DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

Curriculum under Choice Based Credit & Grading System

M.A. II Year

Library and Information Science

Semester– III & IV

run at college level from the

Academic Year 2015-16 & onwards

**Department of Library and Information Science
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad**

**Two Years Integrated M.L.I.Sc. Program
[Cafeteria + Credit based system]**

[I] Structure of The Course:

The department has classified various courses in terms of their credit. For convenience each course has been given a number. The first digit of the number represents the number of credits associated with the course. The second two digits provide the level of the course. T in front of the number means theory course and P means Practical course. Any number greater than 50 means the level of the course in Post Graduate and less than 50 means it is for Graduate. One credit in theory course is equivalent to about 16 lectures of 1 hour, whereas it is two hours of practical course. The students are supposed to take course not less than 28 credits in I & II semester and 24 credits in III & IV semester, they are required to complete 104 credits up to Fourth Semester.

[II] Course Schedule:

First Semester

Course Code	Course Name	Core/ Electives	Credit	Marks
LISc101T	Foundations of Information Science	Core	4	100
LISc101P	Practical based on LISc101T	Core	2	50
LISc102T	Knowledge Organization	Core	4	100
LISc102P	Practical based on LISc102T	Core	4	100
LISc103T	Information Sources & Services	Core	4	100
LISc103P	a) Information Sources	Core	2	50
	b) Compilation of Documentation list	Core	2	50
LISc104T	Electives/ Cafeteria	Electives	4	100
	104A1T: Information Search Strategies			
	104A2T: Information Literacy			
	104A3T: Use of Non-Book Material			
LISc104P	Practical based on LISc104T	Electives	2	50

Second Semester

Course Code	Course Name	Core/ Electives	Credit	Marks
LISc201T	Management of Libraries & Information Centres/ Institutions	Core	4	100
LISc201P	Practical based on LISc201T	Core	2	50
LISc202T	Information Processing	Core	4	100
LISc202P	Practical based on LISc202T	Core	4	100
LISc203T	Information Technology- Basics	Core	4	100
LISc203P	Practical based on LISc203T	Core	4	100
LISc204T	Electives/ Cafeteria	Electives	4	100
	204A1T: Electronic Information Sources			
	204A2T: Technical Writing			
	204A3T: Electronic Publishing			
LISc204P	Practical based on LISc204T	Electives	2	50

Third Semester

Course Code	Course Name	Core/ Electives	Credit	Marks
LISc301T	Research Methods & Statistical Techniques	Core	4	100
LISc302T	Information Technology- Applications	Core	4	100
LISc302P	Practical based on LISc302T	Core	4	100
LISc303T	Information Analysis, Repackaging & Consolidation	Core	4	100
LISc303P	Practical based on LISc303T	Core	2	50
LISc304T	Electives/ Cafeteria	Electives	4	100
	304A1T: Documentation			
	304A2T: Archieves Management			
	304A3T: Information Reading Skills			
LISc304P	Practical based on LISc304T	Electives	2	50

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Fourth Semester

Course Code	Course Name	Core/ Electives	Credit	Marks
LISc401T	Information Retrieval	Core	4	100
LISc401P	Practical based on LISc401T	Core	2	50
LISc402T	Project Work	Core	4	100
LISc402P	Seminar	Core	2	50
LISc403T	Core Electives	Core Elective	4	100
	403A1T: Marketing of Libraries & Information Centres			
	403A2T: Rural and Community Information Systems			
	403A3T: Health Information Systems			
LISc403P	Practical based on LISc403T	Core Elective	2	50
LISc404T	Electives/ Cafeteria	Electives	4	100
	404A1T: Web Page Design			
	404A2T: Intellectual Property Rights			
	404A3T: Thesaurus Construction			
LISc404P	Practical based on LISc404T	Electives	2	50

[III] Syllabus

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Third Semester

LISc301T Research Methods and Statistical Techniques (Theory) (Credit 2)

No. of Lectures/ Unit

05 **Unit 1. Research**
- Concept, Meaning, Need and Purpose of research
- Types of Research Fundamental and Applied including inter-disciplinary and multi-disciplinary approach
- Research and Development of Scholarship

15 **Unit 2. Research Design**
- Conceptualization and nationalization
- Types of Research Design
- Identification and formulation of problem
- Hypotheses, Nominal and Operational definition
- Designing Research Proposal
- Ethical aspects of Research
- Literature Search – Print, Non-print and electronic sources

10 **Unit 3. Research Methods**
- Scientific Method
- Historical Method
- Descriptive Method
- Survey Method and Case Study Method
- Experimental Method and Delphi Method

10 **Unit 4. Research Techniques and Tools**
- Questionnaire
- Schedule
- Interview
- Observation
- Proforma Method
- Scales and Check lists
- Library Records and Report Analysis
- Sampling techniques

15 **Unit 5. Data Analysis and Interpretation**
- Descriptive Statistics, Measures of Central Tendency – Mean, Mode and Median
- Tabulation and Generalization

- Measures of Dispersion, Variance and Covariance
- Standard Deviation
- Graphical presentation of Data Bar, Pie & Line Graphs, Histograms etc.
- Inferential Statistics
- Z-test, T-test, Correlation
- Regression linear and Non-linear
- Chi Square Test
- Sociometry
- Statistical packages – SPSS
- Statistical Graphics etc.

15   **Unit 6.**   **Bibliometrics, Scientometrics and Informatics**
- Definition and Concept
- Bibliometric Laws; Bradford, Zip and Lotka
- Bibliographic coupling
- Obsolescence
- Citation Analysis
- Webometrics
- Citation studies
- Informatics
- Scientometrics

05   **Unit 7.**   **Research Reporting**
- Structure, Style and contents
- Guidelines for Research Reporting
- Style Manuals – Chicago, MLA and APA etc.
- E-Citation and Methods of Research Evaluation

05   **Unit 8.**   **Current Trends in Library and Information Science Research**

Recommended Books:
1. Goods W. J. & Hatt P.K. : Methods in Social research New York, McGraw Hill Co., 1952
2. Young Pauline V. : Scientific social surveys and Research, Bombay Asia publishing House, 1980
3. Bush Charies H. & Harter,
4. Ravichandrao I.K. : Quantitative Methods for library and information science Calcutta Wiley Eastern, 1985
5. Sadhu A.N. & Amargit singh: Research methodology in social sciences Bombay Homalayan 1980
6. Line M.B. : Library surveys London Clive, Bingley 1967
7. Gupta C.B. & Ratan : Statistical calculations Delhi Vikas pub House 1973
8. Sardana J. L. & Sehgal R. L. : Statistical methods for Libraries, New Delhi ESS publication 1981
9. Das S.K. : Introduction to research Bombay A Mukherjee & Co. Pvt. Ltd. 1986.

10. Wilkinson F.S. & Bhandarkar P.L.: Methodology and Techniques of Social research Bombay Himalayan publishing House 1977.
11. Ghosh B.N.: Scientific method and social research, new Delhi sterling publishers, 1982.
12. Whitney F.L.: Elements of Research Bombay Asia publishing house 1961.
13. Hillway Tyrus: Elements of Research Bombay Honghten Mifflinme Co.1964
14. Carpenter Ray, & Vasu Ellen Story : Statistical Methods for Librarians, Chicago, and American Library Association, 1978
15. Gupta C.B. Introduction to Statistical methods Delhi chand 1974
16. Borko H. Target for Research in Library Education Chicago American Library Association 1973
17. Sehgal R.L. : Designing & Evaluation of Research in Library Science Vol. 1&2 New Delhi ESS 1998
18. Sehgal R.L. : Applied statistics for Library science research vol.1&2 New Delhi, ESS publication, 1998

LISc302T   Information Technology: Applications (Theory)
(Credit 4)

No. of Lectures/ Unit

15   **Unit 1. Communication Technology**
- Fundamentals of Telecommunication Technology, Media, Mode and Components
- Network Media, UTP, Optical Fiber, Ethernet, Network Interface Card, Hubs, Routers and Modems
- Network types and Topologies, LAN, WAN & MAN
- Bus, Star, Ring, Token Ring etc.
- Local Area Network – types and topologies

20   **Unit 2.   INTERNET: Basic features and tools**
- Network based Information Services
- Connectivity: Drupe, Leased lines, ISDN, Digital Subscriber lines
- E-mail, SMTP, Wireless, POP3.
- Protocols – FTP, HTTP
- Web Browsers – Netscape Navigator and Internet Explorer
- Web Servers, Web tools and Search Engines
- Internet Security
- Teleconferencing, Tele facsimile, Teletext and Videotext

10   **Unit 3. Digital Libraries**
- Genesis, Definition, Objectives, Scope of Digital Libraries
- Image formats, Audio formation
- Storage media formats – ISO-9660, DVD
- Software and Hardware for Digital Libraries, OCR, Image Editing Software
- Input capture devices, Scanners, Digital Movie Cameras
- Data Warehousing, Data Mining and Metadata

05 **Unit 4. Artificial Intelligence & Expert System (with reference to LIS)**

LISc302P   Information Technology: Applications (Practical)   (Credit 4)

15	**Unit 1.**	CD-ROM, Online Searching
25	**Unit 2.**	Internet Searching
20	**Unit 3.**	Library and Information Center Web Page Design and Creation

Recommended Books:
1. Rowley, Jennifer: Basics' of Information Technolgoy London, Clive Bingley 1988aldm
2. Greenberg A.D. : Digital Images: A practical Guide, New Delhi, Tata McGraw Hill, 1995
3. James: Catalanocynthal: Researching on the world wide Web, New Delhi, Galgotia, 1997.
4. Creating
5. Honeycutt, Jerry and Pike Mary Ann\: Using the Internet Indian (USA), Que Corporaiton 1996.
6. Shah S.L.: Information Technology New Delhi Gyan publishing 1999.
7. Martin James : Telecommunications & the computer New Delhi Prentice Hall of India, 1998
8. Elaine Rich and Kevin Knight : Artificial Intelligence, 1991
9. Winstan P.H. : Artificial Intelligence New York, Addition Wesley published company 1992
10. Elithorn & Bangerji R : Artificial and human intelligence Amsterdam, 1984.
11. T Ashok Babu and others ed : Vision of future library and information systems new Delhi Viva Books 2000
12. Fandian M. Paul and Jambhekar Ashok : Internet for Libraries and information centers New Delhi Mc Grow Hill 2001.

LISc303T   Information Analysis, Repackaging and Consolidation (Theory)   (Credit 4)

No. of Lectures/ Unit

15   **Unit 1. Abstracting**
- Abstracting: types and guidelines in preparing abstract

15   **Unit 2.   Repackaging and Consolidation**
- Content Analysis
- Repackaging, formatting, consolidation

30   **Unit 3. Information Products**
- Information products: nature, concept, types, design; development and marketing

20 **Unit 4. Trends in Information Analysis, Repackaging and Consolidation, including electronic content creation**

LISc303P Information Analysis, Repackaging and Consolidation (Practical) (Credit 2)

60 Students will have to prepare a consolidation package on a given topic.

Recommended Books:

1. Seetharama S. : Information Consolidation and Repacking New Delhi ESS publications 1997
2. Eorko Harold: Abstracting concept and methods New York Medallion Press, 1989
3. Maigell R.E. and others: Abstracting scientific and Technical Literature New York; Wiley interscience, 1971
4. IASLIC: Information Analysis and consolidation activities in nonn R&D contexts (Paper presented at IASLIC seminar Kanpur)
5. Neelameghan A and Seetharama s Reference Frame work an aid to information analysis and consolidation DRTC annual seminar (18), 1981
6. Saracevic T and woods J.S.: Considaiton of information \" a Handbook of Evaluation restructuring and repackaging of scientific and technical information Paris 1981.
7. Seetharama S.: Information consolidation Actives: Fame work methodology and planning proceeding of regions training course on information consolidation March 14-18 1988 sponsored by UNESCO an DSIR and Hyderabad.

LISc304T Electives / Cafeteria
LISc304A1T Documentation (Theory)
(Credit 4)

No. of Lectures/ Unit
10 **Unit 1.** Information Sources: Definition and Types
20 **Unit 2.** Information Search Pattern
20 **Unit 3.** Information gathering skills, Data collection
15 **Unit 4.** Data Organization with emphasis on end matter of research report
15 **Unit 5.** Bibliography / Reference / Citations / Notes practices

LISc304A1T Documentation (Practical)
(Credit 2)

No. of Lectures/ Unit
30 **Unit 1.** Bibliography
30 **Unit 2.** Reference / Citations

Recommended Books:
1. Parwat, P.P. and Kumar, T. (2002) Encyclopedia Dictionary of Library Science and Information Technology. Crest Publishing House.
2. Perry Beth and Brannon Slan. (2005) . TAIL leadership institute, TX, USA.
3. PleshKevich, E.A. (2004). Mnogoliki yanus documento vedniya (multifaceted face of documentation science). Nauchno-tekhnicteskaya informatisiya.
4. Popov, S.V. (2001). Information retrieval and decision making, navchno-technickesya informatsiys.
5. Seetharama S.: Information consolidation Actives: Fame work methodology and planning proceeding of regions training course on information consolidation March 14-18 1988 sponsored by UNESCO an DSIR and Hyderabad.
6. Neelameghan A and Seetharama s Reference Frame work an aid to information analysis and consolidation DRTC annual seminar (18), 1981
7. Eorko Harold: Abstracting concept and methods New York Medallion Press, 1989

LISc304A2T　　　　　　Archives Management (Theory)
(Credit 4)

No. of Lectures/ Unit

10　Unit 1. Definition, Scope, Nature
10　Unit 2. Evolution of Information materials – Clay tablet to Electronic form
15　**Unit 3.** Methods of Preservation & Conservation Physical Methods
15　**Unit 4.** Preservation of Non-Print Material
20　**Unit 5.** Digital Preservation

LISc304A2T　　　　　Archives Management (Practical)
(Credit 2)

30　**Unit 1.** Preservation of Print Material
30　**Unit 2.** Digital Preservation

Recommended Books:
1. Cox. Rechard J. and Wallace D.A. Archives and the Public Good, Quorum Books, Westport, 2002
2. Cox. Richard J., Managing Institutional Archives Foundations Principles and Practices, GreenWood Press, New York, 1992
3. Schellenberg T.R. The Management of Archives, Columbia University Press, New York, 1985

LISc304A3T　　　　　Information Reading Skills (Theory)
(Credit 4)

No. of Lectures/ Unit

10　**Unit 1.** Definition, How to Read, Kinds of Reading
20　**Unit 2.** Reading Skills and Techniques

20   **Unit 3.** Art of Reading, Selection of Good Books
15   **Unit 4.** Reading habits & Development of reading interest
15   **Unit 5.** Individual differences: Difference in mental ability, 6 differences in

        Reading

LISc304A3T   Information Reading Skills (Practical)
                                                (Credit 2)

60   **Unit 1.** Reading Programs for developing reading skills

Recommended Books:
1. Ahuja G.C and Ahuja P. How to increase Reading Speed Procedures and Practices, Sterling Publisher Pvt. Ltd. New Delhi, 1979
2. Gainsburg Joseph C. Advanced Skills in Reading , Macmillan Company, New York, 1982
3. Spache George D. and Berge Paul C, The Art of Efficient Reading Macmillan Company, New York, 1986.

Fourth Semester

LISc401T   Information Retrieval (Theory)   (Credit 4)

No. of Lectures/ Unit

25   **Unit 1. Cataloguing & Subject Indexing: Principles and Practices**
- Principles of Subject Cataloguing: Assigning Subject Headings, Using Library of Congress Subject Headings and Sear's List etc.
- Models Assigned and Derived
- Pre & Post Coordinate Indexing System and Citation Indexing

25   **Unit 2.   Indexing Language & Vocabulary Control**
- Indexing Language: Type and Characteristics
- Vocabulary Control
- Tools of Vocabulary Control
- Structure and Construction of IR Thesaurus
- Trends in Automatic Indexing

30   **Unit 3. Information Retrieval**
- IR Models, Search Strategies, Manual/Machine, Feedback and Refining
- Evaluation of Information Retrieval System; Project and Parameters
- Trends in IR Models

LISc401P Information Retrieval (Practical)   (Credit 2)
20   **Unit 1.**   Assigned Indexing Practice, Using LCSH & Sear's List
20   **Unit 2.**   Derived Indexing Practice
10   **Unit 3.**   Design and Development of IR Thesaurus
10   **Unit 4.**   Search Methods and Formulation of Search Strategy

Recommended Books:

1. Bhattacharya (G) 1979-POPSI: Its fundamentals and procedure based on a General Theory of subject indexing languages. Lib.Sci.
2. Brown (AG) 1982 – An introduction to subject indexing 2nd Ed Clive Bingley.
3. Craven (TC) 1986- String Indexing Academic Press. San Dingo.
4. Cutter (CA) 1904 – Rules for a dictionary catalogue ed 4.
5. Cerman (M) and Winkler (PW) 1988- AACR 2nd Ed Canadian Library Association Ottawa.
6. Gopinath (MA) 1988-Colon Classification ed 7.
7. Kaisee (J) 1911 –Systematic Indexing.
8. Parthasarathy (VV) –Combination of Quais –Isolates DRTC, Annual Seminar.
9. Ramsden (M) 1981 – PRECTS Work Book for students for Librarianship
10. Ranganathan (CR) 1964- COC, with Additional Rules for Dictionary Code ed 5.
11. 1965- Prolegomena to Library Classification Asia Publishing House, Bombay.
12. 1964 – Colon Classification : Basic Classification ed.6
13. Austin (D) 1984 –PRECIS : A Manual of Concept Analysis and subject indexing.
14. UDC. British Standard institution Part I and II.
15. Wellisch (HH) ed 1977 – The PRECIS index system, principles applications and prospects.
16. Wilson (TD) 1971 – An introduction to chain indexing, Clive Bingley.
17. Borko :Indexing Methods
18. Fosket D.J. : Subject Approach to Information.
19. Prasher : Index & Indexing Systems.

LISc402T Project Work (Credit 4)

Project Work on Approved topic

LISc402P Seminar on project work (Credit 2)

LISc403T Core Electives
LISc403A1T Marketing of Libraries & Information Centres (Theory) (Credit 4)

No. of Lectures/ Unit

10 **Unit 1.** Marketing
Concept, Definition, Purpose of marketing in LIS, Characteristics of Non- Profit Organizations, Marketing problems, benefits, services, etc.

10 **Unit 2.** Corporate Mission, Meeting Customer needs

10	**Unit 3.**	Marketing Strategies for LIS
10	**Unit 4.**	Marketing Mix
10	**Unit 5.**	Market Segmentation
10	**Unit 6.**	Marketing in digital age, Electronic content creation
10	**Unit 7.**	Marketing Research & Market Research
05	**Unit 8.**	Corporate Identity & Corporate Image
05	**Unit 9.**	Marketing Plan

LISc403A1P   Marketing of Libraries & Information Centres (Practical)   (Credit 2)

10	**Unit 1.**	Product development
10	**Unit 2.**	Promoting Product
15	**Unit 3.**	Segmenting Market
15	**Unit 4.**	Market Research
10	**Unit 5.**	Web Market Research

Recommended Books:

1. Corrall, S., & Brewerton, A. (1999). *The new professional's handbook: Your guide to information services management*. London: Library Association.
2. De Aze, E. E. (2002). Marketing concepts for libraries and information services. London: Library
3. Association. <http://www.envisionit.com.au/Docs/gandhi.htm>, Accessed on: 4-12-2006.
4. Kotler, P. (1983). *Marketing for non-profit organizations*. 2nd ed, New Delhi: Prentice – Hall of India.
5. Kotler, P. (1999). *Marketing management: Analysis, planning, implementation, and control*. 8th ed.,London: Prentice Hall.
6. Kemp. D.A. (1976). *The nature of knowledge: An introduction for librarians*. London: Clive Bingley.
7. Luck, D.J., et al. (1981). *Marketing research*. Prentice Hall of India, New Delhi.
8. Lemkan, H. L., Burrows, S., & LaAugust, R. (1985). Marketing information services outside the medical
9. center, In: M. Sandra Wood, ed. *Cost analysis cost recovery marketing and fee-based services*. New York Haworth: 143-157.
10. Narayan, G.J. (1991). *Library and information management*. New Delhi: Prentice Hall.
11. Raina, R. (1998). Information marketing. *DESIDOC Bulletin of Information Technology 18*:3 pp. 3-5.
12. Rowley, J. (2001). *Information marketing*. Aldershot: Ashgate.
13. Seetharama, S. (1998). *Libraries and information centers as profit making institutions*. New Delhi: Ess Publishers.
14. Vishwa Mohan, V., Shrinivas, V., & Shashikala, E. (1996). Information marketing. In: H.S. Chopra, ed

LISc403A2T   Rural and Community Information Systems (Theory)   (Credit 4)

No. of Lectures/ Unit

10   **Unit 1.** Community Information
          Concept, Definition, Areas, Functions, Need, Architecture

10   **Unit 2.** Community Education
          Information Literacy, Indian Intiatives—Gyan Vahini, Akshya, Gyandoot, Setu, e-Seva, Bhoomi, etc.

20   **Unit 3.** Information needs of Rural/ Urban community

20   **Unit 4.** Areas of Community Information Services

- Health
- Education
- Employment
- Agriculture
- Village Industries
- Utilisation of Local Resources
- Transport
- Daily necessities
- Sources of Finance
- Redressal of grieveances of villagers
- Govt. Welfare Schemes
- Consumer Services
- Housing etc.

20   **Unit 5.** Role of IT in Providing Community Information

LISc403A2P   Rural and Community Information Systems (Practical)   (Credit 2)

60 **Unit 1.** Designing Web enhanced Community Information System

Recommended Books:

1. Joan Begg, Margaret Mylrea,(1982) LOCOM community information system: guidelines for collecting, processing and retrieving information in a community information service. Part 1. Manual
2. HAROLD D. (2008) RISK MANAGEMENT AND INSURANCE: PERSPECTIVES IN A GLOBAL ECONOMY
3. Narayan Singh Rao (2002) Rural Economy and Society - Study of South-Eastern Rajasthan During the Eighteenth Century
4. M.Koteswara Rao (2000) Rural Employment - The Non-Farm Sector
5. G.B.Kashyap & J.P.Garg (Eds.) (2008) Rural India - Vision and Action (Vol.22) : Trade and Commerce
6. Labour Bureau, Ministry of Labour, Govt. of India (2005) Rural Labour Enquiry - Report on Consumption Expenditure of Rural Labour Households 1999-2000 (55th Round of NSS)
7. Buse. R.C. and James. D.L. , Rural Information Systems, Iowa State University Press, 1992

8. Rowley Thomas D. Rural Development Research : A foundation for Policy Greenwood Publishing Group, 1996

LISc403A3T   Health Information System (Theory)
(Credit 4)

No. of Lectures/ Unit
10   **Unit 1.** Concept, Definition
15   **Unit 2.** Planning of Information System
15   **Unit 3.** International and National Systems.
20   **Unit 4.** Database Design: Creation & Development
20   **Unit 5.** Evaluation of Information System

LISc403A3P   Health Information System (Theory)
(Credit 2)

60   **Unit 1.** Creation and Development of Database

Recommended Books:

1. Central Bureau of Health, Ministry of Health & Family Welfare, Govt. of India (2006) HEALTH Information of India 2005
2. Ajay Mahal, Bibek Debroy (2010) India Health Report 2010
3. Joseph Tan, (2005) E-Health Care Information Systems: An Introduction for Students and Professionals
4. Sue Bowman (Sue Prophet) RHIA, (2007) Health Information Management Compliance: Guidelines for Preventing Fraud and Abuse, 4th Edition

LISc404T Electives / Cafeteria
LISc404A1T   Web Page Design (Theory)
(Credit 4)

No. of Lectures/ Unit
15   **Unit 1.** Internet concepts – Origin, Developments, Features of Internet, Network Protocols, Types of Websites.
15   **Unit 2.** Discovery phase: Goals, Project Plan, Technical Brief of the Website
15   **Unit 3.** Definition of Structure: Content outline & Screen view etc.
15   **Unit 4.** Prototype: Review of Technical Goals. Templates - HTML & Frontpage
20   **Unit 5.** Building and Hosting the Website

LISc404A1P   Web Page Design (Practical)
(Credit 2)

No. of Lectures/ Unit
40   **Unit 1.** Design & creation of Webpages
20   **Unit 2.** Hosting the Website

Recommended Books:

1. Louis Rosenfeld and Peter Morville ( ). Information Architecture for the World Wide Web.
2. Jennifer Niederst Robbins Web Design in a Nutshell U.K.
3. Ann Navarro (Feb 1998) *Effective Web Design*
4. William Tait & Stephen W. Sagman (1997) *Official Microsoft Image Composer Book: An Example Packed Guide to Designing and Enhancing Graphics Using Microsoft Image Composer 1.5*
5. Joe Farace (1998) *Plug-in Smart: How to Choose and Use Photoshop Plug-ins*
6. Daniel Donnelly (1998) *Cutting Edge Web Design: The Next Generation*
7. Talitha Harper & Sara Booth (Eds.) (1997) *Step-by-Step Electronic Design Techniques*

LISc404A2T   Intellectual Property Rights (Theory)
(Credit 4)

No. of Lectures/ Unit
10   **Unit 1.** Definition, Nature & Scope
25   **Unit 2.** Patent Information
25   **Unit 3.** Right to Information
20   **Unit 4.** Copyright Act

LISc404A2P   Intellectual Property Rights (Theory)
(Credit 2)

No. of Lectures/ Unit
20   **Unit 1.** Product Patent
20   **Unit 2.** Procedure Patent
20   **Unit 3.** Maintenance of records as per Right to Information Act

Recommended Books:
1. S V Satarkar ( ) Intellectual Property Rights & Copyright.
2. Maskus, Keith E. (2000). Intellectual property rights in the global economy
3. Ganguli, Prabuddha (2001). Intellectual property rights : unleashing the knowledge economy Tata McGraw-Hill Publishing 2001 485
4. Halpern, Sheldon; Shipley, David E. B. & Abrams, Howard (1992). Copyright : cases and materials West Publishing, Minn.
5. Libecap, Gary D. (1993). Contracting for property rights Cambridge University Press.
6. Narayan, P.S. (2001). Intellectual property law in India Gogia Law Agency, Hyderab.

LISc404A3T   Thesaurus Construction (Theory)
(Credit 4)

No. of Lectures/ Unit
05   **Unit 1.** Definition, Purpose, History
05   **Unit 2.** Thesaurus and other Vocabulary Control devices
15   **Unit 3.** Thesaurus construction methodologies, Thesauri relationships, Display methods
10   **Unit 4.** Selection of Subject, Study of Subject
15   **Unit 5.** Construction of Subject thesaurus, Testing of thesaurus

LISc404A3P   Thesaurus Construction (Practical)
(Credit 2)
60   **Unit 1.** Construction of any Individual subject thesaurus

Recommended Books:
1. Krooks, D.A. and Lancaster, F.W. (1993) The evolution of guideline for thesaurus contraction Libr.
2. Lancaster, F.W. (1985) Thesaurus construction and use a condsed course Paris UNESCO
3. Lancaster F.W. (1972) Vocabulary control for information retrieval Washington information Resources Press.
4. Miller U. (2001) Thesaurus construction, problem and their.
5. Lu, X. (1990) Document retrieval in structural approach information processing and management.
6. Parekh, Harsha 1975 the UNESCO IBE education seminar Bangalore DRTC Bangalore
7. Pettee, J. (1946) subject headings New York: H.W. Wilson co.