

# Learning Outcomes-based Curriculum Framework (LOCF) for Post-graduate Programme



Name of the Programme:

**M.L.I.Sc. (Library and Information Science)**

(Syllabus effective from 2022 Admission onwards)



**UNIVERSITY OF KERALA**

**2022**

**UNIVERSITY OF KERALA**  
**Syllabus for M.L.I.Sc. (Library and Information Science)**

**Programme Specific Outcomes (PSO) for M.L.I.Sc. (Library and Information Science)**

- PSO1** Understand the basic concepts, principles, theories, and laws related to the broad field of Library and Information Science and its sub-fields such as types of libraries and information sources, library management, reference and information services.
- PSO2** Understanding the procedures of selection, acquisition, classification, cataloguing and physical processing of documents, using Information and Communication Technologies in Libraries and Information Centers, providing library and information services, and managing other library routine activities.
- PSO3** Apply skills in carrying out professional activities such as acquisition, accessioning, classification, cataloguing, and physical processing of documents, housekeeping operations using library management software and Information and Communication Technologies, maintaining library collection, and educating users.
- PSO4** Prove skills in providing various library services such as document circulation, reference and information services, Internet and database searching.
- PSO5** Develop skills that offer job opportunities as librarians in different environments.
- PSO6** Develop professional attitude and commitment will help to serve the user community by facilitating different sources and services to strengthen the Human Resource Development initiatives.
- PSO7** Develop core values by honouring diversity, insuring inclusion and displaying ethical integrity which involves honest behaviour.

### Programme Structure of M.L.I.Sc.

Semester	Course Code	Name of the course	Credits
<b>I</b>	<b>Core Courses (CC)</b>		
	LIS-CC-511	Foundations of Library and Information Science	3
	LIS-CC-512	Principles of Management	3
	LIS-CC-513	Knowledge Organization: Library Classification (Theory)	3
	LIS-CC-514	Knowledge Organization: Library Classification (Practical)	4
	LIS-CC-515	Fundamentals of Information Technology (Practical)	3
	<b>Discipline – Specific Elective (DE)</b>		
	LIS-DE-516	Knowledge Organization: Universal Decimal Classification (Practical)	2
<b>II</b>	<b>Core Courses (CC)</b>		
	LIS-CC-521	Information and Communication	3
	LIS-CC-522	Information sources	4
	LIS-CC-523	Information Products and Services	3
	LIS-CC-524	Library and Information Centre Management	3
	LIS-CC-525	Cataloguing and Metadata (Theory)	3
	LIS-CC-526	Cataloguing and Metadata (Practical)	3
	<b>Discipline – Specific Elective (DE)</b>		
	LIS-DE-527	Intellectual Property Rights	3
<b>III</b>	<b>Core Courses (CC)</b>		
	LIS-CC-531	Research Methodology	3
	LIS-CC-532	Information Storage and Retrieval	3
	LIS-CC-533	Information Technology Application in LIS (Theory)	3

	LIS-CC-534	Information Technology Applications in LIS (Practical)	3
	LIS-CC-535	Internship	2
	<b>Discipline – Specific Elective (DE)</b>		
	LIS-DE-536	Statistical Methods	3
<b>IV</b>	<b>Core Courses (CC)</b>		
	LIS-CC-541	Technical Communication	3
	LIS-CC-542	Informetrics	2
	LIS-CC-543	Digital Libraries	2
	LIS-CC-544	Dissertation & Viva voce	4
<b>Any semester (I-IV)</b>	<b>Generic Courses (GC)</b>		
	LIS-GC-501	Technical Writing	2
	LIS-GC-502	Electronic Publishing	2
	LIS-GC-503	Electronic Records Management	2
	LIS-GC-504	Knowledge Management	2
<b>Any semester (I-IV)</b>	<b>Skill Enhancement Elective (SE)</b>		
	LIS-SE-501	Web Technologies	2
	LIS-SE-502	Information Literacy	2
	LIS-SE-503	Competency Development	2

<b>SEMESTER I</b>	<b>Course Code:LIS-CC-511</b>	<b>Credits: 3</b>
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**Name of the Course:**

**FOUNDATIONS OF LIBRARY AND INFORMATION SCIENCE**

**Course Outcome:**

- CO1: Articulate and exemplify basic knowledge on the development of libraries
- CO2: Introduce the concept of resource sharing and library networking
- CO3: Awareness about types of libraries and library associations

**COURSE CONTENT**

**Module I: Library as a Social Institution**

Social and historical foundations of library; Different types of libraries: their distinguishing features and functions (including digital/ electronic/ virtual libraries); Role of library in formal and informal education.

The changing concept of librarianship.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- M01:** Identify the history of libraries (Understand)
- M01:** Describe the different types of libraries and their functions (Understand)
- M01:** Examine the role of libraries in our education system (Analyse)
- M01:** Evaluate the role of librarians (Evaluate)
- M01:** Understand professional and technical skills needed for librarians (Understand)

**Module II: Normative Principles of LIS**

Five Laws of Library Science; Implications of the five laws in library and information activities.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- M02:** Analyse and evaluate the Five Laws of Library and Information Science proposed by the Father of Library and Information Science in India, Dr. S.R. Ranganathan (Analyse)

### **Module III: Library Development**

Development libraries with special reference to India; Model public library bill of S. R. Ranganathan; Library movement of Kerala. Resource sharing and Library Networking; INFLIBNET

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** Analyse the stages of development of libraries (Analyse)

**M03:** Evaluate the development of libraries before and after Independence (Evaluate)

**M03:** Explain library movement of Kerala (Understand)

**M03:** Describe resource sharing among libraries (Understand)

**M03:** Analyse library networking (Analyse)

**M03:** List out important library networks in India (Remember)

### **Module IV: Laws relating to Libraries and Information**

Library legislation: need and essential features' Library legislation in India, Kerala Public Libraries Act; Press and Registration Act and Delivery of Books (Public Libraries) Act and Copyright Act.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Describe the needs and features of Library Legislation (Understand)

**M04:** Evaluate the Library Legislation in India (Evaluate)

**M04:** Examine Kerala Public Libraries Act (Analyse)

**M04:** Describe Press and Registration of Books Act (Understand)

**M04:** Explain Delivery of Books Act (Understand)

**M04:** Describe Copyright Act (Understand)

### **Module V: Library and Information Profession**

Attributes of profession; Librarianship as a Profession; Professional ethics; Professional associations and their role: ILA, IASLIC, IATLIS, CILIP, SLA, ALA, and ASLIB. Professional education and research.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M05:** Explain the Professional Ethics (Understand)

**M05:** Justify the Librarianship as a Profession (Evaluate)

**M05:** Examine the important Professional associations and their role (Analyse)

## **Module VI: Promoters of LIS**

UNESCO, FID, IFLA, UGC, RRRLF.

### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M06:** Explain various promoters of Library and Information Science (Understand)

## **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

### **Suggested Class Room Activities:**

- Assignments
- Seminar Presentation on selected topics
- Tutorials

## **LEARNING RESOURCES**

### **References**

1. Bawden, D., & Robinson, L. (2013). Introduction to information science. Chicago: Neal Schuman.
2. Choudhury, G. (2004). Librarianship: An introduction. London: Facet.
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8. Isaac, K. A. (2004). Library legislation in India: A critical and comparative study of state library Acts. New Delhi: Ess Ess Publications.
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15. Mangla, P. B. (1981) (Ed). Library and information science education in India. New Delhi: Macmillan.
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22. Rubin, Richard E. (2013). Foundations of library and information science. 3<sup>rd</sup> ed. New Delhi: DBS Imprints.
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30. Government of India. (1957, June 4). The Copyright Act, 1957. Copyright.Gov.In.  
<http://copyright.gov.in/Documents/CopyrightRules1957.pdf>
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### **ASSESSMENT**

- 40% Continuous/Formative Assessment (see PG Regulations).
- 60% End-semester/Summative Assessment: 3 hour written Exam.

<b>SEMESTER I</b>	<b>Course Code: LIS-CC-512</b>	<b>Credits: 3</b>
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**Name of the Course:**

**PRINCIPLES OF MANAGEMENT**

**Course Outcome:**

- CO1:** Articulate and exemplify basic knowledge about history, concept, styles and school of management thoughts
- CO2:** Enunciating the concepts of system design and Project Management techniques
- CO3:** Express effectively about HRM
- CO4:** Articulate basic Knowledge about Financial Management and Marketing management
- CO5:** Perceive idea about quality management
- CO6:** Express effectively about crisis management, change management and space management

**COURSE CONTENT**

**Module I: Schools of Management Thought**

Classical, Neo-classical and Modern management theories; Principles of scientific management; Fayol's principles; Functions of management

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- M01:** Describe the concept, history, styles and schools of Management schools (Understand)
- M01:** Apply the management concepts (Apply)

**Module II: Systems Analysis and Design**

Systems Theory; Open and Closed Systems; Project management Techniques–PERT/CPM, decision tables; dataflow diagram.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- M02:** Describe the basic concept of system design and analysis (Understand)
- M02:** Explain the use of project management techniques (Understand)

### **Module III: Human Resources Management**

Organizational structure; job analysis and description; recruitment, selection and induction; training; performance appraisal; motivation; group dynamics; stress management.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** Describe different aspects of Human Resource Management (Understand)

**M03:** Introduce HRM in libraries (Apply)

### **Module IV: Financial Resources Management**

Methods of financial estimation; Budgets and Budgeting techniques; Marketing management: Marketing of information services and products, Role of social media in marketing.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Describe the financial estimation methods (Understand)

**M04:** Practice Budgeting and budgeting techniques in libraries (Apply)

**M04:** Explain the marketing techniques and the marketing of information services and products (Understand)

**M04:** Explain Role of social media in marketing (Understand)

### **Module V: Quality Management**

TQM, Quality audit; SERVQUAL, ISO 9000 series of Standards;

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M05:** Describe the TQM, ISO 9000 series of standards (Understand)

**M05:** Apply the ISO 9000 series in libraries (Apply)

### **Module VI: Other Realms of Management**

Crisis Management; Change Management; Space Management, Green library building, Information Commons

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M06:** Explain the crisis management, Change management and Space Management (Understand)

**M06:** Examine the application of Space Management in Libraries (Analyse)

**M06:** Evaluate the crisis management in libraries (Evaluate)

**M06:** Describe the Green Library (Understand)

## **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

### **Suggested Class Room Activities:**

- Assignments
- Seminar Presentation on selected topics
- Tutorials

## **LEARNING RESOURCES**

### **References**

1. Dougherty, R.M. and Heinritz, F.J. Scientific management of library operations. New York: Scarecrow, 1967.
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21. Principles of management. Retrieval from <http://www.saylor.org/site/textbooks/Principles%20of%20Management.pdf>

### **ASSESSMENT**

- 40%Continuous/FormativeAssessment(seePGRegulations).
- 60%End-semester/SummativeAssessment:3hourwrittenExam.

<b>SEMESTER I</b>	<b>Course Code:LIS-CC-513</b>	<b>Credits: 3</b>
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**Name of the Course:**

**KNOWLEDGE ORGANIZATION: LIBRARY CLASSIFICATION (THEORY)**

**Course Outcome:**

- CO1:** The students would be able to understand the concept of Universe of Subjects and different modes of formation of subjects
- CO2:** The students would be able to familiarize the Enumerative and Faceted schemes of Library Classification
- CO3:** The students would be able to explain the Mapping of Universe of Subjects in the major Library Classification schemes
- CO4:** The students would be able to understand the theories of Library Classification
- CO5:** The students would be able to examine the functions and qualities of the Notation system in Library Classification
- CO6:** The students would be able to understand the global trends in Library Classification

## **COURSE CONTENT**

### **Module I: Universe of Subjects**

Structure and attributes, modes of formation of subjects.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- M01:** Describe the structure of Universe of Subjects (Understand)
- M01:** Explain the attributes of Universe of Subjects (Understand)
- M01:** Define the modes of formation of subjects (Remember)

### **Module II: Library Classification**

Library classification and its functions. Enumerative and faceted schemes.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M02:** Describe important functions of Library Classification (Understand)

**M02:** Understand the Enumerative and Faceted schemes of Classification (Understand)

**M02:** Compare the Enumerative and Faceted schemes of Classification (Analyse)

### **Module III: Mapping of the Universe of Subjects**

Mapping of the Universe of Subjects in the major schemes of Library classification (DDC, CC, UDC and LC), salient features of CC, UDC, DDC and WebDewey

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** Describe the Mapping of Universe of Subjects (Understand)

**M03:** Compare the Mapping of the Universe of Subjects in the major schemes of Library classification (Analyse)

### **Module IV: General Theory of Classification**

Normative Principles for Idea Plane and Verbal Plane; Principles for Helpful Sequence; Facet Analysis as used in the CC; Principles for Facet Sequence; Postulation procedure; Devices to form and sharpen isolate numbers.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Explain the Normative Principles for Idea Plane and Verbal Plane in the Library Classification (Understand)

**M04:** Describe the Principles for Helpful Sequence in the Library Classification (Understand)

**M04:** Define the Facet Analysis used in Colon Classification (Remember)

**M04:** Describe the Principles for Facet Sequence in the Library Classification (Understand)

**M04:** Evaluate the Postulation procedures used in Library Classification (Evaluate)

### **Module V: Notation System and its functions**

Qualities of a good notation system; Hospitality and Mnemonics; Zone analysis

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M05:** Describe the Notation System (Understand)

**M05:** Analyse Qualities of a good notation system (Analyse)

**M05:** Explain the functions of Notation in Library Classification (Understand)

- M05:** Define the Hospitality of the Notation System (Remember)  
**M05:** Explain the Mnemonics used in Library Classification (Understand)  
**M05:** Examine the Zone analysis used in Library Classification (Analyse)

### **Module VI: Trends in Library Classification**

Automatic Classification; Classification in online systems and Web; Knowledge Organization for Digital Libraries; Ontologies; Steps in designing a scheme of classification for a micro-subject.

### **Module Outcome:**

*After Completion of this module, the student should be able to:*

- M06:** Describe the automatic classification system (Understand)  
**M06:** Classify documents by using Web based Classification systems (Apply)  
**M06:** Develop knowledge organization for Digital Libraries (Create)  
**M06:** Design a scheme of classification for micro-subjects (Create)

## **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

### **Suggested Class Room Activities:**

- Assignments
- SeminarPresentationonselectedtopics
- Tutorials

## **LEARNING RESOURCES**

### **References**

1. Dewey, M., In Fox, V. B., In Kyrios, A., & OCLC. (2020). Dewey decimal classification. Dublin, Ohio : OCLC, Inc.
2. Dewey, M., & Beall, J. (2019). Dewey decimal classification: January 2019. Dublin, Ohio: OCLC Online Computer Library Center, Inc.
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### **On-line Sources**

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### **ASSESSMENT**

- 40% Continuous/ Formative Assessment (see PG Regulations).
- 60% End-semester/ Summative Assessment: 3 hour written Exam.

<b>SEMESTER I</b>	<b>Course Code:LIS-CC-514</b>	<b>Credits: 4</b>
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**Name of the Course:**

**KNOWLEDGE ORGANIZATION: LIBRARY CLASSIFICATION (PRACTICAL)**

**Course Outcome:**

- CO1:** The students would be able to classify simple specific subjects by using DDC
- CO2:** The students would be able to classify complex subjects by using DDC (23<sup>rd</sup> Ed.)
- CO3:** The students would be able to practice classification of documents by using DDC (23<sup>rd</sup> Ed.)  
Indicating the steps followed
- CO4:** The students would be able to classify simple specific subjects by using Colon Classification
- CO5:** The students would be able to classify complex subjects by using Colon Classification
- CO6:** The students would be able to practice classification of documents by using CC indicating the steps followed

## **COURSE CONTENT**

### **Module I: Dewey Decimal Classification: Basic Subjects**

Familiarization of Main Classes, Subdivisions and Relative Index, Classification of simple specific subjects

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- M01:** Describe the Main Classes of DDC (Understand)
- M01:** Analyse the Subdivisions and Relative Index of DDC (Analyse)
- M01:** Classify the simple specific subjects using DDC (Apply)

### **Module II: Dewey Decimal Classification: Complex Subjects**

Complicated titles by applying schedules, tables and 'add.....' instructions in the Dewey Decimal Classification (23<sup>rd</sup> ed.)

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- M02:** Analyse complex subject by using DDC (Analyse)

**M02:** Classify complex subject by using DDC (Apply)

**M02:** Classify titles by applying schedules (Apply)

**M02:** Classify titles by applying schedules and tables (Apply)

**M02:** Classify titles by applying schedules, tables and 'add.....' instructions (Apply)

### **Module III: Record of Term Work:DDC**

Classification of not less than 75 documents, indicating the steps followed. Books numbers have to be derived using the Cutter table.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** Prepare a Record of term work of Classification (Create)

**M03:** Classify the documents by following the steps (Classify)

**M03:** Construct Book Numbers by using the Cutter table (Create)

### **Module IV: Colon Classification: Basic Subjects**

Familiarization of Main Classes/ Basic Classes and Fundamental categories. Classification of simple specific subjects.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Describe the Main Classes of CC (Understand)

**M04:** Analyse the Basic Classes and Fundamental categories (Analyse)

**M04:** Classify the simple specific subjects by using CC (Apply)

### **Module V: Colon Classification: Complex Subjects**

Classification of complicated titles covering all the Main Classes, Facets, Common Isolates, Phase relation and the Devices in the Colon Classification (6thed.).

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M05:** Analyse complex subject by using CC (Analyse)

**M05:** Classify complex subject by using CC (Apply)

**M05:** Classify titles by applying Main classes of CC (Apply)

**M05:** Classify titles by applying Facets and Common Isolates (Apply)

**M05:** Classify titles by applying Main Classes, Facets, Common Isolates, Phase relation and the Devices (Apply)

## **Module VI: Record of Term Work: CC**

Classification of not less than 75 documents, of simple and complicated specific subjects, applying the postulation Procedure. Book numbers have to be derived using the Facet Formula prescribed in CC.

### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M06:** Prepare a Record of term work of Classification (Create)

**M06:** Classify the documents by following the postulation procedure (Classify)

**M06:** Construct Book Numbers using the Facet Formula prescribed in CC (Apply)

## **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

### **Suggested Class Room Activities:**

- Assignments
- Demonstration
- Tutorials
- Practical

## **LEARNING RESOURCES**

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- Online Resources
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- [https://openlibrary.org/subjects/colon\\_classification](https://openlibrary.org/subjects/colon_classification)
- <https://mypages.iit.edu/~smart/halsey/lesson1.htm>
- <http://sixthformstudyskills.ncl.ac.uk/libraries/overview-the-dewey-decimal-system/>
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## **ASSESSMENT**

40% Continuous/ Formative Assessment (see PG Regulations). 60% End semester/ Summative Assessment: 3 hour written Exam.

<b>SEMESTER I</b>	<b>Course Code:LIS-CC-515</b>	<b>Credits: 3</b>
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**Name of the Course:**

**FUNDAMENTALS OF INFORMATION TECHNOLOGY (PRACTICAL)**

**Course Outcome:**

- CO1:** Create,editandmanagefilesusingMS-Word,OpenOfficeWriter,MSExcel,MS Access
- CO2:** Encourage the students to examine how to install and use operating system
- CO3:** Encourage the students to look a practice of the video conferencing and live streaming software Google Meet, OBS Studio, Team Viewer.

### **COURSE CONTENT**

#### **Module I: Operating System: Windows**

MS Office

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M01:** Installation and customization of Windows Operating Systems and allied softwares (Apply)

#### **Module II: Operating System: Linux**

LibreOffice

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M02:** Setting up and customization of Linux Operating Systems and related softwares (Apply)

#### **Module III: Content Management Software**

CMS software- JOOMLA, Drupal, Wordpress, Moodle.

*After Completion of this module, the student should be able to:*

**M03:** Setting up and customization of CMS softwares (Apply)

#### **Module IV: Video Conferencing, Live Streaming and Remote system access**

Google Meet, Zoom, OBS Studio, Team viewer, Anydesk

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Develop a thorough understanding of how to conduct video conferencing, live streaming, remote system access and video recording (Apply)

## **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

### **Suggested Class Room Activities:**

- Assignments
- Demonstration
- Tutorials
- Practical

## **LEARNING RESOURCES**

### **References**

1. Burke,J.C. Power point 97exam guide. Delhi: Prentice-Hall of India,1998.
2. Lee,WM. Windows 7 up and running. Mumbai: Shroff Publishers and Distributors, 2009.
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8. MichaelJ. Graham, Jason Borgen. Google Tools Meets Middle School. Thousand Oaks: Corwin, 2017.
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## **ASSESSMENT**

40%Continuous/Formative Assessment (see PG Regulations). 60% End-semester/ Summative Assessment:  
3 hour written Exam.

<b>SEMESTER I</b>	<b>Course Code: LIS-DE- 516</b>	<b>Credits: 2</b>
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**Name of the Course:**

**KNOWLEDGE ORGANIZATION: UNIVERSAL DECIMAL CLASSIFICATION (PRACTICAL)**

**Course Outcomes:**

- C01:** Practical awareness of document classification
- C02:** Awareness about the organization of documents in different libraries based on subjects.
- C03:** Application of subject classification based on UDC.

**COURSE CONTENT**

**Module I: Universal Decimal Classification**

Classification of simple and complicated specific subjects, applying the schedules, Common and Special Auxiliaries and other Devices prescribed in the Abridged Edition of the UDC.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- MO1:** Describe the Universal Decimal Classification (Understand)
- MO1:** Classify the simple and complicated specific subjects (Apply)
- MO1:** Explain Common and Special auxiliaries (Understand)

**Module II: Record of Term Work**

Classification of not less than 75 documents, indicating the steps followed. Book Numbers have to be derived from the name of author(s).

**Module Outcome:**

After completion of this model, the students should prepare a record of team work of classification

- MO1:** Solve the titles not less than 75 documents in UDC (Apply)
- MO1:** Determine book numbers have to be derived from the name of author(s). (Apply)

**ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

**Suggested Class Room Activities:**

- Assignments
- Seminar Presentation on selected topics
- Record of Term Work

## **LEARNING RESOURCES**

### **References**

1. Fosket, A.C.(1973).Universal Decimal Classification. Clive Bingley, London.
2. McIlwaine, I.C.(2007).The Universal Decimal Classification: A guide to its use. UDC Consortium, The Hague, Netherlands.
3. Universal Decimal Classification. (Latest Edition). British Standards Institution, London.
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## **ASSESSMENT**

40% Continuous/ Formative Assessment (see PG Regulations). 60%End- semester/ Summative Assessment: 3 hour written Exam.

<b>SEMESTER II</b>	<b>Course Code: LIS-CC-521</b>	<b>Credits: 3</b>
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**Name of the Course:**

**INFORMATION AND COMMUNICATION**

**Course Outcome:**

**CO1:** Articulate and exemplify basic knowledge about Communication, Barriers of Communication and Models of Communication

**CO2:** Enunciating the Information society, information industry

**CO3:** Articulate basic knowledge about Information Management and Knowledge Management

## **COURSE CONTENT**

### **Module I: Information**

Characteristics, nature, value and uses; Conceptual difference between data, information and knowledge

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M01:** Explain the difference between data, information and Knowledge (Understand)

**M01:** Describe the Characteristics, nature, value and uses of information (Understand)

### **Module II: Communication**

Channels – formal and informal; models; barriers, Trends in scientific communication.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M02:** Define the channels of Communication (Remember)

**M02:** Explain the models and barriers of Communication (Understand)

**M02:** Evaluate the trends in scientific communication (Evaluate)

### **Module III: Information Science**

Genesis and development; definitions and scope; Information Science as a discipline and its relationship other subjects

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** Describe the genesis and development of Information Science (Understand)

**M03:** Explain the Information Science and its relationship with other subjects (Understand)

#### **Module IV: Library, Information and Society**

Information Society: genesis and characteristics; Information literacy; Intellectual Property Acts; Right to Information Act; Fair use provision, censorship, data security; National policy of information; Open access movement.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Describe the genesis and characteristics of information society (Understand)

**M04:** Explain the IP Acts, RTI, Fair use provision, Data Security, National Policy of Information, OA movement (Understand)

#### **Module V: Economics of information**

Information industry: generators, providers and intermediaries; Information audit. Marketing of information products and services.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M05:** Describe the Information Industry (Understand)

**M05:** Explain the Information Audit (Understand)

#### **Module VI: Management of Information**

Information management; Knowledge management.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M06:** Describe the Information Management and Knowledge Management (Understand)

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### **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

#### **Suggested Class Room Activities:**

- Assignments
- Seminar Presentation on selected topics

## LEARNING RESOURCES

### References

1. Andal, N. Communication theories and models. Mumbai: Himalaya Publishing House, 2005.
2. Bawden, David and Robinson, Lyn. Introduction to Information Science. London: Facet Publishing, 2012.
3. Case, Donald O. Looking for information: a survey of research on information seeking, needs and behaviour. 2<sup>nd</sup> ed. Amsterdam: Academic Press, 2007.
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## **ASSESSMENT**

40% Continuous/ Formative Assessment (see PG Regulations). 60% End-semester/ Summative Assessment: 3 hour written Exam.

<b>SEMESTER II</b>	<b>Course Code: LIS-CC-522</b>	<b>Credits: 4</b>
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**Name of the Course:**

## **INFORMATION SOURCES**

**Course Outcome:**

**CO1:** Articulate and exemplify basic knowledge about primary, secondary and tertiary Sources

**CO2:** Enunciating the reference sources

**CO3:** Articulate basic Knowledge about online sources

### **COURSE CONTENT**

#### **Module I: Physical media of information**

Evolution of physical media; Classification of information sources– Print and non-print; Documentary and Non-Documentary; Primary, Secondary and Tertiary Sources of Information—their categories and characteristics.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M01:** Describe the evolution of physical media (Understand)

**M01:** Explain the classification of information sources (Understand)

#### **Module II: Ready Reference Sources**

Evaluation Criteria; Detailed Study of dictionaries, encyclopaedias, yearbooks, directories, biographical sources, geographical sources, statistical sources, sources of current information.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M02:** Describe the evaluation criteria for reference sources (Understand)

**M02:** Evaluate different reference sources (Evaluate)

#### **Module III: Electronic Information Sources**

Definition, characteristics and types; Information in the Internet–E-books, E-journals, information gateways, table of contents, preprints, discussion forums, technical reports,

OPACs, Campus Wide Information Service, ETDs, Patents, reference sources, search tools, subject directories, Courseware, software.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** Describe different types of Electronic Information sources (Understand)

**Module IV: Prominent sources in different subjects**

Abstracting and Indexing periodicals, databases, ready reference sources – dictionaries, encyclopaedias, yearbooks, directories, biographical sources, geographical sources, handbooks and manuals and statistical sources

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Explain the prominent sources in different subjects (Understand)

**M04:** Examine major reference sources in different subjects (Analyse)

**Module V: Multimedia & E- resources**

Databases, Portals, Subject Gateways; Open Access Resources, institutional repositories, blogs, social book marking. DOAJ, DOAB, Open Educational resources

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M05:** Explain the multimedia and E-resources (Understand)

**M05:** Define the databases, portals, gateways and Open Access Resources (Remember)

**M05:** Explain the Institutional repositories (Understand)

**M05:** Explain the Blogs, Social Book Marking (Understand)

**M05:** Explain the DOAJ, DOAB, Open Educational resources (Understand)

**Module VI: Search Engines, Search Techniques**

Lab. Work on information search & access, Trial Demos

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M06:** Formulate the search techniques for relevant search (Apply)

**M06:** Describe the different search techniques used in different databases (Understand)

**Project**

Evaluation of not less than 75 reference sources including electronic sources.

## ACTIVITIES, LEARNING RESOURCES & ASSESSMENT

### Suggested Class Room Activities:

- Assignments
- Seminar Presentation on selected topics
- Project Evaluation

## LEARNING RESOURCES

### References

1. Cassel, Kay Ann and Hiremath, Uma. Reference information services: An introduction, 3rd ed. London: Facet Publishing, 2013.
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3. Chowdhary G.G and Sudatta Chowdhary. Information Sources and Searching on the WWW. London: Facet Publishing, 2001.
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## ASSESSMENT

- 40%Continuous/FormativeAssessment(seePGRegulations).
- 60%End-semester/ Summative Assessment: 3 hour written Exam.

<b>SEMESTER II</b>	<b>Course Code: LIS –CC- 523</b>	<b>Credits: 3</b>
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**Name of the Course:**

**INFORMATION PRODUCTS AND SERVICES**

**Course Outcome:**

**CO1:** Illuminate the concept of various information services provided by the libraries

**CO2:** Introduce various information systems

### **COURSE CONTENT**

#### **Module I: Information Users and their Information Needs**

Categories of information users; Information needs, definition; Types and models; Information seeking behaviour: User studies, methods, technique and evaluation

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M01:** Identify the Categories of Information Users (Remember)

**M01:** Analyse the different types of Information Needs (Analyse)

**M01:** Describe the behaviour of users in finding the right information they need (Understand)

**M01:** Explain different methods to evaluate users (Understand)

#### **Module II: Introduction to Information Literacy**

Information: Characteristics of information; Types of information; Need for Information Literacy; Dimensions of information literacy.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M02:** Describe the definition, characteristics and types of Information (Understand)

**M02:** Locate, evaluate and use information effectively (Apply)

#### **Module III: Reference Service**

Concept, definition and trends, virtual reference service, examples of electronic reference service; Reference Interview and search techniques.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** Describe the definition, concept and types of reference service (Understand)

**M03:** Examine virtual reference service (Analyse)

**M03:** Explain the concept of Reference Interview (Understand)

**M03:** Analyse the search techniques (Analyse)

**Module IV: Information Services and Products**

Information services, concept, definition need and trends, Alerting services–CAS, SDI, e-alert, technique, evaluation. Bibliographic, Referral, Document Delivery, Referral centres, LISTSERV

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Evaluate the various information services provided by libraries (Evaluate)

**Module V: Personalized Information Services**

Abstracting and Indexing services; Document Delivery Services; Translation, Reprography

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M05:** Explain the personalised information services provided by libraries (Understand)

**Module VI: Information Systems and their Services**

Study of national, International Systems and Services, NISCAIR, DESIDOC, NASSDOC, SENDOC, UNISIST, AGRIS, MEDLARS, OCLC

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M06:** Evaluate the services provided by the various information systems (Evaluate)

**ACTIVITIES, LEARNING RESOURCES & ASSESSMENT****Suggested Class Room Activities:**

- Assignments
- Seminar Presentation on selected topics

## LEARNING RESOURCES

### References

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### On-line Sources

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16. Information services: Concept, need etc (LIB)—YouTube. (n.d.), from <https://www.youtube.com/watch?v=2lWplYuo9Ec&feature=youtu.be>
17. Kawatra, P. Reprography and Reprographic Services. Information science and libraries, 102.
18. Kundu, D. K. (2017). Models of information seeking behaviour: A comparative study. Methodology, 7, 4.
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### ASSESSMENT

40% Continuous/ Formative Assessment (see PG Regulations). 60% End- semester/ Summative Assessment: 3 hour written Exam.

<b>SEMESTER II</b>	<b>Course Code: LIS-CC-524</b>	<b>Credits: 3</b>
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**Name of the Course:**

**LIBRARY AND INFORMATION CENTRE MANAGEMENT**

**Course Outcome:**

**CO1:** Familiarize in selecting and acquiring documents and prepare students to carry out library housekeeping operations

### **COURSE CONTENT**

#### **Module I: Introduction to Library Planning and Management**

Library Planning: Concept, definition, need and purpose; Library Management: Concept, definition and scope, need and purpose of collection management, human resource management and financial management

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M01:** Describe the need and purpose of planning in libraries (Understand)

**M01:** Analyse the structure of libraries (Analyse)

**Mo1:** Analyse the need and purpose of collection management, human resource management and financial management (Analyse)

#### **Module II: Library House Keeping Operations: Technical Operations**

Different sections of library and information centres and their functions. Collection development: Acquisition procedures: selection, ordering, accessioning and stock editing. Technical processing: Classification, Cataloguing and physical processing.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M02:** Describe the different sections of libraries and their functions (Understand)

**M02:** Examine the steps in acquisition and technical section (Understand)

#### **Module III: Library House Keeping Operations: Reader's services**

Maintenance of documents: work with new, returned, damaged and lost documents. Stock verification, binding, care, preservation and restoration of print and electronic documents. Circulation control: Charging systems, inter library lending. Serials control: Selection, ordering, receipt and display. Special collections

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** Analyse the services provided by Maintenance section, Circulation section, Serials Control (Analyse)

**Module IV: Library Finance**

Sources of Finance; Library Budget, Budgeting and Accounting

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Explain the sources of finance in libraries (Understand)

**M04:** Analyse library budget (Analyse)

**Module V: Library Building**

Building: Lay out and space estimation; Furniture and equipment

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M05:** Design the space estimation, furniture and equipments in libraries (Create)

**Module VI: Library Records and Statistics**

Library rules; Staff Manual; Library Statistics. Types of Report: Annual report, Progress/ Review reports.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M06:** Define the library rules (Remember)

**M06:** Describe the library statistics (Understand)

**M06:** Evaluate the types of reports used in libraries (Evaluate)

**ACTIVITIES, LEARNING RESOURCES & ASSESSMENT****Suggested Class Room Activities:**

- Assignments
- Seminar Presentation on selected topics
- Library Visit

## LEARNING RESOURCES

### References

1. Bawden,D.,& Robinson, L.(2015). Introduction to information science. Facet Publishing.
2. Bryson,J.(2006). Managing information services: a transformational approach. Ashgate Publishing, Ltd..
3. Bryson,J. (2017). Effective library and information centre management. Routledge.
4. Clayton,P.R., Clayton,P., & Gorman,G.E. (2001). Managing information resources in libraries: collection management in theory and practice. London: Library Association Publishing..
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6. Evans, G.E.(1976). Management Techniques for Librarians.
7. Katz,W.A.(1980).Collection development: The selection of materials for libraries. New York; Toronto: Holt, Rinehart and Winston.
8. Khanna, J. K. (2001) Handbook of library administration. New Delhi: Crest Publishing House,.
9. Kumar,K.(2007).Library management in electronic environment. Har-Anand Publications.
10. Matthews,J.R.,& Matthews, J.A. (2005). Strategic planning and management for library managers. Libraries Unlimited..
11. Mittal, R.L.(2007). Library administration: theory and practice. EssEss Publications.
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### On-line Sources

15. Evans,G.E.,&Alire,C.(2013).Management basics forinformation professionals. American Library Association.
16. Reid,M.T.(2000).Management Basics for Information Professionals. Reference & User ServicesQuarterly,40(1),98.
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## ASSESSMENT

40% Continuous/ Formative Assessment (see PG Regulations). 60% End-semester/ Summative Assessment: 3hour written Exam.

<b>SEMESTER II</b>	<b>Course Code: LIS-CC-525</b>	<b>Credits: 3</b>
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**Name of the Course:**

**CATALOGUING AND METADATA (THEORY)**

**Course Outcome:**

- CO1:** Theoretical and practical awareness about document description and cataloguing.
- CO2:** Understand various concepts and theories in cataloguing.
- CO3:** Articulate and identify various standards in document description and bibliographic exchange.

**COURSE CONTENT**

**Module I: Bibliographic Items**

Bibliographic record and its structure and functions; Different kinds of bibliographic files; FRBR; Library catalogue and its functions; Types of catalogues: Classified and Dictionary Catalogues; OPACs

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- MO1:** Articulate the structure and functions of bibliographic record (Understand)
- MO1:** Analyse the different requirements for a bibliographic records (Analyse)
- MO1:** Explore the world of library catalogue (Evaluate)
- MO1:** Describe the Classified and Dictionary Catalogue (Understand)
- MO1:** Application of OPAC in libraries (Apply)

**MODULE II: Bibliographic Description**

Principles of Description; Standards for Description: ISBDs, AACR-2, RDA, CCF, FRBR, Bibframe. Standards of bibliographic information interchange– ISO 2709 and the MARC family of Formats, MARC XML.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- MO2:** Explain the various principles of description (Understand)
- MO2:** Define the ISBDs, AACR-2, and RDA (Remember)
- MO2:** Articulate bibliographic record formats- ISO 2709 (Understand)
- MO2:** Identify MARC and MARC XML (Analyse)

**MODULE III: Subject Indexing**

Problems in subject search and retrieval; vocabulary control; Thesauri; General Theory of Subject Indexing Languages

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO3:** Explain the problems in subject search and retrieval (Understand)

**MO3:** Analyse vocabulary control (Analyse)

**MO3:** Develop Thesauri (Create)

**MO3:** Analyse and evaluate the General Theory of Subject Indexing proposed by G Bhattacharya (Analyse)

**MODULE IV: Indexing Systems**

Lists of Subject Headings; LCSH, Sear's list of subject heading, Chain Indexing, PRECIS, POPSI; Automatic Indexing; Natural language indexing. Centralised cataloguing and co-operative cataloguing

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO4:** List and explain various subject headings (Remember)

**MO4:** Articulate and exemplify various indexing methods (Understand)

**MODULE V: Metadata**

Types of metadata and their functions; metadata standards: Dublin Core, EAD

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO5:** Identify the types of metadata (Analyse)

**MO5:** Explain the Dublin Core and EAD (Understand)

**ACTIVITIES, LEARNING RESOURCES & ASSESSMENT****Suggested Class Room Activities:**

- Assignments
- Seminar Presentation on selected topics
- Tutorials

## LEARNING RESOURCES

### References

1. Aswal,R.S.(2004).MARC-21:Cataloguing format for 21<sup>st</sup> century.NewDelhi:EssEssPublications.
2. BowmanJ.H. (2003). Essential cataloguing. London: Facet Publishing.
3. Foulonneu,M. (2008). Metadata for Digital Resources. Oxford, UK: Chandos.
4. Girja Kumar and Krishan Kumar. (1983). Theory of cataloguing. Rev. Ed.5. NewDelhi: South Asia Books.
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8. Smiraglia,R.P.(2005). Metadata: A Cataloger's Primer. USA: Haworth.
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resourcesLibraryofCongressSubjectHeadings
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18. OCLC.(2002). Bibliographic formats and standards. 3rd ed. Dublin, Ohio: OCLC (Also  
availableonlineat<http://www.oclc.org/oclc/bib/toc.htm>)
19. Ranganathan,S.R. (1964).Classified Catalogue Code,etc.5thed.Bangalore: SRELS.
20. SearsListofSubjectHeadings

## ASSESSMENT

40% Continuous/ Formative Assessment (see PG Regulations). 60% End-semester/ Summative Assessment: 3hour written Exam.

<b>SEMESTER II</b>	<b>Course Code: LIS-CC-526</b>	<b>Credits: 3</b>
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**Name of the Course:**

**CATALOGUING AND METADATA (PRACTICAL)**

**Course Outcome:**

**CO1:** Familiarize with the practical awareness about cataloguing and metadata standards.

**CO2:** Impart skills in cataloguing documents using AACR II R and CCC..

**CO3:** Application of bibliographic description using MARC 21 format.

**COURSE CONTENT**

**MODULE I: Bibliographic Description**

Preparation of bibliographic description of books, periodical publications and E-resources as per ISBD and AACR2R. Coding of data elements in bibliographic description using MARC21 format.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO1:** Articulate and exemplify the preparation of bibliographic description of books, periodical publications and E-resources as per ISBD and AACR2R (Understand)

**MO1:** Analyse MARC21 format (Analyse)

**MODULE II: Access Points**

Choice and Rendering of access points for works of personal authorship, mixed responsibility, corporate publications, pseudonymous works and anonymous works for both Classified catalogue and Dictionary catalogues as per the rules in AACR2R. Formulation and rendering of subject access points using Chain Indexing for Classified Catalogue and Sears List of Subject Headings for a Dictionary Catalogue.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO2:** Identify the choice and rendering of access points in Classified Catalogue and Dictionary Catalogues as per the rules in AACR2R (Apply)

**MO2:** Identify the formulation of access points using various subject heading list (Apply)

**Records of Term Work:**

1. Sample catalogue (both Classified Catalogue and Dictionary Catalogue) of not less than 50 documents prepared in the card form.
2. MARC coded sheets for the above documents and their data base prepared in WINISIS
3. Metadata of 25 items prepared in DublinCore

**Module III: Cataloguing of non book materials**

Choice and Rendering of access points for works of Cartographic materials, films, CDs/DVDs.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

MO3: involve in cataloguing of non book materials: cartographic materials, films, CDs/DVDs (Analyse)

**ACTIVITIES, LEARNING RESOURCES & ASSESSMENT****Suggested Class Room Activities:**

- Assignments
- SeminarPresentation

**ASSESSMENT**

40% Continuous/ Formative Assessment (seePGRegulations). 60% End-semester/ Summative Assessment: 3hour written Exam.

**LEARNING RESOURCES****References**

1. Aswal, R. S. (2005). *AACR2R With MARC21: Cataloguing Practice for 21st Century* (Illustrated ed.). Es Ess Publications.
2. Chan, L. M. (2022). *Cataloging and Classification An Introduction*. Scarecrow Press.
3. Lazarinis, F. (2014). *Cataloguing and Classification: An introduction to AACR2, RDA, DDC, LCC, LCS and MARC 21 Standards* (1st ed.). Chandos Publishing.
4. Ranganathan, S. R. (1988). *Cataloguing Practice* (2nd ed.). Stosius Inc/Advent Books Division.
5. Ranganathan, Sr, & Neelameghan, A. (2006). *Classified Catalogue Code: With Additional Rules for Dictionary Catalogue Code*. EssEss Publications.
6. Welsh, A. (2012). *Practical Cataloguing: AACR, RDA and MARC 21* (1st ed.). Neal-Schuman Publishers. Inc.

<b>SEMESTER II</b>	<b>Course Code: LIS-DE-527</b>	<b>Credits: 3</b>
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**Name of the Course:**

**INTELLECTUAL PROPERTY RIGHTS**

**Course Outcome:**

**CO1:** Articulate and basic knowledge about Intellectual Property Rights including scope and international treaties.

**CO2:** Articulate basic Knowledge of IPR implied in digital environment.

### **COURSE CONTENT**

#### **Module I: Intellectual Property Rights**

Meaning, scope and significance; areas of application, significance in the present scenario

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO1:** Describe the Intellectual Property rights (Understand)

#### **Module II: International Treaties on IPR**

Berne Convention; Universal Copyright Convention; Stockholm Conference; Paris Conference; WIPO Copyright treaty; GATT; WTO and TRIPS agreement.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M02:** Explain the International treaties on IPR (Understand)

**M02:** Describe the Berne convention, Universal copyright Convention etc. (Understand)

#### **Module III: Different types of IPR**

Copyright law of India and its amendments: Patent law of India and amendments, Trademarks, Industrial design, Geographical indication, Traditional knowledge

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** Describe the different types of IPR (Understand)

## **Module IV: Management of IP**

IP policies, licensing, legal issues, commercialization of IPR, Emerging issues and challenges of IPR in internet age.

### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Explain the Management of IP (Understand)

**M04:** Analyse issues and challenges of IPR in internet age (Analyse)

## **Module V: Implications of IPR**

Protection of web-based content; Copyright and libraries; Copy left movement; Creative Commons; Plagiarism.

### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M05:** Explain the implication of IPR (Understand)

**M05:** Apply in the protection of web-based content (Apply)

**M05:** Describe the use of copyright law in libraries (Understand)

## **Project**

Evaluation of not less than 75 reference sources including electronic sources.

## **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

### **Suggested Class Room Activities:**

- Assignments
- SeminarPresentationonselectedtopics

## **LEARNING RESOURCES**

### **References**

1. Bainbridge, D.I. Intellectual Property Rights. 9<sup>th</sup> ed. New Delhi: Pearson Education Ltd. 2012
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11. Stim, Richard. Intellectual Property: Patents, Trademarks & copyright. 2nd ed. New Delhi: Cengage Learning

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12. Information related legislation - censorship (LIB). (2015). [video]. Retrieval from [https://www.youtube.com/watch?v=KiZxqNGu0JE&list=PL\\_a1TI5CC9RrFrCKQIXnnKljecsurKY1B-&index=6](https://www.youtube.com/watch?v=KiZxqNGu0JE&list=PL_a1TI5CC9RrFrCKQIXnnKljecsurKY1B-&index=6)
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17. Manual of patent practice and procedure the patent office, India. [Ebook]. Retrieved 29 July 2020, from [http://www.ipindia.nic.in/writereaddata/Portal/IPOGuidelinesManuals/1\\_59\\_1\\_15-wo-ga-34-china.pdf](http://www.ipindia.nic.in/writereaddata/Portal/IPOGuidelinesManuals/1_59_1_15-wo-ga-34-china.pdf).
18. What is Intellectual Property?. [pdf]. Retrieval from [https://www.wipo.int/edocs/pubdocs/en/intproperty/450/wipo\\_pub\\_450.pdf](https://www.wipo.int/edocs/pubdocs/en/intproperty/450/wipo_pub_450.pdf).

### ASSESSMENT

40% Continuous/Formative Assessment (see PG Regulations). 60% End-semester/ Summative Assessment: 3 hour written Exam.

<b>SEMESTER III</b>	<b>Course Code: LIS-CC-531</b>	<b>Credits: 3</b>
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**Name of the Course:**

**Research Methodology**

**Course Outcomes:**

**CO1:** Develop research skills in students

**CO2:** Familiarize the art and style of writing a research report

**CO3:** Acquaintance with intensive techniques and skills of research process

**COURSE CONTENT**

**Module I: Research**

Concept, meaning, need and process of research. Types of research: fundamental and applied including interdisciplinary and multidisciplinary approach; Research and development of scholarship.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M01:** Understand the concept, need and types of research (Understand)

**Module II: Research Design**

Conceptualization and operationalization; Types of research design; Identification and formulation of problem; Hypothesis; nominal and operational definition; Designing research proposal; Ethical aspects of research; Literature search: print, non-print and electronic sources; Literature Review.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M02:** Familiarize with research design (Understand)

**M02:** Analyse the types of research design (Analyze)

**M02:** Understand the ethical aspects of research (Understand)

**Module III: Research Methods**

Scientific method; Historical method; Descriptive method; Survey method and case study method; Experimental method and Delphi method; Brainstorming method.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** Familiarize with different research methods (Understand)

#### **Module IV: Research Techniques and Tools**

Observation; Questionnaire; Interview; Online research tools Scales and checklists; Library records and reports; Sampling techniques.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Evaluate the various tools used in data collection (Understand)

**M04:** Understand the sampling techniques (Understand)

#### **Module V: Research Reporting**

Structure, style, contents; Guidelines for research reporting ;Style manuals, e-citation, Reference Management software; Plagiarism, Softwares to check Plagiarism, Methods of research evaluation.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M05:** Evaluate the structure and guidelines for research reporting (Understand)

**M05:** Understand reference management software (Understand)

**M05:** Analyse different methods of research evaluation. (Analyze)

#### **Module VI: Recent Trends**

Current Trends in Library and Information Science Research.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M06:** Understand the Current Trends in Library and Information Science Research (Understand)

### **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

#### **Suggested Class Room Activities:**

- ☐ Assignments
- ☐ Seminar Presentation on selected topics

### **LEARNING RESOURCES**

#### **References**

1. Connaway,L.S.,& Powell, R.R.(2010).Basic research methods for librarians.ABC-CLIO.

2. Kothari,C.R.(2011).Research Methodology: Methods and Techniques. NewDelhi: NewAge International Publication.
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15. M-18 Basics of Research Methodology. (2015, December 16). <https://www.youtube.com/watch?v=UABF1zrW-eE&feature=youtu.be>
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### ASSESSMENT

40% Continuous/ Formative Assessment (see PG Regulations). 60% End-semester/Summative assessment: 3 hour written Exam.

<b>SEMESTER III</b>	<b>Course Code: LIS-CC-532</b>	<b>Credits: 3</b>
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**Name of the Course:**

**INFORMATION STORAGE AND RETRIEVAL**

**Course Outcome:**

- CO1:** The students would be able to understand the basics of DBMS (Database Management System)
- CO2:** The students would be able to understand the basic concepts, components and models of IR systems
- CO3:** The students would be able to practice searching, browsing and query formulation
- CO4:** The students would be able to understand methods for evaluating IR systems
- CO5:** The students would be able to describe information centres and networks
- CO6:** The students would be able to familiarise Modern trends and recent developments in Information Retrieval

## **COURSE CONTENT**

### **Module I: Database and DBMS**

Data, Database, Database Architecture, DBMS- Applications; Entities, Attributes, Relationships; ER Models- Hierarchical, Network, Relational, Object-Oriented; DBMS Softwares- MySQL

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

- M01:** Describe the basics of data and database (Understand)
- M01:** Explain the DBMS applications in particular field (Understand)
- M01:** Design ER Diagrams using the three basic concepts-Entities, Attributes, Relationships (Create)
- M01:** Create DBMS Models- Hierarchical, Network, Relational, Object-Oriented (Create)
- M01:** Examine DBMS Softwares- MySQL (Analyse)

### **Module II: Information Retrieval (IR)**

Basic Concepts and Components; Overview of IR systems; Classic IR Models: Boolean, Probabilistic and Vector Processing Models; Alternative Probabilistic Model: Bayesian network model; Structured Text Retrieval Models.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M02:** Describe the basic concepts and components of IR (Understand)

**M02:** Explain the overview of IR systems (Understand)

**M02:** Explain Classic IR Models like Boolean, Probabilistic and Vector Processing Models (Understand)

**M02:** Describe the Bayesian network model (Understand)

**M02:** Conduct a query by using Structured Text Retrieval Models (Apply)

### **Module III: Information Search**

Searching vs. Browsing; Search Strategy: Formulation of search strategy for online search; Models for Browsing: Flat browsing, Structure guided browsing and Hypertext browsing; Dynamic query formulations: Keyword based querying, Pattern matching, Structural queries; Query protocols, Hybrid, Statistical and knowledge approaches: Query expansion.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** Explain the difference between information searching and browsing (Understand)

**M03:** Formulate a search strategy for online search (Apply)

**M03:** Compare Models for Browsing (Analyse)

**M03:** Explain different Dynamic query formulations (Understand)

**M03:** Describe query protocols (Understand)

**M03:** Evaluate hybrid, statistical and knowledge approaches (Evaluate)

### **Module IV: Evaluation of Information System**

Evaluation of Information Systems: Need for evaluation; Evaluation Criteria; Evaluation Steps; Evaluation Projects: Cranfield, MEDLARS, STAIR, SMART and TREC.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Understand the evaluation of information systems (Understand)

**M04:** Understand the need for evaluation of information system (Understand)

**M04:** Evaluate information systems using some criteria (Analyse)

**M04:** Examine the steps for evaluation of information system (Analyse)

**M04:** Explain the evaluation projects like Aslib Cranfield, MEDLARS, STAIR, SMART and TREC (Understand)

### **Module V: Networks Systems in India**

Communication Networks in India: INDONET, VSNL, NICNET.

Library Networks in India:ADINET, BONET, CALIBNET, DELNET, INFLIBNET, MALIBNET, MYLIBNET, PUNENET.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

M05: Explain important Communication Networks of India (Understand)

M05:Describe some Indian Library Networks: ADINET, BONET, CALIBNET, DELNET, INFLIBNET, MALIBNET, MYLIBNET, PUNENET.(Understand)

**Module VI: Modern trends in Information Retrieval**

Modern trends in Information Retrieval; Recent developments in Information Retrieval

**Module Outcome:**

*After Completion of this module, the student should be able to:*

M06: Describe the modern trends in Information Retrieval (Understand)

M06: Explain the recent developments in Information Retrieval (Understand)

**ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

**Suggested Class Room Activities:**

- ☐ Assignments
- ☐ SeminarPresentationonselectedtopics
- ☐ Tutorials

**LEARNING RESOURCES**

**References**

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### **Online Resources**

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### **ASSESSMENT**

40% Continuous/ Formative Assessment (see PG Regulations). 60% End-semester/ Summative Assessment: 3 hour written Exam.

<b>SEMESTER III</b>	<b>Course Code: LIS-CC-533</b>	<b>Credits: 3</b>
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**Name of the Course:**

**INFORMATION TECHNOLOGY APPLICATION IN LIS (THEORY)**

**Course Outcomes:**

- CO1** Develop a thorough understanding of library automation, planning and  
: implementation, in-house operations, and library management software.
- CO2** Understand the fundamentals of telecommunication technology, modes, media, nature and  
: components of networking devices, computer network types and  
topologies.
- CO3** To help the students to understand the Internet connectivity, protocols, Internet,  
: search engines, web 2.0 and network security, Cloud Computing.

**COURSE CONTENT**

**Module I: Library Automation**

Planning and Implementation, Automation of in-house operations- file requirements for Acquisition, Cataloguing, Circulation Control, Serials Control, OPAC and Library Automation Packages: KOHA, E-Granthalaya. Institutional Repository software D-Space

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO1:** Evaluate the planning and implementation of library automation. (Understand)

**MO1:** Learn to use automation of in-house operations (Understand)

**MO1:** Evaluate Library Management Software (Evaluate)

**Module II: Communication Technology**

Fundamentals of Telecommunication Technology, Media, Mode and Components, Network Types and Topologies, Network Components

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO2:** Understand Fundamentals of telecommunication technology (Understand)

**MO2:** Awareness about Modes, Media, Nature and components of networking devices (Understand)

**MO2:** Achieve skill to analyze the Computer network types and topologies (Understand)

### **Module III: Internet**

Basic Features and Tools; Communication tools; Net Based Information Services, Connectivity; Protocols; Web Browser; Search Engines; Library Security and technology: Barcode, RFID, CCTV, Biometrics, Smartcard.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO3:** Understand the basic concepts Internet Connectivity (Understand)

**MO3:** Develop a thorough understanding in Internet Protocols, Search Engines and Web Browsers (Understand)

**MO3:** Acquire knowledge in Library Security and technologies (Understand)

### **Module IV: Web Tools**

Web 2.0 Tools and Services; Cloud Computing, Video Conferencing. Content enriching services: Blogs, Wikis, Social Community websites, Social networking tools, Semantic web, RSS feeds, Webcasts, Podcasts, Internet of Things (IoT).

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO4:** Develop a thorough understanding in Content enriching services (Understand)

**MO4:** Acquire knowledge in Web 2.0 (Understand)

**MO4:** Procure awareness in Cloud Computing (Understand)

### **Module V: Artificial intelligence and expert systems**

Artificial intelligence and expert systems – concepts, genesis and development of AI and ES- Application of AI and ES in library and information services. Hypertext, Hypermedia, Multimedia and File Formats, User Interfaces, Data Visualization.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO5:** Understand the basic concepts Artificial Intelligence in libraries (Understand)

**MO5:** Acquire knowledge in Expert Systems (Understand)

## **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

### **Suggested Class Room Activities:**

- ☐ Assignments
- ☐ SeminarPresentationonselectedtopics
- ☐ Demonstration

## **LEARNING RESOURCES**

### **References**

1. Achyut Godbole and Atul Kahate. Web Technologies: TCP/IP, Web/Java Programming, and Cloud Computing 3rd ed. New Delhi: McGraw Hill Education (India) Private Limited, 2014.
2. Arthur, Lowell Jay and Burns, Ted. Unix Shell Programming. New Delhi: Galgotia, 1995.
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10. Joiner, Ida. (2017). Emerging library technologies: It's not just for geeks. Oxford: Chandos Publishing.
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22. Hennig, N. (2017). Keeping up with emerging technologies: Best practices for information professionals. Santa Barbara, CA: Libraries Unlimited.
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## **ASSESSMENT**

40% Continuous/ Formative Assessment (see PG Regulations). 60% End-semester Summative Assessment: 3hour written Exam.

<b>SEMESTER III</b>	<b>Course Code: LIS-CC-534</b>	<b>Credits: 3</b>
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**Name of the Course:**

**INFORMATION TECHNOLOGY APPLICATION IN LIS (PRACTICAL)**

**Course Outcome:**

- CO1** Gain hands-on familiarity in searching for information from bibliographic database  
: management.
- CO2** Acquire skills for installation and customization Library Management Software  
: (LMS) – KOHA and Repository Software Package- Dspace.
- CO3** Achieve practical knowledge with the steps, methods and techniques involved in  
: designing websites
- CO4** Hands-on insight about the application of Reference Management Software  
:
- CO5** Searching information through several search engines and academic gateways using  
: search techniques and strategies.

### **COURSE CONTENT**

#### **Module I: Bibliographic Database Management and Searching**

WINISIS

WebOPAC, Worldcat, Indcat

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO1:** To conduct search bibliographic information using various search strategy (Apply)

#### **Module II: Library Automation Package**

KOHA – Integrated Library Management Software

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M02:** To install and customize Library Management Software (LMS) KOHA (Apply)

#### **Module III: Web Design**

Google sites

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** Designing website using various tools. (Apply)

**Module IV: Digital Library Software**

DSpace/ Greenstone

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** To install and customize digital library software (Apply)

**Module V: Reference Management Software**

Zotero, Mendley

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M05:** Handle various Reference Management Software (Apply)

**Module VI: Information Searching**

Search Engines: Chrome, Mozilla and Meta Search engines; Academic Gateways: e- ShodhSindhu, Shodhganga, Vidyamitra, e-PG Pathshala

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M06:** Searching through various search engines and academic gateways using search techniques and strategies. (Apply)

**ACTIVITIES, LEARNING RESOURCES & ASSESSMENT****Suggested Class Room Activities:**

- ☐ Assignments
- ☐ SeminarPresentationonselectedtopics
- ☐ Demonstration/Handsontraining

**LEARNING RESOURCES****References**

1. Adithya Tripathi, Prasad H. N & Rajan Mishra. Open Source Library Solutions. NewDelhi: Ess Ess Publications, 2010.

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9. Khalid K Faruqi.Online database searching and retrieval: Strategies, procedures, commands, and problems: A brief Guide Khalid K Faruqi. Bangalore: Sarada Ranganathan endowment1995
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12. Stefan Buttcher. Information Retrieval: Implementing and Evaluating Search Engines. England: The MIT Press 2010.

### **Online Resources**

13. Bhatnagar, A.(2005).Web-based library services.
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15. Kumari, N. I. S. H. A. (2016). Web-based services in library and information science. International Journal of Next Generation Library and Technologies, 2(1), 8.
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17. Digital Library Planning and Implementation. (2020, March 18). <https://www.youtube.com/watch?v=015urPL5Fxm&feature=youtu.be>
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### **ASSESSMENT**

40% Continuous/ Formative Assessment (see PG Regulations). 60% End-semester/ Summative Assessment: 3 hour written Exam.

<b>SEMESTER III</b>	<b>Course Code: LIS-CC-535</b>	<b>Credits: 2</b>
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**Name of the Course:**  
**INTERNSHIP**

<b>Duration</b>	<b>30 days</b>
<b>Period</b>	⋮ Preferably between Semester II and III
<b>Place</b>	⋮ Any Library and Information Centre approved by the Department
<b>Valuation</b>	⋮ Written Report in the prescribed format certified by the Head of the Library and Information Centre
<b>Prerequisite</b>	⋮ Attendance Certified by the Head of the LIC

<b>SEMESTER III</b>	<b>Course Code: LIS-DE-536</b>	<b>Credits: 3</b>
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**Name of the Course:**  
**STATISTICAL METHODS**

**Course Outcomes:**

- CO1** Articulate and exemplify various statistical methods in Library and Information  
: Science research.
- CO2** Familiarize various concepts in statistics  
:
- CO3** Application of various statistical tools and techniques for data analysis.  
:

## **COURSE CONTENT**

### **Module I: General Introduction**

Functions, applications and limitations of statistics, application of statistics in libraries and information centres

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

- MO1:** Describe the definition, functions and applications of statistics (Understand)  
**MO1:** Explain the limitations of statistics (Understand)

### **MODULE II: Collection of Data**

Collection of data: sampling techniques

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

- M02:** Articulate different sampling methods(Understand)  
**M02:** Articulate the data collection methods(Understand)

### **MODULE III: Summarization of Data**

Tabulation and graphical methods of presentation; Measures of central tendency: mean, median, mode  
Measures of variability: range, percentile, inter quartile range, variance, standard deviation, Measures of skewness and kurtosis

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** Explain the methods used for presentation of data (Understand)

**M03:** Articulate and exemplify different measures of central tendency (Understand)

**M03:** Compute arithmetic mean, geometric mean, harmonic mean, standard deviation and variance (Apply)

#### **MODULE IV: Data Analysis**

Probability and probability distribution, Normal distribution and Binomial distribution

##### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Articulate and exemplify basic concepts of probability (Understand)

**M04:** Evaluate the distribution of probability (Evaluate)

**M04:** Remember the Normal distribution and Binomial distribution (Remember)

#### **MODULE V: Testing of Hypotheses**

Regression, correlation and analysis of variance; Scaling techniques, Association of Variables, Chi Square Test, F Test, ANOVA

##### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M05:** Articulate the different statistical testing methods (Understand)

**M05:** Articulate the concept of regression (Understand)

**M05:** Describe the F/T/Chi Square test/ANOVA (Understand)

**M05:** Derive correlation, scaling techniques and association of variables (Apply)

#### **MODULE VI: Statistical Packages**

SPSS, IDAMS and other packages

##### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M06:** Examine different statistical packages (Analyse)

#### **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

##### **Suggested Class Room Activities:**

- ☐ Assignments
- ☐ SeminarPresentationonselectedtopics
- ☐ Demonstration/Handsontraining

## **LEARNING RESOURCES**

### **References**

1. Agarwal, B.L. (2009). Basic statistics. New Delhi: New Age International Publishers.
2. Gupta, C.B. and Gupta, V. (2014). An Introduction to statistical methods. New Delhi: Vikas Publishing House.
3. Gupta, K. R. (2012). Practical statistics. New Delhi: Atlantic Publishers.
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6. Hooda, R. P. (2005). Data collection and Sampling: Introduction to statistics
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## **ASSESSMENT**

40% Continuous/ Formative Assessment (see PG Regulations).  
60 % End-semester/Summative Assessment: 3 hour written Exam.

<b>SEMESTER IV</b>	<b>Course Code: LIS-CC-541</b>	<b>Credits: 3</b>
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**Name of the Course:**

**TECHNICAL COMMUNICATION**

**Course Outcome:**

**CO1:** Articulate and exemplify basic knowledge about technical writing, presentation of Information, and to familiarize students with various oral presentation skills.

### **COURSE CONTENT**

#### **Module I: Communication Process**

Types, Verbal, Non-verbal, Formal, Informal; Types of writing; Technical writing- Principles, characteristics; Language as a medium for communication, readability; Audience Research

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M01:** Explain different types of communication (Understand)

**M01:** Describe different types of writing (Understand)

**M01:** Explain the readability and audience research (Understand)

#### **Module II: Organization Lay out and Presentation of Information**

Learned papers and popular articles, Technical Reports and project proposals, Book design and page layout.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M02:** Design and develop the Organization, Lay out and Presentation of Information in Learned papers and popular articles (Create)

**M02:** Design and develop the Organization, Lay out and Presentation of Information in Technical Reports and project proposals (Create)

**M02:** Design and develop the Organization, Lay out and Presentation of Information in Book design and page layout (Create)

### **Module III: Repackaging and Consolidation**

Preparation of trend reports, reviews, State-of-the-art report, digest. Abstracts–Types, Preparation, Guidelines

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** Repackaging and consolidation of Information (Create)

**M03:** Analyse the products of repackaging and consolidation (Analyse)

**M03:** Prepare trend reports, reviews, state of the art report, digests and abstracts (Create)

### **Module IV: Mechanics of Writing**

Common problems in spelling, grammar, usage and punctuation

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Solve the common problems in spelling grammar usage and punctuations (Apply)

### **Module V: Style Manuals**

Use of Style manuals–Chicago, APA and MLA; Reference Management Software; Copy editing and proof reading.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M05:** Describe the style manuals and its uses (Understand)

**M05:** Apply this style manuals in dissertations, thesis etc (Apply)

### **Module VI: Oral Presentation Skills**

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M06:** Explain the oral presentation skill (Understand)

**M06:** Apply the oral presentation skill (Apply)

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## **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

### **Suggested Class Room Activities:**

- Assignments

- Seminar Presentation on selected topics

## LEARNING RESOURCES

### References

1. American Psychological Association. Publication manual of the American Psychological Association, 6<sup>th</sup> ed. Washington DC, The Author, 2010
2. Anderson, Paul V. Technical communication: A Reader centered approach, 6<sup>th</sup> ed. Australia: Cengage Learning, 2007.
3. Ashraf Rizvi, M. Effective technical communication. New Delhi: Tata McGraw Hill, 2011.
4. Chicago Manual of Style: For authors, editors and copywriters, 16<sup>th</sup> ed. New Delhi: PHI, 2010.
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6. Gerson, Sharon J. and Gerson, Steven M. Technical writing: Process and product. 3<sup>rd</sup> ed. New Delhi: Pearson Education, 2000.
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17. Using APA style for references and citations. [video]. retrievable from [https://www.youtube.com/watch?v=10eg\\_GB\\_A9E](https://www.youtube.com/watch?v=10eg_GB_A9E)

## ASSESSMENT

40% Continuous/ Formative Assessment (see PG Regulations).  
60% End-semester/ Summative Assessment: 3 hour written Exam.

<b>SEMESTER IV</b>	<b>Course Code: LIS-CC-542</b>	<b>Credits: 2</b>
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**Name of the Course:**  
**INFORMETRICS**

**Course Outcome:**

**CO1:** Concepts relating to bibliometrics and their applications

**CO2:** Familiarize with bibliometrics softwares

## **COURSE CONTENT**

### **Module I: Overview**

Concepts, Genesis, Definition, Librametry, Bibliometrics, Scientometrics, Informetrics, Webometrics

### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO1:** Describe the concept and definition of bibliometrics and related terms (Understand)

### **Module II: Sources for Informetric Data**

Web of Knowledge, Scopus, Google Scholar, Scimago, Indian Citation Index.

### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO2:** Analyse various databases for informetric data (Analyse)

### **Module III: Bibliometric Laws**

Laws of Bradford, Lotka, Zipf, Brooks, Vickery, Bookstein, Garfield, Price. Informetric models.

### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO3:** Explain various bibliometrics laws (Understand)

#### **Module IV: Bibliometric Applications**

Citation studies, Bibliographic coupling, co-citation analysis, citation index, Aging and Obsolescence.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M04:** Explain the concept of citation studies (Understand)

**M04:** Analyse the applications of citations such as bibliographic coupling co-citation etc. (Analyse)

#### **Module V: Cito-analytical Products**

Cito-analytical products–Journal ranking, Impact factor, Immediacy Index, Cited Half-life, H index.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M05:** Describe the citation count methods (Understand)

#### **MODULE VI: Bibliometric Softwares**

Detailed Study of Bibexcel, VOSViewer

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**M06:** Familiarize with Bibexcel software for bibliometrics analysis (Apply)

### **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

#### **Suggested Class Room Activities:**

- Assignments
- Seminar Presentation on selected topics

#### **LEARNING RESOURCES**

##### **References**

1. Egghe, L. C. J. (2000). Lectures on Informetrics and Scientometrics. Sarada Ranganathan Endowment for Library Science.
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### **Online Resource**

9. Bailón-Moreno, R., Jurado-Alameda, E., Ruiz-Baños, R., & Courtial, J. P. (2005).
10. Ball, R., & Tunger, D. (2006). *Bibliometric analysis—a new business area for information professionals in libraries? support for scientific research by perception and trend analysis*. *Scientometrics*, 66(3), 561–577.
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### **ASSESSMENT**

40% Continuous/ Formative Assessment (see PG Regulations).  
 60% End-semester/ Summative Assessment: 3 hour written Exam.

<b>SEMESTER IV</b>	<b>Course Code: LIS-CC-543</b>	<b>Credits: 2</b>
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**Name of the Course:**  
**DIGITAL LIBRARIES**

**Course Outcome:**

- CO1:** Articulate and exemplify the concept of digital library  
**CO2:** Familiarise with the process of digitisation.  
**CO3:** Awareness about types of digital library software.  
**CO4:** Understand the development of digital repositories.

## **COURSE CONTENT**

### **MODULE I: Digital Libraries**

Concept and definition; Historical Development of Digital Libraries.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- MO1:** Explain the concept of digital library (Understand)  
**MO1:** Evaluate the historical development of digital libraries (Evaluate)

### **MODULE II: Copyright in DL**

Copyright and license issues.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- MO2:** Describe the legal and rights issues in digital libraries (Understand)

### **MODULE III: Digitization Process**

Software, Hardware and best practices; Scanners and scanner types; OCR and OCR software.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- MO3:** Explain various technologies used in digitization process (Understand)

#### **MODULE IV: Technology for DLs**

Open source software; DSpace, GSDL: Features and comparative study of DSpace, E-prints and Fedora.

##### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO4:** Examine appropriate software for digital libraries (Analyse)

**MO4:** Compare the role of Dspace, E-prints and Fedora (Analyse)

#### **MODULE V: Standards, Protocols and Formats for DL**

Open Standards and File Formats, Harvesting Metadata, OAI-PMH and DL Interoperability; Data curation.

##### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO5:** Identify standards and file formats in DL (Understand)

**MO5:** Describe DL Interoperability (Understand)

#### **MODULE VI: Digital Library Architecture**

Grid architecture; Open URL integration; Digital Preservation: Persistent identifiers: DOI and CNRI Handles; Multilingual digital repositories and Cross-language information retrieval.

##### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO6:** Articulate different architectures used in DL (Understand)

#### **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

##### **Suggested Class Room Activities:**

- Assignments
- Seminar Presentation on selected topics

#### **LEARNING RESOURCES**

##### **References**

1. Andrews,J.(2010).Digital libraries.London:Ashgate.
2. Cornish,G.P.(1990).Copyright interpreting the law for libraries and archives. London: Library Association.

3. Dahl, Mark et al. (2006). Digital libraries: Integrating content and systems. London: Chandos.
4. Fenner, Audrey, ed. (2005). Managing digital resources in libraries. New York: Haworth.
5. Gopal, K. (2000). Digital libraries in electronic information era. New Delhi: Authors Press.
6. Lesk, Michael. (1996). Understanding digital libraries, 2<sup>nd</sup> ed. San Francisco: Morgan Kaufman.
7. Pitkin, G.M, ed. (1996). National electronic library: A guide to the future for library managers. London: Greenwood Press.
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9. William, Arms. (2005). Digital libraries. New Delhi: Anne.
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## **ASSESSMENT**

40% Continuous/ Formative Assessment (see PG Regulations).  
60% End-semester/ Summative Assessment: 3 hour written Exam.

<b>SEMESTER IV</b>	<b>Course Code: LIS-CC-544</b>	<b>Credits: 4</b>
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**Name of the Course:**

**DISSERTATION & VIVA-VOCE**

**AIM:**

The aim of the project is to develop skills in using research methods, techniques and tools.

**OBJECTIVES:**

Students have to carry out research on a topic approved by the Departmental Council, under the guidance of a faculty member and prepare a dissertation. Appropriate size of the dissertation shall be 100 typed pages in A4 size paper. The students should also appear for a viva-voce.

ANY SEMESTER (I – IV)	Course Code:LIS-GC-501	Credits: 2
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**Name of the Course:**

**TECHNICAL WRITING**

**Course Outcome:**

**CO1:** Gain knowledge about the Communication Process and different types of writing

**CO2:** Diagnose audience recognition and involvement.

**CO3:** Create layout and presentation of information.

**CO4:** Identify common problems spelling, grammar, usage and punctuation.

**CO5:** Gain awareness about style manuals, proofreading and reference management

## **COURSE CONTENT**

### **MODULE I: Communication Process**

Verbal and Non- Verbal communication; Different types of writing; Characteristics features of technical writing; Principles of technical writing; audience recognition and involvement; pre-writing, writing and rewriting.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO1:** Explain Verbal and Non-Verbal communication (Understand)

**MO1:** Describe the basic concepts and different types of writing (Understand)

**MO1:** Gain awareness about technical writing, its process, characteristic and principles (Understand)

**MO1:** Evaluate audience recognition and involvement (Evaluate)

### **Module II: Organization, layout and presentation of information in**

Learned Papers, Popular Articles, Technical reports, Project Proposals, Books.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M02:** Achieve familiarity in layout and structure of reports, articles, proposals, books etc. (Understand)

### **Module III: Mechanics of Writing**

Common problems in spelling, grammar, usage and punctuation; use of style manuals; copy editing; proof reading; reference management.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**M03:** To have broader introduction to mechanics of writing (Understand)

**M03:** Examine the various problems in spelling, grammar, usage and punctuation (Analyse)

**M03:** Use of style manuals (Apply)

**M03:** Describe copy editing; proof reading; reference management (Understand)

**ACTIVITIES, LEARNING RESOURCES & ASSESSMENT****Suggested Class Room Activities:**

- Assignments
- Seminar Presentation on selected topics

**LEARNING RESOURCES****References**

1. Anderson Paul V. Technical Communication: A Reader centered approach 6<sup>th</sup> ed. Australia: Cengage Learning 2007.
2. Ashraf Rizvi, M. Effective technical communication. New Delhi: Tata McGraw Hill, 2001.
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9. Sunil Gokhale. Essentials in technical communication. Mumbai: Himalaya Publishing House, 2004.
10. Devarajan, G (Dr.). "Technical Communication for Information Managers", New Delhi: ESS ESS Publications, 2012.
11. Sajitha Jayaprakash. "Technical Writing", Mumbai: Himalaya Publishing House, 2013.
12. Ashraf Rizvi, M. "Effective Technical Communication", New Delhi: Tata MC Graw Hill Education Private Limited, 2011.

**ASSESSMENT**

40% Continuous/ Formative Assessment (see PG Regulations).

60% End-semester/ Summative Assessment: 3 hour written Exam.

ANY SEMESTER (I – IV)	Course Code: LIS- GC-502	Credits: 2
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**Name of the Course:**  
**ELECTRONIC PUBLISHING**

**Course Outcome:**

- CO1:** The students would be able to understand the basics of Electronic Publishing
- CO2:** The students would be able to understand the types of e-publications
- CO3:** The students would be able to understand methods of Electronic Publishing
- CO4:** The students would be able to familiarise different agencies of Electronic Publishing
- CO5:** The students would be able to understand different aspects of Open Access Publishing
- CO6:** The students would be able to understand the copyright issues of e-publishing

**COURSE CONTENT**

**Module I: Basics of Electronic Publishing**

History of scholarly publishing; Types of e-publications; Migration of peer review journals from print to Web-based; Role of the Internet in access to scholarship; Digital publishing as a catalyst to interdisciplinary communication; Peer review process; Archival options for short and long term preservation; Software options for managing peer review publications.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- MO1:** Describe the history of scholarly publishing (Understand)
- MO1:** Define different types of electronic publications (Remember)
- MO1:** Compare the print and online journals (Analyse)
- MO1:** Explain the peer review process in e-publishing (Understand)
- MO1:** Describe the archival options for preservation (Understand)

**Module II: Stakeholders of Electronic Publishing**

Universities, research institutions, university presses, libraries and commercial publishers in scholarly communication; newspapers and the transformation of journalism. Open Access Publishing; Large scale digitization projects at the international level.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

- M02:** List out different agencies of Electronic Publishing (Remember)  
**M02:** Evaluate the transformation of journalism (Evaluate)  
**M02:** Examine the opportunities of Open Access Publishing (Analyse)  
**M02:** Describe the Open Access Movements in the world (Understand)

### **Module III: Economics of Scholarly Publishing**

Economics of digital publishing- different models; funding agencies; Copyright: The rights of publishers, authors, and readers; Protecting copyright vs. Creative Commons, copyleft.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

- M03:** Examine the economic factors of e-publishing (Analyse)  
**M03:** Describe the copyright issues of scholarly publishing (Understand)  
**M03:** Compare the copyright and copyleft movement (Analyse)  
**M03:** Explain the Creative Commons (CC) (Understand)

### **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

#### **Suggested Class Room Activities:**

- Assignments
- SeminarPresentationonselectedtopics
- Tutorials

### **LEARNING RESOURCES**

#### **References**

1. Aliprandi,S.(2011).Creative Commons: Auserguide.Italy:Ledizioni.
2. Burke,P.S.(2013).E Publishing with In Design CS6: Design and produce digital publications forttablets,ereaders, smart phones, and more. Indian apolis,Ind: Wiley.
3. Eger, T., & Scheufen, M. (2018). Economics of open access: On the future ofacademic publishing.Cheltenham:EdwardElgar.
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### **On-line Sources**

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13. <https://quod.lib.umich.edu/j/jep/3336451.0001.1111?view=text;rgn=main>
14. <https://www.scielo.br/pdf/ci/v35n2/a06v35n2.pdf>
15. [http://cscs.scu.edu/trends/v26/v26\\_n3.pdf](http://cscs.scu.edu/trends/v26/v26_n3.pdf)
16. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6624418/>
17. [https://www.researchgate.net/publication/306118962\\_Present\\_Scenario\\_of\\_Open\\_Access\\_Publishing\\_in\\_India](https://www.researchgate.net/publication/306118962_Present_Scenario_of_Open_Access_Publishing_in_India)

### **ASSESSMENT**

40% Continuous/ Formative Assessment (see PG Regulations). 60%End-semester/ Summative Assessment: 3 hour written Exam.

ANY SEMESTER (I – IV)	Course Code: LIS- GC-503	Credits: 2
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**Name of the Course:**

**ELECTRONIC RECORDS MANAGEMENT**

**Course Outcome:**

**CO1:** Understand the electronic record keeping techniques

**CO2:** Capture electronic records and identify the preservation of electronic documents

**CO3:** Illuminate the concept of various information systems

**COURSE CONTENT**

**Module I: Management of Electronic Records –1**

Types of electronic data; Developing Record keeping Requirements - Identifying and Measuring Evidence, Risk, and User Needs.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO1:** Understand the different types of electronic data (Understand)

**MO1:** Identify the user needs (Understand)

**MO1:** Analyse the risk in keeping and using electronic data (Analyse)

**Module II: Management of Electronic Records –2**

Identifying and Capturing Electronic Records; Description and the Role of Metadata; Appraisal and Custody of Electronic Records; Long-Term Preservation.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO2:** Capture electronic data (Understand)

**MO2:** Analyse the appraisal and custody of electronic data (Analyse)

**MO2:** Understand the long time preservation of electronic records (Understand)

**Module III: Data and Information Systems**

Types of Systems and Design Features: Transaction Processing Systems and Decision Support Systems; Enterprise Content Management Systems and Cloud Computing; Institutional Repositories; E-Mail and Web Management Systems, SocialMedia.

Laws, Regulations relating to electronic records management – Compliance and Auditing.

**Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO3:** Analyse Transaction Processing Systems and its features (Analyse)

**MO3:** Evaluate Decision Support Systems (Evaluate)

**MO3:** Remember Institutional Repositories (Remember)

**MO2:** Understand the laws and regulations in electronic records management (Understand)

**ACTIVITIES, LEARNING RESOURCES & ASSESSMENT****Suggested Class Room Activities:**

- Assignments
- Seminar Presentation on selected topics

**LEARNING RESOURCES****References**

1. Bonczek, R.H., Holsapple, C.W., & Whinston, A.B. (2014). Foundations of decision support systems. Academic Press.
2. Harvey, D.R. (2008). Preserving digital materials. Walter de Gruyter.
3. Smith, K. (2007). Planning and implementing electronic records management: a practical guide. Facet Publishing.
4. Sprague, R.H., & Watson, H.J. (Eds.). (1986). Decision support systems: putting theory into practice. Englewood Cliffs, NJ: Prentice-Hall.
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15. Wallace, D.A. (1993). Metadata and the archival management of electronic records: A review. *Archivaria*, 36.

## **ASSESSMENT**

40% Continuous/ Formative Assessment (see PG Regulations). 60% End semester/ Summative Assessment: 3 hour written Exam.

ANY SEMESTER (I – IV)	Course Code: LIS- GC-504	Credits: 2
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**Name of the Course:**

**KNOWLEDGE MANAGEMENT**

**Course Outcomes:**

**CO1:** Articulate and exemplify basic knowledge about knowledge Management

**CO2:** Enunciating the concepts of KM Systems, Knowledge architecture etc

**CO3:** Express effectively about Knowledge Management tools and portals

**CO4:** Articulate basic knowledge about Knowledge capturing, Codification, transferring and Sharing

## **COURSE CONTENT**

### **Module I: Knowledge Management Basics**

Definition; Need; Data, Information, Knowledge; Types of knowledge; KM Systems; Knowledge creation and knowledge architecture – Nonaka's model.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO1:** Understand the basic concept of Knowledge Management (Understand)

**MO1:** Understand about the knowledge Management systems (Understand)

**MO1:** Remember the Knowledge creation and Knowledge architecture (Remember)

### **Module II: Knowledge Capture, Codification, Transfer and Sharing**

Capturing tacit knowledge–methods; Knowledge codification– tools and procedures; Knowledge testing; Knowledge transfer.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO2:** Understand the about Knowledge capturing (Understand)

**MO2:** Understand about the tools and procedures used in knowledge codification. (Understand)

**MO2:** Remember the concept of Knowledge testing and knowledge transfer (Remember)

### **Module III: Knowledge Management System Tools and Portals**

Data visualization; Data mining; Managing knowledge workers. Knowledge Management in the field of Library and Information Centres.

#### **Module Outcome:**

*After Completion of this module, the student should be able to:*

**MO3:** Understand about Data mining, data Visualising (Understand)

**MO3:** Understand about Managing of knowledge workers. (Understand)

**MO3:** Application of Knowledge Management in the field of Library and Information Centres (Remember)

### **ACTIVITIES, LEARNING RESOURCES & ASSESSMENT**

#### **Suggested Class Room Activities:**

- Assignments
- Seminar Presentation on selected topics

### **LEARNING RESOURCES**

#### **References**

1. Alavi, M., & Leidner, D.E. Review: Knowledge management and knowledge management systems: Conceptual foundations and research issues. *MIS Quarterly*, 25(1), 107-136, 2001
2. Ambarish Gupta. Application of knowledge management in digital era. New Delhi: Centrum Press, 2015.
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15. McInerney, Claire, and Koenig, Michael E. D., Knowledge Management (KM) Processes in Organizations: Theoretical Foundations and Practice, Morgan and Claypool, 2011
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### **ASSESSMENT**

- 40% Continuous/ Formative Assessment (see PG Regulations).
- 60% End-semester/ Summative Assessment: 3 hour written Exam.