

## Appendix "C" Item No. 5

### **LIBRARY AND INFORMATION SCIENCE**

Regulations and Syllabus Relating to Two -Year M.L.I.Sc Degree Examination (Semester System) for Choice Based Credit System (CBCS) (effective from 2023-2024 Onwards)

#### **Objectives:**

- \* The primary objective is to train the students in the basics of professional skills for information / knowledge management, so that they serve the society through an institution of library and information centre.
- \* To give the students an understanding of the basic principles of fundamental laws of Library and Information Science and to enable them to understand, appreciate and develop professionalism to work in contemporary "Information Age".
- \* To acquaint the students with the development of the Universe of knowledge and methods of its organization in a library system
- \* To train students in the techniques of Information Management and equip them with the application of Information Technologies (IT) in libraries and information centers
- \* To make students fully aware of various sources of information; and train them in techniques of information search, retrieval and dissemination of information in the context of different user groups.

#### **Admission:**

- \* Candidates for two-year M.L.I.Sc Degree Examination shall be required to have passed a degree examination of this University or a degree examination of any other University recognized by the Academic Council and equivalent thereto.
- \* Further the candidate should be qualified in APPGCET examination to be conducted in May/ June of every year.
- \* The course is divided into M.L.I.Sc (Previous) and M.L.I.Sc (Final) of two semesters each.

#### **Examination:**

- \* The candidates shall be required to take at the end of each semester an examination as detailed in the scheme of examination.
- \* The medium of instruction and examination is in English
- \* Each paper of the examination shall unless otherwise prescribed, be of three hours duration.
- \* Evaluation of the performance of the candidates in respect of each paper (except papers 20, 21 and 22) shall consist of semester-wise examination for 70 marks.
- \* In addition to Semester end examination the candidate shall be required to take two mid semester examinations as per the academic calendar during each semester for 30 marks (i.e. the best one of marks awarded for two mid semester examinations).
- \* The Scheme of Papers and the Scheme of Instruction and Examination shall be given in Annexure-I and II.
- \* Assessment in the semester-end examination shall be made in accordance with the regulations
- \* The names of successful candidates at the examination shall be arranged in the order in which they are registered for the examination on the basis of the total marks obtained by each candidate in the semester-end examination.
- \* Only those candidates who appear and pass the examination in all the papers of the degree examination at first appearance are eligible to be placed in Distinction. However no candidate who has not passed all the papers at the first appearance shall be eligible for the Award of Medals or Prizes by the University and to receive certificates of Rank obtained by them in the examination. A candidate who fails to appear for semester-end examinations shall be permitted to appear for the same in the next year semester-end examinations.

#### **Attendance:**

- \* The students are required to put in 100% attendance. However 75% of minimum attendance is strictly required for making them eligible to appear for the examination.

#### **Internship Programme:**

- \* The Internship Programme is part of the course.
- \* The duration of the Internship programme will be for one semester in the libraries assigned to the students.
- \* The student must complete the Internship in the time specified by the Head of the Department.
- \* If for some reason he/she does not attend or complete the Internship

programme the student must undergo the same in the next year.

\* The total number of marks for the Internship programme is 100.

### ANNEXURE - I SCHEME OF PAPERS

Sl.No	Code	Title of the paper	Remarks
Ist Semester :		CORE	
Paper-1		Information, Communication & Society	Core
Paper-2		Knowledge Organization (Theory) (Classification and Cataloguing)	Core
Paper-3		Management of Library & Information Centers	Core
Paper-4		Information Sources & Services	Core
Paper-5		ELECTIVE: One among the following	Elective
		5.1.Information and Communication Technologies(Theory)	Elective
		5.2.Publicity & Public Relations	Elective
		5.3. Preservation & Conservation of InformationResources	Elective
		5.4. Information Resources in Science & Technology	Elective
		5.5. Web 2.0	Elective
IIInd Semester :		CORE	
Paper-6		knowledge organization (practical-I) (Classification Practice - DDC)	Core
Paper-7		knowledge organization (practical-II) (Cataloguing Practice-AACR2,2 <sup>nd</sup> Rev.)	Core
Paper-8		Information & CommunicationTechnologies(practical)	Core
Paper-9		Information Systems and Programmes	Core
Paper-10		ELECTIVE: One among the following	Elective
		10.1. Intellectual Property Rights	Elective
		10.2. Advanced Classification (Theory&Practical-UDC)	Elective
		10.3. Information Literacy	Elective
		10.4. Records Management	Elective
		10.5. Information Retrieval	Elective
		OPEN ELECTIVE:	
Paper-11		Information Resources in Social Sciences	Open Elective
IIIrd Semester :		CORE	
Paper-12		Research Methodology	Core
Paper-13		Automation and Networking of Library & Information Centers(Theory)	Core
Paper-14		Automation and Networking of Library & Information Centers (Practical)	Core
Paper-15		Digital Libraries	Core

Paper-16	ELECTIVE: One among the following	Elective
	16.1. Marketing of Information Services & Products	Elective
	16.2. Knowledge Management	Elective
	16.3.Bibliometrics and Scientometrics	Elective
	16.4. Documentation	Elective
	16.5. Community Information Services	Elective

OPEN ELECTIVE:		
Paper-17	Information Literacy Skills Development	Open Elective

IV Semester :		CORE	
Paper-18	Electronic Resource Management	Core	
Paper-19	ELECTIVE: One among the following	Elective	
	19.1. Academic Library & Information System	Elective	
	19.2. Public Library & Information System	Elective	
	19.3. Special Library & Information System	Elective	
	19.4.Engineering and Technological Library & Information System	Elective	
	19.5.Agricultural Information System	Elective	
Paper-20	Internship	Core	
Paper-21	Seminar and Records	Core	
Paper-22	Dissertation and Viva Voce	Core	

<b>OPEN ELECTIVE</b>		
Paper-23	Literature Search Techniques	Open Elective

### ANNEXURE - II

#### SCHEME OF INSTRUCTION AND EXAMINATION

Code	Name of the Subject	Class Hours			Exam Marks	Sessional Marks	Total Marks	Credits
		Total	per week					
		L	T	P				

#### Ist YEAR 1st SEMESTER

CORE :									
Paper-1	Information, Communication & Society	5	1		6	70	30	100	6
Paper-2	Knowledge Organization (Theory) (Classification and Cataloguing)	5	1		6	70	30	100	6
Paper-3	Management of Library & Information Centers	5	1		6	70	30	100	6
Paper-4	Information Sources & Services	5	1		6	70	30	100	6
Paper-5	ELECTIVE : One among the following:								

5.1. Information and Communication Technologies(Theory)	5	1	6	70	30	100	6
5.2. Publicity & Public Relations	5	1	6	70	30	100	6
5.3. Preservation&conservation of Information Resources	5	1	6	70	30	100	6
5.4. Information Resources in Science & Technology	5	2	7	70	30	100	6
5.5. Web 2.0	5	2	7	70	30	100	6
<b>Total</b>	<b>25</b>	<b>5</b>	<b>30</b>	<b>350</b>	<b>150</b>	<b>500</b>	<b>30</b>

1st YEAR 2nd SEMESTER

CORE :

Paper-6 Knowledge organization (practical-I) (Classification Practice - DDC)	2	8	10	70	30	100	6
Paper-7 Knowledge organization(practical-II) (Cataloguing Practice - AACR2,2 <sup>nd</sup> Rev.)	2	8	10	70	30	100	6
Paper-8 Information & Communication Technologies(Practical)	2	8	10	70	30	100	6
Paper-9 Information Systems and Programmes	5	1	6	70	30	100	6
Paper-10 ELECTIVE : One among the following :							
10.1. Intellectual Property Rights	5	1	6	70	30	100	6
10.2. AdvancedClassification (Theory & Practical-UDC)	3	6	9	70	30	100	6
10.3. Information Literacy	5	1	6	70	30	100	6
10.4. Records Management	5	1	6	70	30	100	6
10.5. Information Retrieval	5	1	6	70	30	100	6

OPEN ELECTIVE :

Paper-11 Information Resources in Social Sciences	5	2	7	70	30	100	6
<b>Total</b>	<b>16</b>	<b>2</b>	<b>24</b>	<b>42</b>	<b>350</b>	<b>150</b>	<b>500</b>

IIInd YEAR 3rd SEMESTER

CORE :

Paper-12 Research Methodology	5	1	6	70	30	100	6
Paper-13 Automation and Networking of Library & Information Centers (Theory)	5	1	6	70	30	100	6
Paper-14 Automation and Networking of Library & Information Centers (Practical)	2	8	10	70	30	100	6
Paper-15 Digital Libraries	5	1	6	70	30	100	6
Paper-16 ELECTIVE : One among the following							
16.1. Marketing ofInformation Services & Products	5	1	6	70	30	100	6
16.2. Knowledge Management	5	1	6	70	30	100	6

16.3. Bibliometrics and Scientometrics	5	1	6	70	30	100	6
16.4. Documentation	5	1	6	70	30	100	6
16.5. Community Information Services	5	1	6	70	30	100	6

OPEN ELECTIVE:

Paper-17 Information Literacy Skills Development	4	4	8	70	30	100	6
<b>Total</b>	<b>22</b>	<b>4</b>	<b>8</b>	<b>34</b>	<b>350</b>	<b>150</b>	<b>500</b>

IIInd YEAR 4th SEMESTER

CORE

Paper-18 Electronic ResourceManagement	6	6	70	30	100	6
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Paper-19 ELECTIVE : One among the following:

19.1. Academic Library & Information System	5	1	6	70	30	100	6
19.2. Public Library & Information System	5	1	6	70	30	100	6
19.3. Special Library & Information System	5	1	6	70	30	100	6
19.4. Engineering and Technological Library & Information System	5	1	6	70	30	100	6
19.5. Agricultural Information System	5	1	6	70	30	100	6

Paper-20 Internship			36			100	6
Paper-21 Seminar and Records(60+40)						100	6
(Department Seminars:1 <sup>st</sup> , 2 <sup>nd</sup> ,3 <sup>rd</sup> and 4 <sup>th</sup> Semesters @ 15 marks per Semester)							
(Records: Classification, Cataloguing, Information Sources/Services and I.T. Practical records @10 marks)							
Paper-22 Dissertation* and Viva Voce(70+30)			6			100	6
OPEN ELECTIVE :							
Paper-23 Literature Search Techniques	4	4	8	70	30	100	6
<b>Total</b>	<b>11</b>	<b>1</b>	<b>54</b>	<b>140</b>	<b>60</b>	<b>500</b>	<b>30</b>

L: Lectures; T: Tutorials; P: Practical

\* Project Guidance: 6 hrs per week per teacher Note:

a. In papers 1 to 19 & 23 internal assessment through mid-semester examinations for 30 marks out of 100 marks.

**SEMESTER – I :**

**PAPER -1: INFORMATION, COMMUNICATION AND SOCIETY**

**Objectives:**

1. To introduce the students to the role of information and knowledge in the society

2. To acquaint the students with various theories, channels of & barriers to communication and types of libraries and their functions
3. To provide an overview of the professional developments in Library and Information Science.
4. To make the students to understand the philosophical principles of LIS Profession.

**Course Content:**

**Unit 1:** Information: Definition, characteristics, nature, value and use. Information Society Vs Knowledge Society

Communication – Definition, Components; Communication models. Information Transfer Cycle Channels of Communication; Barriers to Communication

**Unit 2:** Role of libraries in society Types of libraries – National, public, academic, special– Functions & Services

**Unit 3:** Five laws of library science and their implications Library Movement in Andhra Pradesh

**Unit 4:** Library legislation: Need Library legislation in India – an overview Detailed study of AP Public Library Act

Intellectual Property Rights – an overview; Role of WIPO; Indian Copy Right Act

**Unit 5:** LIS Profession and Professional ethics Professional associations and their role LIS Education in India

Books for study and reference:

1. Agarwal, S.N. Perspectives in Library and Information Science Vol.I and II. Lucknow, Print House, 1982.
2. Balakrishnan, Shyama & Paliwal, P.K.Eds. Libraries in Information Age. Delhi, Anmol, 2001
3. Chapman (E A) and Lynden (F C). Advances in Librarianship. 24V. San Diego Academic Press, 2000.
4. Devarajan, G. (Ed). 50 years of Indian Librarianship. Delhi, Ess Ess Pub., 1999
5. Feather, John. The Information Society. 2<sup>nd</sup> Ed. London, Lib. Assoc, 1998
6. Guha B (ED). In the Library and Information Science horizon. New Delhi, Allied pub, 1984.
7. Gupta, B.M. et al, Eds: Handbook of Libraries, Archives and Information Centers in India, Vols.1, 2 & 3, New Delhi, Information Industry Publications, 1986.
8. Khan, M.A. Principles and perspectives of copyrights. New Delhi: Sarup & Sons, 1996.

9. Khanna, J.K.: Library and Society, Kurukshetra, Research Publicagions, 1987.
10. Kumar, P.S.G. Foundations of Library and Information Science. Delhi, B.R.Pub., 2003
11. Kumar, P.S.G. Fundamentals of Information Science. New Delhi, S.Chand, 1998
12. Kumar, P.S.G. Information and Communication (Paper IX of UGC Model Curriculum). Delhi, B.R.Pub., 2003
13. National Knowledge Commission,India. Libraries- Gateways to Knowledge. Delhi, NKC, 2007
14. Prashar, R.G.: Information and Its Communication, New Delhi, Medallion Press, 1991.
15. Raja Rammohan Roy Library Foundation and ILA: National Policy on Library & Information Systems, Calcutta, RRRLF, 1985
16. Ranganathan, S.R.: Five Laws of Library Science. Delhi, 1957.
17. Routh,R.K. : Indian Library Legislation. N.Delhi, Ess Ess Pub., 1991.
18. Satarkar, S.P. Intellectual Property Rights & Copyright. Delhi, Ess Ess Pub. 2003
19. Sengar, Shailendra. Library and Information Science. New Delhi, Anmol Pubs.,2007
20. Sharma, Jaideep and Kishan Kumar. Library Science Education in India, Delhi, Har-anand Publications , 2009
21. Sharma,Pandey, S.K. : Development of Public Libraries in India. New Delhi, Ess Ess Pub., 1985
22. Smith, Kelvin. Freedom of information. London, Facet, 2004.
23. Vashishth, C.P & Satija, M.P. (Dr. P.S.G. Kumar Festschrift) Library and Information Profession in India. Vol. 1 Part I & Part II Reflections and Redemptions. (Vol.1, 2 parts).Delhi, B.R.Pub.,2004
24. Venkatappaiah,V.: Indian Library Legislation.2 Vols. New Delhi, Daya Publishing House, 1990.
25. Vijaya Kumar,.J. Public Library System.New Delhi, Anmol pub .2010. ISBN :978 81 261 4192 0 .
26. Maxine. Collaboration in Libraries and Learning Environments . Facet Pub.,2013

**PAPER - 2 : KNOWLEDGE ORGANIZATION (THEORY)  
(CLASSIFICATION AND CATALOGUING)**

**Objectives:**

1. To introduce the concepts of knowledge organization.
2. To create awareness on principles and laws in knowledge organization

### Course Content:

Unit 1: Knowledge organization – Need and purpose of classification  
General theory of classification Growth of Universe of Knowledge; Modes of formation of subjects Normative Principles of classification and their application Species of Library classification; Standard Schemes of classification and their features (CC,UDC)

Unit2: DDC – Structure – Tables 1-7

Unit3: Planes of classification work: idea plane, verbal plane and notational plane Notation – types, qualities Call number Catalogue – purpose, types; principles of cataloguing Forms of catalogue – Inner and Outer Filing rules and procedures

Unit 4: Bibliographic Description - Cataloguing codes – AACR-2 Standardization of Bibliographic description ISBD (M), ISBD(S), ISBD (NBM) Bibliographic Record Format – MARC21, UNIMARC, CCF

Unit 5: Content representation – standards Subject Headings - General – Sear's List, L.C. List; Subject oriented – MESH, SHE Metadata- Definition and importance, types, levels, elements Metadata Standards – Dublin core, TEI, RDF

Books for study and reference:

1. Abdul Majid Baba. Dewey Decimal Classification, Universal Decimal Classification and Colon Classification (Development Structure – Comparison). Srinagar, Gulshan Pub, 1988
2. Anglo-American Cataloguing Rules, 2<sup>nd</sup> ed. Chicago, American Library Association, 2<sup>nd</sup> Revised ed. 1988 (Modified 1993)
3. Chan, Lois Mai : Cataloguing and Classification: An introduction, New York, McGraw Hill, 1985.
4. Coates, E.J.: Subject Catalogues: Readings and structure, London, LA, 1981.
5. Fosket, A.C. Subject approach to Information. 5<sup>th</sup> Rev. Ed. London, Bingley, 1996
6. Girija Kumar and Krishan Kumar: Theory of cataloguing, 5<sup>th</sup> ed., New Delhi, Vikas, 1991.
7. Gorman and Dorner. Metadata applications and management. London, Facet, 2004
8. Gorman, G.E. Metadata applications and management. International year book of Lib. & Information Management 2003-2004. London, L.A., 2003
9. Hayenes, David. Metadata for information management and retrieval. London, Facet, 2004
10. Hunter, Eric J. Classification made simple. Grover, USA. PAP 2002
11. Hunter, Eric, J. and Fox, Nicholas, J.: Examples illustrating AACR-2, LA, 1980

12. Khan, M.A. Cataloguing in Library science. Delhi, Sarup and Sons, 2003
13. Krishan Kumar: Theory of Classification, 4<sup>th</sup> ed., New Delhi, Vikas, 1989.
14. Kumar P.S.G and Riaz Muhammad. Cataloguing Theory and Practice. 2 copies. New Delhi, S. Chand & Co , 1999
15. Kumar, P.S.G. Knowledge organization Information processing and Retrieval theory (Paper II of UGC Model Curriculum). Delhi, B.R.Pub., 2003
16. Melvil Dewey: Dewey Decimal Classification, 21<sup>st</sup> ed., 4 Vol.s, New York, Forest Press, 1996.
17. Melvil Dewey: Dewey Decimal Classification, 22<sup>nd</sup> ed., 4 Vol.s Dublin, OCLC, 2003.
18. Needham, C.D.: Organizing knowledge in Libraries: An introduction to classification and cataloguing, 2<sup>nd</sup> ed., London, Andre Deulah, 1977.
19. Ranganathan, S.R.: Elements of Library Classification, 3<sup>rd</sup> ed., Bombay, Asia, 1962.
20. Ranganathan, S.R: Prolegomena to Library Classification, 3<sup>rd</sup> Ed., Bombay, Asia, 1967.
21. Sears, M.E.: Sear's List of Subject headings, 19<sup>th</sup> ed., NY, H.W. Wilson, 2007.
22. Shabahat Husain. Library Classification Facets & Analysis : 2<sup>nd</sup> Rev. & Enlarged ed. Delhi, B.R.Pub,2004
23. Soma Raju, P.: Dewey Decimal Classification in libraries-Ed.20, 1989. (A practical work book), Visakhapatnam, Rajkamal, 1998.
24. Tripathi, S.M.: Modern cataloguing – Theory and Practice, 2<sup>nd</sup> rev. and enlarged. Ed. Agra, Shiva Lal Agarwala and Co., 1978.
25. Welsh, Anne & Baley, sue .Practical Cataloguing – AACR, RDA AND MARC21. Chennai: Facet publishing, 2012.

### PAPER- 3 : MANAGEMENT OF LIBRARY AND INFORMATION CENTRES

#### Objectives:

1. To introduce the students to the work flow of various sections of the LICs.
2. To acquaint students with various functions of library / information centers.

#### Course Content:

Unit 1: Concept; Functions and principles of management – their application in LICs

Unit 2: Planning, management and organization of LICs - Concept, Need, Stages/ Phases, Types, features Physical facilities – planning of library build-

ing, furniture, equipment with standards Green libraries; Reallocation of Library Spaces.

Unit 3: House keeping routines of Library and Information Centres in traditional and electronic environment

Acquisition;

Serial control;

Technical processing Circulation control – Browne, Newark; Bar-coding and RFID Maintenance of LICs -Library rules and regulations – library statistics – stock verification; Reporting – annual reports; Preservation and Conservation

Unit 4: Human Resource Management in LICs – staff formula Training & Development, Performance appraisal; Motivation theories; Leadership Financial Management in LICs - Sources of finance; resource mobilization Budgeting techniques Cost effectiveness and Cost benefit analysis; Out Sourcing Library Technology Planning and Management

Unit5 : Evaluation of Quality and Performance measurement of LICs PERT/ CPM; TQM – applications LIBQUAL+ Library Marker Spaces; ROI (Return On Investment) translating benefits Library Evaluation tools& techniques

Books for study and reference:

1. Evans, G Edward. Developing Library and Information centre Collections. New York, Libraries Unlimited, 2005
2. Evans, G Edward: Management techniques for librarians, 2<sup>nd</sup> Ed., Academic Press, New York, 1983.
3. Gaur, C. Ramesh. Re-engineering Library and Information Services: process, people & technology. Mumbai, Allied, 2003
4. Gorman, G.E. International yearbook of Library and Information management 2003-2004 metadata applications and management. London, L.A., 2003
5. Kahn, Mirian B. Studies in Library and Information Science. 4 Vol. Vol.3: Managing electronic government information in libraries. Delhi, Pentagon, 2009.
6. Kahn, Mirian B. Studies in Library and Information Science. 4 Vol. Vol.2: Fundamentals of collection development and management. Delhi, Pentagon, 2009
7. Khan, M.A. The Principles and practice of Library science. Delhi, Academia Pub., 2004
8. Kishan Kumar. Management of libraries in Electronic environment. Delhi, Har-Anand Publications, 2007
9. Kishore, Jugal. Personal Management in Libraries. Delhi, Ess Ess, 1981
10. Krishan Kumar. Library Manual. Delhi, Vikas, 2003
11. Krishna Kumar. Library Administration and Management. Delhi, Vikas, 2004

12. Kumar, P.S.G. Management of Library and Information Centres (paper V of UGC Model Curriculum). Delhi, B.R.Pub., 2003

13. Lahiri, Ramansu. Management of Libraries concepts and practices. New Delhi, Ess Ess, 1996

14. Lancaster, F.W. Technology and Management in Library and Information Services. London, Lib. Assoc., 1997

15. Libraries as places: buildings for the 21st century: Proceedings of the Thirteenth Seminar of IFLA's Library Buildings and Equipment section together with IFLA's Public Libraries Section, Paris, France, 28 July-1 August 2003 / edited by Marie-Franc'oise Bisbrouck [et al.] IFLA Publication No. 109

16. Mahapatra, Piyush Kanti, Chakrabarti, Bhubaneswar. Preservation in Libraries perspectives principles and practice. Delhi, Ess Ess, 2002

17. Mahapatra, Piyush Kanti. Collection Management in Libraries. Delhi, Cyber Tech Pub., 2006

18. Mittal, R.L. Library Administration: Theory and Practice. Delhi, Metropolitan Pub., 1973

19. Mukhopadhyay K K and Guha PS. Library Conservation. Calcutta, Information Research Academy, 1990.

20. Narayan, G.J. Library and Information Management. New Delhi, Prentice Hall, 1991

21. Osborne, Larry N & Nakamura Margaret. Systems Analysis for Librarians and Informone professionals. 2<sup>nd</sup> Ed. Greenwood Pub., 2000

22. Poll, Roswitha et al. - Measuring quality: international guidelines for performance measurement in academic libraries. - Munich: K.G. Saur, 1996. - 171 p. - ISBN 3598218001 - (IFLA publication no. 76)

23. Raina, Roshan Lal. TQM in Library and Information services. New Delhi, Infuse Inc., 1999

24. Ramesh Chandra and Shrivastava, A.P. Information preservation in Library Management. Delhi, Gyan Books, 2003

25. Ramesh Chandra and Shrivastava, A.P. Technological changes in Libraries. Delhi, Gyan Books, 2003

26. Saini, A.K. & Pradeep Kumar. Computer Applications in Management. Delhi, Anmol, 2003

27. Scammell, Alison. Handbook of Information management. Routledge, 2001

28. Sharma, Umesh Chandra. The Infometer. (Measuring library cost-Effectiveness). Delhi, Ess Ess, 1995

29. Singh, Ram Shobhit. Encyclopaedia of library manual: A practical approach to management. New Delhi, Anmol Pub, 2008

30. St. Clair, Guy. Total Quality Management in information services. New York, K.G.Saur, 1997

31. Stewart, Robert D and Moran, Barbara B. Library and Information Center Management. 6<sup>th</sup> ed. Libraries Unlimited, 2002

32. Balakrishna Surya S. Performance Evolution of University Libraries. Gyan books. ISBN : 7835 906 9 2012 .

33. Bavakutty, M & Majeed, Abdul. Methods for Measuring Quality of Libraries. ISBN : 81 7000 439 X, 2005

#### **PAPER- 4 : INFORMATION SOURCES AND SERVICES**

##### **Objectives:**

1. To familiarize students with different categories of information sources in print, Non-print and electronic media.
2. To develop evaluation and practical skills in dealing with information sources.
3. To acquire skills in providing reference and information services.
4. To train the students in developing various information services and products.
5. To make the students understand the digital information sources and web based services

##### **Course Content:**

Unit 1: Information Sources – Definition, characteristics, importance, types – Primary, secondary, tertiary; Documentary and non-documentary (human and organizational) Study and evaluation of print and electronic reference sources: Encyclopedias, Dictionaries Biographical sources, Geographical sources

Unit 2: Study and evaluation of print and electronic ready reference sources: Yearbooks, Almanacs, Directories, Handbooks and Manuals, Statistical sources, Current event sources Print and electronic Bibliographic sources: bibliographies; Union Catalogues; Indexing, Abstracting and reviewing periodicals

Unit 3: Users – categories of users; Information needs of users – models; User studies- methods, techniques; User education and Information literacy Reference services – concept, trends; different types of reference services; Bibliographic services – compilation of bibliographies and documentation lists

Unit 4: Current awareness services – CAS, SDI Information analysis and consolidation services – Digest Services, State – of the- Art and Trend reports and latest trends in electronic environment Document delivery services – Inter library Lending, Translation

Unit 5: Internet based information services; Library 2.0 and 3.0.Application of Cloud Computing-Basics

##### **Books for study and reference:**

1. Ackerman, Earnest & Hartman, Karen. The Information Specialist's Guide to Searching and Researching and Researching on the Internet and the World Wide Web. Chicago, Fitzroy Dearborn, 1999
2. Atherton, Pauline. Handbook of Information Systems and Services. Paris, UNESCO, 1977
3. Balakrishnan, Shyama & Paliwal, P.K. Abstracting practices in Libraries. Delhi, Anmol, 2001
4. Balakrishnan, Shyama & Paliwal, P.K. Library and Multimedia Resource. Delhi, Anmol, 2001
5. Balakrishnan, Shyama & Paliwal, P.K. Modern Information Retrieval. Delhi, Anmol, 2001
6. Bradley, Phill. How to use web 2.0 in your library. London, Facet, 2008
7. Chowdhury, G.G. Introduction to modern information retrieval.2<sup>nd</sup> Ed. London, Facet, 2006
8. Crawford, John. Evaluation of Library and Information Services. UK, ASLIB, 2000
9. Ganguly, R.C. Transformation of library services. Delhi, Isha books, 2007
10. Girija Kumar and Krishnan Kumar:Bibliography,2<sup>nd</sup>Rev.Ed.,New Delhi,Vikas Pub.House,1981.
11. Guha, B.: Documentation and Information, 2<sup>nd</sup> Ed., Calcutta, World Press, 1982.
12. Kahn, Mirian B. Studies in Library and Information Science. 4 Vol. Vol.1: Fundamentals of technical services management. Delhi, Pentagon, 2009
13. Katz, A.: Introduction to Reference Work, Vol. II Reference Services and Reference Processes. New York, McGraw Hill, 1982
14. Katz, A: Introduction to Reference Work, Vol. I Basic Information Sources, New York, McGraw Hill, 1982;
15. Krishan Kumar: Reference service, 3<sup>rd</sup> Rev.Ed., New Delhi, Vikas Pub., 1987.
16. Kumar, P.S.G. Information Analysis, Repackaging consolidation & Information retrieval (paper X and XI of UGC Model Curriculum) ). Delhi, B.R.Pub., 2003
17. Kumar, P.S.G. Information Sources and Services: theory and practice (Paper VI and VIII of UGC Model Curriculum). Delhi, B.R.Pub., 2003
18. Kumar, P.S.G. Library and Users: theory and Practice (Paper VIII of UGC Model Curriculum). Delhi, B.R.Pub., 2003
19. Lancaster, F.W.: Information Retrieval Systems: Characteristics testing and evaluation, London, Butterworth, 1981

20. Mukherjee, A.K.: Reference work and its tools, Ed. 2, Calcutta, World Press, 1971;
21. Pandey, S.K. Ed. Library Information Retrieval. Delhi, Anmol, 2000
22. Prasher, R.G: Information & its communication, New Delhi, Medallion Press, 1991.
23. Raman Nair, R. Internet for Library and Information Services. New Delhi, Ess Ess Pub, 1999
24. Rowley, J.E.and Turner,M.D.:TheDissemination of Information, London,Andre Deutsch, 1978.
25. Rowley, J.E: Abstracting and Indexing. London, Clive Bingley, 1982.
26. Seetharama, S. Information Consolidation and Repacking: Framework, Methodology, Planning. New Delhi, Ess Ess Pub, 1997
27. Sehgal, R.L. User Education in Computer Based Libraries. Delhi, Ess Ess, 1998
28. Sharma, Jagdish Saran and Grover, D.R. Reference service and Sources of Information. Delhi, Ess Ess, 1997
29. Sweetland and Cheney,Frances Neel:Fundamentals of Reference Sources, Chicago, ALA, 2009
30. Tedd, Wilson: Guidelines for Developing and Implementing a National Plan for Training and Education in Information Use, UNESCO, 1981
31. Walford's Guide to Reference Material, 7th Ed. 3 Vols., London, LA, 1996.
32. Price, Kate. E – Books in Libraries. Fact pub, 2011.

### **PAPER - 5.1: INFORMATION AND COMMUNICATION TECHNOLOGIES (THEORY)**

#### **Objectives:**

1. To introduce the students to the basics of information technology
2. To acquaint the students with computer technology and its development
3. To acquaint the student with the aspects of computer applications

#### **Course Content:**

Unit 1: Information Technologies - Definition, scope, components Generations and Classification of Computers Information technology applications to LICs

Unit 2: Components of the computer – hardware – CPU; Input/Output devices; Types of computer memory and storage-Internal and external storage devices

Unit 3: Computer Software - types System software – WINDOWS, LINUX Application software – M S Office, DBMS Ubuntu, Word, Excel and PowerPoint Various types of language processors.

Unit 4: Data representation & Data manipulation Understanding different kinds of codes-BCB, EBCDIC and ASCII Different types of number systems-Decimal & Binary, Addition, Substraction Understanding the basic of logic gates: AND, OR, NOT, NAND, NOR File organization – Concept and methods Over view of programming languages; Algorithms, flowcharts

Unit 5: Communication Technology – Definition, evolution, trends Networking – basic concepts Communication media – wire pairs, Coaxial cables, optical fiber, Satellite, VSAT; Band width;

Books for study and reference:

1. Balakrishanan, Shyama & Paliwal, P.K. Current Scenario of Information Technology.Delhi, Anmol, 2001
2. Balakrishanan, Shyama & Paliwal, P.K. Information Technology for the Next Millennium. Delhi, Anmol, 2001
3. Brophy, Rowley. The basics of information systems. London, Library Association, 1996.
4. Carter, Roger. Information Technology Handbook. London, Heinemann, 1997
5. Dhiman, A.K. Basics of Information Technology for Library and Information Scientists. 2 Vols., Delhi, Ess Ess, 2003
6. Ferris Jeffrey A. WINDOW 2000: Development and desktop management. Pearson Education, New Riders, 2000.
7. Kumar, P.S.G. Information Technology: Basics: (Paper IV of UGC Model Curriculum). Delhi, B.R.Pub., 2003
8. Mahapatra, M. and Ramesh, D.B. Information Technology Applications in Libraries: A text book for Beginners. Bhubaneswar, Reproprint, 2004
9. Microsoft Corporation. Microsoft Visual C++ 6.0 MFC Library Reference – Part 1 Vol.1. Washington, Microsoft Press, 1998.
10. Microsoft Corporation. Microsoft Visual C++ 6.0 MFC Library Reference – Part 2 Vol.2. Washington, Microsoft Press, 1998.
11. Microsoft Corporation. Microsoft Visual C++ 6.0 RUN - TIME Library Reference –Vol.4. Washington, Microsoft Press, 1998.
12. Mohamed Acly and Gill, Needham, Eds. M- Libraries 3: Transforming libraries with Mobil technology. Chennai: Allied, 2012.

### **PAPER- 5.2 : PUBLICITY AND PUBLIC RELATIONS**

#### **Objectives:**

1. To make the student understand the importance of publicity and public relations in LICs



2. To impart various methods and techniques of publicity and public relations

**Course content:**

Unit 1: Public Relations - Definition, Facets and Programmes. Publicity tools.

Unit 2: PR writing skills – Production of PR Literature handout and press-notes- Preparing of Press Release; Notification – rejoinders; Poster, broucher, folder; Various forms of writing for Broadcast media Radio and T. V. public relations presentations.

Unit 3: Extension / outreach activities – National library week, librarian's day; foundation day, World book day etc.

Unit 4: Delivering and promoting library services among different user groups; patterns of library services delivery – extension programmes, learning centres, book mobile projects. Introduction of best practices

Unit 5: Positioning and marketing of library services and products – segmentation of audience, building programmes and products, promotion of products

Books for study and reference:

1. Agee, Wilcox Ault. Public relations: strategies and tactics. Benjamin Cumming Pub., 2003
2. Doty, Dorothy I and Piness, Marylyn. Publicity and Public Relations. Barrons Educational Series Inc., 2007
3. Feinglass, Art. The public relations handbook for non-profits: A comprehensive and practical guide. N.J., Jossey-Bass (Wiley). 2005
4. Iyengar, Srinithi. Library Public Relations. New Delhi, Anmol, 1996
5. Kies, Cosette N. Marketing and public relations for libraries. N.J., Scarecrow Press, 1987.
6. Lindsay, Anita Rotwell. Marketing and Public Relations Practices in College Libraries. Chicago, ACRL, 2004
7. Public Relations: Theory and Practice. Allen and Umvin Epz titles. 2010
8. Watson, Noble. Evaluating Public Relations (A Best Practice Guide to Public Relations Planning, Research and Evaluation.) Kogan Page Ltd., 2005

**PAPER- 5.3 : PRESERVATION AND CONSERVATION OF INFORMATION RESOURCES**

**Objectives:**

1. To create awareness among the students about the concepts of preservation, conservation & maintenance of different types of information resources.
2. To make known the students regarding the different types of hazards to library materials & how to prevent them.
3. To create awareness on digital preservation , types of binding & binding materials.

**Course Content:**

Unit 1: Introduction to concepts, need and significance of archiving, preservation and conservation of information resources. Principles and process of weeding of library materials. Maintenance & restoration of library materials. Selection and preservation policies of different types of information resources.

Unit 2: Preservation of print and non print materials : Nature and preservation of – Books, Periodicals, Newspapers and Pamphlets; Palm leaves and Manuscripts; Maps; Audio – visual records; Microforms; Optical media etc.

Unit 3: Hazards to Library Materials and Eradication : Environmental hazards -Temperature, humidity, water, light, air pollution, smoke and dust etc. Biological Hazards –Fungi, insects, pests etc. Chemical Hazards – Chemicals used in preservation and Human being as an enemy of library materials. Fumigation and other preservative measures.

Unit 4: Digital Preservation : Meaning and Scope; Digital data: Nature, Selection and need for preservation. Digital Archeology; Important projects on digital archiving and preservation.

Unit 5:. Binding: Objectives of binding ; Binding policy of libraries; Types of binding; Binding Materials and their varieties.

Books for study and reference:

1. Balloffet, N., Hille, J., & Reed, J. A. (2005). Preservation and conservation for Libraries and archives. Chicago: American Library Association.
2. Belicove, M. E., & Kraynak, J. (2007). Internet yellow pages: the fun, fast, and easy way to Get productive online. Indianapolis, Ind.: Que.
3. Henderson, K. L. (1983). Conserving and preserving Library materials. Urbana-Champaign, Ill.: University of Illinois, Graduate School of Library and Information Science.
4. Johnson, P. (2009). Fundamentals of collection development and management, 2nd Ed. Chicago: American Library Association.
5. Wynar, B. S., Strickland, S. D., & Graff, S. M. (1999). Library and Information Science annual. Englewood, Colo.: Libraries Unlimited.
6. Kumar,P.S.G.(2003). Management of Library and Information Centers.Delhi:B.R.Publishing Corp.
7. Mittal,R.L.(1984).Library Administration :Theory and practice.5<sup>th</sup>ed. New Delhi: Metropolitan.
8. Mehta,S.P.(1976). Art and Science of Book Preservation.Pune: Swaraj publications.
9. Mukerjee,B.B(1973).Preservation of Library Materials, Archives and Documents. Calcutta: The World Press.
10. Mukhopadhyay, Kalyan Kumar and Guha,Partha Subir(1990). Library Conservation. Calcutta: Information Research Academy.

## **PAPER- 5.4 : INFORMATION RESOURCES IN SCIENCE AND TECHNOLOGY**

### **Objectives:**

1. To familiarize students with different categories of information Resources in print, electronic & Web media available in Science & Technology.
2. To develop practical skills in dealing with information Resources available in Science & Technology.
3. To make the students understand the electronic & web based information Resources in Science & Technology.

### **Course Content :**

Unit 1: Information Resources in Science & Technology : Concept of Information Resources. Kinds of Information Resources – Printed, Electronic and Web Resources.

Unit 2: Printed Sources in Science & Technology - Primary, secondary, tertiary. Electronic Information Resources – E-Books, E-Journals, E-Databases, E-Theses & Dissertations

Unit 3: Web Resources in Science & Technology : Web Browsers, Web Sites, Directories Web OPACs & Subject Gateways. Institutional Repositories in Science&Technology. Practical demo on Information Search & Access.

Unit 4: Online Information Providers – Knight-Rider, BLAISE, ISI, Informatics India. Library Consortia Based Resources – INFONET, INDEST, N-LIST. Practical demo on Information Search & Access.

Unit 5: Information Systems & Centres in Science & Technology : National - NISCAIR, NISSAT, NCSI; International – MEDLINE , AGRIS, INIS.

Books for study and reference:

1. Ackerman, Earnest & Hartman, Karen. The Information Specialist's Guide to Searching and Researching on the Internet and the World Wide Web. Chicago, Fitzroy Dearborn, 1999
2. Atherton, Pauline. Handbook of Information Systems and Services. Paris, UNESCO, 1977
3. Balakrishnan, Shyama & Paliwal, P.K. Library and Multimedia Resources. Delhi, Anmol, 2001
4. Guha, B.: Documentation and Information, 2<sup>nd</sup> Ed., Calcutta, World Press, 1982.
5. Katz, A: Introduction to Reference Work, Vol. I Basic Information Sources, New York, McGraw Hill, 1982;
6. Krishan Kumar: Reference service, 3<sup>rd</sup> Rev.Ed., New Delhi, Vikas Pub., 1987.

7. Kumar, P.S.G. Information Sources and Services: theory and practice (Paper VI and VIII of UGC Model Curriculum). Delhi, B.R.Pub., 2003

8. Mukherjee, A.K.: Reference work and its tools, Ed. 2, Calcutta, World Press, 1971;

9. Raman Nair, R. Internet for Library and Information Services. New Delhi, Ess Ess Pub, 1999

10. Sharma, Jagdish Saran and Grover, D.R. Reference service and Sources of Information. Delhi, Ess Ess, 1997

11. Sweetland and Cheney, Frances Neel: Fundamentals of Reference Sources, Chicago, ALA, 2009

12. Price, Kate. E – Books in Libraries. Fact pub, 2011.

13. Grogan, Dennis: Science & Technology: An introduction to literature. London, Clive Bingley, 1984.

14. Subrahmanyam, K, Scientific & technical information resources. New York, Marcel Dekkar, 1981.

## **PAPER - 5.5 : WEB 2.0**

### **Objectives:**

1. To introduce the students to the concepts, technologies and usage of Web 2.0.
2. To make known the students about the applications of Web 2.0.
3. To acquaint the students on Web 2.0 case studies in libraries, library services based on it and
4. To familiarize students with mobile technology and its applications in Lib 2.0 environment and to develop practical skills .

### **Course Content :**

Unit-1: Web 2.0 Overview: Definition, History, Characteristics, Technologies, Concepts and Usage and its Evolution

Unit-2: Web 2.0 Applications: Blogs, Folksonomy, RSS feeds, Tagging, Photosharing, Social Book Marking, and Social Networking.

Unit-3: Web 2.0 Applications: Podcasting, VODcast and Screencast. WIKIS, Mashups, Real Time Communications

Unit-4: Case Studies of Web 2.0 in Libraries; Web 2.0 Challenges for libraries.

Web 2.0 Based Library Services.

Unit-5: Mobile technology and its applications in Lib 2.0 environment. Design of mobile technology based education/ training and services to library users.

\* The course contents of Unit 2 – 5 shall form the basis for conduct of practicals.

Books for study and reference:

1. Bounar, Jane Hosie and Waxer, Barbara M. Web 2.0: Making the Web Work for you. Course Technology, 2010, pp120.
2. Casey Micheal E and Savastinuk Laura C. Library 2.0: A Guide to participatory libraries. Information Today, 2007.
3. Governor, James., Nickull, Duane and Hinchcliffe, Dion. Web 2.0A architectures, O'Reilly Media, Inc., 2009, pp248.
4. Krishna Shankar. Enterprise Web 2.0 Fundamentals, Pearson Education India, 2010,
5. Cohen Laura B. Library 2.0 initiatives in academic libraries, Association of College and Research Libraries, 2007
6. Kroshi Ellyssa. Web 2.0 for Librarians and Information Professionals, Neal-Schuman, 2008.
7. Livingston Backky. Using Web 2.0 Technologies. American Society for Training and Development, 2010.
8. Musser, John. Web 2.0: Principles and Best Practices, O'Reilly Media, 2006, pp101.
9. Shelly, Gary B. and Frydenberg, Mark. Web 2.0: Concepts and Applications, Cengage Learning, 2009, pp288.
10. Stephens Michel T and TechSource ALA. ALA Tech Source, 2006.
11. Bell, A. (2009). Exploring Web 2.0: second generation internet tools - blogs, podcasts, wikis, networking, virtual worlds, and more. Georgetown, TX: Katy Crossing Press.
12. Campesato, O., & Nilson, K. (2011). Web 2.0 fundamentals with Ajax, development tools, and mobile platforms. Sudbury, Mass.: Jones and Bartlett Publishers.
13. Governor, J., Nickull, D., & Hinchcliffe, D. (2009). Web 2.0 architectures. Sebastopol, CA: O'Reilly Media, Inc.
14. Shah, S. (2008). Web 2.0 security: defending Ajax, RIA, and SOA. Boston: Charles RiverMedia.
15. Shelly, G. B., & Frydenberg, M. (2011). Web 2.0: concepts and applications. Boston, MA: Course Technology.
16. Shuen, A. (2008). Web 2.0: a strategy guide. Sebastopol, CA: O'Reilly Media.
17. Solomon, G., & Schrum, L. (2010). Web 2.0 how-to for educators. Eugene, O.R. : International Society for Technology in Education.

## SEMESTER - II :

### PAPER – 6 : KNOWLEDGE ORGANIZATION – PRACTICAL - I (CLASSIFICATION PRACTICE – DDC )

#### Objectives:

1. To acquaint students with the recent developments in DDC
2. To train the students in practical classification using DDC 21<sup>st</sup> edition

#### Course content:

- Unit 1: Classification of documents representing Simple subjects  
Unit 2: Use of standard subdivisions-Table-1  
Unit 3: Use of tables 2, 3, 4, 5, 6, and 7  
Unit 4: Classification of documents representing Complex subjects  
Unit 5: Use of 'add' instruction, and citation order

Books for study and reference:

1. Dewey, Melvil: Decimal Classification and Relative Index, 21<sup>st</sup> Edition, New York, Forest Press, 1996.
2. Comaromi, John P. and Satija M.P. Exercises in the 21<sup>st</sup> Edition of Dewey Decimal Classification. Delhi, Sterling, 1998.

### PAPER - 7 : KNOWLEDGE ORGANIZATION – PRACTICAL - II (CATALOGUING PRACTICE-AACR 2, 2nd Rev.)

#### Objectives:

1. To impart Practical training to the students in cataloguing of various types of documents according to the AACR-2, 1988 (1993).
2. To train the students in the techniques of cataloguing documents with different types of authorship such as single, multi and corporate authorship.
3. To train the students in the cataloguing of simple periodicals and serials.
4. To train the students in the creation of metadata for e-resources

#### Course Content:

- Unit 1: Cataloguing of printed monographs- Single personal authorship  
Shared responsibility; Mixed responsibility - editorial direction, Multi-volume and -part documents.  
Unit 2: Cataloguing of works of Pseudonymous authors; Corporate bodies; Works with Uniform titles  
Unit 3: Cataloguing of simple periodicals and serials  
Unit 4: Cataloguing of non – print materials – cartographic materials, manu-

scripts, sound recordings, motion pictures, video recordings, Computer files.

Unit 5: E-resources (cataloguing and indexing)-Metadata creation Anglo-American Cataloguing Rules (AACR) MARC, Dublin Core Metadata, BIBFRAME (Bibliographic Framework) Metadata Object Description Schema (MODS)

Books for study and reference:

1. Eritz, Deborah A. Cataloging with AACR2 and MARC21 for books, electronic resources, sound recording, video recordings and serials. 2nd ed. Delhi, Pentagon, 2009
2. Singh S.N and Prasad, H.N. Cataloguing Manual AACR – II. Delhi, B.R.Pub,1985
3. Weillis, Jean Ed. The Principles and Features of AACR. Ottawa, Canadian Lib., 1997

## **PAPER- 8: INFORMATION AND COMMUNICATION TECHNOLOGIES (PRACTICAL)**

### **Objectives:**

1. To make the students familiar with a range of different types of hardware, software and peripherals.
2. To develop familiarity with personal computer for word processing, spread sheets and databases.

### **Course Content:**

- Unit 1: Use of Operating Systems- MS Windows
- Unit 2: Use of Word processors - MS Word; Use of Spreadsheet Software- MS Excel
- Unit 3: Presentation – Power point; Photo editing - Photoshop
- Unit 4: CD ROM and Internet searching and retrieval
- Unit 5: Digital content creation and management

## **PAPER - 9: INFORMATION SYSTEMS AND PROGRAMMES**

### **Objectives:**

1. To provide an overview of information systems and programmes
2. To acquaint the student with various types of information systems and programmes at national, regional and global level
3. To acquaint the student with the organizations promoting Information Systems and Programmes at the international and national level

### **Course content:**

Unit 1: Information system – basic concepts, components, characteristics Kinds of information systems - their functions and services – Libraries,

documentation centres, information centres, databanks, information analysis centres, referral centres, clearing houses.

Unit 2: Planning and design of a National Information System – NAPLIS, NATIS Recommendations of National Knowledge Commission, (India) on Libraries

Unit 3: National Information Systems – their functions and services NISCAIR, DESIDOC, SENDOC, NASSDOC, ENVIS

Unit 4: Regional information systems – ASTINFO, APINESS, SAARC (SDC) Global Information Systems – UNESCO – PGI, INIS, AGRIS, MEDLARS

Unit 5: Organizations promoting information systems and programmes – UGC, DST, ICSSR, DRDO, RRRLF

Books for study and reference:

1. Atherton, Pauline. Handbook of Information Systems and Services. Paris, Unesco, 1977
2. Bell, Simon. Learning with information systems: Learning cycles in information systems development. London, Routledge, 1996
3. Falkeberg, Eckhard D et al., Ed. Information system concepts: Towards a consolidation of views. 1995. Chapman and Hall, London.
4. Gopinath, M.A. and Rama Reddy, E. Information access through networks. Hyderabad, Booklinks Corporations, 1996.
5. Grembergen, Wim Van. Information technology evaluation methods and management. London, Idea Group Publishing, 2001.
6. Kakabadse, Nada K and Kakabadse, Andrew K. Creating future: Leading change through information systems. Ashgate, USA, 2000.
7. Kumar, P.S.G. Information and Communication (Paper IX of UGC Model Curriculum). Delhi, B.R.Pub., 2003
8. Rowley J. The basics of information system. Ed2. London, Library Association, 1996.

## **Paper : 10.1 Intellectual Property Rights**

### **Objectives:**

1. To familiarize the students with different categories of IPR and laws, patent law of India
2. To acquaint the students' about implications of IPR and Open access movement.

### **Course Contents:**

- Unit 1: Intellectual Property Rights, Meaning and scope; Categories of IP.
- Unit 2: International Treaties on IPR, Berne Convention; Universal Copyright Convention; Stockholm Conference; Paris Conference; WIPO Copyright treaty; GATT; TRIPS.

Unit 3: National Laws, Copyright law of India and its amendments; Fair use provision; Patent law of India and amendments; Other Laws related to IPR.

Unit 4: Implications of IPR, Protection of web-based content; Copyright and libraries; Copy left movement; Creative Commons; Plagiarism.

Unit 5: Open Access movement, History of open access movement, approaches to open access, Stake holders, of OA, policies and guidelines. Open access journals and repositories.

Books for study and reference:

1. Transforming Dimension of IPR Challenges for New Age Libraries (2015). Ed by Priya Rai and others. New Delhi, National Law University Delhi Press. p627.

2. <http://nludelhi.ac.in/download/publication/2015/Transforming%20Dimension%20of%20IPR%20-%20Challenges%20for%20New%20Age%20Libraries.pdf>

3. A Hand Book of Copyright Law. Ministry of Commerce and Industry, Department For Promotion of Industry and Internal Trade, Government of India. <https://copyright.gov.in/documents/handbook.htm>

4. The Copyright Act 1957 (India) <https://copyright.gov.in/Documents/Copyright Act 1957.pdf>

5. Copyright Rules and Forms (India) <https://copyright.gov.in/Documents/Copyright Rules 2013 and Forms.pdf>

6. A.K. Kaul & V.K. Ahuja, *Law of Copyright: From Gutenberg's Invention to Internet*, University of Delhi, Delhi, 2001.

7. Ananth Padmanabhan, *Intellectual Property Rights Infringement and Remedies*, Lexis Nexis, 2012

8. Mira Sundara Rajan, *Moral Rights: Principles, Practice, and New Technology*, Oxford University Press, 2011

9. Neil Weinstock Netanel, *Copyright's Paradox*, Oxford University Press, 2008. Robert A Gorman, Jane C. Ginsburg, *Copyright Cases and Materials*, Foundation Press, 2011

10. Paul Goldstein, *International Copyright: Principles, Law, and Practice*, Oxford University Press, 2012

11. N.S. Gopalakrishnan & T.G. Ajitha, *Principles of Intellectual Property*, Eastern Book Company, 2nd Edition, 2014

12. Jayashree Watal, *Intellectual Property Rights in the WTO and Developing Countries*, Oxford University Press, 2001

13. Lionel Bently & Brad Sherman, *Intellectual Property Law*, Oxford University Press, 3rd Edition, 2008

14. Peter Drahos, *A Philosophy of Intellectual Property*, Dartmouth Pub Co, 1996

15. Steven D Anderman, *Interface Between Intellectual Property Rights and Competition Policy*, Cambridge University Press, 2007.

16. Philippe Cullet, *Intellectual Property Protection and Sustainable Development*, Lexis Nexis, 2005.

17. History of Open Access Movement

<https://open-access.net/en/information-on-open-access/history-of-the-open-access-movement>

18. Suber, Peter (o. J.). *History of open access*. Mediawiki <https://cyber.harvard.edu/~psuber/wiki>

## PAPER -10.2 : ADVANCED CLASSIFICATION (THEORY AND PRACTICAL-UDC)

### Objectives:

1. To acquaint the students with subject representation techniques of knowledge organization
2. To impart practical skills in the use of classification with special reference to Universal Decimal Classification, IME, 1993

### Course Content:

Unit 1: Knowledge/ subject representation - Indexing Languages-Nature and Purpose; Subject indexing – pre- and post coordinated indexing; Automated Indexing; Vocabulary control – thesaurus construction Recent trends in Classification – automated keyword classification

Unit 2: Universal Decimal Classification (IME, 1993)-Structure- Common and Special Auxiliaries; Filing order and Citation order

Use of classification in organizing internet resources Classification Practice: (According to UDC-IME-English, 2nd ed, 1993)

Unit 3: Classification of Simple Subjects-and use of Common auxiliaries

Unit 4: Classification of Compound subjects

Unit 5: Complex Subjects- Using common and special auxiliaries

Books for study and reference:

1. Fosket, A.C. Subject approach to Information. 5<sup>th</sup> Rev. Ed. London, Bingley, 1996

2. Lancaster, F.W. Indexing and Abstracting in Theory and Practice. 2<sup>nd</sup> Ed. London, Lib. Assoc., 1998

3. Satyanarayana, V.V.V. Universal Decimal Classification: A Practical Primer. New Delhi, Ess Ess Pub, 1998

4. UDC Consortium. Universal Decimal Classification, International MEDIUM Edition, 1993.

5. Raju, A.A.N. Universal Decimal Classification IME 1993: Theory and practice (A self instructional manual). Delhi, Ess Ess Publications, 2007

6. Soma Raju, P. Universal Decimal Classification IME 1993. Visakhapatnam, Author, 1997

### **PAPER- 10.3 : INFORMATION LITERACY**

#### **Objectives:**

1. To introduce to the students the concept of information literacy and its importance in contemporary knowledge society
2. To make the student familiar with the various models of information literacy and their application

#### **Course content:**

Unit 1: Information literacy – Meaning, definition, objectives and Importance Information Literacy and User Orientation programmes Information literacy in an information society Information literacy and lifelong learning

Unit 2: Information literacy – Effect on education Information literacy programmes – In schools and higher education institutions including distance education

Unit 3: Information literacy models – Features and examples Instructional techniques and Methods ILP and technology

Unit 4: Information literacy standards and guidelines – ACRL, ALA, IFLA, National Forum on Information Literacy, USA ILP – Online resources – Example PRIMO (Peer Reviewed Instructional Materials Online database) of ALA Purpose and Scope

Unit 5: Information literacy programmes – Planning and implementation – Issues involved Collaboration with Academics, Administration and Public Information literacy curriculum – Components Assessment evaluation of information literacy programmes

#### **Books for study and reference:**

1. A.L.A. Final Report of the A.L.A. Presidential Committee on information Literacy. Chicago, A.L.A., 1989
2. Blanchett, Helen. A guide to teach Information Literacy. London, Facet, 2010
3. Corral, Sheila. Information literacy through inquiry. London, Facet, 2010
4. Devine, Jane. Going Beyond Google: The invisible web in learning and teaching. London, Facet, 2009
5. Godwin, Peter and Parker, Jo. Eds. Information literacy meets Library 2.0. London, Facet, 2008

6. Martin, Allan and Rader, Hannelore. Information and IT Literacy: Enabling learning in the 21<sup>st</sup> century. London, Facet, 2003

7. Information Age. V 3 ( 3 ) July 2009

8. Proceedings of the *National Seminar on Information Literacy for Higher Education*, January 29-30, 2007. Organized by Dept. of Library and information Science, University of Madras

### **PAPER- 10.4 : RECORDS MANAGEMENT**

#### **Objectives:**

1. Understand records management concepts, and the place of records management in library.
2. Understand filing systems and develop file classification plans.
3. To learn different types of inventory records and their maintenance
4. Creating awareness on electronic records and their management

#### **Course Content:**

Unit 1: Records management vs archive vs libraries. Evolution of records management principles

Unit 2: Records Functions—Manual and Automated Environments Acquisitions functions - Ordering information, Receipt and distribution of incoming materials, Payment record, claiming Processing functions - Initial physical processing; Bindery control Public access functions - Catalogue records; Holdings records; In-house serials lists; Union lists;

Unit 3: Electronic records: definition, scope and purpose Electronic records keeping - system requirements; Integration with the Library's web site

Unit 4: Storage and Access – Organization of paper formats and other collections; Organization of Non-paper formats – Housing; Equipment for use; Special issues related to digital versions: licensing, access, etc.

Unit 5: Physical Retention & Preservation - Development of preservation policy; Evaluation of the records for long-term retention and preservation; Binding; Microforms; digitization; Problems of mutilation and theft.

#### **Books for study and reference:**

1. A.L.A. American Library Laws (includes records management laws) Ed.3. Edited by Alex Landenson. Chicago, A.L.A., 1979
2. Cox, Richard J. Managing institutional archives: Foundation, principles and practices. New York, Greenwood press, 1992
3. Cox, Richard J. Managing records as evidence and information. Westport, CT., Quorum Books, 2001
4. McLeod, Julie and Hare, Catherine, Eds. Managing Electronic Records. London, Facet Pub., 2005

5. Read, Judith and Ginn, May Lea. Records Management. New York, South-Western Educational Pub., 2006

6. Robertson, Guy. Paper crazy no more: Records management for Library chaos junkies. <http://www.provenacea.ca/2002-vol.4/articles/RM-robertson2002.html>

7. Shwartz, Candy and Herson, Peter. Records management and the library: issues and Practices. Norwood, NJ., Ablex pub., 1993

8. Stewart, Jeffrey and Melesco, Nancy M. Professional records and information management. 2 Ed. New York, McGraw Hill, 2000

## **PAPER -10 .5: INFORMATION RETRIEVAL**

### **Objectives:**

1. To create awareness among the students about the concepts of information retrieval systems, indexing systems and vocabulary control.
2. To make known the students about information retrieval models and evaluation of information retrieval system - Steps, experiments
3. To acquaint the students with the trends in information retrieval system.

### **Course Content:**

Unit 1:- Information Retrieval Systems (IRS): Basic concepts, Definitions, Objectives, Characteristics, Components and functions. Functional model of an IRS. Indexing Systems: Indexing - Meaning, Purpose and Need. An overview of historical Development in Indexing. Pre-coordinate Indexing Vs. Post-coordinate Indexing. Citation Indexing – Meaning and importance, Different citation indexes: Shepard's Citations, SCI, SSCI. Automatic Indexing – Techniques and methods. Uncontrolled vocabularies.

Unit 2: Vocabulary Control: Vocabulary control – Meaning and importance; Controlled Vs. Free Text Indexing; Vocabulary control tools – Subject heading Lists, Thesauri, Thesaurifacet, Classaris. Thesaurus construction techniques.

Unit 3: IR models. Concept of Ranking. : Structural models – Boolean Model, Probabilistic retrieval model, vector space model.

Unit 4: Evaluation of IRS: Purpose; Evaluation criteria; Design of evaluation programmes; Steps of evaluation; Evaluation experiments: Overview of the Cranfield test, MEDLARS, the SMART Retrieval Experiment, The STAIRS project, TREC.

Unit 5 : Trends in IRS: Developments, Searching and retrieval, Full text retrieval, User interfaces, content creation and dissemination, IR standards and protocols.

Books for study and reference:

1. A course in Information consolidation: a handbook for education and training in analysis, synthesis and repackaging of Information. General Information Programme and UNISIST, UNESCO, PGI, Paris. 1986.
2. Alberico, R. and Micco M.(1990). Expert systems for reference and Information retrieval. West Port : Meckler.
3. Atchison, J. & Alan G. A.(1972). Thesaurus construction: a practical manual. London: Aslib.
4. Atchison, J. & Gilchrist, A.(1972). Thesaurus construction: a practical manual. London: Aslib.
5. Austin, D.(1984). PRECIS: A manual of concept analysis and subject Indexing. 2nd ed.
6. Chowdhury, G.G.(2003). Introduction to modern Information retrieval. 2nd Ed. London, Facet Publishing.
7. Cleaveland, D. B.(2001). Introduction to Indexing and abstracting. 3rd Ed. Englewood, Colo. : Libraries Unlimited
8. Crawford, M. J.(1988). Information broking: a new career in Information work. London: LA.
9. Ford, N.(1991). Expert systems and artificial intelligence : An Information manager's guide. London : LA.
10. Ghosh, S.B. and Biswas, S.C. (1998). Subject Indexing systems: Concepts, methods and techniques. Rev. ed. Calcutta: IASLIC.
11. Lancaster, F. W. (1968). Information retrieval systems, characteristics, testing and evaluation. London: Facet Publishing.
12. Lancaster, F.W.(2003).Indexing and Abstracting in Theory and Practice. London: Facet Publishing.
13. Pandey, S.K. Ed.(2000).Library Information retrieval. New Delhi: Anmol.
14. Seetharama, S. (1997).Information consolidation and repackaging. New Delhi: ESS ESS.
15. Van, R.C. J.(1970). Information retrieval. 2nd ed. London: Butterworths.
16. Vickery, B.C.(1970). Techniques of Information retrieval. London: Butterworths
17. Kumar, P.S.G.(2004). Information Analysis, repackaging, consolidation and information retrieval.Delhi: B.R.Publishing.
18. Kumar, P.S.G. (2002) : A student manual of library and information science. Delhi: B.R. publishing.
19. Narayana,G.J.(1991).Library and Information Management.New Delhi:Prentice Hall.

20. Information today and tomorrow(Hyderabad) (1999). working papers. Delhi: NISSAT.

### **OPEN ELECTIVE :**

#### **PAPER - 11 :INFORMATION RESOURCES IN SOCIAL SCIENCES**

##### **Objectives:**

1. To create awareness about importance of different Information Resources in Social Sciences
2. To create awareness about availability of latest information resources on online and offline in Social Sciences.

##### **Course Content :**

Unit 1: Information Resources in Social Sciences : Concept of Information Resources. Kinds of Information Resources – Printed, Electronic and Web Resources.

Unit 2: Printed Sources in Social Sciences - Primary, secondary, tertiary. Electronic Information Resources – E-Books, E-Journals, E-Databases, E-Theses & Dissertations

Unit 3:Web Resources in Social Sciences: Web Browsers, Web Sites, Directories Web OPACs & Subject Gateways. Institutional Repositories in Social Sciences. Practical demo on Information Search & Access.

Unit 4: Online Information Providers –ISI, Informatics India. Library Consortia Based Resources – INFONET, N-LIST, J-Gate. Practical demo on Information Search & Access.

Unit 5: National Information Systems & Programmes in Social Sciences: NASSDOC, Centre on Rural Documentation, SNDT Women's University Documentation Centre, M.S.University-National Social Science Information Centre.

Books for study and reference:

1. Balakrishnan, Shyama & Paliwal, P.K. Library and Multimedia Resources. Delhi, Anmol, 2001
2. Guha, B.: Documentation and Information, 2<sup>nd</sup> Ed., Calcutta, World Press, 1982.
3. Katz, A: Introduction to Reference Work, Vol. I Basic Information Sources, New York, McGraw Hill, 1982;
4. Krishan Kumar: Reference service, 3<sup>rd</sup> Rev.Ed., New Delhi, Vikas Pub., 1987.
5. Kumar, P.S.G. Information Sources and Services: theory and practice (Paper VI and VIII of UGC Model Curriculum). Delhi, B.R.Pub., 2003
6. Mukherjee, A.K.: Reference work and its tools, Ed. 2, Calcutta, World Press, 1971;

7. Raman Nair, R. Internet for Library and Information Services. New Delhi, Ess Ess Pub, 1999

8. Sharma, Jagdish Saran and Grover, D.R. Reference service and Sources of Information. Delhi, Ess Ess, 1997

9. Sweetland and Cheney, Frances Neel: Fundamentals of Reference Sources, Chicago, ALA, 2009

10. Price, Kate. E – Books in Libraries. Fact pub, 2011.

### **SEMESTER – III :**

#### **PAPER – 12 : RESEARCH METHODOLOGY**

##### **Objectives:**

1. To familiarize the student with the concept of Research and various types of research
2. To acquaint the students with various research techniques and tools applicable to Library & Information Science.
3. To acquaint students with the process and tools of data analysis and interpretation

##### **Course Contents:**

Unit 1: Research methodology - concept-Need in library and Information Science Scientific method of research; Kinds of research

Unit 2: Review of Literature Formulation of the Problem/Topic Hypothesis: Concept, Need, Qualities, Sources, Types; Research Design— Objectives— Need at different Phases

Unit 3: Research Methods—Scientific, Historical, Survey, Case Study, Experimental, Delphi, etc, Methods of data collection - techniques and tools Bibliometrics - concept, need; Laws; Webometrics - basics

Unit 4: Sampling Technique and Methods Data Analysis and Interpretation— Measures of Central Tendency, Mean, Mode, Median Measures of Dispersion, Variance and Co-variance Standard Deviation, Chi-square Test Graphical Presentation of Data-Methods

Unit 5: Statistical Packages – general features. Ex SPSS Report Writing, Style Manuals, LIS Research in India

Books for study and reference:

1. Bajpai, S.R.: Methods of social survey & Research, Kanpur, Kitabgarh, Latest Ed.
2. Busha, Charles H. and Houter, S.P: Research Methods in Librarianship. New York, Academic Press, 1980.
3. Devarajan, G. Research in Library and Information Science. Delhi, Ess Ess Pub., 2002



4. Kothari, C.R.: Research Methodology: Methods and techniques, New Delhi, Wiley Eastern, 1985.
5. Krishan Kumar: Research Methods in LIS, New Delhi, Har-Anand, 1992.
6. Kumar, P.S.G. Research methods and Statistical Techniques (Paper XII of UGC Model Curriculum). Delhi, B.R.Pub., 2003
7. Line, M.B.: Library Surveys, 2<sup>nd</sup> Ed., London, Clive Bingley, 1982.
8. Ravichandra Rao, I.K. Quantitative methods for Library and Information Science: New Age International, 2009
9. Ravichandra Rao, I.K.: Quantitative Methods for Library and Information Science, New Delhi, Wiley Eastern, 1983.
10. Sehgal, R.L. Applied Statistics for Library science Research. Vol. I and II. New Delhi, Ess Ess Pub., 1998
11. Sehgal, R.L. Designing and Evaluation of Research in Library Science Vol.1. New Delhi, Ess Ess Pub., 1998
12. Sehgal, R.L. Statistical Techniques for Librarians. New Delhi, Ess Ess Pub., 1998
13. Sharma Pandey S.K. Universe of Knowledge and Research Methodology. Delhi, Ken Pub., 1990.
14. Simpson, I.S.: Basic Statistics for librarians, 2<sup>nd</sup> ed., London, Clive Bingley, 1983.
15. Singh, Ram Shobit. Encyclopaedia of research techniques in library and information science. New Delhi, Anmol pub, 2008
16. Vaughan, Lawmen . Statistical Technology for the Information Professional :A Practical Painless Approach to Understanding, Using and Interpreting Statistics.ISBN:978 81 7000 552 0

### **PAPER -13 : AUTOMATION AND NETWORKING OF LIBRARY AND INFORMATION CENTRES (THEORY)**

#### **Objectives:**

1. To acquaint the students with the planning and management of automated library systems
2. To impart practical training in the use of DBMS
3. To give practical training in the use of electronic storage device
4. To impart practical training in the use of Internet and its tools.

#### **Course Content:**

Unit 1: Library Automation-Meanings, definition, need, Advantages and disadvantages Planning of Library Automation Infrastructure requirements for

library automation – Hardware, Software, Manpower, Cost, Furniture and Maintenance

Unit 2: Automation and networking of Library Housekeeping routines-Acquisition, Cataloguing, Circulation, Serials control, Information Retrieval and Services, Office Management

Unit 3: Emerging new environment– automated, hybrid, digital and virtual libraries Databases – use of visual Basic and SQL

Unit 4: Networks – topologies; types Networking of libraries in different environments - LAN, WAN, Internet, intranet; Resource sharing and networking – library consortia models Data security in automated and networked environment

Unit 5: Online databases and web resources – searching and retrieving information; Websites and blogs for librarians; development of Subject gateways

Books for study and reference:

1. Agarwal, Vibhuti. Library Networking: Challenges & Opportunities. Delhi, Rajat Pub., 2000
2. Arunima Baruah ed. Library Database Management. Delhi, Gyan Books, 2002
3. Bradley, Phil. World Wide Web: How to Design and construct Web pages. 2<sup>nd</sup> edition. London, Europa Publications Ltd., 2000
4. Chellis, James, Charles Perkins, Matthew Strebe. Networking Essentials: MCSE Study Guide. BPB Pub., 1998
5. Chopra, Y.L. & Chopra, Mamta (ed). Challenges before Library and Information science new Millennium. Delhi, Ess Ess, 2001
6. Elemenri and S. Navathe. Fundamentals of Database System. Delhi, Dorling Kindersley, 2008
7. Faruqi, KK and Alam, M. Library Information systems and E- Journal Archiving. New Delhi, Authors Press, 2005.
8. Garkoti, G.K. Concise Encyclopaedia of Library and Information Technology. Delhi, Ess Ess, 2001
9. Gopal, Krishan. Library Online Cataloguing in Digital Way. Delhi, Authors Press Pub, 2000
10. Gopal, Krishan. Technological future of Library and Information Science. Delhi, Authors Press, 2001.
11. Haravu, L.J. Library Automation – design, principles and practice. New Delhi, Allied, 2004.
12. Kashyap, Madan Mohan. Computer based library systems designing techniques. New Delhi, Sterling, 1999

13. Kochtanek and Matthews. Library Information Systems. Connecticut, Libraries Unlimited, 2004
14. Kochtanek, Thomas R & Matthews, Joseph R. Library Information systems: from Library Automation to Distributed Information Access solutions. Connecticut, Libraries Unlimited, 2002
15. Kumar, P.S.G. Information Technology: Applications (Theory & Practice (paper XI and XIV of UGC Model Curriculum). Delhi, B.R.Pub., 2004
16. Mahender Pratap Singh. Use of Information Technology in Library and Information Science. Delhi, Abhijeet Pub, 2004
17. Malavya V.C. Library Information Technology for the next Millennium. Delhi, Ess Ess, 1999
18. Milan Milen Kovic. Operating System Concepts and Design. New York, Tata McGraw Hill, 2008
19. Mishra, R.C. Information Warfare & Cyber Security. Author Press, 2003
20. Palmer, Martin. Making the RFID most useful in libraries. London, Facet, 2009
21. Pandey, S.K. Electronic Media and Library Information Technology. Delhi, Anmol, 2000
22. Pedley, Paul. Free Business and Industry Information on the Web. London, Taylor & Francis Ltd, 2001.
23. Prasanna Kumar H.E. Multimedia: Its application in Library and Information Science. Delhi, Ess Ess, 2002
24. Rai, A.N. Communication in the Digital Age. Delhi, Authors Press, 2000
25. Ramamurthy, C.R. Globalisation & Library Information Networking. Delhi, Authors Press, 2003
26. Rowley, Jennifer. The Electronic Library. 4<sup>th</sup> Ed. London, Lib. Assoc., 1996
27. S.K. Basandra & S. Jaiswal, Local Area Networks. Delhi, Galgotia Pub., 2001
28. Sashikala Subbarao V. Library Management through Automation and Networking. Bombay, Allied pub, 1999.
29. Satyanarayana B and Others. Multimedia: Its Applications in Library and Information Science. Chennai, TR Pub, 1998
30. Satyapriya Bhattacharjee. Data Communication and Networks. Delhi, Dominant Pub, 2002
31. Silberschatz and Galvin. Operating System Concepts. 8<sup>th</sup> Ed. International Student Edition. Delhi, Wiley India, 2009
32. Singh, Shanker., Ed. World Wide Web Handbook for Librarians. Delhi, Ess Ess, 2000
33. Somasekhara Rao and others. Eds. Advances in Library and Information Science (Festschrift in honour of Dr Sai Ramesh). Visakhapatnam, Sai Pub., 2008

34. Sooryanarayana, P.S. & Mudhol, M.V. Communication Technology its Impact on Library and Information science. Delhi, Ess Ess. 1999

35. William Stallings. Operating Systems. Delhi, Dorling Kindersley (India), 2009

36. Balasubramaniam, P. E Learning for library professionals. New Delhi: Regal pub., 2013.

#### **PAPER -14 : AUTOMATION AND NETWORKING OF LIBRARY AND INFORMATION CENTRES (PRACTICAL)**

##### **Objectives:**

1. To impart practical training in the use software to develop bibliographic databases
2. To give practical training in the use of library automation software
3. To impart practical training in design & development of web pages and web blogs

##### **Course Content:**

Unit1: Creation of Database using CDS/ISIS and WINISIS– Search and Retrieval;

Unit 2: Training in open source library automation software KOHA

Unit 3: Design and development of digital library using E-Prints; Dspace/ GSDL software

Unit 4: Design and development of digital library using HTML +CSS , Subject Query Language, JAVA

Unit 5: Creation and hosting of Web blog with links to various library OPACs; online libraries; open source – e-books, e- journals, e-learning packages.

Books for study and reference:

1. Hopkinson, A. and Buxton, A.: The CDS/ISIS Handbook, LA, London, 1994.
2. Raman Nair, R. Basics of CDS/ ISIS for DOS. New Delhi Ess Ess Pub, 1999

#### **PAPER -15 : DIGITAL LIBRARIES**

##### **Objectives:**

1. To make the student understand the concept of digital libraries and major digital library initiatives
2. To create an awareness on management of digital resources
3. To make them familiar with digitization techniques and their application

**Course content:**

Unit 1: Digital Library –Definition, evolution; nature and scope; Types Digital Library Initiatives – an overview

Unit 2: Digital library technologies Digital data formats Digital representation and compression Digital library software Open source software – Basic features of Fedora, GSDL, E-Prints, DSpace

Unit 3: Digitization process Selection of material; Copyright and licensing Preparation / curation Image capturing and production Creation of metadata Creation of full text and file management

Unit 4: Digital libraries access - economic, ethical and social issues User interfaces – tools and techniques Digital Rights Management Data security and privacy

Unit 5: Management of digital libraries H.R. needs for digital libraries Financial management Digital preservation and archiving Evaluation of digital libraries

Books for study and reference:

1. Balakrishnan, Shyama & Paliwal, P.K. Library Digital Technology. Delhi, Anmol, 2001
2. Brogan, Martha L. A survey of Digital Library Aggregation service. Washington, Digital Library Federation, 2003
3. Brogan, Martha L. Contexts and Contributions: Building the distributed library. Washington, Digital Library Federation, 2003
4. Deegan and Tanner. Digital Futures. London, L.A., 2002
5. Ganguly, R.C. Digital libraries: Challenges and prospects. Delhi, Isha books, 2007
6. Hughes, Lorna M. Digitizing Collections: strategic issues for the information manager. Newyork, Neal Schuman Pub., 2004
7. Iorna and Hughes. Digitizing Collections. London, Facet, 2004
8. Pedley, Paul. Digital Copyright. 2<sup>nd</sup> ed. London, Facet, 2009
9. Singh, Ram Shobhit. Encyclopaedia of digital libraries. 2 Vols, Vol.1&2. New Delhi, Anmol Pub, 2008
10. Chowdhury, G.G. and Foo,Schubert, Eds. Digital Libraries and Information Access: Research perspectives. Facet pub, 2012.

**PAPER 16.1 : MARKETING OF INFORMATION SERVICES AND PRODUCTS****Objectives:**

1. To introduce the students to the concepts of marketing and their application in information work.

2. To familiarize the student with marketing strategies and promotion design applicable for information products and Services.

3. To acquaint the student with the information industry and its agencies.

**Course content:**

Unit 1: The Marketing Concept-Definition –Relevance and Application in the Information Field Economics of Information costs, value, benefit, transaction, Production

Unit 2: Planning and Design of Marketing Strategy- Types, Stages-Marketing Audit Measurement and Forecasting-Appling Marketing Strategies in Libraries and IC's

Unit 3: Marketing Research-Objectives and Strategies Marketing Segmentation and Targeting-Methods- Consumer /User Behavioral Analysis-Models Application to Library and IC Users

Unit 4: Marketing Mix-New Product Development and Designing Products; Product Life Cycle Pricing Decisions; Promotion Strategies Dissemination and Delivery Systems Product Development and Dissemination in L & IC's

Unit 5: The Information Industry-Components Information and Information Product Marketing- Agencies and Services-in India and abroad INFORMATICS, NISCAIR SERVICES, BLAISE.

Books for study and reference:

1. Bellardo, Trudi & Waldhart, Thomas, J.: "Marketing products and services in academic libraries, Libri, 27(3), September 1977.
2. Berry, John: "The Maerketisation of Libraries", Library Journal, 106(1), Jan. 1981. Brindley, Lynne J.: "Information service and information product pricing", Aslib Proceedings, 45(11/12), Nov/Dec. 1993.
3. Blaise, Cronin, Ed.: Marketing of library and information services, Aslib, London, 1992.
4. Bryson, Jo: Effective library and information Centre management, Jaico Publishing, Bombay, 1996.
5. Carroll, Daniel: Library Marketing: Old and new truths, Wilson Library Bulletin, 57, 1982.
6. Casper, Cheryl A.: Pricing policy for library services, JASIS, 30(5), May 1979.
7. Chopra, H.S., Ed.: Information marketing. Delhi, Rawat Pub., 1996
8. Christou, C.: "Marketing the information centre: a blueprint for action", Wilson Library Bulletin, 62(8), August 1988.
9. Condous, C.: "Non-profit marketing – library's future", Aslib Proceedings, 35(10), Oct.,1983.

10. Cronin, Blaise: "New technology and marketing – the challenge for libraries", *Aslib proceedings*, 34(9), Sept., 1982.
11. De Saez, E.E.: *Marketing concepts for libraries and information centres*, LA, London, 1993.
12. Eileen Elliott, De Saez. *Marketing Concepts for Libraries and Information Services*. 2<sup>nd</sup> Edition. New York, Neal-Schuman Publishers, 2002
13. Flaton, Trine Kolderup ed. *Management, marketing and promotion of library services based on statistics analysis and evaluation*. Munchon, K.G. Saur Verlage Pub., 2006
14. Gorchels, Linda, M.: "Trends in Marketing services", *Library Trends*, 43(3), Winter, 1995.
15. Hannabuss, S.: "Measuring the value and marketing the service: an approach to library benefit", *Aslib Proceedings*, 35(10), Oct., 1983.
16. Jain, Abhinandan et.al., Ed.: *Marketing of library and information services*, IIM, Ahmedabad, 1995.
17. Kapoor, S.K., Ed.: *Marketing of library and information services in India: XIIIth IASLIC All India Conference held at Calcutta in 1988*, IASLIC, Calcutta, 1988.
18. Kotler, Philip and Armstrong, Gary. *Principles of Marketing*. 12<sup>th</sup> Ed. Delhi, Dorling Kindersley (India) Pvt Ltd, 2008
19. Massey, M.E.: "Market analysis and audience research for libraries", *Library Trends*, 24(3), January, 1976.
20. Narayan, G.J. *Library and Information Management*. New Delhi, Prentice Hall, 1991
21. Pickup, J.A.: "What business are we really in", *Aslib Proceedings*, 39(10), October 1987.
22. Rowlands, G.: "Towards an information market model", *Aslib Proceedings*, 40(1), Jan.1988.
23. Seetharama, S. *Libraries and information centres as profit making Institutions*. New Delhi : Ess Ess Publications , 1998
24. Smith, R.: "Marketing the library", *Aslib Proceedings*, 39(9), September 1987. Woods, B.: "Evaluation of marketing information: some current practices and trends", *Aslib proceedings*, 44(10), October 1992.
25. Web, Sylvia P. and Winterton Jules. *Fee-based services in Library and Information Centres*. London, Europa Yearbook, 2003
26. Chandra Sekhar, G. *Marketing Information Systems* . Gyan books .ISBN :7835 915 1 2012

## PAPER- 16.2 : KNOWLEDGE MANAGEMENT

### Objectives:

1. To acquaint the student with the knowledge society and the changing role of librarian as knowledge manager
2. To make the student understand the role of technology in knowledge management
3. To familiarize the student with knowledge management tools.

### Course Contents:

Unit 1: Sociology of Knowledge; Knowledge society. Knowledge environment; Types of Knowledge: Tacit and Explicit;

Unit 2: Introduction to KM – evolution, definition, objectives and perspectives of KM; Significance of KM. Information Management Vs. Knowledge Management; Role of Technology in KM – knowledge management tools

Unit 3: KM Cycle – Knowledge Creation, Acquisition, Capture, Codification, discovery and data mining, Sharing and Application; KM frame work and Models;

Unit 4: Knowledge and Organization - Knowledge Workers, essential skills for knowledge workers. Role of LICs as Knowledge Management centres; K.M. applications in India

Unit 5: KM tools - Selection and Evaluation of KM Tools: Content Management Systems, Business Intelligence, Search Engines, Enterprise Knowledge Portals, Technologies and Tools for Collaboration: Blogs, Wikis, Groupware, Discussion Groups, Collaborative Tagging.

Books for study and reference:

1. Abell, Angela and Oxbrow, Nigel. *Competing with knowledge: the library professional in knowledge management age*. London, L.A., 2002
2. Al Hawarden, S. *Knowledge Management: cultivating knowledge professionals*. Oxford, Chandos Pub., 2003
3. Byron Bergeron. *Essentials of Knowledge Management*. New York, John Wiley and Sons, 1990
4. Elias M. Awad, Hassan M. Ghaziri *Knowledge Management*. PrenticeHall, 2004.
5. Groff, T.R., and Jones, T.P. *Introduction to Knowledge Management*. Butterworth Heinemann, 2003.
6. Irma Becerra-Fernandez, Avelino Gonzalez, Rajiv Sabherwal. *Knowledge Management Challenges, Solutions, and Technologies*. Prentice Hall, 2004
7. Philippe Baumard. *Tacit Knowledge in Organizations*. Sage Pub., 1999

8. Seetharama, S. Ed. Libraries and Information Centres as Profit Making Institutions. New Delhi, Ess Ess Pub., 1998
9. Stuart Barnes (ed) Knowledge Management Systems Theory and Practice. Thomson learning, 2002
10. Dsouza, K.C. Knowledge Management: An introduction. Facet Pub. 2011.

### **PAPER- 16.3 : BIBLIOMETRICS AND SCIENTOMETRICS**

#### **Objectives:**

1. To acquaint the student with concepts of bibliometrics, scientometrics and webometrics
2. To introduce various techniques of bibliometric analysis and application of laws, citation analysis

#### **Course content:**

Unit 1: Bibliometrics – definition, historical perspective Concept of librmetry – application in libraries

Unit 2: Bibliometric laws – Bradford's laws, Zipf's Law, Lotka's law – Characteristics and application

Unit 3: Citation analysis – definition and application Citation studies – citation indexing Bibliographic coupling

Unit 4: Informetrics and Scientometrics – definition and scope Information flow-quantitative studies

Scientometric analysis – communication patterns in science – scientific Productivity Price law; half-life and obsolescence

Unit 5: Webometrics – definition and scope; methods and tools Application of bibliometrics to the Internet Quantitative and qualitative studies on the Web Books for study and reference:

1. Bookstein, A.–Bibliometric Distribution. Library Quarterly 46[4], 1934. P 416-23
2. Brookes B.C: Numerical Methods of Bibliographic analysis. Lib. Trends, 22.1973.P18-43.
3. Brookes, B.C. Derivation & Application of the Bradford Zipf's Distribution Journal of Doc. 24[4], 1968, P247-69.
4. Brooks B.C.: Theory of the Bradford's law. Journal of Documentation. 33(3) 1977 P.180-209
5. Brooks, B.C. Bradford's law and the Bibliography of Sc. Nature, 224, 1969. P955-6
6. Devarajan, G. Ed. Bibliometric Studies. . New Delhi, ESS ESS Pub, 1997

7. Frost, C.O.: Use of citations in Literary Research – a preliminary classification of citation function. Lib. Quarterly, 44, 1979, P399-414.

8. Govindaraju, N. Bibliometric applications: Study of literature use pattern among Economics faculty and scholars. New Delhi, Akansha pub House, 2009

9. Heine.M.A. Indiusof Literature Dispersion Based on Qualitative attributes. JI of Documentation, 34, 1978, P175-88.

10. Heinzkill J.R.: Characteristics of References in selected scholarly English Literary Journals. Lib Quarterly. 50, 1980, P352-365.

11. Lancaster, F.W. Measurement of Evaluation of Library Services. Washington, Resource Press, 1979

12. Leimkuhler, F.F. Bradford Distribution. Journal of Documentation. 23,Sep. 1967,P.187-207

13. Meghanadha Reddy, K.: Phenomenon of scatter of subject literature IASLIC Bulletin. 29(1), 1984P.11-18.

14. Pope, Andrew. Bradford's Law & the periodical literature of Inf. Sci. J ASIS 26[4], 1975, P 207-13.

15. Price, Derek De Solla. General Theory of Bibliometric & other Cumulative Advantage process. J. of American Society for Information Science. 27(2), 1976, P292-307.

16. Pritchard, Allan. Statistical Bibliography or Bibliometrics. Journal of Doc. 25[4].1969 p-348-9

17. Ravichandra Rao, I.K: Bibliometric Models - An Entropy Approach & their application/ IASLIC Special Publication No.25, Bangalore, 1995. p 1-7

18. Roy Choudhury S.P & Mahapatra M: Validity & Scope of Bradford's scatter laws. Some observations. IASLIC Special Publication, Doc. No 25. 15<sup>th</sup> IASLIC Conference Bangalore, p 71-78.

19. Sengupta I.M.: Recent growth of the literature of Biochemistry & Changes of ranking of periodicals. Journal of Doc,2 9, 1973 P192-287

20. Subba Rao, C V: Librametry - A statement of limitations & values IASLIC Spl Doc no.25 15<sup>th</sup> IASLIC Conference, Bangalore P.92-100

21. Tague. J.M. : Success – Breeds – Success phenomenon & Bibliometric process.

22. Valasayya, G. Literature use pattern of scholars in Telugu language and literature: A bibliometric study of the PhD theses submitted to Andhra university during 1945- 1992. Visakhapatnam, A.U. Press, 2005.

23. Vickery B.C: Statistics of Scientific & Technical articles. J.of Doc-24 1968. P192

24. White E.C.: Bibliometrics from curiosity to convention. Special Libraries. 76(1) 1985 P35-43

## PAPER - 16.4 : DOCUMENTATION

### Objectives:

1. To acquaint the students with the concept , types and forms of scientific communication.
2. To make known the students about the scientific literature& literature search processes and tools.
3. To impart knowledge on the guidelines of scientific writing, presentation and about style manuals and citation practice.

### Course Content:

Unit 1: Scientific communication - Definition, types and forms of scientific communication (formal & informal)

Unit 2: Scientific Literature/ Information Sources - Primary, Secondary Sources in Print, Electronic and Online.

Unit 3: Literature Search - Search Statement and Strategies, Search Processes; Information gathering tool.

Unit 4: Principles/Guidelines of Scientific Writing (Practical Module). The mechanics of data organization and presentation - oral, posters, writing/graphic - journal articles, thesis/dissertations and research/project proposals for funding, Indexes & Abstracts.

Unit 5: Documentation - Ethics - Academic Integrity & Plagiarism, Style Manuals- MLA, APA, Chicago. and Citation practice.

Books for study and reference:

1. Bennett, David and Jennings, Richard, Successful Science Communication. CUP: 2011. . Day, Robert; Sakaduski, Nancy. Scientific English: A Guide for Scientists and Other Professionals. Ed. 3. ABC-CLIO. 2011.
2. Hancock, Elise. Ideas into words: mastering the craft of science writing. Johns Hopkins University Press, 2003.
3. Jean-Luc Lebrun. Scientific Writing 2.0: A Reader and Writer's Guide. NJ: World Scientific Publishing Co.: 2011.
4. Jonathan Monroe. Writing and Revising the Disciplines. Cornell University Press, 2002.
5. Lindsay, D R. Scientific writing thinking in words. Collingwood, Vic.: CSIRO Pub., 2011.
6. Matthews, J R and Matthews R W. Successful Scientific Writing: A step-by-step guide for biological and medical scientists. Ed.3. NY: CUP:2008.
7. Nicholas J. Higham. Handbook of writing for the mathematical sciences. Philadelphia: Society for Industrial and Applied Mathematics, 1998.

## PAPER- 16.5 : COMMUNITY INFORMATION SERVICES

### Objectives:

1. To introduce the students to the concepts of community information and studies on it.
2. To make known the students about the information needs of different communities and the information providers.
3. To familiarize the students with types of community information services, centres and community information services to specific communities.

### Course Content:

Unit 1: An Overview of Community Information : Community Information-Definition and Scope. Need for Community Information in society. Role of libraries in handling of Community Information. Community Information Studies in India & Abroad.

Unit 2:Study of Communities: Types of communities and their characteristics. Choice of areas and communities. Sampling techniques. Collectin of information : Questionnaire, interviews and other methods. Compilation and interpretation of data.

Unit 3: Information Needs : Information needs- Definition, scope. Types of information needs & their methods of assessment. Everyday information needs. Information sources / providers- Nature & characteristics.

Unit 4: Community Information Services : Meaning, types and target users. Community Information Centres –planning, role in information provision, services.

Unit 5: Community Information Services to Specific Communities : Rural, urban & metropolitan communities. Industrial, business communities. Academic, research, institutional and R &D communities. Physically, mentally disadvantaged communities. Chirdren, old people and illetarates.

Books for study and reference:

1. Bunch,A(1982).Community Information Services: Their origin, cope and development.London:Clive Bingley.
2. Chandrasekhara Rao,V.(1996).Library Services for Tribal Community. Delhi: Delta Publishing House.
3. Durnance,J.C.(1984): Armed for Action: Library response to citizen information needs. New York:Neal Schuman.
4. Sarada,K.(1986).Rural Library Service in India. New Delhi :Ess Ess Publications.
5. Voos,H.(1969). Information Needs in Urban Areas: A Summary of Research in Methodology. New Brunswick, N.J. Rutgers University Press.
6. Warner, B.S., Murray,A.D.and Palmour, V.E.(1973).Information needs

for Urban Residents. Baltimore,MD, RPC.

7. Vashishth,C.P.ed.(1995).Libraries and Community Resource Centres.New Delhi:B.R. Publ.Corp.

8. McCloven, L.R. (1951). Public Library extension, Paris: UNESCO.

9. Ranganathan, S.R. (1950). Library development plan: A 30 year programme for India with draft Library bill. Delhi: Delhi University.

10. McCloven, L.R., (1942). Public Library system of Great Britain: Report on its present conditions with proposals for reorganization. London: Library Association.

### OPEN ELECTIVE :

#### PAPER- 17 : INFORMATION LITERACY SKILLS DEVELOPMENT

##### Objectives:

1. To create awareness among the students about the concept of information literacy and its importance at every stage of their life.

2. To teach the students various information skills required in the contemporary information society to live a dynamic, successful, secured and happy life.

##### Course content:

Unit 1: Information literacy – Meaning, definition, objectives and Importance. Information literacy skills in Educational and research environment. Information literacy and lifelong learning

Unit 2 :Information literacy models – Features and examples. Instructional techniques and methods. Information Literacy Programmes – planning & design.

Unit.3:Information Literacy Skills for Students – Print literacy skills, Computer Skills, Internet search Skills and Multimedia literacy skills.

Unit 4. Digital literacy skills, Media literacy skills, Legal and ethical literacy skills. Information access and use-implications of Copy right, Plagiarism and fair use.

Unit 5. IL skills for evaluation of print and online information and information sources. Tests and Assignments to evaluate information literacy skills and competencies of target groups.

##### Books for study and reference:

1. A.L.A. Final Report of the A.L.A. Presidential Committee on information Literacy. Chicago, A.L.A., 1989

2. Blanchett, Helen. A guide to teach Information Literacy. London, Facet, 2010

3. Corral, Sheila. Information literacy through inquiry. London, Facet, 2010

4. Devine, Jane. Going Beyond Google: The invisible web in learning and teaching. London, Facet, 2009

5. Godwin, Peter and Parker, Jo. Eds. Information literacy meets Library 2.0. London, Facet, 2008

6. Martin, Allan and Rader, Hannelore. Information and IT Literacy: Enabling learning in the 21<sup>st</sup> century. London, Facet, 2003

7. Information Age. V 3 ( 3 ) July 2009

8. Proceedings of the National Seminar on Information Literacy for Higher Education, January 29-30, 2007. Organized by Dept. of Library and information Science, University of Madras.

9. Information Literacy in the Wild (free downloadable e-book) Edited by Kristin Fontichiaro [www.sla.org.uk](http://www.sla.org.uk) › Blog/News; <http://www.smashwords.com/books/view/115254>.. It is also available as a formatted-for-print PDF: <http://bit.ly/infowild>

10. Overview of information literacy resources worldwide. compiled by Dr Forest Woody Horton Jr. Paris, UNESCO, 2013. Freely downloadable e-book available at: <http://unesdoc.unesco.org/images/0021/002196/219667e.pdf>

11. Understanding information literacy: a primer. compiled by Dr Forest Woody Horton Jr.

Paris, UNESCO, 2008. Freely downloadable e-book available at: <http://unesdoc.unesco.org/images/0015/001570/157020e.pdf>

12. The Information Literacy User's Guide: An Open, Online Textbook. Ed by Greg Bobish and Trudi Jacobson. SUNY Albany ,2014.Downloadable since Feb. 2015 from site: <http://textbooks.opensuny.org/the-information-literacy-users-guide-an-open-online-textbook/>

### SEMESTER - IV :

#### Paper 18: Electronic Resources Management (ERM)

##### Objectives:

1. To familiarize the students with different types of electronic resources and policies of their acquisition/ access

2. To acquaint the students' about current trends in electronic and information resources.

##### Course Contents:

Unit 1: Electronic Information Sources: Meaning, definition, characteristic, and use; Types of Electronic Information resources: E-journals, e-books, e-theses, e-newspapers, Blogs, and wikis, online dictionaries and Encyclopaedias: free and proprietary, and other e-resources. Evaluation of electronic information sources.

Unit 2:Electronic Resources Selection and Procurement The Economic Context of Electronic Resource Selection- Consortial Purchasing and Pricing & Scholarly Communication Reform Initiatives; Selection Policies and Strategic Plans; Internal Procedures for Initial Evaluation and Purchase. Licensing Issues and Practices.

Unit 3:Electronic Information Sources- Access, Preservation & Archiving Modes of Access to E-Resources; User Interface, Training & Support, Copyright Issues, Web Presentation Strategies; Ongoing Evaluation and Usage Information Preservation and archiving of Electronic Sources.

Unit 4:Electronic Information Services: Conceptual foundations, types and characteristics, traditional vs. digital information sources; Bibliographic databases, Citation databases; Full-text databases; Portals, gateways, open access, Alerting services (e-CAS, e-SDI) Bibliographic, referral, e-DDS.

Unit 5:Current Trends in Electronic Information Sources and Services Institutional Repositories; Social media and networking; Mobile Technology Applications; Discussion forums and information gateways; Information search – types; On-line searching, search techniques.

Books for study and reference:

1. Holly Yu (2008). *Electronic Resource Management in Libraries: Research and Practices*. IGI Global, 2008.p 440.
2. Pal, Surendra. (2012). *Electronic Resources Management System: A Challenging Issue for LIS Professional in Digital Era*. Available at [https://www.researchgate.net/publication/284139152\\_Electronic\\_Resources\\_Management\\_System\\_A\\_Challenging\\_Issue\\_for\\_LIS\\_Professional\\_in\\_Digital\\_Era/citation/download](https://www.researchgate.net/publication/284139152_Electronic_Resources_Management_System_A_Challenging_Issue_for_LIS_Professional_in_Digital_Era/citation/download).
3. Kumbhar, T.S.(2013). *Electronic Resource Management in Libraries: Best Practices*
4. [https://library.kiit.ac.in/pdf/pdf\\_presentation/Electronic\\_Resource\\_Management\\_in\\_Libraries\\_Best\\_Practices.pdf](https://library.kiit.ac.in/pdf/pdf_presentation/Electronic_Resource_Management_in_Libraries_Best_Practices.pdf).
5. IFLANET. ISBD(ER): International Standard Bibliographic Description for Electronic Resources. 15 Nov. 2001. International Federation of Library Associations and Institutions. 10 Dec. 2001.<https://archive.ifla.org/VII/s13/pubs/isbda.htm>
6. Jewell Timothy (2001). *Selection and Presentation of Commercially Available Electronic Resources: Issues and Practices*, Timothy Jewell, CLIR Report, 2001.
7. [https://www.clir.org/wp-content/uploads/sites/6/pub99\\_57d70f70b2b15.pdf](https://www.clir.org/wp-content/uploads/sites/6/pub99_57d70f70b2b15.pdf)
8. Jill Emery and Graham Stone. 2013. *Techniques for Electronic Resource Management*. American Library Association Editions. ISBN:978-0-8389-5884-1. p44

10. Emery, J., Stone, G., & McCracken, P. (2020). *Techniques for Electronic Resource Management: Terms and the Transition to Open*. Chicago: American Library Association. [https://pdxscholar.library.pdx.edu/cgi/viewcontent.cgi?article=1305&context=ulib\\_fac](https://pdxscholar.library.pdx.edu/cgi/viewcontent.cgi?article=1305&context=ulib_fac)

11. Michael Breaks, "Management of electronic information." *Proceedings of the IATUL Conferences*. Paper 6.

12. <https://docs.lib.purdue.edu/iatul/1999/papers/6>

13. Timothy D. Jewell & Anne Mitchell (2005) *Electronic Resource Management, The Serials Librarian*, 48:1- 2, 137-163, DOI: 10.1300/J123v48n01\_14

14. [https://doi.org/10.1300/J123v48n01\\_14](https://doi.org/10.1300/J123v48n01_14)

## **PAPER- 19.1: ACADEMIC LIBRARY AND INFORMATION SYSTEM**

### **Objectives:**

1. To create an awareness on the evolution and development trends of academic library system in India
2. To make the student understand workflow in different sections of academic libraries
3. To abreast them with the technology based services and practices

### **Course Content:**

Unit 1: Higher education and academic libraries - Landmarks in Education since 19th century in India; Academic Library as a support system in formal and informal system of education. Growth and development of college and university libraries in India. UGC and its role in the development of academic libraries

Unit 2: Academic Library organization and administration - organizational structure; Library Governance – authority, Committee Standards for academic libraries – recommendations of the various committees and commissions

Unit 3: Organization and management of various sections of academic libraries - Human Resource Management Financial management

Unit 4: Collection development and management – Print and electronic books and serials. Technical processing in electronic environment; copy cataloguing – World Cat; IndCat; Dewey Browser etc. Planning and organization of information services – traditional and web based

Unit 5: Resource Sharing and Networking – JISC, OCLC, INFLIBNET Library consortia; UGC Infonet – its functions and services

Books for study and reference:

1. American Association of School Librarians. *Standards for school library programmes*. 1969. ALA, Chicago (Latest).



2. American Library Association. Personnel organization and procedure: A manual suggested for use in college and university libraries. Ed. 2. 1978. ALA, Chicago.

3. Baker, David, Ed. Resource management in academic libraries. 1997. L.A.London.

4. Balakrishnan, Shyama & Paliwal, P.K. Academic Library automation

5. Bavakuty, M. Libraries in Higher Education. ESS ESS Pub., 1988

6. Bhaskara Rao, P. Information Networks and Resource sharing. Delhi, Reliance, 1998

7. Biddiscombe, Richard, Ed. The end – user revolution. 1996. Library Associations, London.

8. Brophy, Peter. The academic library. 2000. Library Association, London.

9. Chapman, Liz. Managing acquisitions in library and information services 2001. Library Association, London.

10. Deshpande, Neela J, & Patil, S.K. University and college Librarianship in India in the 21<sup>st</sup> century: Prof. S.G. Mahajan Festschrift.

11. Gelfand, M.A. ELFAND (MA).University libraries for developing countries. 1968. UNESCO, Paris.

12. Jordon, Peter. The academic library and its users.1998. Gower, London.

13. Line, Maurice B. Ed. Academic Library Management. 1990. Library Association, London.

14. Lyle, G R. Administration of the college library. Ed. 4. 1974. Wilson, New York.

15. Metcalf, K D. Planning academic and research library building. 1965. McGraw Hill, New York.

16. Mitchel, Eleanor and Walters, Sheila A. Document delivery services: Issues and answers. 1995. Learned Information Inc., Medford, NJ.

17. Pawar, Sarbjit Singh. University Grants Commission (UGC) and Development of Library. New Delhi, Deep & Deep Pub., 1998

18. Ranganathan, S.R. School and College libraries. 1942. Madras Library Association, Madras.

19. University Grants Commission (India), Library (Committee) (1957). Report: University and College libraries. 1967. UGC, New Delhi.

20. University Grants Committee (Great Britain) Libraries (Committee) (1963). Report. 1967. HMSO, London.

21. Webb, Sylvia P. Personal development in information work. Ed 2. 1991. Aslib, London.

22. White, Carl M. Survey of University of Delhi. 1965. Planning Unit, University of Delhi.

23. Wilson and Tauber. University Library. Ed. 2. New York, Columbia University Press, 1956.

## **PAPER -19.2 : PUBLIC LIBRARY AND INFORMATION SYSTEM**

### **Objectives:**

1. To create an awareness of the role of public libraries in the society
2. To give an idea to the student about the development of public libraries in India and Andhra Pradesh
3. To introduce students to different activities of public libraries

### **Course Content:**

Unit 1: Introduction to Public libraries – concept, nature and characteristics Role of public libraries in contemporary knowledge society; Recommendations of National Knowledge Commission on Libraries

Unit 2: Development of Public libraries in India Library legislation in India – comparative study Critical study of model Act suggested by S.R.Ranganathan Library movement and legislation in Andhra Pradesh

Unit 3: Public library Management Human Resources Management Financial Management

Unit 4: Organization of public libraries Standards and norms for public libraries Physical facilities - library building, furniture and equipment Collection development – book selection and collection development policies Technical processing

Unit 5: Public library services and products Traditional and web based services Community information services Resource sharing and network activities of public libraries

Books for study and reference:

1. Bunch, Allan. Community Information Services: Their origins, scope and development. London, Clive Bingley, 1982.
2. Campbell, H.C. Developing Public Library System and Services. Paris, UNESCO, 1983.
3. COMLA Seminar on Libraries as Rural Community Resource Centers (1992). Proceedings, ed. by C.P. Vashishth. Delhi, B.R. Publishing Corp., 1995.
4. Ekbote, Gopal Rao. Public Libraries System : Hyderabad, Ekbote , 1987
5. Gopala Krishnayya, Vavilala. Library Movement in Andhra Pradesh. Hyderabad, Directorate of Inf. & Public Relations, 1977.
6. Government of India, Advisory Committee for Libraries (1958) Report.2nd ed. Delhi, Manager of Publications, 1971.
7. Government of India. NAPLIS Report on Public Libraries as accepted by the Empowered Committee. CLIS Observer. 5(1-2), 1988

8. Govt. of India, National Knowledge Commission. Libraries: Gateways to Knowledge. New Delhi, National Knowledge Commission, 2007.
9. Guruswamy Naidu, N. Public Library Finance. New Delhi, ESS Pub. 1990.
10. Harrison, K.C. The Library and the Community. London, Deutsch, 1977.
11. Khanna, J.K.: Library and Society, Kurukshetra, Research Publications, 1987.
12. Library Association. Community Information: What Libraries Can Do.? A consultation Document. London, LA, 1980.
13. McMenomy, David and Poulter, Alan. Delivering digital services: A handbook for Public libraries and learning centres. London, Facet, 2005
14. Murison, W. J. The Public Library. London, GG, Harrap.
15. Neelameghan, A. Ed. Public Library System .Bangalore, Sarada Ranganathan Endowment for Library Science, 1972.
16. Prytherch, Ray Ed. Handbook of library and information management. 1998. Gower Publishing, England.
17. Raju, A.A.N. Library Movement in Andhra Pradesh. Delhi, Ajanta Publication, 1988.
18. Ranganathan S.R. Library Development Plan: A Thirty Year Programme, India with draft Library Bill. 1950. University of Delhi, Delhi.
19. Rath, P. K. and Rath, M.M. Fundamentals of a State Library System. Delhi, Parimal Pub., 1990.
20. Routh, R.K. : Indian Library Legislation. New Delhi, 1991.
21. RRRLF. A Comprehensive plan for rural libraries in India. Calcutta, RRLF, 1995.
22. Sharma, Pandey, S.K. : Development of Public Libraries in India. New Delhi
23. Tamilnadu Directorate of Public Libraries. National Seminar on Public Library Movement: Education through public libraries (conference volume). Madras, 1991.
24. Venkatappaiah, V. Indian Library Legislation. 2 Vols. New Delhi, Daya Publishing House, 1990.
25. Vijaya Kumar, J. Public Library System. New Delhi, Anmol pub. .2010. ISBN :978 81 261 4192 0 .

### **PAPER -19.3 : SPECIAL LIBRARY AND INFORMATION SYSTEM**

#### **Objectives:**

1. To introduce the student to the special nature of different managerial perspectives of special libraries
2. To make the student understand workflow in different sections in automated and networked environment

3. To abreast them with the technology based services and practices for specialized users

#### **Course Content:**

Unit 1: Special library – concept, evolution, scope, characteristics, functions Role of libraries in R and D institutions, Industries, Government departments

Unit 2: Human resource management: education and training-related standards Financial management – budgeting and costing – related models

Unit 3: Collection development and resource management – policies and guidelines for books, periodicals, reports, patents, standards and other special materials; Audio visual, electronic and digital sources Library space and accommodation – design and planning

Unit 4: Planning and organization of information and dissemination services – CAS, SDI; Information consolidation and repackaging; technical information services; document delivery services; digital and virtual reference services

Unit 5: Resource sharing and networking; Consortia models for special libraries in India (CSIR Consortia, HELLIS, INDEST etc.) Internet and emerging special library scenario

Books for study and reference:

1. Chapman, Liz. Managing acquisitions in library and information services. 2001. Library Associations; London.
2. Hernon, P and Whitman, J.R. Delivering satisfaction and service quality: A customer-based approach for libraries. Chicago, A.L.A., 2001.
3. Kumar, P.S.G. Agricultural librarianship. New Delhi, B.R. Pub., 2008
4. Kumar, P.S.G. Business / Industrial librarianship. New Delhi, B.R. Pub., 2008
5. Raitt, David, Ed. Libraries for the new millennium. 1997. Library Association, London.
6. Renuka, P. Library and Information Science in Agricultural Education, Research and Extension. New Delhi, Akansha Pub., 2009
7. Sasikala, C. Industrial information System. Reliance Pub., 1994
8. Scammel, A. W. Ed. Handbook of special librarianship and information work. Rev. ed. 7. London, Aslib, 1997.
9. Varalakshmi, R.S.R. information Services in Medical College Libraries. New Delhi, Ess Ess Pub., 1992.
10. Wilkie, Chris. Managing film and video collections. London, Aslib, 1999

## **PAPER -19.4 : ENGINEERING AND TECHNOLOGICAL LIBRARY AND INFORMATION SYSTEM**

### **Objectives:**

1. To introduce the student to the special nature of engineering and technological libraries
2. To make the student understand workflow in different sections in automated and networked environment of engineering college libraries
3. To abreast them with the technology based services and practices developed for academicians and practitioners of the specific discipline

### **Course content:**

Unit 1: Emerging trends in engineering education in India. The role of AICTE in development of Engineering and Technology libraries. Information needs of engineering and technology libraries

Unit 2: Planning and designing of Engineering Information Systems Application of ICTs in library house keeping operations Management of Engineering Information System – professional staff and training; Financial management

Unit 3: Users community – categories, levels of their information requirements. Management of electronic and digital sources – internet sources and online data bases in engineering and technology

Unit 4: Information Literacy – Engineering information systems and networks; Consortia models – INDEST

Unit 5: Networking and resource sharing of engineering and technological Information Consortia models- IEEE Transactions; INDEST; Open courseware- NPTEL

Books for study and reference

1. Bhaskara Rao, P. Information networks and Resource sharing. Delhi, Reliance, 1998
2. Conkling, T.W. and Mussler, L.R. Engineering Libraries: Building Collections and Delivering Services. Routledge, 2002
3. Crommer, Donna. Reference Service in Science and Engineering Libraries: Management Training and Continuing Education (Reference Services). Libraries Unlimited, 2006
4. Osif, Bonnie A. Using the Engineering Literature (Routledge Studies in Library and Information Science). New York, C.R.C., 2006
5. Pruett, Nancy Jones. Scientific and Technical Libraries Volume 2: Functions and Management (Library and Information Science). New York, Academic press, 1987

## **PAPER - 19.5 : AGRICULTURE INFORMATION SYSTEM**

### **Objectives:**

1. To create an awareness on the growth and development of Agricultural Information System in India
2. To make known the students about the Information Sources & Services in Agriculture and organization and management of resources.
3. To acquaint the students the information needs and studies of agricultural information users and trends in agricultural information systems and networks .

### **Course Content:**

Unit 1: Agricultural Education and Agricultural Libraries : Growth and development of Agricultural education and research in India. Role of libraries in Agricultural education, research and extension. Development of Agricultural Libraries in India.

Unit 2: Information Sources and Services in Agriculture : Specialized collections and Information sources. Information services and products in Agricultural Science and technology with special reference to India. Agricultural Information Centres – National and International.

Unit 3: Organization and Management of Resources : General Principles of Information Management. Information organization , processing and dissemination. Developing need based and on demand specialized services.

Unit 4: Information Needs : Identifying special needs of Agricultural faculty & research staff. User studies of Local Agriculture Libraries. Preparing a report on user needs (survey).

Unit 5: Agricultural Information Systems and Networks : Current trends in Agricultural Systems and Networks. Resource sharing and Networking in Agricultural Libraries in India. International Agricultural Databases. Professional Associations.

Books for study and reference:

1. Alan Chard, J.R. and Farrel, Lois (1981). Guide to Agricultural and Biological Research. Berkeley : University of California.

2. Deshmukh, P.P. (1969).Indian Council of Agricultural Research (Delhi).Agricultural University Libraries on Committee, Find Report, New Delhi : ICAR.
3. Lilley, G.P. (1981).Information Sources in Agriculture and Food Sci-ence. London : Butter Worths.
4. Ramtirth, Agris.(1982).Information System for Agriculture Science andTechnology Inperspective in Library and Information Science.1. pp211-214.
5. Renuka,P.(2009).Library and Information Services in Agricultural Edu-cation, Research and Extension. New Delhi: Akansha Publishing House.
6. Jain,S.R.and Sunil, Gorla.(2001).Status of Agricultural Libraries in In-dia: A Critical Analysis. In Annals of Library and Information Studies.48,1;31-38.

**PAPER - 20 : INTERNSHIP PAPER - 21 : SEMINAR AND RECORDS**

**PAPER - 22 : DISSERTATION AND VIVA – VOCE OPEN ELECTIVE :**

**PAPER - 23 : LITERATURE SEARCH TECHNIQUES**

**Objectives:**

1. To create awareness about the importance of systematic search of literature in different environments and for different purposes.
2. To teach the student how to plan, design and execute the literature search for precise retrieval of information in the electronic and digital environ- ment.

**Course Content:**

Unit 1: Literature Search-Meaning, definition and scope. Importance of literature search in various contexts. Literature search and information re- trieval. Skills required for effective literature search.

Unit 2: Types of Literature search- Retrospective and current; Manual vs. automated; Offline vs. online; CD-Rom vs. Online. Method of conducting litera- ture search-step by step process. Search Strategy. Tools and techniques of literature search.

Unit 3: Searching and locating library resources- Use of a library cata- logue, Searching in-house databases, CD-Rom databases, OPAC, Institu- tional Repositories and digital Archives

Unit.4: Searching and retrieving online sources- Internet and WWW re- sources. Online Databases, Open source resources in different subjects.

Unit.5: Methods and techniques to evaluate print and online information and information Sources.

Books for study and reference:

1. Hart, Chris. Doing a literature search: a comprehensive guide for the social sciences. London; Thousand Oaks, Calif.: Sage, 2001
2. De Brún, Caroline and others. Searching Skills toolkit: Finding the evidence. Wiley- Blackwell: Chichester, West Sussex, UK, 2009
3. Fink, Arlene G. Conducting Research Literature Reviews: From the Internet to Paper. 3<sup>rd</sup> Ed. Los Angeles, Sage, 2010
4. Booth, Andrew, Papaioannou, Diana and Sutton, Anthea. Systematic approaches to a successful literature review. London : Sage, 2012
5. Learning to research in the library. Tutorials available at: <http://www.ipl.org/div/aplus/library.htm>.