

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

TRIPURA UNIVERSITY

SURYAMANINAGAR -799022

Date: 28.09.2020

NOTICE

The 5<sup>th</sup> meeting of the Board of Post Graduate Studies (BPGS) in Library and Information Science shall be held on 12.10.2020 in virtual mode at 1 PM in the office of the Head, Department of Library and Information science, Tripura University. All members of BPGS of Library and Information Science, Tripura University are requested to attend the meeting.

*Mitranajda Khan*  
28/09/2020  
Head (I/c)  
Dept. of Lib. & Inf. S.  
Tripura University  
Agartala-799022

Agenda

- Sl. No.1: Confirmation of the Resolution of the fourth BPGS meeting.
- Sl. No. 2: Recommendation of Panel of Question Paper Setters, Moderators, examiners, etc. of both MLIS 2<sup>nd</sup> semester and BLIS 2<sup>nd</sup> semester examination 2019-20 respectively
- Sl. No.3: Recommendation of Panel of Question Paper Setters, Moderators, examiners, etc. of Pre Ph.D. Coursework examination 2020 of Library and Information Science
- Sl. No. 4: Approval of new B.L.I.Sc. syllabus prepared according to LOCF model for the academic session 2020-21.
- Sl. No. 5: To consider the introduction of 2 years integrated Master of Library and Information Science course as we have successfully completed four batches of 1 year BLIS and three batches of 1 year MLIS as recommended by the expert committee in the clause number 1 of the "Report on the introduction of Bachelor of Library and Information Science" dated 26.08.2014.
- Sl. No. 6: Miscellaneous if any with due permission of the chair

Copy to:

1. All members BPGS in Library and Information Science, Tripura University for favor of kind information.
2. Prof. Sukant Banik, Dean, Faculty of Science, Tripura University for favor of kind information. *Misra 2020*

06-10-2020

Date :12.10.2020

PROCEEDINGS OF THE 5<sup>TH</sup> MEETING OF THE BPGS OF LIBRARY AND INFORMATION SCIENCE HELD IN THE DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE, TRIPURA UNIVERSITY ON 12.10.2020 AT 1 PM in virtual mode as well.

Members Present

1. Prof. Sukant Banik, Dean, Faculty of Sciences, TU  
2. Prof. Durga Sankar Rath, Prof DLIS, Vidya Sagar University  
3. Prof. M. Madhusudan, Prof. DLIS, Delhi University  
4. Prof. RK Nigurtinkhuma, Prof. DLIS, Mizoram University  
5. Dr. R.K. Mahapatra, Head, DLIS, TU  
6. Dr. Mithu Anjali Gayan , Head (I/C)  
7. Mr. Augustine Zimik  
8. Dr. Swanirbhar Majumder

Member  
Member (Present online)  
Member (Present online)  
Member (Present online)  
Member (Present online)  
Chairperson *M. Madhusudan*  
Member *Zimik*  
Member *Swanirbhar Majumder*

The Chairperson at the outset welcomed all members for kindly attending the 5<sup>th</sup> meeting of the BPGS of the Library and Information Science Held in the Department of Library and Information Science.

The Board discussed and deliberated the following agenda items and decided as follows:

**Resolutions**

Agenda 1: The Chairman read out the resolution of the 4<sup>th</sup> BPGS meeting which was confirmed

Agenda 2: Reported and accepted

Agenda 3: Reported and accepted

Agenda 4: Reported and BLISc LOCF model accepted for implementation from 2020-21 academic session.

Agenda 5: Reported and accepted and DRC is authorized to frame the syllabus and other guidelines related to the two years integrated MLIS program from 2021-22 onwards.

Agenda 6: The Board suggested full classification / Cataloguing Workshop along with recruitment of a Technical assistant with MLIS degree for the workshop.

Agenda 7: The Board unanimously recommended the university to appoint the below mentioned teaching and non-teaching staff recruitment of 1 Associate Professor and 2 Assistant Professor apart from the present sanctioned posts by looking at the current workload of the present faculties and 1 MTS for meeting the requirement of all the three courses run by the department for its smooth running.

The meeting ended with vote of thanks from and to the chair.

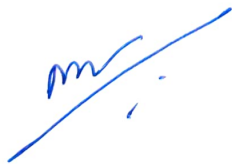
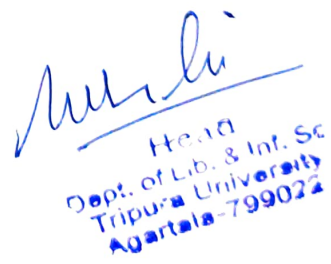
**TRIPURA UNIVERSITY**

**DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE**

**Learning Outcomes based Curriculum Framework**

**(LOCF) for**

**Bachelor of Library & Information Science Programme 2020-21**

A handwritten signature in blue ink, consisting of a stylized 'm' followed by a horizontal line.A handwritten signature in blue ink, consisting of a stylized 'Q' followed by a horizontal line.A handwritten signature in blue ink, consisting of a stylized 'M' followed by a horizontal line. Below the signature is a rectangular stamp with the following text: Head, Dept. of Lib. & Inf. Sc, Tripura University, Agartala-799022.

## Introduction:

The discipline of Library & Information Science deals with Libraries and Information Centers which are established and maintained to fulfill the reading and information needs of various categories of library users. The Bachelor of Library & Information Science (B.Lib.I.Sc.) degree programme imparts education and training so as to develop manpower capable to manage Libraries and Information Centers effectively and efficiently with professional attitude and values. The Learning Outcome-based Curriculum Framework for the B.Lib.I.Sc. degree aims to provide broad framework to impart meaningful, effective and quality education to the graduate students. The framework will enable to develop an evolving nature of the Library and Information Science as a discipline. It will help in sustaining the standard of B.Lib.I.Sc. degree programmes across the nation. This framework can be adopted to periodically review graduate attributes, qualification descriptors, programme and course level learning outcomes of the B.Lib.I.Sc. programme.

### Structure of B.Lib.I.Sc. Programme

<b>Semester I</b>			
<b>Paper code</b>	<b>Title of the paper</b>	<b>Credits</b>	<b>Marks (70+30)</b>
<b>701C</b>	Foundations of Library and Information Science	4	100
<b>702C</b>	Library Management	4	100
<b>703C</b>	Information Sources, Systems and Services	4	100
<b>704C</b>	Knowledge Organization: Classification (Theory)	4	100
<b>705C</b>	Knowledge Organization: Cataloguing (Theory)	4	100
<b>CSK-I</b>	Compulsory computer skill-1	4	100
<b>Internship of one-month duration constitutes the B.Lib.I.Sc. Programme</b>			

**Semester II**

<b>Paper code</b>	<b>Title of the paper</b>	<b>Credits</b>	<b>Marks (70+30)</b>
<b>801C</b>	Knowledge Organization: Classification (Practice)	4	100
<b>802C</b>	Knowledge Organization: Cataloguing (Practice)	4	100
<b>803C</b>	Basics of Information and Communication Technology (Theory)	4	100
<b>804C</b>	Basics of Information and Communication Technology (Practice)	4	100
<b>805E</b>	Project work: Literature Survey and Library Visit	4	100
<b>OE</b>	Open Elective (OE)	4	100

## **701C: Foundations of Library and Information Science**

### **Learning Outcomes:**

After studying this paper, students shall be able to:

1. Comprehend the concept of information and the discipline of Library and Information Science
2. Understand the development of libraries
3. Classify libraries on the basis of their purpose and functions
4. Know the role of libraries in the development of various aspects of society
5. Comprehend the basic philosophy of Library and Information Science
6. Understand laws related to libraries and information
7. Understand librarianship as a profession
8. Assess the role of national and international library associations and organizations
9. Highlight role of various library promoters at the national and international level

### **Syllabus:**

#### **Unit 1: Information, Knowledge and Society**

- Information: Meaning, Characteristics
- Data, Information, Knowledge, Wisdom; Knowledge Society
- Information Transfer Cycle: Generation, Storage and Dissemination of information
- Library and Information Science as a Discipline

#### **Unit 2: Libraries- Types and Roles**

- Historical Development of Libraries
- Types of Libraries and Information Centers: Objectives, Features, Functions, Public Relations and Extension Activities
- Role of Libraries in Socio-economic, Cultural, Educational, Scientific and Technological Developments
- Five Laws of Library Science

#### **Unit 3: Laws Related to Libraries and Information**

- Library Legislation: Need, Features

- Library Legislation in India
- The Press and Registration of Books Act; The Delivery of Books and Newspapers (Public Libraries) Act; Copyright Act
- Right to Information Act; Intellectual Property Rights; Information Technology Act; Plagiarism

#### **Unit 4: Professional Associations and Organizations**

- Librarianship as a Profession
- Professional Ethics
- National and International Professional Associations: ILA, IASLIC, IATLIS, IFLA, ALA, CILIP, ASLIB and SLA
- Role of UNESCO, UGC and RRRLF in the promotion and development of libraries

#### **Recommended Books:**

1. Bawden, D., & Robinson, L. (2013). *Introduction to information science*. Chicago: Neal Schuman.
2. Davies, D. L. (2013). *Library and information science*. New Delhi: Random Exports.
3. Hill, M. W. (1998). *The impact of information on society*. London: Bowker-Saur.
4. Isaac, K. A. (2004). *Library legislation in India: A critical and comparative study of state library Acts*. New Delhi: EssEss Publications.
5. Leckie, G. J., Given, L. M., & Buschman, J. (2010). *Critical theory for library and information science: Exploring the social from across the disciplines*. Santa Barbara, Calif: Libraries Unlimited.
6. Mangla, P.B. (1981) (Ed). *Library and information science education in India*. New Delhi: Macmillan.
7. McIntosh, J. (2011). *Library and information science: Parameters and perspectives*. Oakville, Ont: Apple Academic Press.
8. Ranganathan, S. R. (1957). *The five laws of library science*. Bombay: Asia Publishing House.
9. Rout, R. K. (1986). *Library legislation in India: Problems and prospects*. New Delhi: Reliance Publishing House.
10. Rubin, Richard E. (2013). *Foundations of library and information science*. 3rd ed. New Delhi: DBS Imprints.

## 702C Library Management

### **Learning Outcomes:**

After studying this paper, students shall be able to:

1. Understand the concept and history of management
2. Elaborate principles and functions of management
3. Carry out various operations of Library and Information Centres
4. Manage, preserve and provide access to various print and non-print information sources
5. Comprehend the concept of financial management and human resource management
6. Maintain the library statistics and prepare annual report

### **Syllabus:**

#### **Unit 1: Principles and Functions of Management**

- Management: Concept, Scope
- Schools of Management Thoughts
- Principles of Management
- Functions of Management

#### **Unit 2: Collection Development and Management**

- Acquisition of Books and Subscription of Periodicals
- Technical Processing
- Circulation Methods and Processes
- Maintenance: Stock Verification, Shelf-rectification, Binding, Preservation

#### **Unit 3: Financial and Human Resource Management**

- Sources of Library Finance, Estimation of Library's Financial Requirements
- Budgeting, Accounting and Auditing
- Cost Effectiveness Analysis and Cost Benefit Analysis
- Human Resource Management: Introduction

#### **Unit 4: Library Committee, Rules, and Reports**

- Library Committee
- Library Statistics; Annual Report
- Library Rules and Regulations



- Library Building and Space Management

### Recommended Books:

1. Beard W. Ian & Holden, Len. (1996). *Human Resource Management: A contemporary perspectives*. London: Longman.
2. Bryson, Jo. (1996). *Effective library and information management*. New Delhi: Jaico Publishing House.
3. Evans, G. Edward & Layzell, Patricia. (2007). *Management basics for information professionals*. 2nd ed. London : Libraries Unlimited.
4. Harvey, Poss. (1993). *Preservation in libraries: a reader*. London: R.R. Bowker.
5. Johnson, P. (2014). *Fundamentals of collection development and management*. 3rd ed. Chicago : American Library Association.
6. Koontz, H. & Weihrich, H. (2015). *Essentials of management*. 10th ed. Chennai, McGraw Hill Inc.
7. Krishan Kumar, (2007). *Library management in electronics environment*. New Delhi: Har -Anand Publications.
8. Mittal, R. (2007). *Library administration: Theory and practice*. New Delhi: EssEss Publications.
9. Narayana, G J. (1991). *Library and information management*. New Delhi: Prentice Hall of India.
10. Stoner, James A.F. et al. (1996). *Management: Global perspectives*. 10th ed. New Delhi: McGraw Hill Inc.
11. Stueart, Robert D. & Moran, B. (2007). *Library and information centre management*, 7th, ed. London: Libraries Unlimited.

## 703 C Information Sources, Systems and Services

### Learning Outcomes:

After studying this paper, students shall be able to:

1. Understand, identify and explore the different types of information sources
2. Evaluate various types of information sources
3. Explore, collate and facilitate access to the electronic resources, such as ejournals, e-books, databases and institutional repositories
4. Provide library services using sources such as blogs, portals, wikies, subject gateways, digital libraries
5. Understand the concept of library resource sharing and consortia
6. Comprehend the nature and functions of various information systems and networks

### Syllabus:

#### Unit 1: Information Sources

- Nature, Characteristics, Types and Formats
- Documentary and Non-Documentary Sources
- Primary, Secondary and Tertiary Sources of Information
- Human Sources of Information; Institutional Sources

#### Unit 2: Reference Sources and Electronic Information Sources

- Reference Sources: Characteristics, Types, Usefulness
- Electronic Sources: E-books, E-journals, ETDs
- Subject Gateways, Web Portals, Bulletin Boards, Discussion Group/Forum, Multimedia Resources, Databases, Institutional repositories
- Evaluation of Reference Sources and Electronic Information Sources

#### Unit 3: Reference and Information Services

- Reference Service: Concept, Purpose, Types, Theories
- Documentation Services: Current Awareness Service (CAS), Selective Dissemination of Information (SDI), Translation Services, Indexing and
- Abstracting Services, Bibliographical Services
- Document Delivery Services, Inter Library Loan (ILL) Service

- Online Services: Instant Messaging, RSS Feeds, Podcasts, Vodcasts, Ask a Librarian, Mobile Based Library Services and Tools; Collaborative Services: Social Networks, Social Bookmarking; Community Information Services

#### **Unit 4: Information Systems and Networks**

- Information Systems: Characteristics, Functions
- National Information Systems and Networks: NISCAIR, NASSDOC, DESIDOC, SENDOC, ENVIS, NICNET, ERNET; National Knowledge Network (NKN)
- Global Information Systems and Network: MEDLARS, AGRIS, INIS, INSPEC, BIOSIS, ERIC, Patent Information System (PIS), Biotechnology Information System (BIS)
- Library resources sharing and Consortia

#### **Recommended Books:**

1. Bopp, R. E. & Smith, L. C. (Eds.). (2011). *Reference and information services: An introduction*. Santa Barbara: ABC-CLIO Publishing.
2. Cassell, K. A. & Hiremath, U. (2013). *Reference and information services: An introduction*. Chicago: American Library Association.
3. Chowdhury, G. & Chowdhury, S. (2001). *Information sources and searching on the World Wide Web*. London: Facet Publishing.
4. Cheney, F N. & Williams, W. J. (2000). *Fundamentals of reference sources*. Chicago: American Library Association.
5. Grogan, Dennis (1982). *Science and technology: An introduction to literature*. London: Clive Bingley.
6. Guha, B. (1999). *Documentation and Information Services (2nd Ed.)*. Kolkata: World Press.
7. Higgens, C. (Ed.). (1980). *Printed reference materials*. London: Library Association.
8. Katz, W. A. (2000). *Introduction to Reference work*. London, Butterworths.
9. Krishan Kumar (1984). *Reference Service*. New Delhi, Vikas Publishing House.
10. Ranganathan, S. R. (1991). *Reference Service*. Bangalore: SaradaRanganathan Endowment for Library Science.
11. Rowley, J. E. (1996). *The basics of information systems*. London: Facet Publishing.
12. Shuman, Bruce A. (2004). *Issues for libraries and information science in the internet age*. London: Libraries Unlimited Inc.

## **704 C Knowledge Organization: Classification (Theory)**

### **Learning Outcomes:**

After studying this paper, students shall be able to:

1. Explain the nature and attributes of universe of knowledge
2. Elaborate meaning and types of subjects and modes of subject formation
3. Illustrate knowledge as mapped in different classification schemes
4. Express the meaning, purpose, functions, theories and canons of library classification
5. Elucidate various facets of notation and call number
6. Discuss the characteristics, merits and demerits of different species of library classification schemes
7. Highlight salient features of major classification schemes
8. Review current trends in library classification

### **Syllabus**

#### **Unit 1: Universe of Knowledge**

- Universe of Knowledge: Nature, Attributes
- Subject: Meaning, Types (Basic, Compound, Complex)
- Modes of Subject Formation
- Universe of Knowledge as Mapped in Different Classification Schemes (DDC, UDC, CC, LCC)

#### **Unit 2: Library Classification**

- Concept, Purpose, Functions
- Canons and Postulates
- Knowledge Classification and Book Classification
- Notation: Meaning, Need, Functions, Types, Qualities, Call number

#### **Unit 3: Classification Schemes**

- Species of Library Classification Schemes
- Dewey decimal classification (DDC)
- Colon Classification (CC);

#### Unit 4: Current Trends

- Simple Knowledge Organization Systems (SKOS)
- Automatic Classification, Web Dewey
- Taxonomies
- Folksonomies

#### Recommended Books:

1. Chan, L. M. and Salaba, Athena (2015). *Cataloguing and classification: an introduction*. 4th ed. Lanham, MD: Rowman & Littlefield Publishers
2. Dhyani, Pushpa (2000). *Theory of library classification*. Delhi: VishwaPrakashan.
3. Jennifer, E. R. (1987). *Organizing knowledge: an introduction to information retrieval*. Aldershot: Gower.
4. Joudrey, Daniel N. & Taylor, Arlene G. (2015). *Introduction to cataloguing and classification*, 11th ed. Santa Barbara: Libraries Unlimited.
5. Krishan Kumar (1993). *Theory of classification*. New Delhi: Vikas Publishing House.
6. Kumbhar, Rajendra (2011). *Library classification trends in 21st century*. Oxford: Chandos Publishing.
7. Lazarinis, Fotis (2014). *Cataloguing and classification: an introduction to AACR2, RDA, DDC, LCC, LCSH and MARC 21 standards*. Oxford: Chandos Publishing.
8. Mann, Margaret (1943). *Introduction to cataloguing and the classification of books*. 2nd ed. Chicago: American Library Association.
9. Ranganathan, S. R. (2006). *Prolegomena to library classification*. 3rd ed. New Delhi: EssEss Publications.
10. Rowley, Jennifer & Hartley, Richard (2008). *Organizing knowledge: an introduction to managing access to information*. 4th ed. London: Routledge.

# 705C Knowledge Organization: Cataloguing (Theory)

## Learning Outcomes:

After studying this paper, students shall be able to:

1. Understand the concept of library catalogue
2. Comprehend various inner and outer forms of library catalogue
3. Understand the main and added entries of library catalogue
4. Understand various approaches of deriving subject headings
5. Know about the normative principles of cataloguing
6. Understand the concept of co-operative and centralized cataloguing
7. Explain the current trends in library cataloguing
8. Know the standards for bibliographic interchange and communication

### Unit 1: Library Catalogue:

- Library Catalogue: Concept, Objectives, Functions
- Physical Forms of Library Catalogue: Conventional and Non-conventional
- Types of Catalogue: Dictionary Catalogue, Classified Catalogue, Alphabetic-Classed Catalogue, Alphabetic-Subject Catalogue
- Classed Catalogue, Alphabetic-Subject Catalogue

### Unit 2: Catalogue Codes and Normative Principles

- Catalogue Codes: History and Development
- Normative Principles
- Catalogue Entries according to CCC and AACR (latest editions)

### Unit 3: Subject and Union Catalogue

- Subject Catalogue: Meaning, Purpose
- Union Catalogue: Concept, Purpose
- Tools and Techniques for Deriving Subject Headings
- Selective, Simplified, Cooperative and Centralized Cataloguing

### Unit 4: Current Trends in Cataloguing

- ISBD, CCF, RDA, FRBR and Bibframe.
- Metadata: Meaning, Purpose, Types, Uses
- MARC 21, DUBLIN CORE, TEI (Text Encoding Initiative), METS, EAD, VRA Core, MODES

- Standards for Bibliographic Interchange and Communication: ISO 2709, Z39.50 and Z39.71

### Recommended Books:

1. Bowman, J. H. (2003). *Essential cataloguing*. London: Facet Publishing.
2. Brenndorfer, Thomas (2016). *RDA Essentials*. Chicago, American Library Association.
3. Bristow, Barbara A. (2018). *Sears List of subject headings*. 22nd ed. New York: Grey House Publishing.
4. Chan, L. M., & Hodges, T. (2007). *Cataloging and classification: An introduction*. 3<sup>rd</sup> ed. Lanham, Md: Scarecrow Press.
5. Chowdhury, G. G., & Chowdhury, S. (2007). *Organizing information: From the shelf to the Web*. London: Facet Publishing.
6. Girja Kumar & Krishan Kumar (2011). *Theory of cataloguing*. 5th ed. Delhi: Vikas Publishing House.
7. Gorman, M., & Winkler, P. (2005). *Anglo-American Cataloguing Rules -2R*. Chicago: American Library Association.
8. Krishan, G. (2000). *Library online cataloguing in digital way*. Delhi: Authors press.
9. Lazarinis, Fotis (2014). *Cataloguing and classification: An introduction to AACR2, RDA, DDC, LCC, LCSH and MARC 21 Standards*. London: Chandos Publishing.
10. Mitchell, A. M., & Surratt, B. E. (2005). *Cataloging and organizing digital resources: A how to-do-it manual for librarians*. London: Facet Publication.
11. Ranganathan, S. R. (1964). *Classified catalogue code: With additional rules for dictionary catalogue*. 5th (Reprint) ed. New Delhi: EssEss Publications.
12. Taylor, A. G. & Miller, D. P (2007). *Introduction to cataloging and classification*. 10th ed. Westport, Conn: Libraries Unlimited.
13. Welsh, A., & Batley, S. (2012). *Practical cataloguing: AACR, RDA and MARC 21*. London: Facet Publishing.

## Semester II

### 801 C Knowledge Organization: Classification (Practice)

#### Learning Outcomes:

After studying this paper, students shall be able to:

1. Construct class numbers for documents with simple, compound and complex subjects
2. Synthesize class numbers by using the standard subdivisions/common isolates/auxiliary tables
3. Compile book numbers and be able to use index of the classification scheme

#### Syllabus

**Unit 1:** Classification of documents with simple subjects

**Unit 2:** Classification of documents with compound subjects

**Unit 3:** Classification of documents with complex subjects using standard subdivisions/common isolates/special isolates/auxiliary tables/add notes from schedules

**Unit 4:** Assigning Book Numbers

#### Recommended Books:

1. British Standards Institute (2006). *Universal Decimal Classification*. 2 vols.
2. Standard ed. London: BSI.
3. Dewey, Melvil and Mitchell, Joan S. (2011). *Dewey Decimal Classification and Relative Index*. 23rd ed. Dublin: OCLC
4. Ranganathan, S. R. (2008). *Colon classification*. 6th rev. ed. New Delhi: EssEss Publications. Ranganathan, S. R. & Gopinath, M. A. (1989). *Colon classification*. 7th ed. Vol. 1, schedules for classification. Bangalore, Sarada Ranganathan Endowment for Library Science.
5. Schedules of Library of Congress Classification Schemes



## **802C Knowledge Organization: Cataloguing (Practice)**

### **Learning Outcomes:**

After studying this paper, students shall be able to:

1. Use the catalogue codes and standards
2. Prepare catalogue entries for various types of information sources
3. Derive subject headings using various methods and tools

### **Syllabus:**

**Unit 1:** Cataloguing of Works of Single Authorship, Shared Authorship, Pseudonyms, Mixed Responsibilities

**Unit 2:** Cataloguing of Editorial Works, Composite Works, Multi-volume Works

**Unit 3:** Cataloguing of Serial Publications, Uniform Titles

**Unit 4:** Cataloguing of Works of Corporate Authorship

### **Recommended Books:**

1. Bristow, Barbara A. (2018). *Sear's list of subject headings*. 22nd ed. New York: Grey House Publishing.
2. Gorman, M., & Winkler, P. (2005). *Anglo-American Cataloguing Rules -2R*. Chicago: American Library Association.
3. Ranganathan, S. R. (1964). *Classified catalogue code: with additional rules for dictionary catalogue*. 5th (Reprint) ed. New Delhi: EssEss Publications.

# 803C Basics of Information and Communication Technology (Theory)

## Learning Outcomes:

After studying this paper, students shall be able to:

1. Understand the structure of computer and functions of its various units
2. Plan and implement automation in library housekeeping operations and services
3. Evaluate various library management software
4. Identify and state the features of telecommunication channels, modes, media, modulation, standards and protocols
5. Highlight the nature and components of computer networks and their protocols and standards
6. Discuss of Internet, search engines and network security
7. Examine the concept of library networks and highlight their types and importance

## Syllabus

### Unit 1: Fundamentals of Computers

- Concept, Generations, Types, Hardware
- Units of Computers: Arithmetic and Logic Unit, Control unit, Input and Output Unit,
- Memory Unit
- Software: System Software - Operating Systems-MS-Windows, UNIX and LINUX;
- Application Software - MS-Word, MS-Excel and MS-Power point
- Introduction to Character Recognition, Programming Languages

### Unit 2: Library Automation

- Definition, Purpose, Historical Development
- Planning and Implementation of Automation in Housekeeping Operations,
- Retrospective Conversion
- Standards for Library Automation
- Library Management Software: Proprietary, Free and Open Source Software (FOSS);
- Evaluation

### Unit 3: Telecommunication Technologies

- Transmission Channels, Mode, and Media, ISDN, PSDN,
- Modulation, Frequency, Bandwidth and Multiplexing,
- Standards and Protocols

- Wireless Communication: Media, Wi-fi, Satellite Communication, Mobile Communication

#### **Unit 4: Computer Networks and Library Networks**

- Computer Networks: Concept, Need, Topologies, Types: LAN, MAN, WAN
- Internet: Web Browsers, WWW, E-mail; Search Engines (Meta & Entity); Internet
- Protocols and Standards: HTTP, SHTTP, FTP, SMTP, TCP/IP, URI, URL; Search
- Strategies
- Data Security and Network Security: Firewalls, Cryptographic Techniques, Anti-virus software, Anti- spyware, Intrusion Detection System
- Library Networks: Concept, History, Need, Types (Regional, National, International)

#### **Recommended Books:**

- 1) Bharihoke, Deepak (2012). *Fundamentals of Information Technology*. 4th ed. New Delhi: Excel Books.
- 2) Borgman, Christine L. (2017). *Big data, little data, no data: Scholarship in the networked world*. Cambridge: The MIT Press.
- 3) Haravu, L. J. (2014). *Library automation: Design, principles and practice*. Allied Publishers, New Delhi.
- 4) Hennig, Nicole. (2017). *Keeping up with emerging technologies: Best practices for information professionals*. Santa Barbara: Libraries Unlimited.
- 5) Joiner, Ida. (2017). *Emerging library technologies: It's not just for geeks*. Oxford: Chandos Publishing.
- 6) Leon-Garcia, Alberto & Widjaja, Indra (2006). *Communication networks: Fundamental concepts and key architectures*. 2nd ed. New Delhi: McGraw-Hill.
- 7) Phadke, D. N. (2017). *Library information technology*. Pune: Universal Publications.
- 8) Rajaraman, V. & Adabala, Neeharika (2014). *Fundamentals of computers*. 6th ed. New Delhi: Prentice-Hall of India.
- 9) Tanenbaum, Andrew S. & Wetherall, David J. (2013). *Computer networks*. 5th ed. New Delhi: Prentice Hall.

## **804 C Basics of Information and Communication Technology (Practice)**

### **Learning Outcomes:**

After studying this paper, students shall be able to:

1. Create, edit and manage files using Word Processing, Spread Sheet and Power Point Presentation software
2. Carry out library housekeeping operations using library management software
3. Generate different types of report using library management software
4. Search information from internet and databases adopting suitable search strategies
5. Find bibliographic information from WebOPAC, WorldCat, IndCat

### **Syllabus:**

**Unit 1:** Setting of Desktop; Use of Operating System; Use of Word Processing Software, Spread Sheet Management Software and Power Point Presentation Software

**Unit 2:** Installation and Use of Library Management Software (all modules); Generation of Various Reports using Library Management Software

**Unit 3:** Searching Information from Internet using Different Search Engines; Searching WebOPAC, WorldCat, IndCat; Formulating and applying various strategies

**Unit 4:** Searching Databases by adopting various search strategies and filters

### **Recommended books:**

1. Brown, Christopher & Bell, Suzanne (2018). *Librarian's guide to online searching: cultivating database skills for research and instruction*. 5th ed. London: Libraries Unlimited
2. Clayton, Marlene (2018). *Managing library automation*. 2nd ed. London: Routledge.
3. Markey, Karen (2019). *Online searching: A guide to finding quality information efficiently and effectively*. 2nd ed. Lanham, Maryland: Rowman & Littlefield Publishers.
4. Marmel, Elaine (2015). *Office 2016 Simplified*. Hoboken. New Jersey: John Wiley & Sons.
5. Mishra, Vinod Kumar (2016). *Basics of library automation, Koha library management software and data migration: Challenges with case studies*. New Delhi: EssEss Publications.

## **805 E Project work: Literature Survey and Library Visit**

### **Learning Outcomes:**

After studying this paper, students shall be able to:

1. Perform documentation work
2. Get a practical idea about regular household library work
3. Understand the status local libraries

### **Syllabus**

**Unit 1:** Introduction to hands on practice of Bibliography creation, News paper clipping,

Electronic Current Awareness Service and documentation

**Unit 2:** Curriculum stipulated local Library Visit

### **Open Elective (OE)**

To be chosen from a different department of the university