

LIS17301CR-INFORMATION RETRIEVAL

(4 Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
3	1	0	4

Objectives

- To know various types of information retrieval Systems; their characteristics, evaluation, performance, and models.
- To acquaint with various tools, techniques and systems of IR.

Unit-I

- 1.1 Information Retrieval: Concept, Features, Genesis & Development.
- 1.2 Trends in Indexing: Automatic Indexing etc.

Unit-II

- 2.1 Subject Indexing and Vocabulary Control: Concept and Need.
- 2.2 Subject Heading Lists,
- 2.3 Thesaurus: Structure and Functions

Unit-III

- 3.1 Pre-coordinate Indexing Systems
 - 3.1.1 Chain Indexing.
- 3.2 Post-Coordinate Indexing Systems
 - 3.2.1 UNITERM Indexing System.

Unit-IV

- 4.1 Citation Indexing: Concept and development.
 - 4.1.1 Online Citation Indexing Tools: SCOPUS, Web of Science.

4.2 Information Retrieval Systems: Types

4.3 Evaluation of Information Retrieval Systems: Methods and Parameters

Suggested Readings

Chodhury, C.G. (2004). *Introduction to Modern Information Retrieval*. (2nd ed.). London: Facet Pub.

Cleveland, D. B., & Cleveland, A. D.(1990) *Introduction to Indexing and Abstracting*. (2nd ed.). USA: University of Michigan.

Chu, S.K.W., & Law, N. (2006). Development of information search expertise: Research students' knowledge of source types. *Journal of Librarianship and Information Science*, 39 (1), 27-40.

Dhawan, K.S. (1997). *Principles of information retrieval*. New Delhi: Commonwealth

Foskett, A.C. (1996). *The subject approach to information* (5th ed.) .London: Library Association.

Jones, K. S. (1981). *Information retrieval experiment*. London: Butterworth.

Kiewitt, E. L. (1979). *Evaluating information retrieval systems: the probe program*. London: Greenwood.

Lancaster, F.W. (2003). *Indexing and Abstracting in Theory and practice* (3rd ed.). London: Facet Pub.

Meadow, C. T. (1967). *The analysis of information systems*. New York: John Wiley.

Riaz, M. (1991). *Advanced indexing and Abstracting*. New Delhi: Atlantic

Rajan, T. N. (1981). *Indexing systems: Concepts, Models & techniques*. Calcutta: IASLIC.

Ranganathan, S. R. (1973). *Documentation: Genesis and Development*. Delhi: Vikas Pub.

Rijsbergen, J. V. (1979). *Information retrieval* (2nd ed.). London: Butterworths.

Smiraglia, R. P. (2002). *Works as entities for information retrieval*. New York: Haworth.

Vickery, B.C. (1970). *Techniques of Information Retrieval*.(2nd ed.). London: Butterworth.

Wessel Andrew, E. (1974). *Computer aided Information Retrieval*. Los Angeles: Melville Pub.

LIS17302CR-INFORMATION TECHNOLOGY (PRACTICE)

(4 credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
0	0	4	4

Objective

- To impart practical, know-how of different Operating Systems, word processors, Spreadsheets and developing bibliographic databases using select packages.

Unit-I

1.1 MS DOS

Practical 1.1.1 Introduction to DOS Command Prompt. Working with Directory commands MD, CD, RD, and TREE.

Practical 1.1.2 Introduction to Internal DOS Commands

Practical 1.1.3 Introduction to External DOS Commands

Practical 1.1.4 Batch Commands and XCopy commands.

Practical 1.1.5 Wild cards in Dos and Dos help.

1.2 WINDOWS (latest available)

Practical 1.2.1 Introduction to Windows, Windows Desktop, Icons, Taskbar and Start Button.

Practical 1.2.2 Using Scroll Bars, Dialog Boxes and Toolbars, Files and folders.

Practical 1.2.3 Using Control Panel for customizing Windows.

Practical.1.2.4 Introduction to Windows Accessories, Search and Run Features.

Practical 1.2.5 Add remove Programs/Hardware

Unit-II

2.1 MS WORD (latest available)

Practical 2.1.1 Creating and editing a document.

Practical 2.1.2 viewing and Inserting various objects and utilities in document.

Practical 2.1.3 Formatting a document with different attributes

Practical 2.1.4 Tools for Security, Letters and Mailing.

Practical 2.1.5 Designing and insertion of different tables etc

2.2 MS EXCEL (latest available)

Practical 2.2.1 Introduction to Creation, Editing and Saving of Excel. Workbooks and Workspaces. Inserting worksheets, rows and columns. Working with Cells and Ranges.

Practical 2.2.2 Working with Excel Functions like Date and Time, Math and Trig, Statistical, Text and Logic.

Practical 2.2.3 Working with Excel Charts.

Practical 2.2.4 Changing worksheet Layout, Other Formatting Options.

Practical 2.2.5 Goal Seek and Creation of Lists.

Unit-III

3.1 MS ACCESS (latest available)

Practical 3.1.1 Creating a Blank Database in Access.

Practical 3.1.2 Working with Tables using design view, using wizard and by entering data.

Practical 3.1.3 Creating Queries

Practical 3.1.4 Understanding relationships.

Practical 3.1.5 Creating Forms.

Unit-IV

4.1 LibreOffice

- Practical 4.1.1 Introducing and Setting Up LibreOffice.
- Practical 4.1.2 Getting Started with Writer.
- Practical 4.1.3 Getting Started with Calc.
- Practical 4.1.4 Getting Started with Impress.
- Practical 4.1.5 Getting Started with Draw and Base

Suggested Readings:

- Andersen, V.(2003).*How to do everything with Microsoft Office Access 2003*.New York: McGraw Hill
- Cooper, J. (2002). *Using MS-DOS 6.22(3rd ed)*. Indianapolis, Ind: Que.
- Fehily, C. (2005).*WindowsXP*.Berkeley, CA: Peachpit.
- Flynn, M.(2004). *Microsoft Access 2003 expert certification*.EMCparadigm Pub.
- Grauer, R. T., & Barber, M. (2006).*Microsoft Office Excel 2003: Comprehensive (Rev ed)* . NJ: Pearson/Prentice Hall.
- Gunter, S. K. (2007). *Teach yourself visually Office 2007*. Indianapolis, IN: Wiley Pub., Inc.
- Hart-Davis, G., (2003). *How to do everything with Microsoft Office Excel 2003*.New York: McGraw Hill.
- Harvey, G. (2010). *Excel 2010 all-in-one for dummies*. Hoboken, NJ: Wiley Pub.
- Harvey, G. (2010). *Excel 2010 all-in-one for dummies*. Hoboken, NJ: Wiley Pub.
- Kinkoph, S. (2004) .*Teach yourself visually Windows XP*.NJ: Wiley Pub.
- Marmel, E. J. (2013). *Teach yourself visually Office 2013: The fast and easy way to learn*. Indianapolis, IN: John Wiley & Sons, Inc.
- Mathews, M. S., & Mathews C. (2007) *Microsoft Office Word 2007Quicksteps*. New York: McGraw-Hill.
- Mathews, M.S.,&Cronan, J. (2005).*Microsoft Office Word 2003*.New York: Mc Graw Hill.
- Matthews, C. B., Matthews, M. S., &Cronan, J. (2010). *Microsoft Office 2010 quicksteps*. New York: McGraw-Hill.
- McFedries, P. (2009). *Teach yourself visually Windows 7*. Indianapolis, IN: Wiley Pub.

McFedries, P. (2012). *Windows 8 simplified*. Indianapolis, IN : John Wiley & Sons, Inc., [2012] ©2012

McFedries, P.(2005).*Teach yourself visually Windows XP. (2nd ed)*.NJ: Wiley Pub.

Moran, R. ,&Johnson, K. (2003).*Windows XP*.NJ: Willey Pub.

Muir, N. (2007). *Teach yourself visually Excel 2007*. Hoboken, N.J: Wiley.

Norton, P. (1996). *Peter Norton's Dos Guide*.Indianapolis, Ind: Brady.

Pogue D. (2006). *Windows XP for starters*.Sebastopol, CA: Pogue.

Pogue, D. (2013). *Windows 8*.Beijing ; Sebastopol, CA O'Reilly, [2013]

Preston, J. H., Preston, S, &Ferett, R. L (2003)..*Go! With Microsoft Office Word 2003*.NJ: Pearson/Prentice Hall.

Rathbone, A. (2009). *Windows 7 for dummies*. Hoboken, N.J: Wiley.

Rathbone, A. (2012). *Windows 8 for dummies*. Hoboken, N.J: John Wiley & Sons.

Rutkosky, N ., & Seguin D.(2004).*Microsoft Access 2003*.St.Paul, MN: EMC/Paradigm.

Rutkosky, N. H., &Seguin, D.(2004).*Microsoft Excel 2003*.St.Paul, MN: EMC/Paradigm.

Rutkosky, N., & Seguin D.(2004).*Microsoft PowerPoint 2003*.St.Paul, MN: EMC/Paradigm.

Shoup, K. (2010). *Teach yourself visually Office 2010*. Indianapolis, Ind: Wiley Pub., Inc.

Stephen, M. (2007). *Excel 2007*. London: Teach Yourself.

Tidow, R., Clark, David J., &Toot, M. S.(2005).*Master visually Windows XP.(Service pack 2nd ed)*NJ:Wiley Pub.

Ulrich, L. A. (2003).*How to do everything with Microsoft Office 2003*. New York: McGraw Hill

Wang, W. (2010). *Office 2010 for dummies*. Hoboken, N.J: Wiley.

Wyatt, A.(1993).*Using MS-DOS 6.2*.Carmel, IN: QUE.

Websites (Illustrative):

LibriOffice. (2017). Available at

<https://www.libreoffice.org>

Office 2007 Tutorials available at Florida Gulf Coast University.

<https://veasnarincambodia.files.wordpress.com/2011/08/4-word-2007-tutorial.pdf>

Office.2010.ESSENTIAL MICROSOFT OFFICE 2010™ Tutorials for Teachers

<http://www.pitt.edu/~poole/Office2010Tutorials/FrontMatter.pdf>

Office 2010.<https://support.office.com/en-us/article/Download-Office-2010-training-7F477C0F-D72F-4848-B960-98BF08D779AB>

LIS17303CR- INFORMATION SERVICES AND SYSTEMS

(4 Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
3	1	0	4

Objectives

- To acquaint with reference and Information services, systems and their utility and significance.
- To understand various types of users, their information needs and seeking pattern etc.

Unit-I

- 1.1 Reference & Information Service: Concept, Need and Development.
- 1.2 Online Reference & Information Service: Concept and techniques.
- 1.3 Search strategy in Reference and information Services.
- 1.4 Reference librarian: Role, Skills and Competencies.

Unit-II

- 2.1 Anticipatory Services
 - 4.1.1 Current Awareness service
 - 4.1.2 SDI
- 2.2 New & Emerging Techniques in CAS
- 2.3 Expert Systems in Reference & information Services.
- 2.4 Case Study of Different virtual Reference & Information Networks

Unit-III

- 3.1 Information Systems: Basic Concept, objectives and Functions.
- 3.2 Components of Information System
- 3.3 Historical Development of information systems.
- 3.4 Planning, Design and Evaluation of Information system.

Unit-IV

- 4.1 Study of International Information Systems and their programs
 - 4.1.1 INIS Features and Functions
 - 4.1.2 AGRIS Features and Functions

- 4.1.3 MEDLARS/MEDLINE Features and Functions
- 4.2 Study of National Information Systems and their Programs
 - 4.2.1 NISCAIR with reference to information services
 - 4.2.2 INFLIBNET
 - 4.2.3 DELNET
 - 4.2.4 ENVIS

Suggested Readings

- Bell, Simon. (1996). *Learning with information systems: Learning Cycles in Information Systems Development*. London: Rutledge.
- Bopp, Richard. E., & Smith, Linda. (1974). *Reference and Information Services: An Introduction 3rd Ed.*. Colo: Libraries Unlimited.
- Davinson, Donald. (1980). *Reference Service*. London: Clive Bengely.
- Grogan, Dennis. (1992). *Practical Reference Work*. London: Library Association.
- Katz, Bill. (1991). *Reference and Information Services: A Reader for the Nineties*. Metuchen: Scarecrow Press.
- Katz, William. (1982). *Introduction to reference work: Basic information Sources. (4th Ed.) (3v)*. New York: McGraw Hill.
- Katz, William. A. (1978). *Introduction to reference work: Reference services And reference process*. New York: McGraw Hill.
- Khanna, J.K. (2000). *Documentation and Information Services, Systems and Techniques*. Agra: Y.K Publishers.
- Krishan Kumar. (1980). *Reference Services*. New Delhi: Vikas Publishing.
- Mukherji, A.K. (1975). *Reference Work and its Tools. (3rd Rev. Ed.)*. Calcutta: World
- Neelameghan A. and Prasad, K.N. Eds. (2005). *Information systems and services in India*. Bangalore: SRELS.

Websites (Illustrative):

INFLIBNET. (2007). Available at <http://www.inflibnet.ac.in/>

DELNET .(2007). Available at <http://delnet.nic.in/>

CALIBNET. (2007). Available at

<http://www.calibnet.in/>

NASCAIR. (2007). Available at

<http://www.niscair.res.in/>

FAO.(2007). Available at<http://www.fao.org/Agris/>

LIS15304DCE - OPEN ACCESS ENVIRONMENT
(4 Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
3	1	0	4

Objective

- To sensitize the students with OA movement and its tool, resources, challenges and opportunities

Unit-I Scholarly Communication Process

- 1.1 Research Lifecycle
- 1.2 History and Evolution of Scholarly Communication
- 1.3 Status and Trends
- 1.4 Role of Stakeholders

Unit-II Open Access: History and Developments

- 2.1 Open Access: Definition, Philosophy and Evolution
- 2.2 Approaches to Open Access
- 2.3 Benefits of Open Access
- 2.4 Arguments against Open Access and Responses
- 2.5 Open Access Business Models
- 2.6 Long-Terms Preservation Models

Unit-III Rights and Licenses

- 3.1 Intellectual Property Rights
- 3.2 Open Licenses
- 3.3 Support Tools and Services

Unit IV Advocacy for Open Access and Metrics

- 4.1 Open Access Advocacy
- 4.2 Training & Development
- 4.3 Open Access Metrics
- 4.4 Emerging Indicators (H-Index and Derivatives)

Suggested Readings

- Abadal, E. (2012). Challenges for open access journals: quantity, quality and economic sustainability. Hipertext.net, 10. Retrieved 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.
- Harnad, S. (2008). The postguttenberg open access journal. In Cope, B.; Phillips, A (eds.). The future of the academic journal. London: Chandos. <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. ([Http://hdl.handle.net/1849/38](http://hdl.handle.net/1849/38).) drtc.

Knapp, M. L., Daly, J. A., & International Communication Association. (2004). A guide to publishing in scholarly communication journals. Mahwah, N.J: Lawrence Erlbaum.

Laakso, M., et al. (2011). The development of open access journal publishing from 1993 to 2009. PLoS ONE, 6(6). doi:10.1371/journal.pone.0020961

Loy, M. (2011). Hindawi Publishing Corporation: Growing an Open-Access Contributor-Pays Business Model. Updated 2011. London: Ithaka.

http://sca.jiscinvolve.org/wp/files/2009/05/iDF153SCA_Ithaka_CaseStudies_v2_Hindawi_v1-03.pdf

Parekh, H. (1999). Internet in the scholarly communication process. Mumbai: KnowledgeWare.

Shorley, D., &Jubb, M. (2013). The future of scholarly communication.London:Facet Publishing,

Sompel, Herbert van de, Payette, Sandy, Erickson, John, Lagoze, Carl, & Warner, Simeon. (n.d.). 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>

LIS17305 DCE -AGRICULTURE INFORMATION SYSTEM

(4 Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
3	1	0	4

Objectives

- To understand development of Agricultural science, resources and information systems useful to various stakeholders in accessing information.

Unit-I **Agriculture Science and Organizations**

- 1.1 Agricultural Science: Concept
- 1.2 Scope of agricultural sciences
- 1.3 Agricultural Science Organizations and Institutions. National and International. .
 - 1.3.1 Indian Council of Agricultural Research. (ICAR)
 - 1.3.2 Food and Agricultural Organization. (FAO).
- 1.4 Information needs and information seeking pattern of Agricultural Science Professionals: An overview.

Unit-II **Agricultural Information Systems and Networks: International and National.**

- 2.1 FAO Databases and Information Systems,
- 2.2 USDA Databases,
- 2.3 Consortium of International Agricultural Research Centers (CGIAR),
- 2.4 IARI and ICAR initiated databases.

Unit III National and international Library and Information support to Agricultural

Sciences:

- 3.1 Contribution of National Agricultural library (USA), and National Digital Library for Agriculture (NDLA)
- 3.2 Library of IARI (India),
- 3.3 IDRC Digital Library (International Development Research Centre),

Unit-V National and international agriculture databases

- 4.1 AGRIS, AGRICOLA, CABI: Centre for Agriculture and Biosciences International, BIOSIS Previews, Biological & Agricultural Index plus, AGROVOC, Current Agricultural Research & Information System (CARIS)
- 4.2 Consortium for e-Resources in Agriculture (CeRA), AgriCat , Knowledge Innovation Repository of Agriculture in the North East
- 4.3 Microbial Genetic Resource Portal, National Academy of Agricultural Sciences, Rohu Database, Rice Knowledge Management Portal

Suggested Readings

- Deshmukh.P.P (Ed) (1987).*Information systems for Agricultural sciences and Technology*.New Delhi, Metropolitan.
- Eswara Reddy, D.B. (1976). ICAR: History and Growth. New Delhi : Indian Council of Agricultural Research.
- John Shenod (1974) .Agricultural librarians Association.In.*Encyclopedia of Library and Information science*. (v12, p. 245) New York : M. Dekker
- Leila .P. Morin (1976).Agricultural sciences Information Network.In *Encyclopedia of library and information science*. (V19, p. 42-43) New York: M. Dekker.
- Phadins, S.P & Abu ShoaibAhsan.(1976). Indian Agricultural data and Information .*Annals of library science and Documentation*, 23, pp.87-98.

Rajgopalan.T.S (1974).Agricultural Librarianship In Encyclopedia of library and Information science
(V. 11, p-. 352)

Websites (Illustrative)

Aquaculture Network Information Center. Available at www.aquanic.org

Commonwealth Agricultural Bureaux' World Agricultural Information Service. Available at
<http://www.cabi.org/>

Food and Agricultural Organization .Available at www.fao.org.

Indian Agricultural Research Institute. Available at <http://www.iari.res.in>

Japan International Research Center for Agricultural Sciences. Available at
<http://www.jircas.affrc.go.jp/>

National Agriculture and Forestry Research institute . Available at <http://www.nafri.org.la/>

World Agricultural Information Centre. Available at www.fao.org/WAICENT/

LIS17306DCE-WEB 2.0 & ADVANCED TECHNOLOGIES

Credit Pattern

Lecture	Tutorial	Practical	Total
3	0	1	4

Objectives

- To acquaint students with changing features of web in the service of educational, research, business and media settings.
- To develop hands on exposure of web2.0 tools, technology and services.

Unit-I

- 1.1 Web 2.0: concept, development and features.
- 1.2 Web2.0 tools and technology: Blogs, Wikis, RSS feeds.
- 1.3 Social Networking: Podcasting, photo sharing, Mash-ups, General and professional SNS, video sharing sites

Unit-II

- 2.1 Web 2.0 and library: application and challenges
- 2.2 Managing scholarly communication in web 2.0 environment
- 2.3 Social networking services: trends, benefits and software for information professionals

Unit-III

- 3.1 Use of Cloud Computing: storage and collaboration
- 3.2 Create a mashup by adding a YouTube video and a Google map to a web page
- 3.3 Social book-marking, Folksonomies and User-Based Tagging

Unit-IV

- 4.1 Web 3.0 - the third decade
- 4.2 Web 3.0: features and application in libraries
- 4.3 Semantic web and linked data

Suggested Readings

Bradley, Phil . (2007). How to Use Web 2.0 in your Library. Facet Publication.

Ellyssa, Kroski. (2008). Web 2.0 for Librarians and Information Professionals. New York: Neil Schuman Publication

Theimer, Kate. (2010). Web 2.0 tools and Strategies for Archives and Local History collections . New York, Neil Schuman

Koorakki, Dinesh Vasudevam, T.M; ed . Library 2.0 and Information Management. Delhi, Atlantic Publication

Sauers, M.P. (2009). Searching 2.0. USA: Facet Publication.

Web 2.0 and Library 2.O: What Librarians Need to Know" by Elizabeth Black

**IS17307DCE -Academic Writing
(4 Credits)**

Credit Pattern

Lecture	Tutorial	Practical	Total
2	2	0	4

Objective (s)

- To focus on the academic writing processes
- To explore the possibilities of getting published

UNIT-I Academic Writing

- 1.1 Academic Writing: Purpose
- 1.2 Key Actors in Academic Writing
- 1.2 Academic Writing as Knowledge production

UNIT-II Academic Writing Platforms and Publishing

- 2.1 Platforms and Types of Academic Writing
- 2.2 Academic Writing Obstacles
- 2.3 Publishing in Academic Journals

UNIT-III Academic Review Process

- 3.1 Manuscript Evaluation and Editorial Evaluation
- 3.2 Review Process and Reviewer Qualities
- 3.3 Recommending Reviewers
 - 3.3.1 Types of Review
 - 3.3.2 Editorial Feedback
 - 3.3.3 Revisions and Submissions

UNIT-IV Research Ethics, Research Outreach and Performance

- 4.1 Ethical guidelines for Publishing
- 4.2 Publishing Companies, Publishing Fees, and Open Access Journals
- 4.3 Increasing the research visibility

Suggested Readings

- Bailey, S. (2003). *Academic writing: A practical guide for students*. England: Nelson Thornes Ltd.
- De Silva, P. U. K. & Vance, C. K. (2017). *Scientific Scholarly Communication The Changing*

Landscape. Switzerland : Springer.

Herr, K., & Anderson, G. L. (2015). *The action research dissertation: A guide for students and faculty*. California : SAGE Publications.

Lewin, B. A. (2010). *Writing readable research: A guide for students of social science*. London: Equinox.

LIS17308DCE- OPEN SOURCE TECHNOLOGY
(4 Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
3	1	0	4

Objective

- To focus on various aspects of Open Source Technology and develop skills for installing and using different Open Source Software.

Unit-I Open Source: Basics

- 1.1 Open Source: Concept and Development.
- 1.2 Open Source Initiative
- 1.3 Open Source Licensing: An overview
- 1.4 Open Source: Issues and Challenges

Unit-II Open Source Software

- 2.1 Open Source Software: Definition and Characteristics.
- 2.2 Open Source Software in different Setups: An overview
- 2.3 Benefits of Open Source Software Technology

Unit-III Open Source Environments

- 3.1 Open Source Operating Systems: Ubuntu, and FreeBSD.
- 3.2 Apache OpenOffice, LibreOffice and NeoOffice
- 3.3 Open Source Database tools: MySQL, PostgreSQL and SQLite.

Unit-IV Open Source Software and Libraries

- 4.1 Open Source Software for Digital Libraries and Institutional Repositories.
- 4.2 Open Source Content Management Systems: An overview
- 4.3 Open Harvester Systems for Libraries.

Websites (Illustrative):

Apache OpenOffice(2017).Apache OpenOffice.Available at

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

Drupal(2017).Drupal.Available at

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

FreeBSD(2017).FreeBSD.Available at

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

Joomla(2017).Joomla.Available at

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

LibreOffice(2017).LibreOffice.Available at

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

MySQL(2017).MySQL.Available at

<https://www.mysql.com/>

NeoOffice(2017).NeoOffice.Available at

<https://www.neooffice.org/neojava/en/index.php>

OpenCms(2017).OpenCms.Available at

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

Open Harvester Systems (2017).Open Harvester Systems.Available at

<https://pkp.sfu.ca/ohs/>

Open Source Initiative (2017).Open Source Initiative.Available at

<http://opensource.org/>

PostgreSQL(2017).PostgreSQL.Available at

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

SQLite(2017).SQLite.Available at

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

Sourceforge(2017).Sourceforge.Available at

<http://sourceforge.net/>

Ubuntu(2017).Ubuntu.Available at

<http://www.ubuntu.com/>

LIS17309GE-WEB RESOURCES FOR RESEARCH
(2Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
01	01	0	02

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

- 1.1 Web information Sources: Concept and Need
- 1.2 Challenges 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
- 1.3 Controlled Vocabularies and Web Site Evaluation

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

- 2.1 Artificial Intelligence: Concept
- 2.2 Heuristic Search Strategies and Navigational Query Formulation
- 2.3 Search Strategies and Refinement Techniques in Online Databases
- 2.4 Information Sources - Subject Directories, e-Journals, e-Books, Databases and ETD's

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.

ter HOFSTEDDE, 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.

LIS17310GE- ONLINE SEARCH STRATEGY & TECHNIQUES
Credit Pattern

(4 Credits)

Lecture	Tutorial	Practical	Total
01	01	0	02

Objectives

- To make students understands online search environment and natty-gritty offormulating a successful search strategy.
- To sensitize stakeholders of different searching techniques available throughvarious search engines and their utility.

Unit-I

- 1.2 Online Searching – Concept, Need and Significance
- 1.2 Resources: Types and features
- 2.3 Formulation of Search Strategy

Unit-III

- 2.1 Search Techniques: Overview
- 2.2 Boolean Search Operators & Nesting
- 2.3 Truncation, Limiting Search and Proximity Search
- 2.4 Navigational Queries

Suggested Readings

- Arasu, A., Cho, J., Garcia-Molina, H., Paepcke, A., &Raghavan, S. (2001). Searching the web. *ACM Transactions on Internet Technology (TOIT)*, 1(1), 2-43.
- Armstrong, C., & Large, J. A. (2001). Manual of online search strategies: Vol. 3. (Manual of online search strategies.)Aldershot [etc.: Gower.
- Dorigo, M., Maniezzo, V., Colorni, A., &Maniezzo, V. (1991).Positive feedback as a search strategy.
- Hartman, K., Ackermann, E. C., & Hartman, K. (2010). *Searching & researching on the Internet and the World Wide Web*. Sherwood, OR: Franklin, Beedle& Associates.
- Goldsborough, R. (1999). Searching the Web. *RN*, 62(3), 23-25.

LIS 17311OE-INFORMATION LITERACY: ADVANCED
(2Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
01	01	0	02

Unit – I

- 1.1 Concept and importance of information literacy
- 1.2 Information sources: Concept, print and online
- 1.3 Documentary (Primary, Secondary and Tertiary) and Non-documentary: Specialists, Experts, Consultants; etc

Unit- II

- 2.1 Evaluation of information sources: Criteria
- 2.2 Information search strategies: Introduction and types
- 2.3 Formulation of search strategy
- 2.4 On-line searching.

Suggested Readings

- Plotnick, E., & ERIC Clearinghouse on Information & Technology. (1999). Information literacy. Syracuse, NY: Clearinghouse on Information & Technology.
- Grassian, E. S., & Kaplowitz, J. R. (2009). Information literacy instruction: Theory and practice. New York: Neal-Schuman Publishers.
- Godwin, P., & Parker, J. (2012). Information literacy beyond Library 2.0. London: Facet Pub.
- Films Media Group, & Motion Masters Film & Video Production. (2016). Introduction to Information Literacy.
- Chodhury, C.G. (2004). Introduction to Modern Information Retrieval. (2nd ed.). London: Facet Pub.
- Katz, William. (1982). Introduction to reference work: Basic information Sources. (7th ed.). (V. 3). New York: McGraw Hill.
- Lancaster, F.W. (2003). Indexing and Abstracting in Theory and practice (3rd ed.). London: Facet Pub.
- Riedling, A. M. (2004). Information literacy: What does it look like in the school library media center. Westport, Conn: Libraries Unlimited.
- Blanchett, H., Powis, C., & Webb, J. (2012). A guide to teaching information literacy: 101 practical tips. London: Facet Publishing.

Perdew, L., & Stebbins, L. F. (2017). Information literacy in the digital age.

The Association of College and Research Libraries. (2000). Information Literacy Competency Standards for Higher Education. Chicago.

LIS17312OE-INTELLECTUAL PROPERTY RIGHTS (IPR)

(2Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
2	0	0	2

Objective

- To acquaint the students with Intellectual Property Right (IPR), Plagiarism etc.

Unit-1 Intellectual Property Right (IPR): Concept & Organization

- 1.1 Intellectual Property Right (IPR): Concept& Importance
- 1.2 Functions & Objectives of IPR
- 1.3 World Intellectual Property Organization (WIPO): Features & Functions

Unit-II Intellectual Property Right (IPR)& Plagiarism

- 2.1 Copyright, Patents& Trademarks: Concept, Need& Importance
- 2.2 Infringements of IPR: Plagiarism
- 2.3 Types of Plagiarism
- 2.4 Anti-Plagiarism Software (iThenticate, Plagiarism Checker, Viber etc.)

Suggested Readings

Engdahl, S. (2010).Intellectual property rights. Detroit, MI: Greenhaven Press

Dutfield, G., Correa, C. M., UNCTAD/ICTSD Project on IPRs and Sustainable Development., United Nations Conference on Trade and Development., & International Centre for Trade and

Sustainable Development. (2003). *Intellectual property rights: Implications for development*. Geneva, Switzerland: International Centre for Trade and Sustainable Development (ICTSD).

Revesz, J., & Australia. (1999). *Trade-related aspects of intellectual property rights*. Canberra: Commonwealth of Australia.

Two-Day National Level Seminar on Intellectual Property Rights, Ashok, K. M., Ali, M. I., India., & Kakatiya University. (2008). *Intellectual property rights*. New Delhi: Serials Publications.

WIPO. (1993). *Introduction to trademark: Law and practice : the basic concepts : a WIPO training manual*. Geneva: World Intellectual Property Organization.