prominent Content Management Systems: Features and functionalities

Unit-II Content Management: Process and Evaluation

- 2.1 Steps in Content Management: Content Creation, Processes, Metadata, Platforms/Environment, Quality, Implementation.
- 2.2 Content Management tools: Web Browsers, Image editors, text editors, web based video tools, and web based presentation tools.
- 2.3 Evaluation of Prominent Content Management Systems in different setups.

Suggested Reading

Addey, D. (2002). Content management systems. Birmingham: Glasshaus.

Arthur, M. H. (2006). Expanding a digital content management system: For the growing digital media enterprise. Amsterdam: Elsevier Focal Press.

Bergen, J. .(2008). Content management. Amsterdam: StichtingArchis.

Boiko, B. (2005). Content management bible. Indianapolis, IN: Wiley Pub.

Cole, J. R. (2008). Using Moodle.Farnham: O'Reilly.

Derr, M., &Symes, T. (2009). Joomla!. Berkeley, CA: Peachpit Press.

Eden, B. L. (2008). Content management systems in libraries: Case studies. Lanham, Md:Scarecrow Press.

Foulonneau, M., & Riley, J. (2008). Metadata for digital resources: Implementation, systems design and interoperability. Oxford: Chandos Pub. Haynes,D(2004).Metadata for Information Management and Retrieval. London: Facet Pub.

Mitchell, S. (2009). Create your own website. Indianapolis, Ind: Sams.

Myrick, J. (2010). Moodle 1.9 testing and assessment: Develop and evaluate quizzes and tests using Moodle modules. Birmingham, U.K: Packt Pub.

Ogunjobi, T. (2013). Drupal web profiles. Boca raton, fl: Crc press.

Papy, F. (2008). Digital libraries. London, UK: ISTE Ltd.

Shreves, R. (2010). Joomla! bible. Indianapolis, IN: Wiley Pub.

White, M. S. (2005). The content management handbook. Abingdon: Facet Pub.

Websites(Illustrative):

Drupal(2017).Drupal.Available at

<https://www.drupal.org/>

Joomla(2017).Joomla.Available at

<http://www.joomla.org/>

Moodle(2017).Moodle. Available at

<https://moodle.org/>

OpenCms(2017).OpenCms.Available at

<http://www.opencms.org/en/>

LIS17406GE-Content Management
(2 Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
1	1	0	2

Objective

- To focus on various aspects of Content Management and develop skills for building and managing Digital Collections. Using different Content Management Systems

Unit-I Content Management Systems: Basics

- 1.1 Content Management: Concept and Importance
- 1.2 Understanding Key concepts in Content Management: Portal, Container, Module, Content, Role, User, Permissions etc.
- 1.3 Prominent Content Management Systems: Features and functionalities

Unit-II Content Management: Process and Evaluation

- 2.1 Steps in Content Management: Content Creation, Processes, Metadata, Platforms/Environment, Quality, Implementation.
- 2.2 Content Management tools: Web Browsers, Image editors, text editors, web based video tools, and web based presentation tools.
- 2.3 Evaluation of Prominent Content Management Systems in different setups.

Suggested Reading

Addey, D. (2002). Content management systems. Birmingham: Glasshaus.

Arthur, M. H. (2006). Expanding a digital content management system: For the growing digital media enterprise. Amsterdam: Elsevier Focal Press.

Bergen, J. .(2008). Content management. Amsterdam: StichtingArchis.

Boiko, B. (2005). Content management bible. Indianapolis, IN: Wiley Pub.

Cole, J. R. (2008). Using Moodle.Farnham: O'Reilly.

Derr, M., &Symes, T. (2009). Joomla!. Berkeley, CA: Peachpit Press.

Eden, B. L. (2008). Content management systems in libraries: Case studies. Lanham, Md:Scarecrow Press.

Foulonneau, M., & Riley, J. (2008). Metadata for digital resources: Implementation, systems design and interoperability. Oxford: Chandos Pub. Haynes,D(2004).Metadata for Information Management and Retrieval. London: Facet Pub.

Mitchell, S. (2009). Create your own website. Indianapolis, Ind: Sams.

Myrick, J. (2010). Moodle 1.9 testing and assessment: Develop and evaluate quizzes and tests using Moodle modules. Birmingham, U.K: Packt Pub.

Ogunjobi, T. (2013). Drupal web profiles. Boca raton, fl: Crc press.

Papy, F. (2008). Digital libraries. London, UK: ISTE Ltd.

Shreves, R. (2010). Joomla! bible. Indianapolis, IN: Wiley Pub.

White, M. S. (2005). The content management handbook. Abingdon: Facet Pub.

Websites(Illustrative):

Drupal(2017).Drupal.Available at

<https://www.drupal.org/>

Joomla(2017).Joomla.Available at

<http://www.joomla.org/>

Moodle(2017).Moodle. Available at

<https://moodle.org/>

OpenCms(2017).OpenCms.Available at

<http://www.opencms.org/en/>

LIS17407GE-WEB 2.0 TECHNOLOGIES: UTILITY AND IMPACT
(2 Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
1	1	0	2

Unit-I Web 2.0 Basics

- 1.1 Web 2.0: Concept, Development and Features
- 1.2 Introduction to Web 2.0 Technologies (Blogs, Podcasts, Content Sharing Sites etc.)
- 1.3 Educational Benefits of Web 2.0 tools
- 1.4 Web 2.0: issues and Challenges

Unit-II Web 2.0 and Social Media

- 2.1 Social Media: Concept and Development
- 2.2 Web 2.0 and Social Networking services: An overview
- 2.3 Social Networking tools for academics – ResearchGate, Academia.edu etc.
- 2.4 Future Technologies: Opportunities and challenges

Suggested Reading

- Addey, D. (2002). Content management systems. Birmingham: Glasshaus.
- Arthur, M. H. (2006). Expanding a digital content management system: For the growing digital media enterprise. Amsterdam: Elsevier Focal Press.
- Bergen, J. (2008). Content management. Amsterdam: StichtingArchis.
- Boiko, B. (2005). Content management bible. Indianapolis, IN: Wiley Pub.
- Cole, J. R. (2008). Using Moodle. Farnham: O'Reilly.
- Derr, M., & Symes, T. (2009). Joomla!. Berkeley, CA: Peachpit Press.
- Eden, B. L. (2008). Content management systems in libraries: Case studies. Lanham, Md: Scarecrow Press.
- European Commission, & Joint Research Centre. (2011). Learning 2.0: The Impact of Web 2.0 Innovations on Education and Training in Europe. Saarbrücken: Dictus Publishing. Available at <http://ftp.jrc.es/EURdoc/JRC55629.pdf>
- Foulonneau, M., & Riley, J. (2008). Metadata for digital resources: Implementation, systems design and interoperability. Oxford: Chandos Pub.
- Haynes, D. (2004). Metadata for Information Management and Retrieval. London: Facet Pub.

- Hirtz, S., Kelly, K., & BCcampus. (2011). Education for a digital world 2.0: Innovations in education. Vancouver: Open School BC. Available at <http://audio.edtechlive.com/Educational-Networking-The-Important-Role-Web-2-0-Will-Play-in-Education.pdf>
- Katz, R. N., & EDUCAUSE (Association). (2008). The tower and the cloud: Higher education in the age of cloud computing. Boulder, CO: EDUCAUSE. Available at <https://net.educause.edu/ir/library/pdf/PUB7202v.pdf>
- Mitchell, S. (2009). Create your own website. Indianapolis, Ind: Sams.
- Myrick, J. (2010). Moodle 1.9 testing and assessment: Develop and evaluate quizzes and tests using Moodle modules. Birmingham, U.K: Packt Pub.
- Ogunjobi, T. (2013). Drupal web profiles. Boca raton, fl: Crc press.
- Papy, F. (2008). Digital libraries. London, UK: ISTE Ltd.
- Shreves, R. (2010). Joomla! bible. Indianapolis, IN: Wiley Pub.
- White, M. S. (2005). The content management handbook. Abingdon: Facet Pub.
- Websites(Illustrative):**
- Drupal(2013).Drupal. Available at <https://drupal.org>
- Joomla(2013).Joomla. Available at <http://www.joomla.org/> Moodle(2013). Available at <https://moodle.org/> OpenSourceCMS(2013). Tomatocms. Available at <http://www.opensourcecms.com/scripts/details.php?scriptid=370>
- Web 2.0 technologies for learning: the current landscape : opportunities, challenges and tensions. (n.d.). British Educational Communications and Technology Agency. Available at http://dera.ioe.ac.uk/1474/1/becta_2008_web2_currentlandscape_litrev.pdf
- Web2.0 Tool & Resource Guide (2013).Web2.0 Tool & Resource Guide. Available at <http://www.manzanitaelementaryschool.com/documents/WEB-2.0-Tool-Resource-Guide-2013.pdf>

LIS17408OE-OPEN EDUCATIONAL RESOURCES: BENEFITS AND IMPACT
(2 Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
1	1	0	2

Objective

- To focus on various aspects of Open Education and develop skills for using, modifying, repurposing and redistributing Open Educational Resources for enriching life-long learning.

Unit-I Open Education and Open Educational Resources (OER)

- 1.1 Open Education: Concept and Importance.
- 1.2 Open Educational Resources (OER): Concept, Genesis and Development.
- 1.3 Open Licences: An overview
- 1.4 Open Educational Resources: Challenges and Issues

Unit-II Open Educational Resources: Use and Impact.

- 2.1 OER initiatives at Global level: An overview
- 2.2 Open Educational Resources: Asian Perspective
- 2.3 Quality Assurance in OERs.
- 2.4 OER repository Software: Features and Utilities.

Suggested Readings

AchalPrabhala. (2010). Copyright and Open Educational Resources.

Baker, Judy. (2005). Introduction to Open Educational Resources.

Catherine Casserly, & Marshall Smith. (2006). The Promise of Open Educational Resources.

Commonwealth of Learning (COL), United Nations Educational, Scientific and Cultural Organization (UNESCO), Kanwar, Asha, Uvalić-Trumbić, Stamenka, & Butcher, Neil. (2011). A basic guide to open educational resources (OER). Vancouver : Commonwealth of Learning ; Paris:UNESCO. Available at <http://www.col.org/PublicationDocuments/Basic-Guide-To-OER.pdf>

Susan D'Antoni. (2008). Open Educational Resources: The Way Forward.

McGreal, Rory, & Anderson, Terry. (n.d.). Open Educational Resources.

Schaffert, S. & Geser, G. (2008). Open Educational Resources and Practices. *eLearning Papers*, (7).

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<http://learn.creativecommons.org/wp-content/uploads/2008/05/open-educational-resources-and-practices.pdf>

UNESCO. (2009). *Open Educational Resources: Conversations in Cyberspace*. Retrieved from:

<http://libros.metabiblioteca.org/bitstream/001/302/8/978-92-3-104085-6.pdf>

UNESCO(2011). Guidelines for open educational resources (OER) in higher education. Available at

<http://unesdoc.unesco.org/images/0021/002136/213605e.pdf>

LIS17409OE - OPEN ACCESS ENVIRONMENT

(2 Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
2	0	0	2

Unit-I Open Access: History and Developments

- 1.1 Open Access: Definition, Philosophy and Evolution
- 1.2 Approaches to Open Access
- 1.3 Benefits of Open Access
- 1.4 Arguments against Open Access

Unit II Open Access Publishing

- 2.1 Open access publishing and current business models.
- 2.2 Open access policies
- 2.3 Open Access Metrics (h-index)

Suggested Readings

Abadal, E. (2012). Challenges for open access journals: quantity, quality and economic sustainability. Available from

<http://www.upf.edu/hipertextnet/en/numero-10/challenges-for-open-accessjournals-quantity-quality-and-economic-sustainability.html>.

Abel, R., Newlin, L. W., Strauch, K. P., & Strauch, B. (2002). Scholarly publishing: Books, journals, publishers, and libraries in the twentieth century. New York: Wiley.

Andersen, D. L. (2004). Digital scholarship in the tenure, promotion, and review process. Armonk, N.Y: M.E. Sharpe.

Björk, B-C et al. (2010). Open access to the scientific journal literature: situation 2009. PLoS ONE, 5(6). doi:10.1371/journal.pone.0011273

- Borgman, C. L. (1990). *Scholarly communication and bibliometrics*. Newbury Park: Sage Publications.
- Braxton, J. M. (1999). *Perspectives on scholarly misconduct in the sciences*. Columbus: Ohio State University Press.
- Chan, Leslie. (n.d.). *Exciting Potential of Scholarly Electronic Journals*. CAUT.
- Davis-Kahl, S., & In Hensley, M. K. (2013). *Common ground at the nexus of information literacy and scholarly communication*.
- Gu, Feng & Widén-Wulff, Gunilla (2011). *Scholarly communication and possible changes in the context of social media: A Finnish case study*. *The Electronic Library*, 29(6), 762-776.
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<http://eprints.soton.ac.uk/265617/2/PG-chandos-harnad.pdf>
- Harnad, S. (2010). *The Open Challenge: A Brief History*. *Public Service Review: European Science & Technology*, 9, 13-15.
- Joshi, Meenakshi. (2000). *Scholarly Communication and the Internet*.
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- Laakso, M., et al. (2011). *The development of open access journal publishing from 1993 to 2009*.
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- Rethinking scholarly communication: building the system that scholars deserve*.

Suber, P. (2009). Ten challenges for open-access journals. SPARC Open Access Newsletter, 138.

Retrieved from <http://legacy.earlham.edu/~peters/fos/newsletter/10-02-09.htm>.

Swan, A. (2006). Repositories overview: policies and implementation. Open Scholarship 2006: New challenges for Open Access repositories. Retrieved from <http://eprints.ecs.soton.ac.uk/17498/>

Villarroya, A. et al. (2012). Business models of publishers of scientific journals: Implications for Open Access. *El profesional de la información*, 21(2), 129-135.

Online Videos Tutorials

Flanders, Julia. (2012). Defining Scholarly Communication. available at <https://www.youtube.com/watch?v=8aybpzHLZuo>

Garfield,Eugene. (n.d). Communicating science. available at <http://www.webofstories.com/play/eugene.garfield/72>

Raff, Martin. (n.d). Advice to Young Scientists: Do Important Science! available at <http://www.webofstories.com/play/martin.raff/5>

University of Guelph. (2014). Introduction to Scholarly Communication. available at <https://www.youtube.com/watch?v=E9WcbnAOPVA>

Kambiz Chizari.(2017). [How Researchers Can Help the Open Access Movement](https://www.youtube.com/watch?v=nvMyZnosfRQ)
<https://www.youtube.com/watch?v=nvMyZnosfRQ>