Faculty of Arts

Syllabus

for

Master of Library and Information Science
(M.Lib. & I.Sc.)

P.K. UNIVERSITY, SHIVPURI (M.P.)

P.K. UNIVERSITY, SHIVPURI (M.P.)
Faculty of Arts
Master of Library and Information Science
(M.Lib.& I.Sc.)
(SEMESTER-I)

S.No.	Paper Code (T: Theory;)	Course Title	Credits(L: Lecture ; T: Tutorial;P:Practical				Exam. Marks		Total Marks
			Credits	L	T	P	CCE	UE	
1	MINFOML101	Information, Communication and Society	6	6	0	0	40	60	100
2	MINFOML102	Information, Systems and Programmes	6	6	0	0	40	60	100
3	MINFOML103	Information Storage and Retrieval Systems	6	6	0	0	40	60	100
4	MRESEML104	Research Methodology	4	4	0	0	40	60	100
5	MERESML105	E-Resources management	2	6	0	4	40	60	100
			24(C)				200	300	500

(Semester-II)

S.No.	Paper Code (T: Theory;)	Course Title	Credits(L: Lecture ; T: Tutorial;P:Practical				Exam. Marks		Total Marks
			Credits	L	T	P	CCE	UE	
1	MINFOML106	Information and Communication Technology (Theory)	4	6	0	0	40	60	100
2	MINFOML107	Information, Communication and Technology(Practical)	2	0	0	4	40	60	100
3	MINFOML108	Management and Organisation of Libraries andInformation Centers	6	0	0	0	40	60	100
4	MRESEML109	Digital Library	6	6	0	0	40	60	100
5	MERESML110	Content Management	6	6	0	0	40	60	100
			24(C)				200	300	500

P.K. UNIVERSITY, SHIVPURI (M.P.)

Faculty of Arts

Master of Library and Information Science (M.Lib. & I.Sc.)

FIRST SEMESTER

Paper-I : Information, Communication and Society

Unit – 1 Information and Communication: Concepts

Information: Characteristics, Nature, Value and its use Conceptual Difference between Data, Information and knowledgeTrends in Information communication Generation of Information: Modes and formsDigital Information

Unit – 2 Information Society

Information Society- Concept, Definition, Characteristics.Role of information Society in Library Profession Policies relating to information, Censorship, Data Security, Right to Information Act, NationalKnowledge Commission. Changing role of library and information centers in information society.

Unit – 3 Communication

Communication : concepts and nature.
Communication and its types : Intra-personal, Inter-personal and Mass Communication.
Communication process : elements, cycle.
Communication models - Shannon and Weaver's Lasswell's, Wilbur Schramm's
Communication channels in information centers - Oral, Written and Visual
Communication barriers.

Unit – 4 Information Economics

Information as a Economic resource, as a Marketable Commodity.
Marketing of information product and services
Cost analysis and E marketing

Unit – 5 Information Management

Information Management- Concept, Definition, Tools.
Information Explosion, Information Revolution, web Based information, Inflow & Exponential growth.

SUGGESTED READINGS:

1.   Agrawal, S.S., Granthalaya and Samaj, Jaipur: RBSA Publisher, 1994.
2.   Krishan Kumar, Library organization, Delhi, Har Anand, 1993.
3.   Landheer, B., Social functions of libraries. 1957.
4.   McColvin, L.R., The chance to read: public libraries of the world. 1956.
5.   Sahai, S.N., Library and community. 1973.
6.   Sharma, Pandey S.K., Library and society, Ed 2, Delhi: Granth Academy, 1998.
7.   Vyas, S.D., Library and society, Jaipur : Panchsheel, 1993
8.   Khanna, J.K., Library and Society, 1987.
9.   Ranganathan, S.R, Five laws of library science, Ed.2.
10.   Unesco : Public libraries, Their Mission, Paris: Unesco, 1961.
11.   Vyas, S.D., Library and society, Jaipur : Panchahed, 1993.
12.   Hill, Michael W., The impact of information on society : an exa
13.   Agarwal,Shyam Sunder, Pustakalaya aur Samaj, Jaipur: R.B.S. Publishres, 1994.
14.   Saxena, S.L., Pustakalaya Sangthan tatha Vyavasthapan,Bhopal: MP Hindi Granth Academy, 1988.
15.   Khan, MTM, Information: Organization and communication, New–Delhi: ESS ESS Publication.
16.   Khanna, J.K., Documentation and information: Services, system and techniques, Agra: Y.K. Publishers, 2000.
17.   Sonal Singh, Universe of knowledge: Structure & development, Jaipur: Raj Publishers.

Paper- II : Information, Systems and Programmes

Unit – 1 Information systems and organizations

Information Organisation as a System: Basic Concepts, Types and Characteristics. Kinds of Information Systems: Libraries, Documentation Centers, Information centers, DataCenters, Information Analysis Centers, Referral Centers. Archives and Translation pools: Function and Services

Unit – 2 National Information systems

Planning and Design of an Information System National Information Policy, National Information systems: NISCAIR , DESIDOC , National Digital Library of India (NDL), INFLIBNET, DELNET.

Unit – 3 Global Information systems

Programmes and Activities of UNESCO, UNISIST, INIS , AGRIS, INSPEC and MEDLARS, NISSAT, etc.World Digital Library

Unit – 4 Information services

Information Services - importance, need, types.Internet service - e-mail, facebook, youtube. Resource Sharing, Library Networks and Library Consortia, CSIR E-Journals Consortium, MOOC's, SWAYAM, SWAYAMPRABHA, Digital Library Consortium

Unit – 5   Information Products

Documentation Services, Translation Services, Bibliographical services.CAS , SDI, Document Delivery Service, Newsletter, In-house Journal, State of the Art Report, Trend Report. Reprographic service, Indexing and Abstracting.

SUGGESTED READINGS:

1.   Atherton, P. (1977). Handbook for information systems and services. Paris: Unesco.
2.   Barua, B. P. (1992). National policy on library and information systems and services for India: Perspectives and projections. Bombay: Popular Prakashan.
3.   Bawden, D. (1990). User-oriented evaluation of information systems and services. Aldershot: Gower.
4.   Chaddha, K. (January 01, 2014). Marketing of Library and Information Products and Services. Chatterjee, Amitabha (2013). Elements of information analysis, consolidation and repackaging (IACR). Kolkata: Prova Prakashani.

5. Checkland, P., & Holwell, S. (1998). Information, systems, and information systems: Making sense of the field. Chichester: Wiley.
6. Chowdhury, G. G., & Chowdhury, S. (2011). Information users and usability in the digital age. New York: Neal-Schuman Publishers, Inc.
7. Choukhande, V. G. (2008). Information needs and information seeking behaviour: Library and information science research. Amravati, India: Shivneri Publisher
8. Cochrane, P. A. (1977). Handbook for information systems and services. Paris: Unesco.
9. Guinchat, C., Menou, M., & Unesco. (1983). General introduction to the techniques of information and documentation work. Paris: Unesco.
10. Hayes, R. M. (1974). The national library network: its economic rationale & funding. Washington: National Commission on Libraries and Information Science. International Atomic Energy Agency. (1979). Orientation manual for INIS and AGRIS. Vienna: International Atomic Energy Agency.
11. Kruzas, A. T., & Sullivan, L. V. (1978). Encyclopedia of information systems and services: A guide to information storage and retrieval services, data base producers and publishers, online vendors. Detroit: Gale Research Co.
12. Kumar, P. S. G. (2004). Information analysis, repackaging, consolidation & information retrieval: Paper X and XI of UGC model curriculum. Delhi: B.R. Publishing Corporation.
13. Lancaster, F. W. (1978). Guidelines for the evaluation of information systems and services. Paris: Unesco.
14. Lancaster, F. W. & Smith, L. C. (1983). Compatibility issues affecting information systems and services. Paris: Unesco, PGI & UNISIST.
15. Seetharama, S. (1997). Information consolidation and repackaging: Framework, methodology, planning. New Delhi: Ess Ess Publications.
16. Singh, Sewa. (2014). Information analysis, consolidation and repackaging. New Delhi: Atlantic Publishers & Distributors.

Paper-III : Information Storage and Retrieval System

Unit – 1 Fundamental OF Information Retrieval System

Information Retrieval System: Concepts, Purpose, Function, Component and Feature of IRS Information Retrieval Process and Search Strategy, Vocabulary Control Tools: Classification Schedules, Subject Heading Lists and Thesaurus Need, Structure and Construction of Thesaurus

Unit – 2 Indexing

Indexing: Concept and Need, Concept of Indexing System: Pre and Post Co-ordinate Indexing System. Study of Pre Co-ordinate Indexing System : PRECIS, POPSI, Chain indexing. Study of Post co-ordinate indexing System: UNITERM indexing System Keyword Indexing System: KWIC, KWOC, Citation Indexing: Online citation Indexing system

Unit – 3 Bibliographic Descriptions

Bibliographic Description: Concept, Definition and role. Study of ISBD,ISBN and ISSN, Standards for Bibliographic Record FormatsMetadata Concept, Metadata Standards: Dublin Core, MARC 21 etcWorld Cat, Indcat

Unit – 4 Search Techniques and Information Retrieval

Information Search Process, Search Strategies : Boolean Operations, Proximity Search, heuristic Search, Navigational Search etc.,Internet Searching and Meta Search Engines Data Mining, Semantic Web, Ontology

Unit – 5 Abstracting

Abstracting : Introduction, Types, Cannons. Major International Abstracting Services. Web based abstract, Indian Science Abstract

SUGGESTED READINGS:

1. Choudhary, G.G., Introduction to modern information retrieval, Ed.2, London : Facet Publishing. 2003.
2. Guha, B., Documentation and information: Services, techniques and systems, Calcutta: World Press, 1983.
3. Chakraborty, A.R. and Chakraborty, Bhubaneswar, Indexing : Principles, processes and products, Calcutta : World Press, 1984.
2. Fosket, A.C., Subject approach to information, Ed.5, London:Clive Bingley, 1996.
3. Varma, A.K., Trends in Subject indexing, Delhi: Mittal:Publication, 1984.
5. Tripathi,S.M., Pralekhan avam suchna sevayein tatha Networks, Agra: Y.K. Publishers, 1997.
6. Brown,A.G.,Introduction to subject indexing , Ed.2,London : Clive Bingley ,1982.
7. Chakraborty,A.R and Chakraborty, Bhubaneswar,Indexing principles processes and product,Calcutta : World Press, 1984.
8. Foskett, A.C.,The subject approach to information, Ed.5 , London : Library Association publishing ,1966.
9. Khanna, J.K., Documentation and information services : System and technology .Agra : Y.K.Publishers , 2000.
10. Varma,A.K., Trends in Subject indexing ,Delhi : Mittal Publication ,1984.
11. Austin,D.,PRECIS : A manual of concept analysis, Ed. 2, London : The British Library, 1984.
12. Bhattacharyya, G.,Elements of POPSI, In : Rajan, T.N., Subject indexing system Calcutta : IASLIC 1981 13. Chokraborty,A.R.,and Chakraborty ,Bhubaneswer, indexing principles : Processes and Products Calcutta : World Press 1984
14. Fosket , A.C., Subject approach to information Ed. 5 London : Clive Bingley 1996
15. Neelameghan, A.,D Subject heading as a system Annual Suminar Banglore , DRTC; Paper.K.,1971 7. Varma,A.K.,Trend in subject indexing Delhi : Mittal Publications 1984

Paper- IV : Research Methodology

Unit – 1 Research

Research: Concept, Need, Process and Types.
Research Design
Research Proposal
Hypothesis
Research Ethics
Research report writing- Structure and Style

Unit – 2 Research Methods

Scientific Method
Historical Method
Descriptive Method
Survey Method
Case Study Method
Experimental Method

Unit – 3 Research Techniques

Sampling Techniques
Data collection methods : Questionnaire, Schedule, Interview, Observation.

Unit – 4 Data Analysis and Interpretation

Measures of Central Tendency : Mean, Median, Mode, Dispersion, Correlations, linear regression, Chi-Square test, t-test z-test, f-test
Presentation of Data : Tabular, Graphic, Bar Diagram and Pie Chart
Report Writing : Style, Structure.
Statistical Data Analysis – Use of Statistical Packages (SPSS and others).
Plagiarism: Definition and Concepts.
Plagiarism Software: URKUND, TURNTIN etc.

Unit – 5 Metric Studies and Style manuals

Bibliometrics, Scientometrics, Informetrics, Webometrics, Librametry.
Bibliographical Reference, Reference Citation, Bibliography, Footnotes, Quotation etc.
Reference Management Tools.
Reference Styles, MLA, APA, Chicago

SUGGESTED READINGS:

1.   Boyce, R.R., Meadow, C.T. & Kraft, D.H. (1994). Measurement in information science. San Diego, CA: Academic Press.
2.   Busha, Charles A, & Harter, Stephen P. (1980). Research methods in librarianship: techniques and interpretations. New York: Academic Press. Connaway, Lynn Silipigni & Powell,
3.   Ronald R. (2010). Basic research methods for librarians. 5th ed. Santa Barbara, CA: Libraries Unlimited.
4.   Das, N.G. (2009). Statistical methods. Calcutta: Tata McGraw-Hill. Glazier, Jack D, & Hall, Peter M. (1992). Qualitative research in information management. Englewood, CO: Libraries Unlimited. Goon, 5. A.M., Gupta, M.K. and Dasgupta, B. (1978). Basic statistics. Calcutta: World Press.
6.   Gorman, G.E. & Clayton, Peter. (2004). Qualitative Research for the Information Professional: a practical handbook. 2nd ed. London: Facet.
7.   Gupta, S.P. (2002). Statistical Methods. New Delhi: Sultan Chand.
8.   Donald, H. K. & Boyce, Bert R. (1991). Operations research for libraries and information agencies: techniques for the evaluation of management decision alternatives. San Diego: Academic Press.
9.   Hafner, Arthur W. (1997). Descriptive statistical techniques for librarians. (2nd ed.). Chicago: American Library Association.
10.   Hernon. P. (1989). Handbook of statistics for library decision making. Norwood, NJ: Ablex.
11.   Khan, M. A. (2002). Research methods in library and information science. New Delhi: Cosmo Publications.
12.   Krishan Kumar (1992). Research methods in library in social science. New Delhi: Vikas.
13.   Lawal, I. O. (2009). Library and information science research in the 21st century: a guide for practicing librarians and students. Oxford,l UK: Chandos Pub
14.   Losee, Robert M., Jr., & Worley, Karen A. (1993). Research and evaluation for information professionals. San Diego: Academic Press.
15.   Lynam, P., Slater, M. &Walker, R. (1982). Research and the practitioner: dissemination of research results within the library-information profession. London: Aslib.
16.   Martyn, John, & Lancaster, F. Wilfrid. (1981). Investigative methods in library and information science: an introduction. Arlington, VA: Information Resources Press.
17.   Moore, N. (2006). How to do research. 3rd ed. London: Facet Publishing. Pickard, Alison Jane. (2012). Research Methods in Information. 2nd ed. London: Facet.
18.   McClure, Charles R. & Hernon, Peter, Ed. (1991). Library and Information science research: perspectives and strategies for improvement. Norwood, NJ: Ablex Publishing Corporation.
19.   Simpson, I. S. (1990). How to interpret statistical data: A guide for librarians and information scientists. London: Library Association.
20.   Slater, Margaret, Ed. (1990). Research methods in library and information studies. London: Library Association.
21.   Stephen, Peter, & Hornby, Susan. (1995). Simple statistics for library and information professionals. London: Library Association.

Paper- V : E-Resources Management

Unit – 1 Information sources

Information sources- categories, feature, organization
Information sources Vs Information resources
Roles of Information sources in education and research
Documentary source
Non print materials including digital information sources

Unit – 2 Digital Information Literacy

Information Literacy- element, standard, role in knowledge society,
Digital Information skills- Programme, initiatives and channels
Skill related to searching, browsing
Managing Social Media

Unit – 3 Accessing Electronic Resources

Accessing electronic resources
Accessing union catalogue
Accessing bibliographic databases
Accessing electronic alerting services

Unit – 4 Open Access Resource

Open Access- what and why
Open Access- Gold path and Green path
Open Access ETD, Text Book

Unit – 5 Open Educational Resources (OER)

OER- what and why
OER- Programme and Initiatives
OER Repositories
OER and MOOC
OER and swayam

SUGGESTED READINGS:

1. Ellingsen, M., (2004). Electronic Resource Management Systems, LIBER Quarterly, 14 (3-4), p. None. DOI: http://doi.org/10.18352/lq.7782, accessed on 9-05-2018 from https://www.liberquarterly.eu/articles/10.18352/lq.7782/

2. Singh, Neena (2001). Internet: Importance and usage for library and Information professionals, DESIDOC Bulletin of Information Technology, Vol., 21, No. 3, 17-28.

3. Foulonneau, M, Metadata for digital resources: implementation, systems design and interoperability, 2008, Oxford, Chandos

4. Resnick, T, Ugaz, A, Burford and N, Carrigan, E, E-resources: transforming access services for the digital age, Library Hi Tech, 2007, 26(1), 141–156.

5. Collins, M, Electronic resource management systems (ERMS) review, Serials Review, 2008, 34(4), 267–299.

Second Semester

Paper-I : Information and Communication Technology (Theory)

Unit – 1 Web Technology in Libraries

ICT : Definition, Concepts, Need, Scope and objectives.
Implication of www on Library Website, Web OPAC
Web 2.0, 3.0: Feature and Function
Web Directories, Subject gateways, Library Portal
Weblogs (Blogs), Podcasts, RSS Feeds, Instant Messaging, Wikis, Flickr etc

Unit – 2 Integrated Library Automation and Networking System

Open Source Library Software and its Application
Web Based Library Management Software
Library Software Security Parameters
Virtual Library

Unit – 3 Multimedia and Institutional Repositories

Multimedia: Definition and Concept
Multimedia application in Libraries
Image creation using Photoshop, Coral Draw etc.
Institution Repositories: Greenstone Digital Library, Dspace etc.

Unit – 4 Introduction to Network

Computer Networks: Basic, Types, Components, Categories
Wireless Networking and Emerging Networking Technologies
Network Software: Network Operating System, Domain Name system and Network management system

Unit – 5 Emerging Technologies in Libraries

RSS Feed Technologies and use in Libraries
Library Security Technologies- RFID, Barcodes, Smart Card and CCTV etc.
Video and Audio Conferencing
Digital content Management System
Artificial Intelligence and Libraries

SUGGESTED READINGS:

1. BOSS (Sanjoy K). Hardware and Software of personal computers. 1991.Wiley Eastern; NewDelhi

2. HUNT (Roger). and SHSLIE (John). Computers and commonsense. 1990. 4th ed. Prentice-Hall;New Delhi.

3. LAST (R). MS DOS revealed. 1991. Galgotia; New Delhi.

4. MAHAPATRA (P K). The Computer in Library Services. 1985. World Press; Calcutta.

5. NEW PETER (G). Reprography for librarians. 1975. Clive Bingley; London .

6. RAJARAMAN (V). Fundamentals of computers. 1991. Prentice – Hall; New Delhi.

Paper-II : Information Communication and Technology: (Practice)

Unit – 1 Website Designing and Navigation Tools

Designing static and Dynamic Library Website
Developing Web Directories, Subject Gateway and Library Portal
Designing and Developing Library Blogs, RSS Feed, Wikis and Flickr etc.
Image Creation using Photoshop etc.

Unit – 2 Integrated Library Management Systems and Institutional Repositories

Installation and configuration, Hands on Functional Modules of an integrated library
Management system (Open Source)
Web based library Management software
Installation and Configuration, Hands on Collection building using Open Source Software
(GSDL/Dspace)

Unit – 3 Audio and Video Conference

Audio Conferencing
Video Conferencing

Unit – 4 Advanced searching and Metadata Creation

Downloading MARC-21 records using Z39.50 records
Federated Search
Creation of Metadata

Unit – 5 Software Practice

Customization of GSDL /Dspace

SUGGESTED READINGS:

1. BRODY (E W). Communication tomorrow: new audiences, new technologies, new media.1990. Praeger; New York
2. CAWKELL (A E). World information technology manual. Vol. I. computers, telecommunications and information processing. Vol. II. Systems and services.1991. Elsevier; Amsterdam.
3. CRAWFORD (Walf). Current technologies in the library: an informal overview.1988. G. K. hall; Boston.
4. KENDALL (P A). Introduction to systems analysis and design: a structures approach.1987. Allyn& Bacon; Boston.
5. RAJARAMAN (V). Fundamentals of computers. 1991. Prentice – Hall; New Delhi.
6. https://www.dspace.com
7. http://gsdl.org.in
8. https://www.loc.gov › marc
9. http://www.loc.gov › z3950

Paper- III : Management and Organization of Libraries and Information centers

Unit – 1 Management

Concept, Definition and Scope
Function and Principles of Management
Scientific Management
Total Quality management- Definition, Concept, Elements

Unit – 2 Planning and Human Resource

Planning- Definition, Need and Purpose
Organizational Structure and Library Committee
Performance Evaluation
Library Building and Infrastructure Planning
Job description and analysis with reference to libraries
Human Resource Development

Unit – 3 Library Finance

Source of Finance
Budget- concept, definition, purpose and techniques for budget preparation
Budget Management

Unit – 4 Library House Keeping Operations

Different section of Library and Information Centre
Functions of Library Housekeeping operation

Unit – 5 Library Records and Statistics

Library rules, stock verification
Weeding out policies and procedure
Types of reports, content and style of annual reports, Library statistics etc.

SUGGESTED READINGS:

1. ANDERSON (R). Management information systems and computers: an introduction. 1986.
2. Application of management techniques to library and information systems, 12th IASLICconference, Roorkee, 1979.
3. Conference on the corporate approach to library management. Proceeding ed by P.A.Thomasand V.A.Woard. Aslib; London.1974.
4. JONES (Noragh) and JORDAN (Peter). Case studies in library management . 1988. CliveBingley; London.
5. KHANNA (J K) . Fundamentals of library organization . 1984 . Ess Ess ; New Delhi.
6. MITTAL(R L) . Library administration: theory and practice. 1983. 5th ed. Metropolitan; NewDelhi.
7. MOOKHERJEE (S K) and SENGUPTA (B). Library organization and library administration .1972.   World Press; Calcutta.
8. NARAYANA (G J) . Library administration. 1959. 2nd ed. Asia house; Bombay.
9. RANGANATHAN (S R) . Library manual. SEETHARAMA (S) . Guidelines for planning oflibraries and   information centers .1990 .
10. SINGH (M). Library and information management: theory and practice. 1983 . IBT; Delhi.

Paper- IV : Digital Library

Unit – 1 Digital Library

Digital Library- Meaning and Definition, Objectives, Characteristic, Evolution
Digital Library Collection

Unit – 2 Content Creation

Electronic documents file and file formats.
Study of different file formats- JPEG, MPEG, GIF, TIFF and PDF
Digitization- Scanning, OCR

Unit – 3 Creating Web Documents

Markup Language, SGML, HTML and XML
Studying and Creating documents in HTML
HTML editors and tools

Unit – 4 Digital Library Architecture

Elements of Digital Library
DOI, Open URL, Cross reference and other aspects
Metadata- MARC-21, Dublin core, Access control and DRM
Security and Parameters issues

Unit – 5 Digital Library Software

Studying and feature of GSDL/DSpace
Installation and developing collection using GSDL/DSpace
Copyright issues in the development of Digital Library

SUGGESTED READINGS:

1.   Argerich, K. (2004). Professional PHP programming. Mumbai: SPD/Apress Reprints.
2.   Arms, W. (2000). Digital libraries. Cambridge MA: MIT Press,.
3.   Bayross, I. (2000). Using Apache, MySQL, PHP and PERL on Linux. New Delhi: BPB Publications.
4.   Bhatnagar, S. (2002). Information and communication technology in development: cases fromIndia. New Delhi: Sage.
5.   Barnes, S. J. (2004). Becoming a digital library. New York: Marcel Dekker.
6.   Brophy, P. (2001). The library in the twenty-first century. London: Library Association.
7.   Calhoun, Karen. (2013). Digital libraries. London: Facet Publishing.
8.   Caplan, Priscilla. (2000). Metadata fundamentals for all librarians. Chicago:: ALA.
9.   Chowdhury, G.G. & Chowdhury, S. (2003). Introduction to digital libraries. London: Facet Publishing.
10.   Chowdhury, G.G. & Foo, Schubert, Ed. (2012). Digital libraries and information access: research perspectives. London: Facet Publishing.
11.   Verheul, I., Tammaro, A. M., & Witt, S. (2010). Digital Library Futures: User Perspectives and Institutional Strategies.
12.   Berlin: De Gruyter Saur. Fox, E. A., & Torres, R. S. (2014). Digital Library Technologies: Complex Objects, Annotation, Ontologies, Classification, Extraction, and Security. San Rafael: Morgan & Claypool Publishers.
13.   Gorman, G.E, & Dorner, D.G. (2004). Metadata applications and management. London: Facet Publishing,.

14.   Lesk, M. (2004). Understanding digital libraries. 2nd ed. San Francisco
15.   Oleck, J., & Primary Research Group. (2012). Creating the digital library. New York: Primary Research Group, Inc.
16.   Morgan & Claypool. Stewart, C. (2010). The academic library building in the digital age: A study of construction, planning, and design of new library space. Chicago, Ill: Association of College and Research Libraries.
17.   Tanenbaum, A.S. (2001). Computer networks (3rd ed.). New Delhi: Prentice-Hall.
18..   Thomas A. Peter. (2000). Library Trends: Special issue: Assessing digital library services,

Paper- V : Content management

Unit - 1

Introduction to Content Management system
Benefits, Principles, Architecture, system and Data integration in CMS

Unit - 2

Creating and Managing Web Page
Content on Web Page
Fundamental of Planning of Dynamics websites

Unit - 3

Overview of CMS
Dynamics and Flexible websites
Evolution of CMS

Unit - 4

Application of CMS
CMS and Community Information system
Document Management
Record management Digital
Assets management

Unit - 5

Practice of CMS Like Word press, Joomla, Drupal and other to create and flexible websites

SUGGESTED READINGS:

1.   ANDREWS(Judith) , LAW(Derek).Digital Libraries: Policy, Planning and Practice
2.   CHOWDHURY(G G) and CHOWDHURY(SUDATTA) . Introduction to Digital Libraries. 2003
3.   LESK(Michael). Understanding Digital Libraries.2004
4.   WITTEN(Ian H.), BAINBRIDGE(David) and NICHOLS(David M.) . How to Build a DigitalLibrary. 2010