

**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 semester associated with the course. The second two digits provide the number of the course in the particular semester. T in front of the number means theory course and P means Practical course. 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 32 credits in III & IV semester, they are required to complete 120 credits up to Fourth Semester.

The Electives/Cafeteria Courses are designed in view to opt by the students of any other Courses run by the University Departments. The credits are transferable.

[II] Course Schedule:**First Semester**

| Course Code | Course Name | | Credit | No. of Hrs./ Week | Internal | External | Total Marks |
|----------------------|------------------------------------|---|--------|-------------------|----------|----------|-------------|
| LISc0101T | Constitution of India | F | 2 | 2 | 10 | 40 | 50 |
| LISc102T | Foundations of Information Science | F | 4 | 4 | 20 | 80 | 100 |
| LISc102P | Practical based on LISc102T | F | 2 | 4 | - | 50 | 50 |
| LISc103T | Knowledge Organization | C | 4 | 4 | 20 | 80 | 100 |
| LISc103P | Practical based on LISc103T | C | 4 | 4 | 20 | 80 | 100 |
| LISc104T | Information Sources & Services | C | 4 | 4 | 20 | 80 | 100 |
| LISc104P | Practical based on LISc104T | C | 4 | 4 | 20 | 80 | 100 |
| LISc105T | Research Methodology- I | C | 4 | 4 | 20 | 80 | 100 |
| Total No. of Credits | | | 28 | - | - | - | 700 |

C: Core, F: Foundation and E: Electives

Second Semester

| Course Code | Course Name | | Credit | No. of Hrs./ Week | Internal | External | Total Marks |
|----------------------|---|---|--------|-------------------|----------|----------|-------------|
| LISc201T | Research Project Review Writing | F | 1 | 1 | 10 | 40 | 50 |
| LISc202T | Management of Libraries & Information Centres/ Institutions | F | 3 | 3 | 20 | 80 | 100 |
| LISc203T | Information Processing | C | 4 | 4 | 20 | 80 | 100 |
| LISc203P | Practical based on LISc203T | C | 4 | 4 | 20 | 80 | 100 |
| LISc204T | Information Technology- Basics | C | 4 | 4 | 20 | 80 | 100 |
| LISc204P | Practical based on LISc204T | C | 4 | 4 | 20 | 80 | 100 |
| LISc205T | Electives/ Cafeteria | E | 4 | 4 | 20 | 80 | 100 |
| | 204A1T: Electronic Information Sources | | | | | | |
| | 204A2T: Technical Writing | | | | | | |
| | 204A3T: Electronic Publishing | | | | | | |
| LISc205P | Practical based on LISc45205T | E | 2 | 2 | 10 | 40 | 50 |
| Total No. of Credits | | | 28 | - | - | - | 700 |

Third Semester

| Course Code | Course Name | | Credit | No. of Hrs./ Week | Internal | External | Total Marks |
|----------------------|---|---|--------|-------------------|----------|----------|-------------|
| LISc301T | Research Methodology & Statistical Techniques | F | 3 | 3 | 20 | 80 | 100 |
| LISc302T | Information Technology- Applications | C | 4 | 4 | 20 | 80 | 100 |
| LISc302P | Practical based on LISc302T | C | 4 | 4 | 20 | 80 | 100 |
| LISc303T | Information Analysis, Repackaging & Consolidation | C | 3 | 4 | 20 | 80 | 100 |
| LISc303P | Practical based on LISc303T | C | 2 | 4 | 10 | 40 | 50 |
| LISc304T | Project / Dissertation Part 1 | C | 12 | 24 | 100 | 200 | 300 |
| LISc305T | Service Course | E | 4 | 4 | 20 | 80 | 100 |
| | 305A1T: Documentation | | | | | | |
| Total No. of Credits | | | 32 | - | - | - | 850 |

- The student should opt service course of 4 credits either from parent department or from other department.

Fourth Semester

| Course Code | Course Name | | Credit | No. of Hrs./ Week | Internal | External | Total Marks |
|----------------------|--|----|--------|-------------------|----------|----------|-------------|
| LISc401T | Information Retrieval | C | 4 | 4 | 20 | 80 | 100 |
| LISc401P | Practical based on LISc401T | C | 4 | 4 | 20 | 80 | 100 |
| LISc402T | Project Work/ Dissertation Part 2 | C | 12 | 24 | 100 | 200 | 300 |
| LISc402P | Seminar | C | 2 | 4 | 10 | 40 | 50 |
| LISc403T | Core Electives | CE | 4 | 4 | 20 | 80 | 100 |
| | 403A1T: Marketing of Libraries & Information Centres | | | | | | |
| | 403A2T: Rural and Community Information Systems | | | | | | |
| | 45403A3T: Health Information Systems | | | | | | |
| LISc403P | Practical based on LISc403T | CE | 2 | 4 | 10 | 40 | 50 |
| LISc404T | Electives/ Cafeteria | E | 4 | 4 | 20 | 80 | 100 |
| | 404A1T: Web Page Design | | | | | | |
| | 404A2T: Intellectual Property Rights | | | | | | |
| | 404A3T: Thesaurus Construction | | | | | | |
| LISc404P | Practical based on LISc404T | E | 2 | 4 | 10 | 40 | 50 |
| Total No. of Credits | | | 32 | - | - | - | 850 |

Total (I+II+III+IV) Semester (28+28+32+32) credits = 120

[III] Syllabus

First Semester

LISc101T Constitution of India (Theory)

(Credit 2)

LISc102T Foundations of Information Science (Theory) (Credit 4)

No. of Lectures/ Unit

08 **Unit 1. Information and Communication**

- Information, Characteristics, Nature, Value and Use of Information
- Conceptual difference between Data, Information and Knowledge
- Communication of Information: Information generation
- Trends in Scientific Communication

09 **Unit 2. Information Science**

- Definition, Scope and Objectives
- Information Science as a discipline and its relationship with other subjects

12 **Unit 3. Library, Information and Society**

- Genesis, Characteristics and implications of Information Society
- Changing role of Library and Information Centres in Society
- Information Industry Generations, Providers & Intermediaries
- Intellectual Property Act Right to Information Acts
- Concept of Freedom, Censorship, Data Security and Fair Use
- Policies relating to Information, Right to Information including Sciences and Technology, Education.
- International and National Programmes & Policies (NAPLIS), IT & Library, UAP, UBC.

08 **Unit 4. Library as Social Institution**

- Social and historical foundations of Library
- Different types of Libraries – their distinguishing features and functions
- Role of Library in formal and informal education

08 **Unit 5. Normative Principles of Library & Information Science**

- Five laws of Library Science
- Implications of Five laws in Library and Information activities

08 **Unit 6. Library Development**

- Development of Libraries with special reference to India
- Resource sharing and Library Networking

08 **Unit 7. Laws relating to Libraries & Information**

- Library Legislation need and essential features
- Library Legislation in India
- Press and Registration Act and Delivery of Books (Public Library) Act
- Copy Right Act

- 08 **Unit 8. Library & Information Profession**
- Attribution of profession
 - Librarianship as a profession
 - Professional ethics
 - Professional associations and their role
 - National and International Library Associations
 - Professional Education and Research
- 08 **Unit 9. Promoters of Library and Information Services**
- National level promoters --- RRRLF
 - International level promoters --- UNESCO
- 08 **Unit 10. Public relations and Extension activities**
- Definition
 - Facets and Programs
 - Publicity and Extension, Out reach activities
 - Library Path Finders (Guides)
 - Consultancy including promotional Web Tools

**LISc102P Foundations of Information Science
(Practical) (Credit 2)**

60 Practical based on LISc102T

Recommended Books :

1. White C.M. Bases of Modern Librarianship New York Pergmaon Press 1964
2. Maccolvin in L.R. Public Library extension Paris UNESCO 1851
3. Ranganathan S.R. Five Laws of Library Science 2 Madras Library Association, 1957
4. Indian Libraries (Advisory Committee For) Repoft Delhi, Manager of Publication, 1969
5. Ranganathan S.R. ed Free book services for all International Survey Bombay Asis 1969
6. Thomson C. etc. Adult education activities for public Libraries UNESCO 1950.
7. Bengé R.C. Libraries and cultural change, Lindon, Clive Bingley 1970.
8. Shera J.H. – Sociological foundation of Librarianship Bombay, Asia 1970.
9. Jefferson G. –Library Co-operation, London andre Deutch, 1966
10. Kent A. & Calvin J.J. Library its origin Resources Sharing New York Marcel Dekker, 1977
11. Morrison W.J> -Public Library: its origin purpose and significance ed-3, London clive Bingley, 1988
12. Kaule P.N. –National Library in India: a cultural study, Bombay Somajya. 1971.
13. Thompson J. Introduction to University Library Administration London Clive bingley 1971
14. Chadler G. Libraries in the modern world, Oxford, pergamon, 1965
15. Mukharjee A.K. – Librarianship: its philosophy & history, Bombay Asia Publication.
16. Gardner, Frank K. –Public Library, Legislation: A comparative Study, Paris UNESCO, 1971
17. Atherton, Pauline A. Putting Knowledge to work Delhi, Vikas Publishing House, 1973

- 18 Luckman, Bryan – The Library In society, London Library Association 1971
19. Thomson, James – A history of the principles of Librarianship, London, Clive bingley 1977
20. Thomson James- Library Power: A new Philosophy of Librarianship, Lodon Clive, Bingley.
- 21 Jefferson G. –Library & society, London James Clerk & Co. 1969
22. Venkattapai – Model Library legislation in India, New Delhi, Concept 1974
23. Sharma S. K. – public Libraries in India, New Delhi, Ess. Ess. 1985
24. Raut- Library Legislation in India, New Delhi, Reliance publishing House 1971
25. Shrivastav S. N. & Varma S. C. – University Libraries in India their Organization & administrarion, New Delhi Sterling 1980.
- 26 Ashworth W, Ed – Hand Book of Special Librarianship & Information worked 2, London Aslib 1962
27. Buch, Alien-Basics of Information work, London, Clive Bingley 1984
28. Harrison, Colin & Bannham Rosemary- Basics of Librarianship, London Clive Bingley 1987
29. Khanna J. K. – Library & Society: Kurkshetra Research Publications 1987
30. Venkutappaih, V. – India Library Legislation, Vol.1&2 Delhi Laya Publishing 1990
31. Wilson E.R. & Tauber M.F. – University Library ed2, New York, Columbia University Press, 1956.
32. Ranganathan S.r. – Library Administration ed 2, Bombay, Vikas, 1959
33. Urwick L. Elements of Administrartion ed. 2 London, Pitman 1947
34. Kent Allen: Library Resources sharing New York Marcel Dekker 1977
35. Gupta P.K. and Pawan, Usha: Library & Information Science current Trends in India, Jaipur R.B.S.A. Publishers 1986
36. IFLA Resource sharing of Libraries in developing countries Paris IFLA1977.

LISc103T Knowledge Organization (Theory) (Credit 4)

No. of Lectures/ Unit

- 15 **Unit 1. Universe of Knowledge**
- Structure and attributes
 - Modes of formation of subjects
 - Different types of subjects
 - Universe of subjects as mapped in different schemes of classification
- 30 **Unit 2. Methods of Knowledge Organization**
- General theory of Library Classification
 - Normative Principles of Classification and their application
 - Species of Library Classification
 - Standard schemes of Classification and their features, CC, DDC & UDC
 - Design and Development of schemes of Library Classification
 - Trends in Library Classification

LISC103P Knowledge Organization (Practical) (Credit 4)

- 35 **Unit 1. Classification of Documents (Using DDC – latest editions)**

- Classification of documents representing simple subjects
- Classification of documents having common isolates
- Classification of documents representing compound subjects
- Classification of documents representing complex subjects

35 **Unit 2. Classification of Documents (Using CC – latest editions)**

- Classification of documents representing simple subjects
- Classification of documents having common isolates
- Classification of documents representing compound subjects
- Classification of documents representing complex subjects

10 **Unit 3. Assignment of Book Number**

- Using at least one standard Book Numbering system

Recommended Books:

1. Needham C.D. Organizing Knowledge in Libraries: An introduction to classification & catalogue ED. 2, London, Andre Deutsch 1971.
2. Philops W.H. –Primer of book classification Ed. 5, London Association of Assistant Librarians 1961.
3. Ranganathan S.R.-Elements of Library classification Ed.3 Bombay Asia Polishing House 1962
4. Ranganathan S.R. –Colon classification (latest edition) Bombay Asia Publishing House 1976
5. Melvil Dewey – Decimal classification ed 3, New Delhi, Vikas publishing House 1960
6. Krishnakumar – Theory of Classification ed. 3, New Delhi Vikas, publishing House 1979
7. Mills J. – Modern outline of Library classification, London chapmen and Half 1960.
8. Ranganathan S.R. – Prolegomena to Library classification Ed. 3, Bombay Asia 1967.
9. Berwick Sayers – WCB Manual of classification for Libraries Rev. by Arthur mail ed 5, London Andre Deutsch 1975
10. Parkhi R.S. Decimal classification & colon classification to perspective Bombay Asia 1967.
11. Sayers W.C.B. – Introduction to Library classification Ed.9, London, Gratton 1952
12. Ranganathan S.R. –Descriptive account of the colon classification Bombay Asia 1967.
13. Berwick Sayers W.C. – Introducton to Library classification, London Andre Dutch 1950.
14. Buchanan, Brian – Theory of Library classification, London Clive Bingley, 1970.
15. Foskett, A.C. – the subject approach to information 4 th Ed. London, Clive Bingley, 1982.
16. Akers S.G. – Simple Library Cataloguing Ed. 5, Metuchen N.J. Searecow 1969.
17. Wymar B.S. – Introduction to cataloguing and classification ed 7, New York Libraries unlimited 1985
18. Bolly J.J. –Introduction to cataloguing 2 v, New York, McGraw Hill 1974
19. Shera J.H. & Egan M.E. – classified cataloguing Basic Principles and practices, Chicago ALA 1956

20. Jolly L. – Principles of cataloguing London, Crosby Bockwood 1950
21. Sharp H.A. – Cataloguing : A textbook for use in Libraries ed 5, London Grafton 1964
22. Mann, Margaret- Introduction to cataloguing and the classification of books Ed. 2, Chicago ALA 1943
23. Needham C.D. –Organizing knowledge in Libraries: An introduction to information retrieval ed, 2 London Andredeutsch 1971
24. American Library Association etc – Anglo American Cataloguing Reles, Ed. 2, London Library Association 1978
25. Girija Kumar and Krishna Kumar- Theory of Cataloguing Ed.5 Delhi Vikas 1986
26. Westby B.M. ed – sears list of subjects Headlines ed 12, New York Wilson 1982.
27. Ranganathan S.R. –Classified catalogue code with additional rules for dictionary catalogue code ed 5, (With amendments) Bombay Asis 1964.
28. Escreat P.K. –Introduction to the Anglo American Cataloguing rules London Andre Deutsch 1971
29. Jolly B. –Principles of cataloguing, London Crosby Lockood 1960
30. Horner John –Cataloguing London 1970
31. Vishwanathan C.G. –Cataloguing: Theory and practice ed 5, Lucknow, Print House 1987
32. Hunter E.J. & Bakewell-Cataloguing: ed 2 London, Clive Bingley 1983
33. Bakewel K.G.B. – Manual of Cataloguing ed practice, Oxford, Pergamon Press 1972.
34. Ranganathan S.R.- Cataloguing, practice assisted by g. Bhattacharya ed. 2, Bombay Asia publishing House, 1974.
35. Library of congress list of subject Headings (I atest ed)
36. Sears list of subject Headings (Latest ed.)

LISc104T Information Sources and Services (Theory) **(Credit 4)**

No. of Lectures/ Unit

- 20 **Unit 1. Reference and Information Sources**
- Documentary Sources of Information, Print and Non-print including electronic
 - Nature, Characteristics, Utility and evaluation of different types of Information Sources
 - Non-documentary Information Sources
 - Human and Institutional, Nature, types, characteristics and Utility
 - Categories: Primary, Secondary and Tertiary Information Sources
 - Internet as a source of Information
- 05 **Unit 2. Reference Service**
- Concept, Definition and trends
 - Reference interview and Search technique
- 05 **Unit 3. Information Users and their Information Needs**
- Categories of Information Users
 - Information Needs, Definition and Models
 - Information Seeking Behaviour
 - User Studies: Methods, Techniques and evaluation
- 05 **Unit 4. Information Services and Products**
- Information services and products
 - Information services: concepts, definitions, need and trends
 - Need, techniques and evaluation of Alerting services (CAS & SDI)
 - Bibliographic, Referral, Document Delivery & Translation Services
- 10 **Unit 5. Information Systems and their Services**
- Study of National, International and Commercial Information Systems and Services – Background, their services and products
- 05 **Unit 6. User Education**
- Goals and objectives, level, techniques and methods
 - Evaluation of users education programmes / user studies

LISc104P Information Sources and Services (Practical) **(Credit 4)**

- 30 **Unit 1.** Study and evaluation of Information Sources
- 30 **Unit 2.** Compilation of Current Awareness List / Bibliography / Content List / Press Clippings
- 20 **Unit 3.** Survey of User groups

Recommended Books:

1. Chemey F.N. and Williams W.J. – Fundamental Reference Sources ed 2, Chicago ALA 1980
2. Walford A.J. –Guide to reference books ed 4, 3v, London Library Association, 1980
3. Katz W.A. –Introduction to reference work v1 Basic work McGraw Hill, 1987
4. Galine S. and Spielberg P. –Reference books How to select and use them, New York Random House 1969

5. winchell C.M> - Guide to Reference Books, Chicago ALA 1967
6. Collision R.L. –Library Assistance to Readers ed 4, London Lockwood 1965.
7. Doyle J.M. & Girmes G.R – Reference Resources : a Systematic approach Metuchen Scarecrow Press 1976
8. Sharma J.S. & Grover D.R. –References Services & Sources of Information New Delhi ESS 1987
9. Sheely E.P. –Guide to Reference Books 9th ed Chicago ALA 1976.
- 10.Chandler (G)-How to find of guide to sources of Information for all Ed 4 Oxford 1974
- 11.Coblans H. –Librarianship and Documentation : An International perspective Andrew Deutech 1974
- 12.Guha B. – Documentation and information services : Techniques and systems Rev. Ed 2, Calcutta World Press 1983
- 13.Mukherjee A.K. –Reference work and its tools Ed. 3 Calcutta World Press 1975
- 14.Girijakumar & Krishna Kumar-Philosophy of user education New Delhi Vikas, New York.
- 15.Ranganathan S.R. –Reference Services 2nd Bombay, Asia 1961
- 16.Mukherji A. K. –Refernce Services 2nd Ed. Bombay Asis 1961
- 17.Narayana-Information Management
- 18.Young J.F. –Information Theory Founder Butterworth 1971
- 19.Vickery B.C. –Technique of Information Retrieval London Butterworths, 1970
- 20.Kent Allen –Information Analysis and Retrieval, New York Becker & Hayes 1971
- 21.Hutichins M. –Introduction to Reference work, Chicago, ALA 1944
- 22.Foskett D.J. – Information service in Libraries 2nd ed London Crosby Lockwood 1961
- 23.Bose H. – Information Science, Principle & Practice, New Delhi Sterling 1976
- 24.Guha B. –Informaiton Services, Calcutta, World Press, 1983
- 25.Borko Harold-Abstracting Concept & Methods, New York Academic Press 1975.-
- 26.Prasher-Index & Indexing System, New Delhi, Medallion Press 1989
- 27.Vickery B.C.-Classification & Indexing In Since ed, 3 London Butterworths 1975
- 28.Fiallbrant N. & Stevenson M. – User Education in Libraries London Clive, Bingely 1978
- 29.29 Sehegod R.L. –User Education in Computer Based Libraries, New Delhi, ESS, 1998

LISc105T Research Methodology -1 (Theory) (Credit 4)
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

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

- Management styles and approaches
- Management schools of thought
- Functions and principles of Scientific Management

08 **Unit 2. Human Resource Management**

- Organization structure
- Delegation, Communication and participation
- Job description and Analysis of Job Evaluation
- Inter-personal relations
- Recruitment procedures
- Motivation, Group Dynamics
- Training and Development
- Disciplines and Grievances
- Performance Appraisal

08 **Unit 3. Financial Management**

- Resource mobilization
- Budgeting techniques and methods PPBS, ZBB etc.
- Budgetary control
- Cost effectiveness and Cost benefit analysis
- Economics of Information
- Outsourcing

04 **Unit 4. Reporting**

- Types of report, Annual report – computation, contents and style
- Library Statistics etc.

15 **Unit 5. System Analysis and Design**

- Library as a system
- Project Management, PERT/CPM
- Decision Tables
- Performance evaluation standards, MIS
- Performance measurements, Reengineering, Time & Motion study
- SWOT (Strength Weakness Opportunity and Threat)
- DFD (Data Flow Diagram)

04 **Unit 6. Total Quality Management (TQM)**

- Definition, Concept and Element
- Quality Audit, LIS related Standards

15 **Unit 7. Library House Keeping Operations**

- Different sections of Library and Information Center and their functions
- Collection Development and Management Policies, Procedures
- Book ordering (Acquisition)
- Technical Processing
- Serials control, Circulation control, Maintenance etc.
- Stock verification policies and procedures
- Evaluation and Weeding
- Archiving – conservation & Preservation
- Restoration including print, non-print and electronic materials

- 05 **Unit 8. Planning**
- Concept, Definition, Need, Purpose and types
 - Policies and Procedure, MBO
 - Building and Space Management in Libraries and Information Centers
 - Risk Management, Contingency Management
 - Planning of related Infrastructure, Library standards
- 08 **Unit 9. Management of Change**
- Concept of change
 - Changes in procedures, methods, tools and techniques
 - Problems of Incorporating change
 - Techniques of managing change
- 05 **Unit 10. Knowledge Management**
- Definition
 - Scope, Types and other features

**LISc202P Management of Library and Information Centres /
 Institutions (Practical) (Credit 2)**

60 Practical based on LISc45202T

Recommended Books:

1. Allen T.J. and Cohen S.I. 1966-Information flow in and R.&D. Laboratory.
2. Atherton P. 1977 Handbook for Information System and Services UNESCO, Paris
3. Bhattacharya G.B. –Collection Development and Document Circulation, Inaugural Address, DRTC, annual Seminar (18)
4. 1981 – Information Analysis for Consolidation : some Basic Consideration DRTC Annual Seminar (18)
5. Dought R.M. 1982 –Scientific Management of Library Operations. The Scarecrow Press, London
6. Evans E.G. 1976 2nd ed-Management Techniques for Librarians.
7. Foskett T.J. 1984 –Pathways for Communication :Books and Libraries in Information Age London Bingley.
8. Gopinath M.A. 1982 –Financial Norms for Collection Development in Libraries, DRTC, Annual Seminar (19)
9. Ravichandra Rao (I.K.) 1982 Collection Development and usage : An analytical Approach DRTC Annual Seminar (19)
10. Hamburg M. 1974 – Library Planning and Decision Making System.
11. Hartman W. et al 1972 –Management Information systems Handbook McGraw Hill Book Co.
12. Harvey J.M. 1976 – Specialist Information Centers Clive Bingle, London.
13. Kotler H. – Marketing 7, McGraw Hill International Book Company Tokyo, Japan.
14. Kotler P. 1982 –Marketing for non profit organizations ed 2, Engle wood Cliffs N.J. Prentice Hall.
15. Narayna G.J. –Managing Libraries & Information Centers In India.
16. Jones K. 1984- Conflict and Change in Library Organization Clive Bindley, London.

17. Lancaster F.W. 1978- Guidelines for the evolution of Information systems and service UNESCO Paris.
18. 1977 – The measurement and evolution of Library services Information resources Press. Washington.
19. 1979 – Information Retrieval systems: Characteristics testing and evolution ed.2
20. Kaula P.N. –Planning and Desing. Vikas Publicaiton, New Delhi.
21. McKee (BOB) 1990 –Planning Library Services. Clive Bingley London.
22. Neelameghan (A) 1974- Information Service for Business and Industry DRTC course Material.
23. 1975 – Presentaito of Ideas in Technical Writing ed. 1.
24. Neclameghan (A) and Seetharama (S) 1981 – Reference Frame Work. An Aid to Information Analysis and Consolidation. DRTC Annual Seminar.
25. Wheeler J.R. & Goldhor H. – Practical Administration of Public Libraries, New York Harper 1962.
26. Stone, Establish, Training for the improvement of Library Administration Urbana of Illinois 1962.
27. Thompson Jmaes - Introduction to University Library Administration ed 3, London Clive Bingley 1979
28. Lock R.N. – Library Administration ed 3, New York, Philosophical Library 1973.
29. Metcalf K.D. – Planning Academic and Research Library Building, New York, Wilson 1974.
30. Lyle G.R. –Administration of the College Library, ed 4, New York Wilson 1974.
31. Brown R. – Public Library Administration, London Clive Bingley 1979.
32. Chakrabarti A.R. – Treatise on book selection Delhi D.K. Publications 1983.
33. Davinson D.E. – Periodicals 1983, Manual of practice for libraries, London Crafton & Com 1960
34. Ellsworth R.E. – Planning Manual for Academic Library Building, Metuchen, Scarecrow 1973.
35. Krishnan Kumar – Library Administration and Management Delhi, Vikas 1987.
36. Mayes Paul ed- Periodical Administration in Library London Clive bingley 1978
37. Orr J.M. – Designing Library Building for Activity, London Andre Dentach 1972
38. Spiller David, - Book Selection ed 2, London Clive Bingley 1974
39. Davar R. B. Management Process Bombay Progressive Corporation 1 1978
40. Evans G. Edward –Management Techniques for Librarians ed, 2, New York Academic Press, 1983.
41. Stuart R.D. & Moran B.B. – Library Management ed 3, Colorado, Libraries Unlimited 1987
42. Narayan =Information Management, New Delhi Prentice hall, 1991
43. S Seetharama – Guidelines of Planning & Management of Libraries & Information Centers, IASLIC 1990
44. Mittal R.L. – Library Administraiton Theory & Practice New Delhi, Metropolitan 1983
45. Job M.M. – theory of book selection, New Delhi Sterling 1978.
46. Mukherjee A.K. – Book Selection : Principles practice & Tools Calcutta World Press, 1974
47. Hicks & tilling – Developing Multimedia Library, New York, R R. Bokewar 1970

48. Davinson D.V. – The periodicals collection, its purpose & uses in Libraries, London Andre Deutsch, 1970.
49. Rangnathan S.R. – Library book Selection ed 2 Bombay Asis 1956.
50. Godden J.P. ed – Library technical services New York, Academic Press 1984
51. Godfray Thompson – Panning & designing of Library Building, London Architectural Press, 1973
52. Sharma H.D. – Library Building & Furniture, Varanasi, Indian Bibliographic center 1972.
53. Cowely – Personnel Management in Libraries London, Clive Bingley.
54. I.K. Ravichandrarao & M.A. Gopinath ed- Collection Development & Document circulation DRTC, Annual Seminar, 1982.
55. Singh M. _ Library & Information Management, Theory & Practice.
56. Fitzgerald : System Analysis & Desing.
57. Awad E.M. : system Analysis & Design New Delhi, galgotia 1999.
58. Mittal : Total Quality Management
59. Underwood P.G. : Managing change in Libraries & Information Services a systems approach London, Clive Bingley, 1990
60. Arara K.C. : Total quality Management & is 14000 (is – 13967) Delhi S.K. Kataria & Sons 1998.
61. Wilson E.R. & Tauber M.F. –University Library ed 2, New York Columbia University Press 1956.
62. Ranganathan S. R. –Library Administration ed 2, Bombay, Vikas 1959
63. Urwick L. – Elements of Administration ed 2, London Pitman 1947, Reference
64. Evans G. Edward-Management Techniques for Librarians, New York Academic Press, 1983
65. Stueart R.D. and Moran B.B. – Library Managemnet ed 3, Colorado, Libraries Unlimited 1987.
66. Lancaster A.F.W. –No you want to evaluate your Library, 1982.
67. Shimman Rosse, Reader In Library Management, London Clive Bingley 1976

**LISc203T Information Processing (Theory)
(Credit 4)**

No. of Lectures/ Unit

- | | | |
|----|--|---|
| 15 | Unit 1. Bibliographic Description | |
| | <ul style="list-style-type: none"> • Catalogue purpose, structure and types • Physical forms including OPAC and filling rules • Normative Principles of Cataloguing • Overview of principles and practice in document description • Standard codes of cataloguing | |
| 25 | Unit-2 | Anglo American Cataloguing Rules |
| 25 | Unit-3 | Classified Catalogue Code |
| 15 | Unit 4. | Current trends in standardization, description and e exchange |

**LISC203P Information Processing (Practical)
(Credit 4)**

- | | | |
|----|---|---|
| 30 | Unit 1. | Cataloguing of Documents (Using AACR – latest editions) |
| | <ul style="list-style-type: none"> • Cataloguing of simple documents • Cataloguing of complex documents | |

- Cataloguing of Government publications
- Cataloguing of Serials / Periodicals

30 **Unit 2. Cataloguing of Documents (Using CCC – latest editions)**

- Cataloguing of simple documents
- Cataloguing of complex documents
- Cataloguing of Government publications
- Cataloguing of Serials / Periodicals

Recommended Books:

1. Cutter (CA) 1904 – Rules for a dictionary catalogue ed 4.
2. Cerman (M) and Winkler (PW) 1988- AACR 2nd Ed Canadian Library Association Ottawa.
3. Parthasarathy (VV) –Combination of Quais –Isolates DRTC, Annual Seminar.
4. Ramsden (M) 1981 – PRECTS Work Book for students for Librarianship
5. Ranganathan (CR) 1964- COC, with Additional Rules for Dictionary Code ed 5.
6. Borko :Indexing Methods
7. Fosket D.J. : Subject Approach to Information.
8. Prasher : Index & Indexing Systems.

**LISc204T Information Technology: Basics (Theory)
(Credit 4)**

No. of Lectures/ Unit

03 **Unit 1. Information Technology**

- Definition, Need, Scope and Objectives

05 **Unit 2. Computer Basic (Hardware)**

- Historical development of computers
- Generation of Computers, Classification of Computers

03 **Unit 3. Computer Architecture—Organization of Computer**

- Input and Output Devices

08 **Unit 4. Software**

- Operating Systems: Single & Multi User Systems, Basic features of MS-DOS, MS-Windows, Linux, Unix, Window-NT, etc.
- Programming languages: concept and Tools
- Algorithm & Flowcharting

03 **Unit 5. Word Processor, Spread Sheets etc.**

05 **Unit 6. DBMS Package**

- DBASE, FOXPRO, CDS/ISIS, SOUL, LIBSYS, MS-ACCESS (basic features)

10 **Unit 7. Library Automation**

- Planning, Implementation and Library Automation

- In-house Operations—Acquisition, Cataloguing, Circulation, Serials Control, OPAC, Library Management

05 **Unit 8. Multilingual Bibliographic Database**

- Library Automation Software Packages; their study and composition

**LISc204P Information Technology: Basics (Practical)
(Credit 4)**

- 10 **Unit 1.** Use of Operating System
10 **Unit 2.** Word Processors, Spread Sheets
20 **Unit 3.** Creation and maintenance of databases by using FOXPRO, CDS/ISIS, SOUL, LIBSYS etc.
20 **Unit 4.** Database Search and Retrieval

Recommended Books:

1. Base B.C. ed- Local Area Network : Its Significance and Informaiton System Bafra Book Service 1991.
2. Brown K.R. –Challenge of Information Technology, 1983
3. Hills P. _Future of the printed World, the impact and Implication of the New communication Technology 1980
4. Katzan H. – Advanced Programming and Operating Systems. Van Nortrand Reinhold Company London 1990
5. Lane E.S. – Microcomputers Management & Maintenance for Libraries Mecker – Westport London 1970
6. Spencer D.D. – An Introduction to Computer Charles E Merrill Publishing CO. Columbus 1984
7. Lancaster F.W. – Towards Paperless Information Systems Academic Press Inc. New Delhi 1978
8. Vickery B.C. –Information’s Systems 1973
9. Wilson T.P. Computers and Application Software : An Introduction B.S. College Publishing 1985.
10. Zorkoezy Peter – Information Technology : An Introduction Pitman 1984
11. Computer & Common Sense.
12. Sanders – Introduction to Computer
13. Taxali R.A – FoxPro; made simple BPB Publications, New Delhi 1996
14. Shrivastav Chetan – Fundamentals of Information’s Technology, New Delhi, Kalyani Publishers 2000.
15. Mano Morris – Computer system Architecture 3rd, New Delhi Prentice Hall of India 2000
16. Hayes John P – Computer Architecture & Organization 3rd ed Boston M Grow Hill 1998
17. Hwang Kai- Computer Architecture & Parale Processing, New York Mc Grow Hill 1985
18. Chandhuvi P. Pal – Computer organization & Design 2nd ed New Delhi Prentice Hall of India 1999.
19. Kain Rechar – Computer Architecture Hardware & Software Vol.1&2 New Delhi Jersey, prentice Hall 1989
20. Stallings, William – Operating systems 2nd ed New Delhi, prentice Hall of Indian 2001
21. Horowitz Ellis and Sahni Sartaj – Fundamentals of computer Algorithm New Delhi, Galgotia 1996.
22. Tackett, Jack – Using Linux Individual corporation 1995

4. Harold Henke (2001). Electronic Books and ePublishing: A Practical Guide for Authors.
5. Shmuel Vaknin (2002) E-books and e-publishing.
6. Val Skelton (2011) Trends in e-books and e-publishing.

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 Technolgy 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 3)

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 Project / Dissertation Part 1 (Credit 12)

SERVICE COURSE

LISc305T **Service Course**
LISc305A1T **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

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-tekhnichestskaya informatsiya.
4. Popov, S.V. (2001). Information retrieval and decision making, navchno-technicheskaya informatsiya.
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

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 4)

- 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 / Dissertation (Credit 12)

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. Corral, 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 Association.
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 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 Initiatives—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 <ul style="list-style-type: none"> • Health • Education • Employment • Agriculture • Village Industries • Utilisation of Local Resources • Transport • Daily necessities • Sources of Finance • Redressal of grievences 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

- 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:

- Louis Rosenfeld and Peter Morville (). Information Architecture for the World Wide Web.
- Jennifer Niederst Robbins Web Design in a Nutshell U.K.
- Ann Navarro (Feb 1998) *Effective Web Design*
- 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*
- Joe Farace (1998) *Plug-in Smart: How to Choose and Use Photoshop Plug-ins*
- Daniel Donnelly (1998) *Cutting Edge Web Design: The Next Generation*
- Talitha Harper & Sara Booth (Eds.) (1997) *Step-by-Step Electronic Design Techniques*

LISc4504A2T 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

LISc4504A2P

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, Hyderabad.

LISc4504A3T 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

LISc4504A3P 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.