

School of Library and Information Science

Course No. 611: M. Phil

RESEARCH TRENDS IN LIBRARY AND INFORMATION SCIENCE

Unit-I Trends and Developments in Library and Information Management

- Resource Management and Development: Human, Financial, E-Resources and Open Educational Resources
- Digital Library: Components, Digitization tools and technologies, Digital Library Initiatives in India, Open Access Initiative
- Marketing of information Products and Services
- Disaster Management, Digital Information Resources Management, Knowledge Management

Unit-2 Library Networks and Consortia

- Networks and Networking: Types, Hardware/ Software Requirements
- Data Networks, Library & Information Networks and Services
- Electronic Resource Management (ERM) and Library Consortia
- Legal Issues: Copy Right and Intellectual Property Rights in Electronic Environment

Unit-3 Emerging Technologies in Library & Information Centres

- Library Security and Surveillance: RFID, Bar Code, Smart Card, 3M Security, CCTV
- Web Technology: Web 2.0 and Web 3.0 features and functions; Web 2.0 tools and applications in libraries (Weblogs, Podcasts, RSS Feed, Instant Messaging, Wikis, Flickr, Social Networking), Web-scale discovery, Linked open data
- Cloud Computing: Concept, Need, Objectives and its application in libraries
- OER, MOOCs and Digital Library Initiatives: NPTEL, mooKIT, IITBX, SWAYAM Edx; NDLI

Unit-4 Research Communication

- Research Reporting: Structure, Style, Content, Quality parameters and Citation Standards (Chicago, MLA and APA).
- Reference management System: Mendeley, Endnote, Reference Work etc.
Research support tools: Online survey tools, research profile, research guides, Plagiarism checker
- Research Communication Channels: Research-in-Progress, ETD repositories, Institutional Repositories, Subject Repositories.

References and Further Reading

- Andreasen, Alan and Kotler, Philip (2002) Strategic Marketing for Non-Profit Organisation. 6th ed., NJ: Prentice Hall.
- Bayross, Ivan, N. (2003) Database Concepts and Systems. Navi Mumbai: Shroff.
- Boulos, M. N., I.Maramba, and S. Wheeler.“ Wikis, Blogs and Podcasts: A New Generation of Web-based Tools for Virtual Collaborative Clinical Practice and Education”.BMC Med Edu 6(2006): 41. Web.
- Glassman, N. R. (2018). Citation management tools: A practical guide for librarians.
- Gunasekara, Angappa (2003). Knowledge and Information Technology Management: Human and Social Perspectives. Hershey: Idea Group Publishing.
- Haynes David (2004) Meta Data for Information Management and Retrieval. London: Facet.
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- http://www.wtec.org/loyola/digilibs/00_es.htm
- Jenkins, Martin. (2006) Supporting Students in e-learning. In Digital Literacies for Learning. (Eds) Allan Martin and Dan Madigan, Facet Pub. London, pp. 162-171.
- JISC. “Digital Repositories: Helping Universities and Colleges”. Briefing Paper.2005. Web.
- Katy Jordan (2014), Initial trends in enrolment and completion of massive open online courses, The International Review of Research in Open and Distance Learning, Vol. 15 (1), <http://www.irrodl.org/index.php/irrodl/article/view/1651>
- Kotler, Philip and Armstrong, Gary (2005). Principles of Marketing 11th ed., NJ: Prentice Hall.
- Lassibille, G and Gomez, Lucia Navarro. (2007) Why do higher education students drop out? Evidence from Spain. Education. Education Economics. 16, 89-105.
- Lupone, G. (2000) Digital Libraries: Potentials and Risks. Library High Tech. 17(1) 30.
- Maness, J. M.: Library 2.0 Theory: Web 2.0 and Its Implications for Libraries. Webology, 3(2), 2006. <Available at <http://www.webology.ir/2006/v3n2/a25.html>>
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- Martin, Allan and Madigan, Dan. (2006) (Eds) Digital Literacies for Learning. Facet Pub, London.
- Meadow, Charles T. Boyce, Bert R. and Kraft, Donald. H. (2000) Text Information Retrieval Systems. 2nd ed., San Diego, CA: Academic Press.
- Natarajan, Ganesh (2000) Knowledge Management: Enabling Business Growth, New Delhi: Tata McGraw Hills.
- Oreilly, Tim. “What is Web 2.0: Design Patterns and Business Models for the Next Generation of Software”.Communications & Strategies1(2007):17.Web.
- Powell, Thomas A (2000) The HTML Complete Reference. 2nd ed., New Delhi: Tata McGraw Hill.
- Raman, A Thothathri (2003) Knowledge Management: A Resource Book. New Delhi Excel Books.
- Sollumon, Michael R., Marshall, Greg W. and Stuart, Elnoro (2004) Marketing Real People, Real Choices, 4th ed., NJ: Prentice Hall. Trcson, Arizona: Knowledge Computing Corporation.

SEMESTER-1
Paper-612
(Research Methodology-I)
Theory-Compulsory
Marks: 80+20 (Credits: 4)

UNIT-I: SCOPE OF RESEARCH AND ETHICS:

Introduction and Scope

Research problem: Identification, Selection, Formulation of research objectives.

Research design: Components, Types and Importance

Research ethics, Institutional ethics committee

Plagiarism-Pitfall.

UNIT-II: Technical Writing:

Types of technical documents; Full length research paper, Short/Brief communications, Letters to editor, Book chapter, Review, Conference report, Project proposal.

Components of a full length research paper; Title/Topic statement, Abstract/key words, Aims and objectives, Hypothesis building, Rationale of the paper, Workplan, Materials and methodology, Results and discussion, Key issue and arguments, Acknowledgement, Conflict of interest statement, bibliography, Technical Resumes & Cover Letters.

Components of a research proposal; Project summary Key words, Origin of the proposal, Major Objectives Methodology, Instrument facility available in the PI's department, Overview of status of Research and Development in the subject, Importance of the proposed project in the context of current status, Bibliography.

UNIT-III: SCIENTOMETRICS

How to cite and how to do referencing

Literature search technique, using SCOPUS, Google Scholar
PUBMED, Web of Science, Indian Citation Index, and RG

Styles of referencing; APA, MLA, Oxford, Harvard, Chicago

Annotated bibliography

Tools for citing and referencing, Grammarly, Endnote etc

UNIT -IV: PRESENTATION AND COMMUNICATION SKILLS

Tables, Figures and Pictures using Excel PowerPoint

Slide preparation

Preparation of Posters

Electronic submission of manuscripts

Communication skills, oral and poster

SEMESTER –I
Paper–613
(Research Methodology -II)
Theory –Compulsory
Marks –80 + 20 (4 CH)

UNIT –I: IPR AND CYBER LAW

Patents

Patent laws, process of patenting a research finding

Intellectual property (IP), Intellectual property right (IPR)

Copyright, Trademarks, GI

Cyber laws

COPE

UNIT –II: QUANTITATIVE DATA ANALYSES

Types of data, Data collection -Methods and Tools

Hypothesis testing

Normal and Binomial distributions and their property

Tests of significance: Student t-test, F-test, Chi-square test

Correlation and Regression

ANOVA -One-way and Two-way, Multiple-range test

UNIT –III: COMPUTER FUNDAMENTALS

Introduction to MS-Office software: MS-Word (Track change)

MS-Excel

MS-Power Point

MS-Access

Features for Statistical data analysis using computers and software

Microsoft Excel Data Analysis Tool Pak, SPSS

UNIT –IV: ADVANCED TOOLS & TECHNIQUES

Python: Basic syntax, interactive shell, editing, saving, and running a script.data types; variables, assignments; immutable variables; numerical types; arithmetic operators and expressions. Conditions, Boolean logic, logical operators; ranges; Control statements: if-else, loops (for, while);

Strings and text files; manipulating files and directories, os and sys modules; text files: reading/writing text and numbers from/to a file; creating and reading a formatted file (csv or tab-separated). String manipulations: subscript operator, indexing, slicing a string; strings and number system: converting strings to numbers and vice versa.

Lists, tuples, and dictionaries; basic list operators, replacing, inserting, removing an element; searching and sorting lists; dictionary literals, adding and removing keys, accessing and replacing values; traversing dictionaries.

Image Processing using OpenCV and Python

SEMESTER –I
Paper –614
Marks –100 (4 CH)

TEACHING ASSIGNMENT

SEMESTER –II
Paper –621
Marks–150+ 25+25(8CH)

DISSERTATION
(Thesis + Seminar Presentation of the Thesis + Viva –Voce)