Annamalai University

Department of Library and Information Science
M.Lib.I.Sc (Five Year Integrated) Programme
Programme Code: ALIS51

Common to all Department of Studies in the Faculty of Arts

English, History, Political Science, Economics, Sociology, Commerce, Population Studies, Business Administration, Library and Information Science and Philosophy

Master's Programme

A Master's Programme consists of a number of courses, in M.Lib.I.Sc. A Master's programme consists of a set of compulsory courses and Language Papers. The entire course carries credit system. The number and distribution of credits for the courses will be decided by the respective faculties. A course year is divided into two semesters. Odd semester and even semester. The normal semester periods are:

Odd Semester: July to November [90 working days]
Even Semester: December to April [90 working days]

Credits

The term credit is used to describe the quantum of syllabus for various programme in term and hours of study. In indicates differential weightage given according to the contents and duration of the courses in the curriculum design.

The minimum credit requirement for a five years Master's Programme shall be 230.

Courses

Each course may consist of Lectures / Tutorials / Laboratory work / Seminar / Project work / Practical training Report / Viva voce etc. Normally, in each of the courses, credits will be assigned on the basis of the Lectures / Tutorials / Laboratory work and other form of learning in a 15 week schedule.

Eligibility for Admission

A candidate who has passed the higher secondary class [10+2]

Grading System

The term grading system indicates a 10 point scale of evaluation of the performance of students in terms of marks, grade points, letter grade and class.

Duration

The duration for completion of a five years Master's programme in any subject is ten semesters, but in any case not more than eight years from the year of admission.

For the students of the 5 year P.G (Integrated) Programmes at the end of the five years, on successful completion of all courses, every student would earn both U.G. degree and P.G. degree in the respective Programmes. Students who complete successfully all courses within the first six semesters may be awarded class divisions based on their performance. Students who do not complete successfully all the courses within six semesters shall be awarded a U.G. (B.Sc Information Studies) degree at the end of the fifth year on successful completion of all courses, and they shall earn their P.G. (M.Lib.I.Sc) degree also. However such students shall not be considered for class divisions for the B.Sc degree.

Attendance

Every teaching faculty handling a course shall be responsible for the maintenance of attendance register for candidates who have registered for the course.

The instructor of the course must intimate the head of the department at least seven calendar days before the last instruction day in the semester about the particulars of all students who have secured an attendance of less than 80%.

A candidate who has attendance less than 80% shall not be permitted to sit for the End-Semester examination in the course in which the shortage exists.

However, it shall be open to the authorities to grant exemption to a candidate who has failed to obtain the prescribed 80% attendance for valid reasons on payment of a condonation fee and such exemptions should not under any circumstances be granted for attendance below 75%.

Examination

There will be two internal assessments and one end – semester examination during each semester. Internal assessment-I will be held after 35 working days and Internal Assessment – II will be held after 70 working days.

Internal assessment-I will be a combination of a variety of tools such as class test, assignment and paper presentation that would be suitable to the course. This requires an element of openness. The students are to be informed in advance about the nature of assessment and the procedures. However, the tests are compulsory, Test-I may be for one hour duration. The pattern of question paper will be decided to the respective faculty. Internal assessment I will carry 10% of marks of the entire course.

Internal assessment-II will be held after 70 working days for the syllabi covered between seventh and eleventh weeks. Internal Assessment –II will be conducted with a variety of assessment tools. It will also have an element of openness. The students are to be informed in advance about the nature of assessment and the procedures. However, the test is compulsory. Test II may be for two hours duration. The pattern of question paper will be decided by the respective faculty. Internal assessment II will carry 10% of marks of the entire course.

There will be one End semester examination of 3 hours' duration in each course. The end semester examination will cover all the syllabus of the course for 75% of marks.

Evaluation

Evaluation will be done on a continuous basis. Evaluation may be by Objective Type Questions, Quiz, Short Answers, Essays or a combination of these, but at the End Semester it has to be a written examination.

The performance of students in each course is evaluated in terms of percentage of marks [PM] with a provision for conversion to Grade Point [GP]. The sum total performance in each semester will be rated by GPA while the continuous performance from the 2nd semester onwards will be marked by [OGPA]

Marks and Grading

A student cannot repeat the Internal Assessment I and II. However, if for any compulsive reason the student could not attend the test, the prerogative of arranging a special test lies with the teacher in consultation with the head of the department.

A minimum of 50% marks in each course is prescribed for a pass. A student has to secure 50% minimum in the End Semester Examination.

If a candidate who has not secured a minimum of 50% of marks in a course shall be deemed to have failed in that course.

A student can repeat the End Semester Examination when it is offered next in the subsequent Odd / Even semesters till the regulation are in force. However, a candidate cannot move to the next semester if he / she has more than six papers as arrears at any point of time.

A candidate who has secured a minimum of 50 marks in all courses prescribed in the programme and earned a minimum of the credits will be considered to have passed the Master's Programme.

Grading

A ten point rating is used for the evaluation of the performance of the student to provide letter grade for each course and overall grade for the Master's Programme.

Marks	Grade Points	Letter Grade	Class
90+	10	S	Exemplary
85-89	9.0	D++	Distinction
80-84	8.5	D+	Distinction
75-79	8.0	D	Distinction
70-74	7.5	A++	First Class
65-69	7.0	A+	First Class
60-64	6.5	A	First Class
55-59	6.0	B	Second Class
50-54	5.5	C	Second Class
49 or less		RA	Reappear

The successful candidates are classified as follows.

I Class 50-59% marks in over all percentage of marks.

Candidates who obtained 75% and above but below 90% of marks [OPM] shall be deemed to have passed the examination I First Class [Distinction] provided he / she passes all the course prescribed for the programme at the first appearance.

Candidates who obtain 90% and above [OPM] shall be deemed to have passed the examination in First Class [Exemplary] proved he / she passes all the courses prescribed for the programme at the first appearance.

For the internal assessment evaluation the break up marks shall be as follows.

Test	:	10 Marks
Assignment	:	05 Marks
Case Study/ Seminar/Short Answer etc	:	05 Marks
Attendance	:	05 Marks

        90 and above - 5 Marks
        80-89   - 4 Marks
        70-79   - 3 Marks

Total   **:**   **25 Marks**

Course Wise Letter Grades:

The percentage of marks obtained by a candidate in a course will be indicated in a letter grade.

A student is considered to have completed a course successfully and earned the credits if he / she secures overall grade other than F. A letter grade F in any course implies a failure in that

course. A course successfully completed cannot be repeated for the purpose of improving the grade point.

The F Grade once awarded stays in the grade card of the student and is not deleted even when he / she completes the course successfully later. The grade acquired later by the student will be indicated in the grade sheet of the Odd / Even semester in which the candidate has appeared for clearance of the arrears.

If a student secures F grade in the Project Work / Field Work / Practical Work / Dissertation, either he / she shall improve it and resubmit it if it involves only rewriting incorporating the clarification of the evaluators or he / she can re-register and carry out the same in the subsequent semesters for evaluation.

COURSE DETAILS
TOTAL – CREDITS

Course	Total Number	Credit Point
Core	42	176
Ancillary	4	12
Elective	6	18
Language	8	24
Total	**63**	**230**

Programme Structure
(For students admitted from the academic year 2019-2020)

Course Code	Course Title	L	P	C	CIA	ESE	Total
Semester-I						
19ITAC11	**Language-I: Course 1 - Tamil**			3	25	75	100
19IENC12	**Language–II: Course 1 - English**			3	25	75	100
19LISIC13	Core 1: Foundations to Library and Information Science			4	25	75	100
19LISIC14	Core 2: Knowledge Organization			4	25	75	100
19LISIC15	Core 3: Environmental Studies			3			
	Ancillary-I: Prinicples of Sociology			3	40	60	100
	Total Credits			**20**			
Semester-II						
19ITAC21	**Language-I: Course 2 - Tamil**			3	25	75	100
19IENC22	**Language– II: Course 2 - English**			3	25	75	100
19LISIC23	Core 4: Management of Library and Information Centres			4	25	75	100
19LISIC24	Core 5: Information Retrieval Tools (Cataloguing Theory)			4	25	75	100
19LISIC25	Core 6: Information Processing Theory (Classification)			4	40	60	100
	Ancillary-2: Princiles of Management			3	25	75	100
	Total Credits			21			
Semester-III						
19ITAC31	**Language-I: Course 3 - Tamil**			3	25	75	100
19IENC32	**Language–II: Course 3 - English**			3	25	75	100
19LISIC33	Core 7: Archives and Manuscripts			4	25	75	100
19LISIC34	Core 8: Information and Communication			4	40	60	100
19LISIC35	Core 9: Colon Classification – (Written Practical)			4			

Code	Course						
19LISIC36	Core 10: Computer and Its Applications			3			
	Ancillary- 3: Introduction to Tourism			3	40	60	100
				24			
Semester-IV							
19ITAC41	**Language–I: Course 4 - Tamil**			3	25	75	100
19IENC42	**Language–II: Course 4 - English**			3	25	75	100
19LISIC43	Core 11: Information Retrieval Theory (Cataloguing)			4	25	75	100
19LISIC44	Core 12: Information Sources			4	40	60	100
19LISIC45	Core 13: Classified Catalogue Code – (Written Practical)			4	25	75	100
19LISIC46	Core 14: Intellectual Property Rights and Right to Information			4			
	Ancillary -4: Tourism and Development			3	40	60	100
	Total Credits			25			
Semester-V							
19LISIC51	Core 15: Information Services			4	25	75	100
19LISIC52	Core 16: Library and Information Systems Management			4	25	75	100
19LISIC53	Core 17: Dewey Decimal Classification – (Written Practical)			4	25	75	100
19LISIC54	Core 18: Database Management System			4	25	75	100
19LISIC55	Core 19: Public Library System			4	40	60	100
19LISIC56	Core 20: Anglo American Cataloguing Rules – II (Written Practical) 2nd Edition (Books & Periodicals)			4			
	Total Credits			**24**			
19LISIC61	Core 21: National Information System			4	25	75	100
19LISIC62	Core 22: Research Methodology			4	25	75	100
19LISIC63	Core 23: Academic Library System			4	25	75	100
19LISIC64	Core 24: Computer Networks			4	25	75	100
19LISIC65	Core 25: Library Software: Greenstone and SOUL (Theory and Practice)			4	40	60	100
19LISIC66	Core 26: Value Education			3			
	Total Credits			**23**			
Semester-VII							
19LISIC71	Core 27: International Information System			4	25	75	100
19LISIC72	Core 28: Application of Statistical Tools in Research			4	25	75	100
19LISIC73	Core 29: Universal Decimal Classification – (Written Practical) (Abridged Edition)			5	25	75	100
19LISIC74	Core 30: UNESCO'S ISIS – (Theory and Practical)			4	40	60	100
	Elective 1: Department Elective			3	25	75	100
	Total Credits			**20**			
Semester-VIII							
19LISIC81	Core 31: Anglo American Cataloguing Rules – II (Written Practical) (Non-book Materials)			5	25	75	100
19LISIC82	Core 32: Bibliometrics			5	25	75	100
19LISIC83	Core 33: Database Creation and Design (Practical)			5	25	75	100
19LISIC84	Core 34: Corporate Libraries			4	40	60	100
	Elective 2: Department Elective			3	25	75	100
	Elective 3: Interdepartmental Elective			3	25	75	100
	Total Credits			**25**			
Semester-IX							
19LISIC91	Core 35: Marketing of Information			5	25	75	100
19LISIC92	Core 36: Knowledge Management			5	25	75	100

19LISIC93	Core 37: Information Technology Infrastructure in Libraries			4	25	75	100
19LISIC94	Core 38: Internship Training Programme / Field Visit			5	25	75	100
	Elective 4: Department Elective			3	25	75	100
	Elective 5: Interdepartmental Elective			3	25	75	100
	Total Credits			**25**			
	Semester-X						
19LISIC101	Core 39: Web Designing and Web Hosting			5	25	75	100
19LISIC102	Core 40: Digital Libraries			5	25	75	100
19LISIC103	Core 41: Technical Writing			5	25	75	100
	Elective 6: Department Elective			3			
19LISIC105	Core 42: Project Work / In-plant training			5	25	75	100
	Total Credits			23			
	Semesters I to X Total Credits			**230**	1475	4425	5900

L- Lectures; P- Practical; C- Credits; CIA- Continuous Internal Assessment; ESE- End-Semester

Elective Courses

Department Elective (DE)

S. No	Course Code	Course Title	hours/ week		C	Marks		
			L	P		CIA	ESE	Total
1.	19LISIE75.1	Information Literacy	3	0	3	25	75	100
2.	19LISIE75.2	Health Sciences Library and Information System.	3	0	3	25	75	100
3.	19LISIE85.1	Green Library Technology	3	0	3	25	75	100
4.	19LISIE85.2	E-Publishing	3	0	3	25	75	100
5.	19LISIE95.1	Computerized Database and Internet	3	0	3	25	75	100
6.	19LISIE95.2	Electronic Resources Management	3	0	3	25	75	100
7.	19LISIE104.1	Agricultural Sciences Library and Information System	3	0	3	25	75	100
8.	19LISIE104.2	Engineering and Technological Library and Information System	3	0	3	25	75	100

Interdepartmental Electives (IDE)

S. No.	Course Code	Course Title	Department	Hours/ week		C	Marks		
				L	P		CIA	ESE	Total
1.	19 SOSE 115.1	Soft Skills	English	3	0	3	25	75	100
2.	19 MATE 215.1	Discrete Mathematics		3	0	3	25	75	100
3.	19 MATE 215.2	Numerical Methods	Mathematics	3	0	3	25	75	100
4.	19 MATE 315.1	Differential Equations		3	0	3	25	75	100
5.	19 STSE 215.1	Statistical Methods	Statistics	3	0	3	25	75	100

S. No.	Course Code	Course Title	Department	L	P	C	CIA	ESE	Total
6.	19 STSE 215.2	Mathematical Statistics		3	0	3	25	75	100
7.	19 STSE 315.1	Bio-Statistics		3	0	3	25	75	100
8.	19 PHYE 215.1	Classical Mechanics and Special Theory of Relativity	Physics	3	0	3	25	75	100
9.	19 PHYE 215.2	Physics of the Earth		3	0	3	25	75	100
10.	19 PHYE 315.1	Bio-Medical Instrumentation		3	0	3	25	75	100
11.	19 PHYE 315.2	Energy Physics		3	0	3	25	75	100
12	19 CHEE 215.1	Applied Chemistry	Chemistry	3	0	3	25	75	100
13	19 CHEE 315.1	Basic Chemistry		3	0	3	25	75	100
14	19 CHEE 315.2	Instrumental Methods of Analysis		3	0	3	25	75	
15	19 BOTE 215.1	Plant Tissue Culture	Botany	3	0	3	25	75	100
16	19 BOTE 215.2	Plant Science – I		3	0	3	25	75	100
17	19 BOTE 315.1	Gardening and Horticulture		3	0	3	25	75	100
18	19 BOTE 315.2	Plant Science – II		3	0	3	25	75	100
19	19 ZOOE 215.1	Animal Culture Techniques	Zoology	3	0	3	25	75	100
20	19 ZOOE 315.1	Environmental Science		3	0	3	25	75	100
21	19 GEOE 215.1	Environmental Geosciences	Earth Sciences	3	0	3	25	75	100
22	19 GEOE 315.1	Applied Geophysics		3	0	3	25	75	100
23	19 MIBE 315.1	Microbiology	Microbiology	3	0	3	25	75	100
24.	19 CISE 215.1	R Programming	Computer & Information Science	3	0	3	25	75	100

Electives Offered to Other Departments

S. No.	Course Code	Course Title	Hours /week		C	Marks		
			L	P		CIA	ESE	Total
1.	19LISIE86.1	Documentary and Electronic Information Sources	3	0	3	25	75	100
2.	19LISIE86.2	Electronic Resources Management System	3	0	3	25	75	100
3.	19LISIE96.1	Intellectual Property Rights and Right to Information	3	0	3	25	75	100
4.	19LISIE96.2	Web Based Information Service	3	0	3	25	75	100

M.Lib.I.Sc [5 Year Integrated]

Programme Outcomes:

PO1: To educate professionals capable of taking effective approaches to understand issues in Library and Information Science and related fields

PO2: To educate professionals who are prepared to lead in the discipline and profession with committed to lifelong learning

PO3: To educate professionals capable of relating the practices and roles of individual librarians and information professionals to broader organizational, professional, political, economic, social and technological needs.

PO4: To prepare graduates to select, evaluate, and use current and emerging information and communication technologies in constantly changing information workplaces on par with current and future global needs.

PO5: To educate professionals who are confident in their knowledge of various areas, specializations in LIS practice, scholarship and able to communicate this knowledge effectively in formal and informal settings, across media, to a variety of audiences.

PO6: To educate librarians and information professionals who are capable of criticlly applying and evaluating LIS competencies consistent with values, standards, ethics, and practices of progressive information services for the public good.

Programme Specific Outcomes

At the end of the programme, the student will be able to

PSO1: Apply foundational concepts, theories, and principles to problems of information organization, design and access information services and discover information resources

PSO2: Evaluate and apply information technologies

PSO3: Analyze and apply knowledge about information needs and perspectives of indigenous cultures and/or diverse communities

PSO4: Demonstrate skills necessary to manage and work effectively within information organizations

PSO5: Use evidence to help address information problems, meet information needs, and create relationships in their institutions, communities, profession, and the world in the digital scenario

PSO6: Apply core ethical principles to professional practice.

| Semester- I to IV | **Language 1 : Course 1 to Course 4** | **Credits: 3** |
| | **Refer concerned Language-1 department syllabus** | **Hours:** |

| Semester- I to IV | **Language 2 : Course 1 to Course 4** | **Credits: 3** |
| | **Refer concerned Language-2 department syllabus** | **Hours:** |

| **Semester-I** | **19LISIC13 : Foundations to Library and Information Science** | **Credits: 4** **Hours:** |

Learning Objectives:

LO1:   To study the evolution of library and information centers.
LO2:   To understand the library legislation and associations.

UNIT I: Library as Information Centre

Social and Historical foundation of libraries in India - Role of Library & Information Centres in Modern Society - Five laws of library Science & their implication.

UNIT II: Library Legislation

Library Movement & Development of Libraries in India - Library Legislation and a model public library act - Comparative study of library legislation in different states of India – Tamil Nadu, Andhra Pradesh, Karnataka and Kerala.

UNIT III: Type of Libraries and their Functions

Academic Libraries - Public Libraries - Special Libraries and their functions, activities and Services.

UNIT IV: Library Associations and International Bodies

Role of professional Association : Library association in India : IASLIC – ILA –IATLIS – DLA – MALA. CILIP – ALA – FID – IFLA.

UNIT V: User Education and Information Literacy Programme

User Education: Definition, Needs and Importance – Types - Library and Information science Education in India. Information Literacy: Concepts, Meaning and Definition, Types and Models of Information Literacy.

Text Books:

1.   Khanna, J.K Library and society. New Delhi: Ess Ess publications, ed2. 2001.
2.   Sharma Pandey,S.K. library and society, New Delhi: Ess Ess publications ed.2,1992.

Supplementary Readings:

1.   Ranganathan, S.R. Five Laws of Library Science, Delhi:Vikas publications, 1957.
2.   Michael buckland, Information and society.Cambridge:MIT Press. 2017.
3.   Mittal,R.C. Public Law, New Delhi: Ess Ess publications.1971.

4. www.swayam.gov.in

Course outcomes

At the end of the course the students able to

CO1: evaluate the library and information centers
CO2: understand library movement , development and legislation
CO3: know functions and activities of academic , public and special libraries
CO4: perceive knowledge on library association and international bodies
CO5: conceive knowledge about user education and information literacy

Outcome Mapping

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-I	**19LISIC14 : Knowledge Organization**	**Credits: 4** **Hours:**

Learning Objectives:

LO1:   To study the structure, features and modes of formation of subjects.
LO2:   To understand the concept and study of subjects.
LO3:   To study the different schemes of library classifications.

UNIT I: Universe of Knowledge

Universe of knowledge- structure- features Development of Universe of Subjects - Knowledge, subject and document classifications – need and purpose.

UNIT II: Concepts and Study of Subjects

Knowledge versus Subjects - Modes of Formation of subject - Types of Subjects

UNIT III: Knowledge Representation

Subject and concepts representation - Natural and Artificial Languages -Notation-Types, features.

UNIT IV: An **Overview of Classification Schemes**

Colon Classification, Dewey Decimal Classification, Universal Decimal Classification (CC, DDC, UDC)

UNIT V: **Book Classification**

Construction of Call Number as per CC, DDC, UDC schemes - Different types of Book Number.

Course outcomes:

At the end of the course the students able to

CO1: know universe of knowledge, need and purpose of document classification
CO2: understand various types of subjects and modes of formation of subjects
CO3: perceive knowledge on natural and artificial languages
CO4: conceive information about overview of classification schemes CC,DDC, UDC
 CO5: understand how to construct call number and book number by using CC,DDC,UDC

Text Books

1. Kumar, Krishna and Girjia Kumar. Theory of Classification. New Delhi: VIKAS Publication, 1982
2. Mishra, J.K. Knowledge Management: Complexity, Learning and Sustainable Innovation.New York: Springer, 2009.
3. Kumar, P.S.G. Knowledge Organization, Information Processing and Retrieval, Delhi, B.R. Publisher, 2003

Supplementary Readings

1. Ranganathan, S.R. Prolegomena to Library Classification, 1976
2. Nikery, B.C. Faceted Classification's Guide to the Construction and use of special schemes, 1970
3. Sehal, R.L. Classification: Theory and Practice, 2001
4. Krishnan. Theory of Classification, 2001
5. www.swayam.gov.in

Outcome Mapping

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-I	**19LISIC15: Environmental Studies**	**Credits: 3** **Hours:**

Learning objectives

LO1: To make the student understand the environmental system and eco systems
LO2: To make the student understand about the resource depletion and global climate change

Unit: 1 The Environmental System

The Services Provided by the Environmental System Ecosystems: Food Chains, Food Webs, Ecological Pyramids Biochemical Cycles: Hydrological Cycle, Carbon Cycle

Unit: II Environmental Damage – Pollution

Source and impact of Air Pollution, Water Pollution, Land Pollution, Municipal Solid waste, Noise Pollution

Unit: III Resource Depletion

Importance of Forests: Causes and Consequences of Deforestation Bio Diversity: Meaning and Importance Reasons and Consequences of Biodiversity Decline Consequences of Overdrawing Water Resources

Unit: IV Global Climate Change

The Science of Climate Change. The Green House Effect - Sources and Impact of Climate Change - Coping with Climate Change

Unit: V Sustainable Development

Concepts and Definition of Sustainable Development (Brundtland Commission Definition) - Poverty, Population Growth and Environmental Damage - Policies for Sustainable Development

Course outcomes

At the end of the course the students able to

CO1: know the environmental eco system
CO2: understand the different types of pollutions and its causes
CO3: know importance of forest and its impact on water resources
CO4: perceive knowledge on climatic change
CO5: obtain knowledge on sustainable development

Text Book

1. Erach Bharucha, 2004, Environmental Studies, UGC, New Delhi

References

1. Kumarasamy K, A.Alagappa Moses and M.Vasanthy, 2004, Environmental Studies, Bharathidasan University Pub. Trichy
2. Rajamannar, 2004, Environmental Studies, EVR College Pub. Trichy
3. Kalavathy S, (Ed.) 2004, Environmental Studies, Bishop Heber College Pub. Trichy

Outcome Mapping

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

ILSA 16 -

Learning Objectives:
LO1: To make the students understand the social world from sociological perspective
LO2: To make the students interpret life experience in terms of social facts.

Unit-I

Nature, Scope and development of Sociology – Uses of Sociology – Sociology and other social sciences – History, Economics, Politics, Anthropology, Psychology.

Unit II

Basic concepts of Sociology – Institution -Association – community – Society – Social Interaction – Social Processes – Types of Social Processes

Unit-III

Individual and society – The process of socialization – Agencies of socialization – Various stages of socialization Culture: Definition – Elements – Functions – Cultural lag Ethnocentrism

Unit-IV

Groups – Definition – characteristics – Types of groups – Primary and Secondary groups – Major social Institutions – Family – Marriage – Religion – Education mid Economic Institutions.

Unit-V

Social stratification – Definition – Characteristics – Functions – Forms social control – Definition – Agencies and types of social control – Social change – Factors of Social change Theories of social change

Text Books

1. Shankar Rao C. N., Sociology, New Delhi, S. Chand and Company, 1997.
2. Inkeles, Alex. What is Sociology? - An Introduction to the Discipline and Profession. Englewood Cliffs. N. J.' Prentice Hall, 1964.

Supplementary Readings

1. Ogburn W.F. and Nimkoff M.F., A Hand Book of Sociology, Boston, Haughton Miff line Company, 1958.
2. Horton B and Hunt L., Sociology, Tokyo, McGraw Hill Book Co., 1984.
3. Cuber, F. John., Sociology: A Synopsis of Principles, New York, Appleton Century Crafts Inc., 1955.
4. Sheppard, John M., Sociology, Minnesota: West Pub. Co., 1980.
5. Johnson, Harry M., Sociology: Systematic l Introduction, New York, Brace & Co., 1960.

   Course outcomes

   At the end of the course the students able to

  CO1: know the basic concepts on social sciences
  CO2: understand the types and processes of social institution

CO3:   pertain knowledge on Agencies of socialization and Various stages of socialization and Culture.
CO4:   recognize characteristics and types of social groups
CO5:   gain knowledge on social stratification

Outcome Mapping

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-II   19LISIC 23: Management Of Library And Information Centres   **Credits: 4**
Hours:

Learning objectives:

LO1:   To understand the functions and theories of library management.
LO2:   To know the organizational structure of a system.
LO3:   To inculcate the concept of HRM.

UNIT I: Principles of Management

Library Management – Definition – Functions of Management – POSDCORB –School of Management thoughts – Application of Management Principles and Theories in Libraries

UNIT II: Library Material Management

Organizational Chart- Library – Routines of various sections – Acquisition section – Technical Section – Maintenance section – Circulation section – Reference section – Periodical section – Library Records – Statistics – Annual Report – ICT Applications.

UNIT III: Human Resource Management

Meaning – Definitions – Planning – Recruitment – Selection – Induction and Orientation – Training and Development – Performance Appraisal – Transfer, Promotion and Demotion – Separation.

UNIT IV: Financial Management

Sources of finance to different types of Libraries : Public Library – Academic Library – Special Library- Methods of Financial Estimation :Percapita method – Proportional method – methods of details – budgeting : Definition – Types of Budgeting – Line Budget – Planning Programming Budgeting System(PPBS) – Zero Based Budgeting System.(ZBBS)

UNIT V: Library Building and Infrastructure Management

Planning of Library Building – Furniture and Equipment – Standards and Specifications

Text Books

1. Mittal, R.L, Library Administration: Theory and Practice, New Delhi, Ess Ess Publications, 1981.
2. Krishnan Kumar:Library administration and Management.New Delhi:Vikas.1987.
3. Hilal Ahamd, Integrated library management systems, New Delhi, Ess Ess 2016.

Supplementary Readings

1. Ranganathan, S.R. Library Administration. Bombay:Asia publications.2nd ed. 1961.
2. Mukesh K. Sahu, Library Management New Trends, New Delhi: Shree Publishers & Distributors, 2008
3. Singh, Ajit. Siwatch, Library Management, Library Management Leadership Style Strategies and Organizational Climate, New Delhi: Shree Publishers & Distributors, 2004
4. Khanna, J.K. Personnel Management in Libraries, New Delhi: Ess Publications, 1981
5. Kumar, Krishan Library Administration and Management, Delhi: Vikas Publishing House . Ltd. 1987
6. www.swayam.gov.in

Course outcomes

At the end of the course the students able to

CO1: understand functions of management and applications of management theories to library and information science
CO2: perceive knowledge on functions of various sections of library
CO3: evaluate various components of human resource management
CO4: know about financial management of library and information centers
CO5: conceive information on infrastructure management of library

Outcome Mapping

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-II	**19LISIC – 24 : Information Retrieval Tools (Cataloguing Theory)**	**Credits: 3 Hours:**

Learning objectives:

LO1: To know the need, purpose and functions of a catalogue.
LO2: To make the students understand the types of entries and inner forms of catalogue.
LO3: To understand the rules for cataloguing.

UNIT I : Basic Concepts

Library Catalogue – Definition – Need & purpose – Functions – Difference between Catalogue and Bibliography.

UNIT II: CCC and AACR2 (R)

Catalogue Code – Origin, Growth and Development since 1930 - Entries in Anglo American Cataloguing Rules 2 & Classified Catalogue Code (AACR 2 & CCC).

UNIT III: Physical Forms of Library Catalogue

Physical forms of Library Catalogue-Books form, Guard Book, Loose Leaf / sheaf form, Visible index, Card Form, Microform Catalogue – Computerized Catalogue

UNIT IV: Inner Forms of Catalogue

Inner forms of Catalogue – Classified types – Subject Classify Dictionary Alphabetics.

UNIT V: Cataloguing Rules

Rules for cataloguing: Development of cataloguing Rules – Normative Laws of Cataloguing their implementation – Trends in Library Cataloguing.

Text Books

1. Girija Kumar & Krishna: Theory of Cataloguing Delhi Vikas, Kumar 1982.
2. Gorman and Winkler Ed; Anglo American Cataloguing Rules.Ed.2 London, Library Association.1978.
3. Ramanathan, S.R. Classified Catalogue Code, Ed.5 Bombay: Asia Publishing House 1961

Supplementary Readings

1. Bole, Introduction to Cataloguing 2nd ed. New York, Megraw Hill, 1970
2. Chamman: How to Catalogue: A practice Hand Book Using AACR2 and Library If Congress London Clive Bingle.1983
3. Chan, L.M. Cataloguing and Classification :An Introduction. 4th ed.New York: Rowman & Little field. 2016.
4. Wyran Introduction to Cataloguing and Classification. 3rd ed New York, Libraries Unlimited, 1967.
5. Ranganathan, S.R. Classified Catalogue Code.Madras:UBSBD.1988
6. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
CO1: know the need, purpose and functions of catalogue
CO2: understand the rules and regulations to use AACR II and CCC
CO3: know various physical forms of catalogue
CO4: perceive knowledge on inner forms of catalogue
CO5: evaluate cataloguing rules and their applications

Outcome Mapping

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	--	--	✓	--	--	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-II	**19LISIC - 25: Information Processing Theory (Classification)**	**Credits: 4 Hours:**

Learning objectives:

LO1:   To understand the concept of information processing.
LO2:   To make the students aware of classification schemes.

UNIT I: Basic Concepts

Basic concepts in document and information processing – Knowledge & information Organization Concepts in Classification – Feature and Benefits of Systematic Arrangement

UNIT II: Natural Language systems

Document Representation – Problems with natural language systems – Natural Languages processing in textual information retrieval – Statistical Processing and Linguistic processing

UNIT III: Artificial Language System

Notation – Concepts – Types – Feature – Qualities – Thesaurus – Pre and Post coordinate Indexing – Indexing systems:- PRECIS, POPSI, KWIC, KWOC, Chain Indexing – Computerized Classification System.

UNIT IV: Structure of Classification Schemes

Canons – Postulates – Modes of formation of subjects – Complex isolates and complex array isolates – Use of different isolates.

UNIT V: Recent Development in Classification

Information Processing – Concept of Computer Classification – Use of Computers in Classification – Semi-Automatic Classification

Text Books

1. Kumar, Krishna and Girjia Kumar. Theory of Classification. New Delhi: Vikas Publication, 1982
2. Mishra, J.K. Knowledge Management: Complexity, Learning and Sustainable Innovation.New York: Springer, 2009.

Supplementary Readings

1. Khanna, J.K. Colon Classification: Theoretical Information's Schedules. New Delhi: Ess Ess Publication, 2000.
2. Khanna, J.K. and D.D. Kapai, Colon Classification: Structure Methodology. New Delhi: Ess Ess Publication, 1994.
3. John, Comaromi Satiyai, Beyond Classification: Book Numbers, New Delhi: Ess Ess Publications, 1993.
4. www.swayam.gov.in
5. Ranganathan, S.R. prolegomena to Library classification, 3rd ed. Bangalore:SRELS.2006.

Course outcomes

At the end of the course the students able to

CO1: understand basic concepts of classification and its benefits
CO2: know natural language system and its problems
CO3: evaluate artificial language system
CO4: perceive knowledge on structure of classification schemes
CO5: conceive knowledge on recent development in classification system

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-II	**19LISIA26: Principles Of Management**	**Credits: 3** **Hours:**

Learning objectives

LO1: To understand the basic principles of management
LO2: To acquire knowledge relating to various components of management

Unit-I : Introduction

Evolution of management thought, Managerial process, Functions, Skills and Roles in an Organization – Decision making and problem solving. Understanding and managing group processes – Group decision making.

Unit-II: Planning

Distance between operational and Strategic Planning – Types of Plans – Grouping of Various types of plans – Steps in planning – Importance of policies – Types of policies – Principles of policy making – Policy formulation and Administration – Basic area of Policy making.

Unit-III: Organizing

Authority Relationships – Line authority – Staff authority – Line organization – Pure line and Departmental line organization – Staff relationships – Line and staff organization – Functional organization – Committee organization – Definition of Authority – Components of authority – Rational authority – Traditional authority – Characteristic authority – Limits of authority – Delegation of authority – Process of delegation – Principles of Delegation – Centralization and Decentralization.

Unit-IV: Staffing

Staffing Function – Nature and purpose of Staffing – Importance of staffing – Components of Staffing – Selection and Training

Unit-V: Directing

The Direction Function – Leadership - Co-ordination – Need for coordination – Types of Interdependence – Co-ordination – pooled, Sequential and Reciprocal, Interdependence – Principles of Co-ordination – Approaches to achieving effective co-ordination – Problems of co-ordination.

Text Books

1. Koontz, Weihrich, Aryasri, Principles of Management, TATA McGraw Hill, New Delhi, 2004.
2. Koontz, Weihrich, Arysri, Principles of Management, TATA McGraw Hill, New Delhi 7th edition, 2006.
3. Sherlekar, S.A., and V.S.Sherlekar. Modern Business Organization & Management, Himalaya Publishing House, Mumbai, 2002.

Supplementary Readings

1. Chand J.S.:Management: Theory & Practices, New Delhi, Vikas publication, 2001.
2. Harragan: Management Concepts and Practices, New Delhi, Mac Millan India Ltd., 2002.
3. Robbins .S.P.Management 8th ed. New Jersey, Englewood Cliffs, Prentice Hall Inc., 2006
4. Robbins & coulter, Management 7th edition, New Delhi, Prentice Hall of India (P) Ltd., 2003.

Course outcomes

At the end of the course the students able to
- CO1: understand basic principles of management
- CO2: recognize the structure and committees of an organisation
- CO3: acquire knowledge on staffing systems in an organisation
- CO4: perceive knowledge on functions of direction.

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-III	19LISIC33: Archives And Manuscripts	Credits: 4 Hours:

Learning objectives:

- LO1. To study the concept and history of Archives.
- LO2. To understand the organization and functions of archives.

Unit – I: Basic Concepts

Archives: Definition – Concept – History – Creation of Archives

Unit – II: Organization

Organization of Archives – Function of Archives – Users of Archives

Unit – III: Archives of India

National Archives of India – Tamil Nadu Archives – Private Archives

Unit – IV: Archives Administration

Administration of Archives – Evolution of Archives Administration in India – Administration of National Archives

Unit – V: Archives Preservation

Preservation and Conservation of Library materials and Archives – Principles of Preservation – Agents of deterioration

Text Books

1. Back E.A., Bookworms, The Indian Archives,. National Archives of India, Vol. 1, No.2, 1947.
2. Kathpalia Y.P., Care of Books in Libraries. The Indian Archives. Vol. IX, No.2 1955
3. Heery Thurston peck, the international library of masterpiece literature, Arts and Rare Manuscript, Vol. 10, 2019.

Supplementary Readings

1. Lamp C.M., (Editor), The Calligrapher's Handbook London : Faber, 1956
2. Majumder R.C., Birch-Bark and Clay-Coated Manuscripts, The Indian Archives. Vol. XI, No's 1 – 2 1957
3. Mehra C.P., "Conservation of Photographic Archives" Conservation of Cultural Property in India. Vol. VI 1973
4. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
CO1: know about the concept and history of archives
CO2: understand organization and functions of archives
CO3: perceive knowledge on various types of archives in India
CO4: evaluate administration of archives in India
CO5: conceive information about preservation and conservation of archives materials

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-III	**19LISIC34: Information And Communication**	**Credits: 4 Hours:**

Learning objectives:

LO1: To know the nature and value of information.
LO2: To study the concept and types of communication.
LO3: To study the information intermediaries.

UNIT I: Basic Concepts

Information – Concept - Definition – Types : By Source – Channel – Media – Recipients – Information Needs – Nature and Value – Information Characteristics –Information growth

UNIT II: Types of Communication

Communication – Concept – Types – Formal and Informal- characteristics – Barriers of Communication – Communication Theory and Models – Shannon and Weaver Model – Aristotle Model.

UNIT III: Online Information

Online Information – Production & distribution cycle – Online Publishers, Online Distributors.

UNIT IV: Information Intermediaries

Information Intermediaries – Information transfer process and cycle – Information Consultants – Information Agents : Invisible College : Information Gatekeeper.

UNIT V: Communication Media

Information and Communication media – Conventional and Non-Conventional Media – Role and Impact

Text Books

1. Grogan, Denis J. Science and Technology introduction to Literature, 4th ed. London: Clive Bingley, 1982
2. Guha, B. Documentation and Information services and systems, Calcutta: World press. 1983.
3. Basandra, S.K. Computers today and globalization, New Delhi:Golgotia.2002

Supplementary Readings

1. Gopinath, M.A., Current trends in Information Sources and Communication Media, Bangalore: DRTC 1984.
2. Katz, W.A., Introduction to Reference Work, 2nd Ed. Vol.4, New York, Mc Graw Hill, 1982
3. Bansal, S.K. Information Technology and globalization,New Delhi:APH.2005.
4. Martin, W.J. Communication in science, Knowledge and Librarian, London: Butterworths, 1974
5. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
CO1: understand nature, value, needs and characteristics of information
CO2: know various types and models of communication
CO3: perceive knowledge online information publisher and distributors
CO4: evaluate role of information intermediaries in information transfer process
CO5: conceive information about role and impact of communication media

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓

CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-III	**19LISIC35: Colon Classification** **(Written Pracrtical)**	**Credits: 4** **Hours:**

Learning objectives:

LO1: To make the students to understand about the classification schemes.
LO2: To understand the classification of books using colon classification scheme.

UNIT I : Basis of Colon classification

Main classes in CC, Fundamental Categories of Colon Classification – Connecting Symbols in Classification, Practical outline of CC.

UNIT II : Basic Subjects Classification

Classification of Documents with Basic and Simple Subjects

UNIT III : Isolates and Devices

Use of Common Isolate, Time Isolate, Space Isolate, Language Isolate in classification.

Unit IV: Facet Relationship

Use of Phase and Intra-Facet Relationship in classification

UNIT V : Complex Subjects Classification

Classification of Documents with Compound and Complex Subjects

Text Books

1. Khanna, J.K. Colon Classification. New Delhi: Ess Ess publication, 2002.
2. Satija, M.P. Manual of practical colon Classification, New Delhi: Sterling Publisher, 2005

Supplementary Readings

1. Singh, Sewa. Colon Classification: New Practical Manual, Delhi: B.R. Publishing Corporation, 2006
2. S.R.Ranganathan, Colon classification , Ed.6,2006
3. Ranaganthan, S.R. Elements of Library Classification, New Delhi: Sterling Publications, 1976.
4. Ranganathan, S.R, Prolegomena to Library Classification: Asia Publishing House, 1967.
5. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
CO1: know structure of Colon Classification
CO2: understand to how to construct classification number for basic subject titles.
CO3: work on common isolate and phase relation
CO4: work with various devices of Colon Classification

CO5:   understand the how to construct classification for complex subject titles

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-III	**19LISIC36: Computer And Its Applications**	**Credits: 3** **Hours:**

Learning objectives:

LO1: To enable the students to have a knowledge about the computers and help them in using computers for their learning

LO2:To enable the students to acquire knowledge on Internet and WWW.

Unit–I: Introduction to Computers

Introduction to Computers – Application of Computers- Concepts of Data and Information – A Typical Computer system – Memory Concepts – History of Computers – Types of Computers. Input-Output Devices – Data Storage Devices – Software-The Definition – The Role of Software Housekeeping

Unit–II: Computer Internals

The Computer Internals – Typical PC Configuration – Booting – Virus – Anti-Virus, Vaccine – Versions of Software - Operation System – Definition – Classification – Basics of MSDOS – Introduction to Windows Operating System – Features of Windows OS – Desktop and Desktop Icons – Starting Programs – Browsing and Managing windows Explorer – Setting – Taskbars and Creating Shortcuts

Unit–III: Internet

Introduction to Internet – Client Server Basics, E-Mail, Telnet and Archie – FTP – Gopher, Jughcad and Veronica –WAIS and World Wide Web- Fundamentals of HTML, TCP\IP and E-Commerce

Unit–IV: Web Site

Issues involved in Web Site Management – Addressing – Designing Web Sites with Front Page

Unit–V: Multimedia

Multimedia – Concept, Requirements, Applications and Future – Hardware and Software Requirements for Multimedia; Development and Delivery Platforms – Multimedia Methodologies, Fundamentals and Use of Hypertext, Hypermedia, Sound, Images, Animation, Video. Using Multi Media; Multimedia Interface, Planning and Development of Multimedia Projects.

Text Books

1. R.K. Singh, Computors in Library Science, New Delhi; Shree Publishers, 2006
2. Shamin Ahmed, Computer in Library Management, New delhi: A.P.H. Publishing Corporation, 2011

Supplementary Readings

1. Krishnan, Computer Fundamentals and Windows with Internet Technology, Chennai : SciTech Publications (India) . Ltd., 2014.
2. Ned Sneel- The Internet Strater Kit in 24 hours Techmedia, 1998.
3. Michael Goodwin – Making Multimedia Works, Coomdex,1995.

Course outcomes

At the end of the course the students able to
- CO1:   acquire knowledge on basics of computers
- CO2:   understand to how to install hardware and software
- CO3:   recognize the importance of internet and WWW.
- CO4:   understand the knowledge on websites and multimedia

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-III	**19LISIC37: Introduction To Tourism**	**Credits: 3** **Hours:**

Learning objectives:

LO1:   To enable the students to have a background knowledge about the meaning, origin, nature and scope of tourism.

LO2:   To provide an exposure to students about the importance and uses of tourism.

Unit-I

Meaning, Origin and Development – Definition – Tourism its nature and scope – Tourism in the Ancient and Modern Times – Types of Tourism: Manmade and Natural.

Unit-II

Tourist, Visitor, Traveler, Excursionist Definition and differentiation – Tourism Recreation and Leisure inter-relationship – Tourism components, Elements and Infrastructure – Role of Tourist Guide

Unit-III

Means of transport – its impact on tourism – public and private transport facilities: Roads, Railways, Shipping, Airways – Technological Advances – Reservation procedures – its special features – Merits and Demerits

Unit-IV

Travel formalities: Passport – Visa – Health – Customs – Foreign Exchange and Currency Regulation – Ticketing Procedure – Immigration.

Unit-V

Promotion of basic facilities – Social utility – Team spirit – Economic advantages – Source of income – Cultural exchange – Social and political understanding – National Integration.

Text books

1. Bhatia, A.K., Tourism Development Principles and Practice, New Delhi: Sterling publishers . Ltd., , 2013.
2. Bhatia, A.K., Tourism in India, History and Development, New Delhi: Sterling publishers . Ltd., 1978.

Supplementary Readings

1. Malhotra, Growth and Development of Tourism, Chennai: Ram Publishers, 2003.
2. Pran Nath Seth & Sushma Seth Bhat, An Introduction to Travel and Tourism, New Delhi; Sterling publishers, 1999.
3. Pearce, D. Tourism Today, Harlow: Longman publishers, 1987.
4. Cooper, C. Tourism Principles and Practices, London: Pitman publishers, 1993.

Course outcomes

At the end of the course the students able to
- CO1: understand history and development of tourism
- CO2: know components, Elements and Infrastructure of tourism
- CO3: perceive knowledge on transport facilities related to tourism development
- CO4: evaluate rules and regulations for internal and external tourism
- CO5: recognize advantages in tourism

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-IV 19LISIC43: Information Retrieval Theory (Cataloguing)	Credits: 4 Hours:

Learning objectives:

LO1: To understand the cataloguing schemes in information retrieval
LO2: To study the concept of Thesaurus and Bibliographic control.
LO3: To identify the Subject Headings pattern.

UNIT- I Library Catalogue

Library Catalogue – Definition – Functions, Objectives, Forms - Subject Headings- Library of congress subject Heading -Sear's List of subject Heading

UNIT- II Thesaurus

Thesaurus-vocabulary Control and Thesaurus Constructions – Structure and Function

UNIT-III Types of Catalogue

Types - Centralized – Co-operative - Union – Simplified – Selective Catalogue

UNIT- IV Application in Catalogue

Applications of computer in cataloguing-Online public Access Cataloguing

UNIT- V Bibliographic Description

Concept of universal Bibliographic Control –UBC - International Standard Bibliographic Description [ISBD] – ISBD Format – MARC 21 – CCF etc., - ISBN & ISSN.

Text Books

1. Girija Kumar & Krishna: Theory of Cataloguing Delhi Vikas, Kumar 1982.
2. Gorman and Winkler Ed; Anglo American Cataloguing Rules.Ed.2 London, Library Association.1978.
3. Ramanathan, S.R. Classified Catalogue Code, Ed.5 Bombay: Asia Publishing House 1961

Supplementary Readings

1. Bole Introduction to Cataloguing 2 New York, Megraw Hill, 1970 Chamman: How to Catalogue: A practice Hand Book Using AACR2 and Library If Congress London Clive Bingle.1983
2. Chan, L.M. Cataloguing and Classification :An Introduction. 4th ed.New York: Rowman & Little field. 2016.
3. Wyran Introduction to Cataloguing and Classification. 3rd ed New York, Libraries Unlimited, 1967.
4. www.swayam.gov.in
5. Ranganathan, S.R. Classified Catalogue Code.Madras:UBSBD.1988

Course outcomes

At the end of the course the students able to
CO1: receive knowledge on functions and objectives of library catalogue and various forms of subject headings
CO2: know thesaurus and construction of thesaurus
CO3: understand various types of catalogue including centralized, cooperative and union catalogue
CO4: conceive knowledge on application computer in cataloguing system
CO5: evaluate bibliographic description including MARC -21

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-IV	**19LISIC44: Information Sources**	**Credits: 4** **Hours:**

Learning objectives:

LO1:   To study the various sources of information.
LO2:   To acquire knowledge on features and importance of printed and electronic information sources.

UNIT I: Basis in Information Sources

Basic concepts – Definition – Types and importance of Information sources

UNIT II: Primary Sources

Characteristics and Values: Periodicals – Research Reports – Conference Proceeding – Scientific Reports – Patents – Standard – Trade Literature – Unpublished Documents – Printed and Electronic.

UNIT III: Secondary Sources

Characteristics and Values: Abstracting and Indexing Periodicals – Review of Progress - Trend Reports – Supplementary Readings: Encyclopedia – Dictionary – Hand Books – Monographs - Year Books and Almanac – Text Books - Bibliographical Sources – Geographical Sources.

UNIT IV: Tertiary Sources

Characteristics and Values: Bibliography of Bibliography – Guide to Literature – Directories and Year Books – Abstracts and Indexes.

Unit V: Electronic Resources

E- Journals – E-Books – CD-Rom Databases – Online Databases – Internet – WWW. Open Access Resources.

Text Books

1.   Bunch: The Basis of Introduction: London :Clive Binglery.1984.
2.   Gurudev singh, Information sources services and systems. Delhi:PHI. 2013.

Supplementary Readings

1.   Ana Cleveland and Donald Cleveland. Introduction to Indexing and Abstracting. 4th ed. Santa barbara :ABC Clio,2013
2.   Galuin, Supplementary Readings: How to Select and Use Them (New York Random House, 1969)
3.   Higgins, Printed Reference Materials (New Delhi Oxford & Ibh Publishing Co,1980)
4.   Sengupta, B. Indian Reference and Information Sources.Calcutta:World press, 1981.
5.   www.swayam.gov.in

Course outcomes

At the end of the course the students able to
CO1:   understand basic concepts on information sources
CO2:   recognize various characteristics and values of primary sources
CO3:   understand characteristics and importance of secondary sources
CO4:   know values of tertiary sources in research progress
CO5:   evaluate use and importance of electronic resources in information collecting and dissemination

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-IV   19LISIC45: Classified Catalogue Code – (Written Practical)   **Credits: 4**
Hours:

Learning objectives:

LO1. To enable the students to understand the classified catalogue code scheme of cataloguing a books as per 5th edition.

LO2. Cataloguing of Books & Periodicals as per CCC 5th edition.

Classifed Catalogue Code using AACR-II and CCC

Course outcomes

At the end of the course the students able to

CO1: understand cataloguing of books, periodicals and non-book materials by using AACR-II and CCC

Text Books:

1. Gandhi, T.M.K.Cataloguing: Theory and Practice, Delhi :Pradeep Publication, 1995.
2.   Kumar, P.S.G. and Mohamed Riaz. Cataloguing theory and Practice. New Delhi: S.Chand, 1999.
3.   Schal, R.L, Cataloguing Practice: CCC, New Delhi: Ess Ess Publications, 2001.

Supplementary Readings:

1. Balakrishnan,S. et al. Online Cataloguing New Delhi: Pradeep Publication, 2001.
2. Balakrihnan,S. et al. Library Cataloguing and Multimedia Libraries ,New Delhi Pradeep Publishing, 2001
3. Grija Kumar and Krishen Kumar. Theory of cataloguing . 4th ed. Delhi:Vikas.1986.
4.   www.swayam.gov.in

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

19LISIC46: Intellectual Property Rights and Right to Information

Credits: 4
Hours:

Learning objectives

LO1: To give a clear, comprehensive and realistic perspective of IPR, Copy Right Laws, Cyber laws and Cyber Crimes etc.
LO2: To create awareness among students about the IPR, Cyber crimes and Laws
LO3: To enable the students to understand the current status of laws at national & International level

Unit – I: Basic Concepts

IPR – Definition – Need and Purpose – Forms of IPR – IPR in Digital Era – Right to Information – Definition – Need and Purpose of IPR

Unit – II: History and Development

Copy Right Law – History and Development – Need – Violations of Copy Right Law

Unit – III: Cyber Crimes

Cyber Crimes – Definition – Types of Cyber Crimes – Protections

Unit – IV: Cyber Laws

Cyber Laws – National Status – International Status – Implementation and Amendment

Unit – V: Legislation

Legislation – Control and Supervisions – Merits and Demerits – Patents and Standards

Course outcomes

At the end of the course the students able to
CO1: know basic concepts of IPR
CO2: know history and development of copy right law
CO3: conceive knowledge on cyber crimes and its protection
CO4: recognized cyber laws
CO5: evaluate legislation regarding to IPR

Text Books:

1. Maskus, Keith E, Intellectual Property Rights in the Global Economy, Washington, 2000
2. Davis, Jennifer Intellectual Property Law, London: Butterworths, 2001

Supplementary Readings:

1. Mahajan V.D Jurispredence and Legal Theory, New Delhi, Easter Book, 2001
2. Narayan P.S Intellectual Property Law in India, Hyderabad: Gogia Law Agency, 2001
3. Sharma, Brijkishore. Copyright law in respect of books. New Delhi. The Federation of Indian Publishers, 2006
4. Watel, Jayashree. Intellectual property rights in the WTO and developing countries, London:Oxford University Press, 2001
5. Correa, Carlos M. Intellectual property rights, the WTO and developing countries, New York: Zed Books, 2000.
6. www.swayam.gov.in

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6

CO1	✓	--	--	✓	--	--	✓	✓	--	--	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-IV	**19LISIA47: Tourism And Development**	**Credits: 3** **Hours:**

Learning objectives

LO1: To provide an exposure to students about the Historical Development and Organizational Principles of Tourism.

LO2: To explain the Modern Concepts and importance of Tourism and its development.

Unit-I

Historical development of Tourism – Travel Motivations – Tourism trends – growth and development over the years and factors responsible therein – Economic and Social Importance of Tourism – Importance of Tourism in modern times.

Unit-II

Types of tourist centres: Geographical, Social, Recreational, Archaeological, cultural and Health Centres – Summer, Winter and Mountain holiday resorts – beach resorts – pilgrimage and religious centres – National Parks, sanctuaries, centres for festivals and fairs – Camping sites – universities centres – Temples centres – Forts, garden places, monuments and etc.,

Unit-III

Organizations of Tourism – Origin, organization and functions of UNWTO, PATA, IATA, ICAO, FHRAI, ITDC and TTDC.

Unit-IV

Tourist accommodation – concept – emerging dimensions of accommodation industry – Types of Hotels: Heritage Hotels, Motels, Inn, Traven and Resorts – Time share establishments – Functions and responsibilities of standard hotels – Catering outlets bars, restaurants, fast food centres – Flight catering – Role, Contribution and performance Multinational Hotels – Entertainments in hotels.

Unit-V

Promotion of Tourism: Advertising and Publicity – Audio visual photography poster, pamphlets – Displays exhibition sale of handicrafts – preparing tourism literature – Role of mass media in Tourism Promotion – Measures for the promotion of International Tourism.

Test books

1. Bhatia, A.K., International Tourism Management, New Delhi: Sterling Publishers . Ltd., 2010 (Reprint).
2. Bhatia, A.K., Tourism Development Principles and Practice, New Delhi: Sterling Publishers . Ltd., 2013.

Supplementary Readings

1. Asif Iqbal Fazili and S.Husain Ashraf: Tourism in India, Sarup & Sons, New Delhi, 2006.
2. Romila Chawla, Tourism in India Perspective and Challenges, New Delhi, Sonali Publications, 2005.
3. Swaminathan, A., Tourism, Vijayasabasri Publications, Chennai, 1996.
4. Pran Nath Seth & Sushma Seth Bhat, An Introduction to Travel and Tourism, Sterling publishers, New Delhi, 2003.

Course outcomes

At the end of the course the students able to

CO1: understand the latest trends in tourism
CO2: know tourism centres related to social, recreational, archaeological.
CO3: perceive knowledge on tourism development organisation
CO4: evaluate various tourist accommodation industry
CO5: recognize activities related to promotion of tourism

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-V	**19LISIC51: Information Services**	**Credits: 4** **Hours:**

Learning objectives:

LO1: To create awareness among the students about the concept & need of information service.
LO2: To make them to understand the documentation service
LO3: To study the concept of user studies.

UNIT I: Basic Concepts

Concept – Definition - Need and importance - Role of information service in Libraries and Community Development.

UNIT II: Traditional & Documentation services

Traditional services: Types - Orientation - User Education - Reference - Referral Service - Documentation services: CAS - SDI - Bibliographic service: Abstracting, Indexing, Translation, Document Delivery, Reprography services.

UNIT III: Information Analysis

Information Analysis & Consolidation - Preparation and Product - Trend Report.

UNIT IV: User studies

Concept – Definition – Category – Types – Merits and Demerits - Problems.

UNIT V : Digital Information Services

Instant Messaging Service – e-mail Alert – Abstracting and Indexing Services – Information service through Social Media. Web Based Information Services.

Text Books

1. Iyengar, S. Information Service, New Delhi, Pradeep Publications, 2002.
2. Balakrishnan, S. et al. Information Services in Libraries. Delhi: Pradeep Publications, 2001
3. Pandey, V.C. Information and Communication Technology, Delhi: ISHA Books, 2004

Supplementary Readings

1. Kabir, S.H. et al. Changing Trends in Library and Information Service, New Delhi
2. Sharma and Grover. Reference service and sources of information. New Delhi: Ess Ess Publications, 1999.
3. Guha, R. Documentation. Bombay: Asia Publishing House, 1999.
4. Sandhya Aggarwal, etal, Library Services: Challenges and Solutions in Digital Era, New Delhi: Ess Ess Publications, 2012
5. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
CO1: understand the basic concepts of library information service
CO2: know the traditional and recent documentation services
CO3: conceive knowledge on information analysis and consolidation
CO4: understand about users studies
CO5: evaluate digital information services and social media

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-V	**19LISIC52: Library And Information Systems Management**	**Credits: 4 Hours:**

Learning objectives:

LO1: To make the students to understand the concept, need and purpose of planning of library and information system.
LO2: To study the organization structure and chart of a system.
LO3: To give a clear perspective of non budgetary method.

UNIT I: Planning of Library and information system

Planning: Concept-Definition-Need and Purpose-types and steps in planning of Library and information system-National information system planning-MBO (Management by Objectives)

UNIT II: Organizational structure

Organizational structure of the Library – Departmentation – Definition – Types - Formal and Informal Organization - Co-ordination - Communication

UNIT III: Organizational chart

Organizational chart: Flow process chart-Decision Flow Chart-Block Diagram-Gantt Chart.

UNIT IV: Non-Budgetary Method of Control

Non-Budgetary Method of Control - Network analysis – PERT – CPM - Operational Research.

UNIT V: Evaluation

Evaluation of Library and information systems – Definition - criteria for evaluation - Types of evaluation - Cost effective analysis - Cost benefit analysis – TQM – Definition – Scope, Purpose and steps – Application of TQM in Library & Information Centres – Tools and Techniques.

Text Books

1. Balakrishnan, S. et al. Management of Library Information services, New Delhi: Pradeep Publishers, 2001.
2. Pandey, S.K. Library Information Management, New Delhi: Anmol Publications, 2000.
3. Panda, B.D. Library Administration and management, New Delhi: Pradeep Publications, 2000.

Supplementary Readings

1. Scammell, Hand book of information Management, Chennai: Allied Publisher, 2001
2. Gallacher, C. Managing. Change in Libraries in and Information services, Chennai: Allied Publishers, 2001
3. Totterdell, Anne, The Library and information works primer, Chennai: Allied Publishers, 2001.
4. Bavacutty M. and M. Parameshwaran, Management of Libraries in 21 century, Ess Ess Publications, 2000
5. www.swayam.gov.in

Course outcomes

At the end of the course the students able to

CO1:   understand planning of library and information system and MBO (Management by Objective)
CO2:   know organizational structure
CO3:   conceive on knowledge organization chart
CO4:   recognized non budgetary method of control
CO5:   evaluate TQM (Total Quality Management)

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓

| CO5 | ✓ | - | - | ✓ | - | - | ✓ | ✓ | - | - | ✓ | ✓ |

| | | | | | | | | | | | | |

Semester-V　　　　**19LISIC53: Dewey Decimal Classification – Written Practical**　　　　**Credits: 4**
Hours:

Learning objectives:

LO1: To make the students to understand the DEWEY DECIMAL CLASSIFICAITON for classifying the books according to 19th edition.

Dewey Decimal Classification (19th edition).

Classification of Titles of Books and Journals as per Dewey Decimal Classification Scheme (19th edition).

(A) Use of Index for Searching and Finding Class Number

(B) Classifying titles by using schedule alone.

(C) Classifying titles by using Tables.

(D) Practice of Simple, Compound and Complex Titles using DDC.

Text Books
1. Gautam, J.N. and N.singh, DDC Practical Analysis, New Delhi: Ess Ess 2001.
2. Singh, Shivendra. The Theory and Practice of the Dewey Decimal Classification System, New Delhi: Isha Books, 2011

Supplementary Readings:

1. Chaudhary, S.K. Deway Decimal Classification, New Delhi: A.P.H. Publishing Corporation, 2011
2. Sen, B.K. Dewey Decimal Classification Readymade, New Delhi: Ess Ess Publications, 2008.

Course outcomes

At the end of the course the students able to

CO1:　identify 3 volumes of 19th edition
CO2:　understand classifying title by using schedule
CO3:　recognized classifying title by using tables
CO4:　classify all the titles such as simple, component and complex

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-V   **19LISIC54: Database Management System**   **Credits: 4**
Hours:

Learning objectives:

LO1:   To enable the students to understand the basics of database design.
LO2:   To enable the students to learn the data models, backup and maintenance.

UNIT I: Introduction to Database

Databases : Definition - Types – Characteristics – Significance - Classification – Data Updation – Data Retrieval - DBMS and RDBMS – File System.

UNIT II: Data Models

Data Models – Hierarchical – Network - Relational – ER models – Notations used in ER Models – Associative Database Model - SQL Models

UNIT III: Database Design

Database designing and handling – Data designing using CDS/ISIS, WINISIS, J-ISIS – Principles and importance of data designing – Levels of Databases

UNIT IV: Data Backup

Data Backup – Need and Purposes – Backup Devices – Storage devices and its characteristics – Magnetic Disks , File Organization – Length and Records – ISAM and VSAM – Cloud Database – Database security.

UNIT V: Database Maintenance

Database Maintenance – Database Updates- Normalization – Query Processing – Optimization – Distributed databases – Object relational Mapping.

Text Books

1. Jain, Data management system, Chennai: The library book, suppliers, 2003
2. Saravanan, T, WINISIS for beginners,2nd ed. Chidambaram: Rajalakshmi, 2010.
3. Elmasri navathe, fundamentals of database system, Ed.7, New Delhi: Pearson, 2017.

Supplementary Readings

1. Rajesh, R.S. and K.S. Eswarakumar, R.Balasubramanian, computer networks Fundamental application New Delhi: Vikas, 2002
2. Korenke David, M. Database concept, New Delhi: Prentice hall of India, 2002
3. Nett. Operating system project using windows NT. Delhi : Person Education .2002
4. Winston, Artificial Intelligence, 3/ed; Delhi: Person Education , 2002.
5. Saravanan, T, Information Architecture, New Delhi: Ess Ess, 2012.

Course outcomes

At the end of the course the students able to

CO1:   understand the basics of databases and its significant
CO2:   know about data models

CO3: receive knowledge on designing database
CO4: recognize various data backup devices
CO5: evaluate maintenance of databases

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-V   **19LISIC55: Public Library System**   **Credits: 4**
Hours:

Learning objectives

LO1: To create awareness about the public library system.
LO2: To study the growth and development of public library system.
LO3: To give a clear picture on automation of public libraries.

Unit – I: Basic Concepts

Public Library: Definition – Concept – Objectives – Types and functions – Services

Unit – II: Growth and Development

Growth and Development of Public Libraries: History of Public Libraries in India - Objectives and functions of RRRLF – History of Public Libraries in USA – History of Public Libraries in UK

Unit – III: Public Library Legislation

Public Library Legislation: Model Public Library Act – Tamil Nadu Public Library Act – Andhra Public Library Act – Karnataka Public Library Act

Unit – IV: Financial and Personnel Management

Financial and Personnel Management of Public Libraries: Sources of Income – Budgeting – Recruitment and Selection – Training and Development – Performance Appraisal

Unit – V: Automation

Automation of public Libraries: Definition – Need for Public Library Automation – Infrastructure for Library Automation – Areas of Automation – Advantages of Automation.

Text Books

1. Sathikumar, C.S, Public Library Development in India. Roman, Nair, R [Ed.], Public Library Development. New Delhi: Ess Ess Publications, 1993.
2. Asok kumar S, public library system and services in Tamil Nadu, New Delhi: Ess Ess Publications, 2008.

Supplementary Readings

1. Ramaiah, L.S. and others, Information and Society, New Delhi: Ess Ess Publications, 1997.
2. Ramaiah, L.S. and others, Public Library Roles: Networking, New Delhi: Ess Ess Publications, 1998.
3. McClure, Charles R, et al., planning and role setting for public libraries: a manual of options and procedures, Chicago: American Library Association, 1987.
4. Higgins (SE) , Youth services and Public Libraries, Oxford: Chandos Publishing, , 2007.
5. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
CO1:   understand the basis of public library systems
CO2:   receive knowledge on growth and development of public libraries
CO3:   conceive knowledge on public library legislation of India
CO4:   recognize financial and personnel management practices of public libraries
CO5:   evaluate need and advantage of public library automation

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-V	**19LISIC53: Anglo American Cataloguing Rules – II (Written Practical) 2nd Edition (Books & Periodicals)**	**Credits: 4 Hours:**

Learning objectives:

LO1:   To enable the students to understand the cataloguing of books as per AACR2 using sears list.
LO2:   Cataloguing of Books and Periodicals as per AACR2, using Sears list of subject headings.

UNIT – I: AACR-II

Practical introduction – Single, double and three authorship patterns.

UNIT – II: More than three Authors

Four authorship pattern – Without authorship / Editor mixed responsibilities.

UNIT- III : Institutions

Corporate Authors – Conference proceedings – Government Reports.

UNIT – IV : Pseudonyms and other type of Books

Pseudonyms authors – Multi volume – change of titles – series.

UNIT – V : Subject Headings

Sear's List of Subject Headings.

Text books

1. Sharma, C.K. et al, AACR II (Anglo American Cataloguing Rules – II), Shree Publishers, 2000
2. C.Lal K Kumar, Practical cataloguing AACR-II, 2008

Supplementary Readings:

1. Kumar, P.S.G. and Mohamed Riaz. Cataloguing theory and Practice. New Delhi: S.Chand, 1999.
2. Lal, C and Kumar K, Practical cataloguing AACR II, New Delhi: Ess Ess, 2008.
3. Deborah A. Fritz, Cataloguing with AACR 2 and MARC 21, 2nd ed.USA: Pentagon.2009
4. Khan, M.T.M. Anglo American Cataloguing Rules (AACR), New Delhi: Shree Publishers & Distributors, 2005
5. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
CO1:   understand system of cataloguing books and periodical as per AACR II

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VI	**19LISIC61: National Information System**	**Credits: 4** **Hours:**

Learning objectives:

LO1:   To study the types and functions of information system.
LO2:   To make the students to understand the process of planning an information system

UNIT I: Basic Concepts

Information systems – Meaning – Definition – Objectives – Need and importance - Types – functions - Planning of Information System.

UNIT II: Information Centre

Definition – Types of Information Centres: Data centers – Referral centers – Clearing House – Information analysis centre – Translation centre – Reprographic centre.

UNIT III: Science Information System in India

NISCAIR – DESIDOC – NASSDOC – SENDOC.

UNIT IV: Information System in other Countries

BLAISE (British Library Automated Information Services) – OCLC (Online Computer Library Centre) – LC (Library of Congress).

UNIT V: Recent Development in Information System

Recent Development in Information System – E-mail based Reference Interaction – Chat based Reference Interaction – Video Conference based Reference Interaction – Collaboration Digital Reference Service (CDRS).

Text books

1. Khanna, J.K. Information system and services Delhi: Sterling Publication, 1995
2. Senguptha, B. Indian reference and Information Sources .Calcutta: World Press, 1981.
3. Guha, B. Documentation and Information service and systems. Calcutta: World Press,1983.

Supplementary Readings

1. Annual Report, New Delhi: INSDOC, 1994.
2. Weisman, H.M. information system and centers New York L Becker and Hayes, 1992
3. Kawatra, P.S. Fundamental of Documentation with special reference to India. New Delhi: Sterling Publication, 1991
4. Foskett, D.J. National information services in libraries, New Delhi: Pradeep Publication 1998
5. Taylor, New Trends in documentation and information system, London: WELSH, 2001
6. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
- CO1.   know the basis of national information system
- CO2.   recognize different types of information centers
- CO3. conceive knowledge on science information system in India
- CO4. acquire a broad knowledge on information system in other countries
- CO5. evaluate recent development in information system

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VI	19LISIC62: Research Methodology	Credits: 4 Hours:

Learning objectives:

LO1:   To study the concept of a research.
LO2:   To enable the students to understand the research problems.
LO3:   To make them aware of research design and report writing.

Unit – I: Fundamentals of Social Science Research

Research Methodology: Meaning – Definition – Significance – Types of Research: Historical Research, Fundamental Research – Action Research, Operational Research, Experimental Research. Problem Formulation – Definition – Sources of Identification – Factors Influencing – Selection of Problem – Statement of Problem.

Unit – II: Research Design

Definition – Need – Types of Research Design – Sampling – Techniques – Hypothesis : Definition – Formulation – Types and Testing.

Unit – II: Methods of Data Collection

Survey – Experimental – Case Studies – Observation – Questionnaire – Interview Schedules.

Unit – IV: Data Processing and Analysis

Measures and Scaling Techniques – Interpretation – Inferences – Presentation of Data.

Unit – V: Report Writing

Organization of Research Report – Style Manual Chicago, MLA and APA – Plagiarism.

Text Books

1. Cauvery , R. Et.al,: Research Methodology, New Delhi S ; Chand &Company 2003.
2. C.K. Kothari, Research Methodology: Methods and Techniques, New Delhi: Hiler Eastern 2014.

Supplementary Readings

1. Devarajan, g. Research in Library and Information science. New Deslhi: ESS ESS,2002.
2. Kothari, C.R. Research Methodology , New Delhi Hiler Eastern,1985.
3. Saravanavelu , P .Research Methodology, Delhi, Kitas Malal Agengy Patane,2001
4. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
- CO1. acquire knowledge on fundamental of social science research
- CO2. recognize various components research design
- CO3. conceive knowledge on various methods of data collection
- CO4. apply and measure data processing and analysis
- CO5. acquire knowledge on research report writing

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VI   **19LISIC63: Academic Library System**   **Credits: 4**

Learning objectives:

LO1:   To study the role and responsibility of academic libraries
LO2:   To give a clear picture on collection development process
LO3:   To study the services and public relations of academic libraries.

Unit – I University and College Libraries

Role and Responsibility of Academic Libraries – Growth and development of University and College Libraries in India – Role of UGC and Library Committees.

Unit II: Collection Development Process

Definition – Purpose – Steps and factors – principles and policies – merits – evaluation of collection development process.

Unit III: Library Committees and Authorities

University and College Library Authority: Types – Delegation of Authorities – Centralization and Decentralization – Preservation of Reading Materials – Statistics - Files and Records.

Unit IV: Automation in Academic Libraries

Definition – Need and Importance of Automation - University Library Networks in India: INFLIBNET – SOUL – J-ISIS – UGC E-shodhsindhu – E-shodhganga.

Unit V: Academic Libraries services

Documentation Services – Reference Service – Electronic Information Service.

Text Books:

1.   Devarajan,G. et al. Resource Development in Academic Libraries. New Delhi:Ess Ess, 2000.
2.   Parda,B.B: The Growth of Academic Library System, Delhi: Pradeep Publication,1992.
3.   Gudev singh. Academic library system and services,New Delhi: ESS ESS, 2015.

Supplementary Readings:

1. Braden,Ireme A: Undergraduate Library 1970.
2. www.inflibnet.ac.in
3. www.swayam.gov.in
4. Usha,Devi,S.P. University and College Libraries, New Delhi: Ess Ess Publication,1999.
5. Krishnan Kumar and Sesh Patel. Libraries and Librarianship in India, New Delhi: Viva   Books, 2001.

Course outcomes

At the end of the course the students able to
   CO1:   understand role and responsibilities of academic libraries
   CO2:   abel to acquire knowledge on collection development process
   CO3:   conceive knowledge on library committees and authorities
   CO4:   know importance of automation in academic libraries
   CO5:   receive knowledge on recent services of academic libraries

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓

CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VI	19LISIC64: Computer Networks	Credits: 4 Hours:

Learning objectives:

LO1:   To understand the concept of networking
LO2:   To study the techniques and protocols of networks.

UNIT 1: Concept of Networking

Networking Definition and types : Networking Basics – Simple Communication System, Electrical and Optical communication systems -= Components of Network – Scope of Computer Network.

UNIT II: Networks & Technique

Networks- Topology- Data communication in telephone networks, Modem   Dial-up-protocols, switching techniques circuit, store, forward, message and packet switching cell switching , ATM – Network Connecting devices – IP Addressing – Internet Sharing

UNIT III: Network Protocols

Network Protocols and standards – OSI architecture TCP/IP, UDP, FTP, Telnet – Network Connecting devices - IP addressing – Internet Connection sharing

UNIT IV: Network Services

Network services: Electronic mail, Remote login, File Transfer, Teleconferencing, video conferencing, computer mediated conferencing, Facsimile transmission, Tele text – Video text – Net sharing - Local security policy – NIFS Permission – Encryption – Decryption.

UNIT V: Networks in India

Networks in India – INFLIBNET – MALIBNET – NICNET – ERNET – DELNET –CALIBNET – Telephony nets and ATM networks.

Text books

1. Peter King Computer network and data communication, Wiley computer science, 2001
2. David J. Wetherall, Computer networks, Ed. 5,2011.

Supplementary Readings:

1. Comer Internet working with TCP/IP: Vol. I Chennai: TBH publisher, 1994
2. Corner Internet working with TCP/IP: Vol. 2 Chennai: TBH publisher, 1994
3. Comer Internet working with TCP/IP: Vol. 3 Chennai: TBH publisher, 1994

Course outcomes

At the end of the course the students able to

CO1: understand fundamentals of networking systems
CO2: know computer networks and its techniques
CO3: recognize networking protocols and standards
CO4: conceive knowledge on various network services
CO5: evaluate various computer network systems in India

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VI	**19LISIC65: Library Software: Green Stone and SOUL (Theory and Practice)**	**Credits: 4 Hours:**

Learning objectives:

LO1: To inculcate the knowledge of library softwares [Green Stone & SOUL]

Green Stone

` Establish new collection – Select files to include in collection (Gather) – Enrich files with metadata (Enrich) – Select Plugins, Indexes, Classifiers (Design) – Build Collection (Create) – Customize Appearance

Soul

Acquisition – Catalogue – Circulation – OPAC – Serial Control – Administration

Course outcomes

At the end of the course the students able to
CO1: inculcate knowledge on library software Green stone
CO2: gain the knowledge about SOUL software.

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VI	**19LISIC47: Value Education**	**Credits: 3 Hours:**

Learning objectives

LO1:   To help students discern the process of decision making in matters of morality
LO2:   To help students to conceive knowledge on social ethics
LO3:   To evaluate recent issues in ethics

Unit – I

1. Value education – Meaning – Nature and Purpose

2. Importance of Value Education

Unit – II

1. Basic Features of Rational Ethics

2. Moral Consciousness and Conscience

3. Love – the ultimate moral norms

Unit – III

1. Morality and Freedom – Human Freedom and Moral Responsibility

2. God, Religion and Morality

Unit – IV

1. Social Ethics: Value of life and human beings

2. Equality, Fraternity and Liberty

Unit – V

1. Ethical Issues Today: Religious Ethics, Family Ethics

2. Political Ethics – Business Ethics

Text Books

1. Madan, G.R. Indian Social Problems. New Delhi: Allied publishers Ltd, 1966
2. Sharma, R.N. Principles of Sociology. Meerut: Educational Publishers, 1968
3. Herold Titus. Ethics for Today. New Delhi: Eurasia Publishing House, 1964

Supplementary Readings

1. Bhaskaran G. Social Philosophy (Tamil), Tanjore: Tamil University, 1995
2. William K. Frankena. Ethics. Delhi: Prentice Hall of India (P) Ltd., 1999.

Course outcomes
At the end of the course the students able to
   CO1:   understand the basics and importance of Value Education
   CO2:   know about the ethics and moral norms
   CO3:   recognize morality and freedom
   CO4:   conceive knowledge on social ethics
   CO5:   evaluate recent issues in ethics

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓

CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VII	**19LISIC71: International Information System**	**Credits: 4** **Hours:**

Learning objectives:

LO1:   To study the need, function and services of International Information System.
LO2:   To make the students understand the recent trends in Networking of Resources.

UNIT I: Basic Concepts

Definition – Concept – Need Growth and Function of International information systems

UNIT II: Information System in Science

UNISIST – UNESCO – BIOSIS – ICSU – CAS – INIS

UNIT III: Information system in Applied Sciences

INSPEC – COMPENDEX – AGRIS – MEDLARS

UNIT IV: Information System in Social Sciences

DEVSIS

UNIT V: Recent Development

Recent trends and Networking of Resources – Development of Consortium

Text Books

1.   Gorman Digital Feature in Information & Library Services. Chennai, Allied Publishers 2002.
2.   Senguptha, B. Indian reference and Information Sources .Calcutta: World Press, 1981.
3.   Guha, B. Documentation and Information service and systems. Calcutta: World Press,1983.

Supplementary Readings

1. Bopp, Reference and Information Services Age , Chennai Allied Publishers 2005.
2. Correll: Strategic Planning for Library and Information Service Chennai Allied Publishers 1994.
3. Egghe, Elementary Statistics for Effective Library and Information Service, Chennai Allied Publishers 2001.
4. Webb,Fee Based Services in Library and Information Center, Chennai. Allied Publishers, 2003.
5. Broptty, The Library Is The First Century: New Services for The Information Age , Chennai Allied Publishers.
6. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
CO1:   know need and functions of international information systems
CO2:   recognize international level information system in science
CO3:   in calculate knowledge on international information system in applied science
CO4:   conceive knowledge on international information system in social science
CO5:   evaluate recent developments in international information systems

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VII	**19LISIC72: Application of Statistical Tools in Research**	**Credits: 4 Hours:**

Learning objectives:

LO1: To understand the basics of statistics.
LO2: To enable the students to understand the procedure of testing of hypothesis.

UNIT I: Basis of Statistics

Statistics-definition, importance and scope-Limitations of statistics - Collection of Data - Primary & Secondary – Methods of Collection of Data-Classification and Tabulation - Diagramate and Graphic Representation-Rules for constructing diagram and graphs -Types - Limitations of diagrams and graphs.

UNIT II: Central Tendency Vs Dispersion

Measures of Central Tendency:- Requisites of a good average-measures of average: Arithmetic mean, median, mode Geometric mean and Harmonic mean - Measures of dispersion: Characteristics of an ideal measure of dispersion - Standard deviation and co-efficient of variation-Lorenz curve and Gini's co- efficient of concentration.

UNIT III: Correlation & Regression

Correlation - Methods of studying correlation-Karl Pearson's co-efficient of correlation-spearman's Rank Correlation Co-efficient - Simple Linear Regression-Regression equations-Correlation analysis Vs Regression Analysis

UNIT IV: Index & Time Series

Users and Types- Methods of constructing Index Numbers - Time series: Components of Time series-Methods of measuring trend- measurement of seasonal variation (simple average method only)

UNIT V: Testing of Hypothesis

Procedure of testing of hypothesis - Application of Z-Test, T-Test, Chi-Square Test and F-Test- ANOVA One way classification (simple problem only).

Text Books

1. S.C. Gupta, S.C. "Fundamentals of statistics", 6th edition, New Delhi: Himalaya Publishing House, 2004.
2. Gupta, S.P. "Statistical Methods", New Delhi: Sulthan Chand & Sons.2015
3. Purohit, H.C. and Ajay Wagh, Research Methodology Tools and Techniques, New Delhi: Shree Publishers & Distributors, 2009

Supplementary Readings

1.   Elhance, D.N. "Fundamental of Statistics", Kikab Mahal, New Delhi, 1998.
2.   Croxton and Cowder "Applied General Statistics", Prentice of Hall of India, New Delhi, 1973.
3.   www.swayam.gov.in

Course outcomes

At the end of the course the students able to
CO1:   understand basis of statistical application in research
CO2:   gain knowledge on central tendency and dispersions
CO3:   recognize statistical technique correlation and regression
CO4:   conceive knowledge on index and time series
CO5:   apply various statistical tools such as z- test, t-test, ,chi-squire test and ANOVA and use it
         in testing hypothesis

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VII	**19LISIC73: Universal Decimal Classification –** **(Written Practical) (Abridged Edition)**	**Credits: 4** **Hours:**

Learning objectives:

LO1:   To enable the students to understand the classification of books using universal decimal
         classification.
LO2:   Classification of Books and other documents as per Universal Decimal Classification
         Scheme.

Universal Decimal Classification Abridgted Edition.
Text Books

1.   Sardana, J.L. and R.L.Sehgal, Universal Decimal Classification. New Delhi: Ess Ess, 2001
2.   V.V.V.Satyanarayana, Universal decimal classification : A practical primer, 2016.
3.   K.P. Singh, UDC A Manual for classification practical and information, 2013.

Course outcomes

At the end of the course the students able to
  CO1. understand the structure of UDC and gain practical knowledge on construction of class
         number for the titles by using UDC

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓

| CO5 | ✓ | - | - | ✓ | - | - | ✓ | ✓ | - | - | ✓ | ✓ |

Semester-VII   19LISIC74: UNESCO'S ISIS - Theory And Practical   **Credits: 4**
Hours:

Learning objectives:

LO1: To enable the students to understand the features of UNESCO's ISIS.
LO2: To give a clear picture on database designing using WINISIS/J-ISIS.

Theory:

Introduction-Historical Development-Need and Purpose-Features.

Lab:

Database Design - Field Definition Table - Field Select Table - Data Entry Work Sheet - Display Format.

Text Books

1. Saravanan, T, WINISIS for beginners, 2nd ed. Chidambaram: Rajalakshmi, 2010.
2. Saravanan, T, Information Architecture,New Delhi: Ess Ess, 2012.

Supplementary Readings

1. Buxton, Andrew and Hopkinson Alan. The CDS / ISIS for windows handbook. Library association (UK) London, 1994.
2. Neenamegam A. Tutor: A learning and teaching package on hypertext link commands in WINISIS: Ed. 2, Bangalore: SRELS, 2004.

Course outcomes

At the end of the course the students able to
CO1:   understand theoretical knowledge on UNESCO'S ISIS
CO2:   gain practical knowledge on UNESCO' ISIS

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Department Elective

Semester-VII   19LISIE75.1: Information Literacy   **Credits: 3**
Hours:

Learning Objectives:

LO1: To enable the students to understand the concept of information literacy

LO2: To orient on preparation of library promotional materials.
LO3: To teach the methods of digital and online literacy.
LO4: To orient on national and international standard and models of information literacy.

Unit-I

Fundamentals of Information Literacy: Concept, Need and Objectives. Historical perspective of Information literacy. Types of Information Literacy: Technology literacy, media literacy, computer and digital literacy. Levels of Information Literacy: Entry level, Mid level, High level, Advance level.

Unit-II

Lifelong learning and its components.Partners of Information literacy. Information Literacy Products: Library Brochure, Database Brochure, Web-based Access Instructions, Information Bulletin

Unit-III

Models of Information literacy.Information Literacy for users.Information literacy for professionals.Scope of Information Literacy Programme; National Programs in Information Literacy, International Programs in Information Literacy

Unit-IV

Information literacy programmes. Role of Libraries in Information literacy.Information literacy instructions in different types of Library and Information centers.Information Literacy for Users; Information Literacy for Professionals, Information Literacy for Research and Development.

Unit-V

Current trends in Information literacy. Study of Information literacy programs in the world.Information Literacy Competencies.Challenges facing Information literacy.Information Literacy models – SCONUL: ACRL. Case Study- Library Virtual Tours, Awareness on Publishers Tutorials (Springer, Elsevier and Clarivate Analytics)

Text Books:

1. American Library Association. Information Literacy: a position paper on information problem solving (2000). available at:www.ala.org/assl.positions/PS_infolit.html
2. Association of College And Research Libraries. Objectives for Information Literacy Instruction: A Model Statement for Academic Librarians.(2001). ACRL,available at : www.ala.org/acrl/guides/objinfolit.html.
3. Eisenberg, M.B. , Lowe, C.A. & Spitzer, K.L. (2004). Information literacy: Essential skills for Information age. London: Libraries unlimited.

Supplementary Readings:

1. Grassin (E S) and Kaplowitz (J R). Information Literacy Instruction: Theory and Practice. (2001). Neal Schuman, New York.
2. Library Conference Presentation and Speech. (2005).University of Nebraska,Tight (M).Lifelong Learning: Opportunity or Compulsion?. British Journalof Education Studies.Vol. 46; 3 September 1998; 251-263.www.ala.org/at/nill/litt1sthtml
3. ZoranaErcegovac (2008). Information literacy: search strategies, tools & resources for high school students and college freshmen. California: ABC-CLIO.
4. www.swayam.gov.in

Course Outcome

At the end of the course, students can able to

CO1: Acquire skills on basic search strategies
CO2: Acquire skills on search in library OPAC, Web OPAC and Scholarly databases.
CO3: Understand the concept of library literacy and information literacy.
CO4: Learn use of web and mobile management tools.
CO5: Become familiar on preparation on library promotional materials.
CO6: Acquire knowledge on the standard on information literacy digital information literacy.

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VII	**19LISIE75.2: Health Science Library And Information System**	**Credits: 4 Hours:**

Learning Objectives:
  LO1. To learn about Health Science Libraries and their development aspects.
  LO2. To learn about Library collection development and its Management
  LO3. To handle Library organization and administration
  LO4. To handle planning and organization of various information services.
  LO5. To learn about budget, finance and resource management.

UNIT – I:

Health Science Libraries and their Development: Objectives and Functions, History and Development of Libraries with Special Reference to India, Role of Medical Libraries, Information Policies in Health and Family Welfare, Agencies and their Role in the Promotion and Development of Medical Libraries in India.

UNIT – II:

Collection Development and Management Periodicals, Conference Literature, Grey Literature, Patents, Standards, Specifications and Government Publications, Non-Book Materials, Electronic Resources and Online Databases

UNIT – III:

Library Organization and Administration: Organizational Structure Staff Manual, Library Surveys, Statistics and Standards, etc.

UNIT – IV:

Information Services CAS, SDI, Abstracting and Indexing Services Library Bulletin, Newspaper Clipping Services Computerized Services Resource Sharing and Networking Information Literacy Programmes

UNIT – V:

Financial and Human Resource Management, Determination of Finance, Sources of Finance Types of Budget, Nature, Size, Selection, Recruitment, Qualification and Training, Responsibilities and Duties, Competency Development

Text Books:

1. Mugnier, Charlotte. The Paraprofessional and the Professional Job Structure, Chicago: American Library Association, 1980.
2. Murfin, Marjorie E., and Charles A. Bunge. "Paraprofessionals at the Reference Desk." Journal of Academic Librarianship 14 (March 1988): 10-14
3. Mugnier, Charlotte. The Paraprofessional and the Professional Job Structure, Chicago: American Library Association, 1980

Supplementary Readings:

1. Martin, Sara. "Ethics and the Paraprofessional." Library Mosaics 3 (July/August 1992):
2. Kalnin, Mary T. "The Case for the Conference: One Paraprofessional's View." Journal of Education for Library and Information Science 36, no. 1 (Winter 1995).
3. Jahoda, Gerald, and Frank Bonney. "The Use of Paraprofessionals in Public Libraries for Answering Reference Queries." RQ 29 (Spring 1990)
4. Huling, Nancy. " Paraprofessionals at the Reference Desk: Not 'Whether', but 'How'." Alki: WLA Journal 12, no. 2 (July 1996).
5. Heaton, G. T. "Rethinking the Provision of Reference Services in Academic Medical School Libraries." Bulletin of the Medical Library Association 84, no. 1(January 1996)
6. www.swayam.gov.in

Course Outcomes:

At the end of the course, the students can able to

CO1:   To learn about the Development of Health Science Libraries and their information system,
CO2:   To understand about Library Collection Development and Management.
CO3:   To know about Organization and Administration of Libraries.
CO4:   To handle planning and organization of various information services.
CO5:   To learn about Library Budget, Finance and human resource management.

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VIII	**19LISIC81: Anglo-American Cataloguing Rules - II** **(Written Practical) Non-Book Materials**	**Credits: 5** **Hours:**

Learning objectives:

LO1:   To enable the students understand the cataloguing of documents [Non Book materials] using AACR II
LO2:   Cataloguing of Titles of Documents Covering Non-Book Materials Using AACR-II, Sears List of subject headings.

Text books

1. Sears list of subject Heading, 14ᵗʰ Ed. New York: H.W. Wilson, 1991
2. Anglo American Cataloging Rules, 2 Ed. London: Library Association, 1978
3. Michael Gorman, The concise AARC II, Ed.4,2004

Supplementary Readings.

1. K.P. Singh, UDC A Manual for classification practical and information, New Delhi: Ess Ess, 2013.
2. Kumar, P.S.G. and Mohamed Riaz. Cataloguing theory and Practice. New Delhi: S.Chand, 1999.
3. Lal, C and Kumar K, Practical cataloguing AACR II, New Delhi: Ess Ess, 2008.
4. Deborah A. Fritz, Cataloguing with AACR 2 and MARC 21, 2nd ed.USA: Pentagon.2009

Course outcomes

At the end of the course the students able to
CO1:   in calculate knowledge on cataloguing of non book materials using AACR –II

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VIII	**19LISIC82: Bibliometrics**	**Credits: 5 Hours:**

Learning objectives:

LO1:   To make the students to understand the concept, use, theories, laws and parameters of informetrics.
LO2:   To study the students the application of bibliometrics to study the literature in different subjects.

Unit –I: Basic Concepts

Evolution of the concept of Bibliometrics, Librametrics, Scientometrics and Informetrics

Unit –II: Theory and Laws

Theory and Laws - Zipf's law, Lotka's Law, Bradford's Law. Price Theory and Circulation theory.

Unit – III: Quantitative and Qualitative Techniques

Quantitative and Qualitative techniques: Types, Multidimensional scaling, Cluster analysis, Correspondence analysis, Coward analysis SPSS.11.0 version

Unit –IV: Citation Studies

Citation studies; Definition, Theory of citation and different forms of citations, Area of citation – Application of citation, Self–citation, Co-citation, Impact Factor, Bibliographic coupling

Unit V: Databases for Bibliometrics

Web of science – MEDLINE- Histcite- SCOPUS Testing the effectiveness of abstracting and indexing services – advancement and research in bibliometrics.

Text Books

1. Rao, Ravichandra: Quantitative Methods in Library and Information Science. Delhi: Wiley Eastern, 1983.
2. Sengupta, I.N, Bibliometric Research Kolkata; SBA, Publications, 1998.
3. Nicola Debells, Bibliometric and citation analysis, 2009

Supplementary Readings

1. Braun, T: Scientometric indicators, Singapore, World Scientific Publication, 1985
2. Hjerppe, R: An outline of bibliometrics and citation analysis, Stockholm: Royal Institute of Technology Library, 1978
3. Garfield, E: Citation indexing, New York, Inter-Wiley, 1979
4. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
- CO1: understand bibliometrics and Scientometrics
- CO2: know about various theories and laws in bibliometric study
- CO3: recognize quantitative and qualitative techniques
- CO4: conceive knowledge on citation studies
- CO5: acquire knowledge on use of databases for bibliometric study

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VIII	**19LISIC83: Database Creation and Design (Practical)**	**Credits: 5 Hours:**

Learning Objective

LO1: To enable the students to understand concept about the creation and design of database

Ms Access -Bibliographic Database Design – Identification of Elements and Design-Forms-Queries-Records-Import database to other applications.

Text Books:

1. Alex, K. Soft Skills, New Delhi: S. Chand & Company Ltd, 2011
2. Saravanan,T. Library Automation, New Delhi:APH, 2015.
3. Acbert K.W. Yeung and G.Brent Hall, Spatial Database System, 2007.

Supplementary Readings:

1. Saravanan, T, Information Architecture, New Delhi: Ess Ess, 2012.

Course outcomes

At the end of the course the students able to
CO1: gain practical knowledge on creation and design of database

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VIII	**19LISIC84: Corporate Libraries**	**Credits: 4** **Hours:**

Learning objectives:

LO1: To study the nature and need of information service for industry.
LO2: To study the intellectual property issues, patterns as a source of industrial information.

Unit – I: Fundamentals of Corporate Libraries

Concept-Nature-Definition-Objectives-Structure-Functions.

Unit – II: Information Sources in Corporate Libraries

Patent-Copyright-Standard-Trade Literature-Unpublished Documents.

Unit III: Corporate Library Users

Information needs of corporate sector, Types of information services for corporate sector

Unit IV: Services and Products

Abstracting and Indexing – SDI – CAS – Mail alerting – Bulletin Board Service – Information condensation and consolidation – Computerized Information Service – Role of United Nations Industrial Developmental Organization [UNIDO] – National Organization- SENDOC.

Unit V: Intellectual Property Rights

Intellectual Property issues; Patents as a source of Industrial Information; Information systems for patents – E-governance.

Text Books

1. Backwell, K G B. Industrial Libraries throughout the world. Oxford: Pergamon Press, 1969. (International series of monographs in LIS ed. By Chandler)
2. Bhattacharya, G and Gopinath M A., eds. DRTC Annual Seminar. 18: Principles producers and products. Bangalore. DRTC Feb. 23 – 27. 1981
3. Guha, B. Documentation in information services, Techniques and systems. 2nd ed. Calcutta: The World Press, 1983

Supplementary Readings

1. Mukherjee S and Mukherjee I. International transfer of technology. New Delhi: Mittal 1989
2. Neelameghan A. ed. DRTC Seminar on information service for business and industry. Bangalore: DRTC, 1974
3. Rogers, Evert M. Diffusion of innovations. New York: Tefee Press of Gleence, 1962
4. Saunders, W.L. ed. British librarianship today. Londay Library Association 1976
5. Harris Katharine G and Jackson Eugene B eds. Library service to industry. 14 (3), 1966. pp. 223 – 362
6. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
   CO1:   know fundamentals of corporate libraries
   CO2:   To recognize various information sources of corporate libraries
   CO3:   evaluate information needs of corporate library users
   CO4:   access knowledge about various services and products of corporate libraries
   CO5:   conceive knowledge on intellectual property right

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Department Elective

Semester-VIII   **19LISIE85.1: Green Library Technology**   **Credits: 3**
Hours:

Learning Objectives:

LO1:   To help the students learn the upkeep and maintenance of the physical environment of the library atmosphere in an aesthetic as well as energy saving manner supported by Green technologies.

Unit – I

Library Building

Unit – II

Energy Consumption in Libraries; Energy saving methods.

Unit – III

Conservation and preservation of Library resources through natural and traditional methods.

Unit – IV

Green Technologies for Libraries.

Unit – V

Library Environment – cleanliness, air and noise pollution free maintenance water consumption space management gardening – interior and external. Development activities on Garden Library

Text Books:

1. A Green Glossary From the District of Columbia Resident Recourse Center; defines commonly used environmental terms and concepts. (Accessed May 14, 2013)
2. Antonelli, Monika, and Mark McCullough. Greening Libraries. Los Angeles, Library Juice Press, 2012.
3. Antonelli, Monika. 2008. "The Green Library Movement: An Overview and Beyond", Electronic Green Journal 1, no. 27, Article 1. (Accessed May 14, 2013)

Supplementary Readings:

1. Arist, Suzanne. "Going Green in Illinois: Diverse Libraries, Diverse Initiatives." ILA Reporter, Aug. 2010, Vol. 28 Issue 4, p. 4-7.
2. Blame, Amy S. "Creating a Lean, Green, Library Machine: Easy Eco-Friendly Habits for Your Library." Library Media Connection. Jan./Feb. 2010, Vol. 28 Issue 4, p. 24-26.
3. Miller, Kathryn. Public Libraries Going Green. Chicago: American Library Association, 2010.
4. Rickert, Kathleen. "Greening" our college libraries: complete the cycle of the three Rs."College & Research Libraries News 62, no. 8 (September 2001): 825-828.
5. www.swayam.gov.in

Course Outcomes:

At the end of the course, the students can able to,

CO1: Gain knowledge in maintaining the overall library's physical environment and making the library a place of frequent visit not only for information but also for stress relief of the clientele.

CO2: Gain knowledge in assessing the library ecology and environment and control measures to rectify any shortcoming

CO3: Gain knowledge in maintaining an attractive and peaceful library environment creating aesthetic pleasure in the minds of readers/users, making the library a social place for clients' meet.

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VIII	**19LISIE85.2: E-Publishing**	**Credits: 4**
		Hours:

Learning Objectives:

LO1: To orient on electronic publishing and the formats of content organization.
LO2: Enable the students learn the Markup languages.
LO3: Enable the students learn the E-Publishing methods and tools including relevant software.
LO4: Enable the students to attain proficiency in DTP and related areas.

Unit-I

Content: Types of content. Electronic Publishing: Origin, History and Development, and Trends: Digital content types, File formats, Encoding systems ASCII, UNICODE and ISCII.

Unit-II

Concept and Evolution of Authoring Tools; Markup Languages, SGML, HTML and XML.

Unit-III

Page Description Languages: Adobe PDF and Photoshop. Legacy documents- Conversion from analog to digital, OCR Software and Adobe Capture.

Unit-IV

Electronic Publishing and scholarly communication, E-journals and e-books.Platforms, Standards and formats. DTP software.Delivery devices.Social, economic, and legal issues in electronic publishing. Use and usability issues.

Unit-V

Economics of e-publishing.IPR and copyright issues.Multimedia Content Creation: Data Compression Techniques Multimedia Files and Formats – JPEJ, MPEG, GIF, TIFF. Recent trends on E-Publishing Models and Publishers

Text Books:

1. Karen S. W. Marilynn B, Stone, T. A. (2003). Electronic publishing: The definitive guide. UK: HardShell Word Factory.
2. Klostermann, D. (2011). The e-book handbook – A thoroughly practical guide to formatting,publishing, marketing, and selling your e-book. Cambridge: Full Stop.
3. Loton, T. (2011). E-book publishing DIY: the do it yourself guide to publishing e-books, 2nd ed.United States: LOTONtech.
4. Meckler, L. (2011). E-book formatting, self-publishing, marketing tips updated. USA: Linda Emeckler on smash words.

Supplementary Reading

1. Sahida, f. k. (2010). Publishing e-book for dummies. USA: CreateSpace .
2. Schuster, C. (2011). E-publishing for writers: Trends and opportunities/Fall 2011 (Kindle Editioned.). UK: Books to Go Now.
3. Bradley, Phil. The advanced Internet Searcher's Handbook. Ed 2. London: LA, 2002.
4. Parekh, Harsha. Internet in the Scholarly Communication Process. Mumbai, Knowledge ware, 1999.
5. www.swayam.gov.in

Course Outcomes:

At the end of the course, the student can able to
CO1:   Gain knowledge and skills in E-Publishing methods
CO2:   Gain knowledge in designing, marketing and promoting library information products and services by means of multimedia and E-Publishing techniques and strategies
CO3:   Gain knowledge to design, maintain and manage storage and service functioning of library website, blogs of clientele supplemented and supported by multimedia techniques.
CO4:   Gain knowledge to the extent of helping the clientele learn the highways of web authoring and multimedia tools and presentation skills.
CO5:   Attain the knowledge of e-publishing, and Design for Print and multimedia.
CO6:   Importance of the E-publishing technologies
CO7:   Attain the knowledge of Technology for Print: Document structure, document preparation systems, DTP, DDLs, page description languages, text databases, standards
Discuss the Design for Print: Type design, graphic design, composition products, separation; Technology for presenting static and dynamic content on the Internet

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-IX　　　　　　**19LISIC91: Marketing of Information**　　　　**Credits: 5**
　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Hours:

Learning objectives:

LO1:　To make the students understand the marketing of information
LO2:　To study the techniques involved in information marketing
LO3:　To understand the concept of marketing research and marketing plan

UNIT I : Fundamentals of Information Marketing

　　　Information as a resource and commodity – Information product – Nature and Types – Marketing of Information : Needs – methods.

UNIT II : Marketing Concepts

　　　Concept of Marketing and Corporate Mission – Strategies for information marketing for Library Professionals

UNIT III : Marketing Techniques

　　　Market Mix: Designing – Branding – Strategies – Kotler's Four Cs' – McCarthy's Four Ps' – Competition Analysis: Pricing Methods – Market segmentation: Geographic, Demographic, Behavioural – Psychological – Marketing Advertisement.

UNIT IV : Market Research

　　　Type and Scope – Application – Techniques – Marketing Information System: components and functions.

UNIT V : Marketing Plans

　　　Nature of planning – Objectives – Proposed market strategies – Forecasting evaluation – Marketing plan for Library and Information Science – New Technologies in Information Marketing Plan – SWOT analysis.

Text Books

1.　Weihgand, Customer service excellence: A concise guide for Librarians Chennai: Allied Publishers, 2002
2.　Saez, E.E. Marketing Concepts for libraries and information services, Chennai Allied Publications, 1997
3.　Kotler, P, Marketing for Non Profit Organizations, Printice Hall, NJ, 1975.

Supplementary Readings

1.　Pugh. Change management in information services, Chennai: Allied Publishers 2000
2.　Helen Coote, How to Market your Library Services Effectively: Aslin Publication, 1998
3.　Maxine Melling and Joyce Little, Building a successful Customer-service culture: A guide for Library and Information Managers, Chennai: Allied Publishing, 2002.

4.   www.swayam.gov.in

Course outcomes

At the end of the course the students able to
  CO1:   know fundamentals of information marketing
  CO2:   recognize marketing techniques
  CO3:   gain knowledge on market research
  CO4:   evaluate information marketing plans and SWOT analysis.

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-IX	**19LISIC92: Knowledge Management**	**Credits: 5 Hours:**

Learning objectives:

  LO1:   To know the concepts and types of knowledge management
  LO2:   To familiar the knowledge management practices and process in libraries.

Unit –I: Basic Concepts

        Knowledge Management: Concept and definitions – Need for Knowledge Management in the emerging and changing business environment –Understanding knowledge; Types of Knowledge – explicit and tacit Knowledge – Knowledge works - changing role of Library and Information Professionals.

Unit-II: Knowledge Creation and Capturing

        Knowledge creation model – Capturing tacit knowledge

Unit –III: Knowledge Codification and Organization

        Knowledge base – knowledge mapping, decision trees, decision tables, frames etc.

Unit – IV: Tools and Techniques of Knowledge Management

        Neural network – Data Mining – Knowledge management

Unit –V: Application of Knowledge Management

        Components of knowledge strategies – Case studies – Library knowledge centre – Knowledge Management in developing countries.

Text Books

1. Bikowitz, W. R.. Knowledge Management. Delhi: PHI, 2000.
2. Battacharya S, Knowledge management, Ed.1,2012

Supplementary Readings

1. Hildebrand, C. "Information Mapping: Guiding Principles," CIO, 8(18), July 1995, pp. 60-64.

2. Manville, B. & Foote, N. "Harvest your Workers' Knowledge," Datamation, July 1996, v42 n13, pp. 78-80.
3. Nonaka, I. "The Dynamic Theory of Organizational Knowledge Creation," Organization Science, 5(1), February 1994, pp. 14-37.
4. Strapko, W. "Knowledge Management," Software Magazine, 10(13), 1990, pp. 63-66.
5. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
  CO1: understand fundamentals of knowledge management
  CO2: know about knowledge creation and capturing
  CO3: acquire information about knowledge codification and organization
  CO4: know tool and techniques of knowledge management
  CO5: recognize application of knowledge management in libraries

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-IX	19LISIC93: Information Technology Infrastructure in Libraries	Credits: 4 Hours:

Learning objectives

LO1: To study the collection infrastructure and access infrastructure in libraries using IT.
LO2: To understand how to organize a digital resource and how to select the hardware and software infrastructure.

UNIT-I : Collection Infrastructure

Infrastructure: Acquire - Create – Convert - Access.

UNIT-II : Access Infrastructure

Search & Browse - Portals and types.

UNIT-III : Digital Resources Organization

Standard – Protocols: TCP/IP – POP3 – http – IMAP - Access Control.

UNIT-IV : Hardware and software Infrastructure

Servers, Input-output Devices

UNIT-V : Network Infrastructure

Ring Type – Line Type – Star Type – Tree Type – Bus Type

Text Books

1. Devarajan, G. et al. Resource Development in academic Libraries, New Delhi: Ess Ess Publication, 2000
2. Jain, V.K. Information Technology, New Dew Delhi: Atlantic Publishers, 2009

3. Richard Fox, Information Technology, Ed.1, Ohio: Routledge, 2013.

Supplementary Readings

1. American Library of Association Guide to Review of Library collections: Preservation storage and withdrawals, Chicago: ALA.1991.
2. Saravanan, T, Library Automation, : CDM:RTSV, 2013.
3. Marie Keen Shw, Library Technology and Digital Resources, London: Rowman Little Field, 2016.
4. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
CO1: conceive knowledge on collection infrastructure regarding to information technology
CO2: gain knowledge on access infrastructure regarding to information technology
CO3: understand organization of digital resources
CO4: conceive knowledge on hardware and software infrastructure
CO5: recognize network infrastructure facilities

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-IX	**19LISIC94: Internship Training Programme / Field Visit**	**Credits: 4** **Hours:**

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Department Elective

Semester-IX	**19LISIE95.1: Computerized Database and Internet**	**Credits: 3** **Hours:**

Learning Objectives:

LO1:   To understand the fundamentals of Databases and Internet.
LO2:   To enable the students to know about the functions of OPAC, Internet and Databases.
LO3:   To enable the students to know about the concepts of websites and its features.

Unit – 1: Fundamental of Network

Introduction to Networking – Meaning and Types – Network Topology – Internet and Intranet.

Unit – II: OPAC

Online Public Access Catalogue – OPAC Generations – Web OPAC

Unit – III: Internet

Use of Internet as Information Sources – Search Engines – Meta Search Engines.

Unit – IV: Databases

Computerized Databases – Textual Databases and Bibliographic Database.

Unit V: Web Sites

Major Websites, Websites Information – Sources and Direction – Type: Fee Based and Free Information from Websites – DEVISIS – Dissertation, Abstracts.

Text Books:

1. KaushalChuhan and Mahapatra RK, Open Access E Resources in Library and Information Science, New Delhi: EssEss Publications, 2013.
2. RamezElmasri, Shamkant B. Navathe, Fundamentals of Database Management System, 5th Ed., New Delhi: Pearson, 2011.
3. ShefaliNaik, Concepts of Databse Management System, New Delhi: Pearson, 2013.

Supplementary Readings

1. Kerr: Tips and Ericles for Website Managers Chennai Archived Publication 2001.
2. Blackmore: Internats: A Guide to The Design, Implementation and Management. Chennai Allied Publisher 2001)
3. Davies Develop Your Digitaer Service. The Psychol0gy of Information Use Channel.Chennai.Allied Publisher 2001.
4. Holland, L, Teaching The Library Staff and Users. Chennai.Allied Publishers 2000.
5. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
CO1: know the basics of fundamental of network systems
CO2: acquire knowledge about OPAC and its importance
CO3: understand about internet and its main components.
CO4: understand about various databases.
CO5: conceive knowledge about web sites and their types.

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-IX   19LISIE95.2: Electronic Resources Management   **Credits: 3 Hours:**

Learning Objectives:

LO1: Enable the students become familiar with various kinds and types of information sources both in print and digital formats,

LO2: Enable the students obtain thorough knowledge about online databases, and resource sharing and E-Resource management.

LO3: Enable the students obtain thorough knowledge Information/database networks and consortia at the national and international levels.

Unit -I

Information Sources: Concept, Types/ Kinds, Characteristic features and use. Types of sources (Primary, Secondary, Tertiary and Non- Documentary Sources) **-** Evaluation of Information Sources.

Unit -II

Electronic Information resources: Meaning and definition, Growth and development, Types. E-Journals, E-Books, E-Theses, E-newspapers, Blogs, Wikis. Free online Dictionaries, Non-free online dictionaries, Free Thesauri. Encyclopaedia, Virtual Libraries, Subject gateways and Portals

Unit -III

Free databases and fee based bibliographical and full text databases, subject related websites, Institutional repositories, Open Archives and digital Libraries.

Unit -IV

Resource Sharing and Networks: Consortia- Importance and objectives. Study of Information networks and Digital Library Consortia - OCLC, RLIN, INFLIBNET, UGC-INFONET, DELNET, INDEST, FERA, and CSIR e-journal Consortia.

Unit -V

Components of Information System: Libraries, Documentation Centres, Information centres, Data, centers, Data Banks, Museums, Memories, Publishing Houses. Virtual Reference Desk. Current Trends on E-RAMS, Plagiarisms, Remote Access Management

Text Books:

1. Chowdhury, G.G. and Chowdhury, Sudatta (2000). Searching CD-ROM and online Informationsources. London: Library Association.
2. Cooper, M. D. (1996). Design of Library automation systems: File structures, data structures andtools. New York: john Wiley.
3. Dickson, G.W. and Desanctis, G.. Information technology and the future enterprise: New modelsfor managers. New Jersey: Prentice Hall.

Supplementary Readings:

1. Ferris, Jeffrey A. (2000) Windows 2000: Development and desktop management. Indiana: NewRiders.
2. Gopinath, M.A. (1984). Information sources and communication media (Annual Seminar). Bangalore: DRTC
3. http://www.infolibrarian.com
4. Sharma, Jitendra Kumar (2003). Print Media and Electronic Media: Implications for the future. Delhi, Authors press.
5. www.swayam.gov.in

Course Outcomes:

At the end of the course, students can able to

CO1: Gain knowledge about various reference sources such as print, digital and online sources.
CO2: Gain knowledge in E-Resource management
CO3: Gain knowledge in resource sharing techniques and procedures
CO4: Develop a thorough knowledge about the national and international Information networks
CO5: Develop a thorough knowledge about the Information system components, Documentation centres and virtual reference desk

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-X	**19LISIC101: Web Designing and Web Hosting**	**Credits: 5** **Hours:**

Learning objectives:

LO1. To familiarize the need and concept of web designing.
LO2. To make the students to understand the library service through World Wide Web.
LO3. To make them to understand the concept of Web OPAC.

UNIT-1: Basic Concepts

Web Designing and Technologies – Concepts – Definition and Need - Designing websites – web server and web hosting – Domain names.

UNIT-II: Web Designing Tools

MS front page – Dreamweaver – Merits and Demerits – Introduction to Content development tools.

UNIT-III: HTML

Definition, Sample Codes – HTML Document types - Elements, Attributes , Formatting, fonts, styles, links, images tables and frames.

UNIT-IV: Library Services through Web

E-resources features – Access features – Download features – Data format – Merits and Demerits – Web blocks – web servers – database connectivity – Open URL – search engines – access tools standards and Protocols.

UNIT-V: WEB OPAC

Menu features –Link to sources – Link features – Sub link features – Access features – open source softwares – application in libraries –Online Library catalogue.

Text Books

1. Venugopal, M.V. and G.N. MURTHY, Vistas in Library information. System and Networks - New Delhi: Ess Ess Publication. 2001
2. Jennifer Robbins, Learning Web Design, O Reilly Media, 2019

3. Satish Jain, Ambrish K. Rai, M. Geetha, Web Designing and Development, Chennai: BPB Publisher, 2015.

Supplementary Readings

1. Powell, A. Thomas, Web Design: The Complete Reference, New Delhi: Tata McGraw Hill, 2000.
2. John, McCoy. Mastering Web Design, New Delhi: McMillan publishers, 1996
3. Rob Larsen, Beginning HTML and CSS, New Jersy: Job Wiley and Sons Inc, 2013.
4. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
    CO1:   familiarize basic concepts on web designing and web hosting
    CO2:   understand web designing tools
    CO3:   gain knowledge on HTML document types
    CO4:   evaluate library services through web
    CO5:   in calculate knowledge on web OPAC

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-X	**19LISIC102: Digital Libraries (Swayam)**	**Credits: 5 Hours:**

Learning objectives:

LO1:   To study the objectives and scope of digital libraries.
LO2:   To make the students understand the digital library softwares.
LO3:   To inculcate the knowledge on E-Resources like e-books and e-journals etc.

UNIT I: Basic Concepts

Digital Library: Definitions – Fundamentals – Characteristics – Nature of Digital Collections – File Formats

UNIT II: Design and Organization

Design and Organization of Digital Libraries: Architecture – Protocols – Metadata – Standards – User Interfaces

UNIT III: Digital Resource Management

Access to use of Digital Libraries – Storage – Archiving and Digital Preservation

UNIT IV: Open Source Initiatives

Swayam: Meaning, Objectives, Concepts, MOOCs - Open Archive Initiative (OAI) – Open Source Software's: GSDL – D space – E print

UNIT V: Institutional Repositories

Definition – Planning for Digitization – Digital Source Services – Digital Initiatives in India

Text Books

1. Anil K Dhiman and Yashada Rani, Manual of Digital Libraries, New Delhi: Ess Ess Publications, 2012.
2. Rafel Wagner, Digital Library, USA: Larsen and Keller Education, 2017.
3. Upadhyay, Rashmi. Digital Library Management, New Delhi: Alfa Publications, 2011

Supplementary Readings

1. Lansastes, F.W. Information Retrieval Online, 1973
2. Arladi, Susan. Introduction to computer in information science, 1972
3. Bisco, R.L. Database, Computer and social science, 1979
4. Tiwari, Purushotham Digital Library, New Delhi: A.P.H Publishing Corporation, 2011
5. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
   CO1: know basic concepts regarding to digital libraries
   CO2: incalculate on institutional repositories
   CO3: make the student to understand digital library software
   CO4: understand open source software

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-X	**19LISIC103: Technical Writing**	**Credits: 5** **Hours:**

Learning objectives:

LO1: To study the characteristics and features of technical writing.
LO2: To teach the students how a language may be used as a medium for communication.
LO3: To familiarize the concept of repackaging of information
LO4: To identify the editorial process involved in technical writing.

Unit I: Basic Concepts

   Communication Process – Characteristic, Features of Technical Writing – Reader, Writer Relationship

Unit II: Components of Technical Writing

   Language as a Medium for Communication of thought – Readability and Text – Aberrations in Technical writing

Unit III: Organization of Data

Organization and Presentation of Data in Abstract – Textual matter - References - Preparation of popular articles, technical reports, monographs - House journals

Unit IV: Repackaging of information

Preparation of review article – Trend report - progress reports

Unit V: Editorial process

Editorial tools, use of style manuals and proof reading

Text Books

1. Forsyth, Patrick. How to be better at writing reports and proposals. London: The Industry Society. 1998.
2. Basu, BN, Technical Writing, Chennai: PHI Publisher, 2008.
3. Neelameghan, A. Presentation of ideas in technical writing. New Delhi: Vikas Publishing house Ltd. 1975.

Supplementary Readings

1. Kumar, Krishna. Reference service. New Delhi, Vikas Publishing Ltd. 1993.
2. Khanna, J.K. Communicating knowledge. V-1- gateway to knowledge. Kurukshetra, Research Publication. 1997 p.84-139
3. Weismann, Hermann M. Basic technical writing. 4th ed. Columbus, Charles E. Merrill Publishing Co. 1980 p. 215-238
4. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
    CO1:   understand the characteristics and features of technical writing.
    CO2:   familiarize the components of technical writing
    CO3:   receive knowledge on organization of different types of data
    CO4:   identify the editorial process involved in the technical writing

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Department Elective

Semester-X	19LISIE104.1: Agricultural Science Library and Information System	Credits: 3 Hours:

Learning Objectives:

LO1:   To learn about Agricultural Science Libraries and their development aspects.
LO2:   To learn about Library collection development and its Management
LO3:   To handle Library organization and administration
LO4:   To handle planning and organization of various information services.

LO5:   To learn about budget, finance and resource management.

UNIT–I:

Agricultural Science Libraries and their Development, Objectives and Functions, History and Development of Libraries with Special Reference to India, Role of ICAR, Committees and Other Agencies in the Development of Agricultural Libraries in India

UNIT–II:

Collection Development and Management, Periodicals, Conference Literature, Grey Literature, Patents, Standards, Specifications and Government Publications etc. Non-Book Materials, Electronic Resources and Online Databases

UNIT–III:

Library Organization and Administration: Organizational Structure, Staff Manual, Library Surveys, Statistics and Standards etc.

UNIT–IV:

Information Services, CAS, SDI, Abstracting and Indexing Services, Library Bulletin, Newspaper Clipping Services, Computerized Services, Resource Sharing and Networking: AGRIS, INAGRIS, CABI, etc. Information Literacy Programmes.

UNIT–V:

Financial and Human Resource Management, Determination of Finance, Sources of Finance, Types of Budget, Nature, Size, Selection, Recruitment, Qualification and Training, Responsibilities and Duties, Competency Development.

Text Books:

1. Blanc hard. J. R. (1968). Agricultural libraries and collections. In A. Kent & H. Lancour (Eds.),Encyclopedia of library and information science (vol.1,). New York: Marcel Dekker, Inr.
2. Lancaster, F. W., & Beecher, J. W. (1981). Agricultural librarianship and documentation as a profession. In Agricultural information to hasten development (proceedings of the 6th World Congress of the International Association of Agricultural Librarians and Documentalists). Los Banos: Agricultural Libraries Association of the Philippines.

Supplementary Readings:

1. Marti, D. B. (1986). Historical directory of American agricultural fairs. Westport, CT: Greenwood Press.
2. Giandonato, R. H. (1947). An agricultural research library. Special Libraries, 38(4),
3. Greathouse, C. H. (1899). Development of agricultural libraries. In Yearbook of Agriculture 1999. Washington, DC: LJ. S. Department of Agriculture.
4. www.swayam.gov.in

Course Outcomes:

At the end of the course, the students can able to
CO1:   To learn about the Development of Agricultural Science Libraries and their information system with special reference to India.
CO2:   To understand about Library Collection Development and Management.
CO3:   To know about Organization and Administration of Libraries.
CO4:   To handle planning and organization of various information services.
CO5:   To learn about Library Budget, Finance and human resource management.

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6

CO1	✓	--	--	✓	--	--	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-X	**19LISIE104.2: Engineering and Technological Library & Information System**	**Credits: 3 Hours:**

Learning Objectives:

LO1:   To learn about Engineering and Technology Libraries and their development aspects.
LO2:   To learn about Library collection development and its Management
LO3:   To handle Library organization and administration
LO4:   To handle planning and organization of various information services.
LO5:   To learn about budget, finance and resource management.

UNIT–I:

Engineering and Technological Libraries and their Development: Objectives and Functions, History and Development of Libraries with Special Reference to India, Role of Engineering and Technological Libraries, Role of Agencies in the Growth and Development of Engineering and Technological Libraries in India

UNIT–II:

Collection Development and Management: Periodicals, Conference Literature, Grey Literature, Patents, Standards, Specifications and Government Publications, Non-Book Materials Electronic Resources and Online Databases

UNIT–III:

Library Organization and Administration, Organizational Structure, Staff Manual, Library Surveys, Statistics and Standards etc.

UNIT–IV:

Information Services: CAS, SDI, Abstracting and Indexing Services, Library Bulletin, Newspaper Clipping Services, Computerized Services, Resource Sharing and Networking: INDEST – AICTE Consortium, Information Literacy Programmes

UNIT–V:

Financial and Human Resource Management, Determination of Finance, Sources of Finance, Types of Budget, Nature, Size, Selection, Recruitment, Qualification and Training, Responsibilities and Duties, Competency Development.

Text Books:

1. Bennett, G. E. (1988). Librarians in search of science and identity: The elusive profession. Metuchen, NJ: Scarecrow Press.
2. Cortada, J.W. (2011). Information in the modern enterprise. Cambridge, MA: MIT Press.

Supplementary Readings:

1. Armstrong, A. (2000). Technique and technology: Script, print and poetics in France, Oxford: Oxford University Press.

2. Batty, C.D. (2005). Intelligence work and information science. In: Williams, R.V. &Lipetz, B.A. (Eds.) Covert and Overt: Recollecting and Connecting Intelligence Service and Information Science, Medford, NJ: Information Today, Inc. and Scarecrow Press for the American Society for Information Science. (ASIST Monograph Series)
3. Dudley, L. (2008). Information revolutions in the history of the West.Northampton, MA: Edward Elgar,
4. Williams, R.V. (2012). Introduction. In T. Carbo and T.B. Hahn, (Eds.), International Perspectives on the History of Information Science and Technolog. Medford, NJ: Information Today, Inc., for the American Society for Information Science and Technology.
6. www.swayam.gov.in

Course Outcomes:

At the end of the course, the students can able to

CO1: To learn about the Development of Engineering and Technology Libraries and their information system with special reference to India.
CO2: To understand about Library Collection Development and Management.
CO3: To know about Organization and Administration of Libraries.
CO4: To handle planning and organization of various information services.
CO5: To learn about Library Budget, Finance and human resource management.

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-X	**19LISIC106: Project Work / InPlant Training**	**Credits: 5**
		Hours:

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Crash Course	**Research & Techynical Library and Information System**	**Hours:**

Learning Objectives:

LO1: To learn about the Development of Research and Technical Libraries.
LO2: To understand about Library Collection Development and Management.
LO3: To know about Organization and Administration of Libraries.
LO4: To handle planning and organization of various information services.
LO5: To learn about finance and resource management.

UNIT-I:

Research and Technical Libraries and their Development: Objectives and Functions, History and Development of Libraries with Special Reference to India, Role of Special Libraries and its Relationship with Parent Organization, Types and Functions of Special Libraries, Agencies and their Role in the Promotion and Development of Research and Technical Libraries

UNIT-II:

Collection Development and Management: Periodicals, Conference Literature, Grey Literature, Patents, Standards, Specifications and Government Publications, Non-Book Materials, Electronic Resources and Online Databases

UNIT-III:

Library Organization and Administration**:** Organizational Structure, Staff Manual, Library Surveys, Statistics and Standards, etc.

UNIT-IV:

Planning and Organization of Various Information Services: CAS, SDI, Abstracting and Indexing Services, Library Bulletin, Newspaper Clipping Services, Computerized Services, Resource Sharing and Networks: RLIN, OCLC etc.

UNIT - V: Financial and Human Resource Management

Determination of Finance, Sources of Finance, Types of Budget, Nature, Size, Selection, Recruitment, Qualification and Training, Responsibilities and Duties, Competency Development

Text Books:

1. AUGER (C P): Information sources in grey literature (Ed. 3, 1994) Bowker, London.
2. CHAPMAN (Liz): Managing acquisitions in library and information services (2001) Library Associations, London.
3. GROGAN (N): Science and technology: an introduction to the literature (Ed. 4, 1982) Clive Bingley, London.

Supplementary Readings:

1. LAWES (Ann),: Ed. Management skills for the information manager (19930 Gower Publishing, London.
2. RAITT (David): Ed. Libraries for the new millennium (1997) Library Association, London.
3. SAHA (J): Special libraries and information services in India and the USA (1969) Scarecrow, New York.
4. SCAMMELL (AW): Ed. Handbook of special librarianship and information work (Rev. Ed. 7, 1997) Aslib, London.
5. SINGH (S P): Special libraries in the electronic environment (2005) Book well, New Delhi.
6. www.swayam.gov.in

Course Outcomes:

At the end of the course, the students can able to

CO1. To learn about the Development of Research and Technical Libraries their history, objectives etc.,
CO2. To understand about Library Collection Development and Management.
CO3. To know about Organization and Administration of Libraries.
CO4. To handle planning and organization of various information services.
CO5. To learn about Library Budget, Finance and human resource management.

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	--	--	✓	--	--	✓	✓	--	- -	✓	✓

CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Electives Courses Offered to Other Departments

Semester-VIII	**19LISIE86.1 : Documentary and Electronic Information Sources**	Credits: 3 Hours:

Learning Objectives:

LO1: To orient on Information Sources, Concepts, Types and Evaluation.
LO2: Enable the students learn the Meaning and Definition, Types of E-Contents.
LO3: Enable the students learn about data bases, Websites, Digital Library.
LO4: Enable the students to attain proficiency Resource Sharing and Library Networks.
LO5: To learn about the components of Information System.

Unit -1

Information Sources: Concept, Types/ Kinds, Characteristic features and use. Types of sources (Documentary and Non- Documentary Sources) **-** Evaluation of Information Sources.

Unit -2

Electronic Information resources: Meaning and definition, Growth and development, Types. E-Journals, e-Books, e-Theses, e-newspapers, Blogs, Wikis. Free online Dictionaries, Non-free online dictionaries, Free Thesauri. Encyclopaedia, Virtual Libraries, Subject gateways and Portals

Unit -3

Free databases and fee based bibliographical and full text databases, subject related websites, Institutional repositories, Open Archives and digital Libraries.

Unit 4

Resource Sharing and Networks: Consortia- Importance and objectives. Study of Information networks and Digital Library Consortia - OCLC, RLIN, INFLIBNET, UGC-INFONET, DELNET, INDEST, FERA, and CSIR e-journal Consortia.

Unit 5

Components of Information System: Libraries, Documentation Centres, Information centres, Data centers, Data Banks, Museums, Memories, Publishing Houses. **-** Virtual Reference Desk.

Text Books:

1. Chowdhury, G.G. and Chowdhury, Sudatta (2000). Searching CD-ROM and online Information sources. London: Library Association.
2. Cooper, M. D. (1996). Design of Library automation systems: File structures, data structures and tools. New York: john Wiley.
3. Dickson, G.W. and Desanctis, G.. Information technology and the future enterprise: New models for managers. New Jersey: Prentice Hall.

Supplementary Readings:

1. Ferris, Jeffrey A. (2000) Windows 2000: Development and desktop management. Indiana: NewRiders.
2. Lesk, Michael (1997). Practical digital Libraries: Books, bytes and bucks. San Francisco: Morgan Kaufmann..
3. Sharma, Jitendra Kumar (2003). Print Media and Electronic Media: Implications for the future.Delhi, Authorspress.Press, Tolowa, N.J
4. http://www.infolibrarian.com
5. www.swayam.gov.in

Course Outcome:

At the end of the course, the students can able to

CO1: To orient on Information Sources, Concepts, Types and Evaluation.
CO2: Enable the students learn the Meaning and Definition, Types of E-Contents.
CO3: Enable the students learn about data bases, Websites, Digital Library.
CO4: Enable the students to attain proficiency Resource Sharing and Library Networks.
CO5: To learn about the components of Information System.

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-VIII   19LISIE86.2 : Electronic Resources Management System   **Credits: 3**
Hours:

Learning Objectives:

LO1: Enable the students become familiar with various kinds and types of information sources both in print and digital formats,
LO2: Enable the students obtain thorough knowledge about online databases, and resource sharing and E-Resource management.
LO3: Enable the students obtain thorough knowledge Information/database networks and consortia at the national and international levels.

Unit -I

Information Sources: Concept, Types/ Kinds, Characteristic features and use. Types of sources (Primary, Secondary, Tertiary and Non- Documentary Sources) **-** Evaluation of Information Sources.

Unit -II

Electronic Information resources: Meaning and definition, Growth and development, Types. E-Journals, E-Books, E-Theses, E-newspapers, Blogs, Wikis. Free online Dictionaries, Non-free online dictionaries, Free Thesauri. Encyclopaedia, Virtual Libraries, Subject gateways and Portals

Unit -III

Free databases and fee based bibliographical and full text databases, subject related websites, Institutional repositories, Open Archives and digital Libraries.

Unit -IV

Resource Sharing and Networks: Consortia- Importance and objectives. Study of Information networks and Digital Library Consortia - OCLC, RLIN, INFLIBNET, UGC-INFONET, DELNET, INDEST, FERA, and CSIR e-journal Consortia.

Unit -V

Components of Information System: Libraries, Documentation Centres, Information centres, Data, centers, Data Banks, Museums, Memories, Publishing Houses. Virtual Reference Desk. Current Trends on E-RAMS, Plagiarisms, Remote Access Management

Text Books:

1. Chowdhury, G.G. and Chowdhury, Sudatta (2000). Searching CD-ROM and online Informationsources. London: Library Association.
2. Cooper, M. D. (1996). Design of Library automation systems: File structures, data structures andtools. New York: john Wiley.
3. Dickson, G.W. and Desanctis, G.. Information technology and the future enterprise: New modelsfor managers. New Jersey: Prentice Hall.

Supplementary Readings:

1. Ferris, Jeffrey A. (2000) Windows 2000: Development and desktop management. Indiana: NewRiders.
2. http://www.infolibrarian.com
3. http://www.Libraryspot.com
4. http://www.refdesk.com
5. Sharma, Jitendra Kumar (2003). Print Media and Electronic Media: Implications for the future. Delhi, Authors press.
6. www.swayam.gov.in

Course Outcomes:

At the end of the course, students can able to

CO1: Gain knowledge about various reference sources such as print, digital and online sources.
CO2: Gain knowledge in E-Resource management
CO3: Gain knowledge in resource sharing techniques and procedures
CO4: Develop a thorough knowledge about the national and international Information networks
CO5: Develop a thorough knowledge about the Information system components, Documentation centres and virtual reference desk

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-IX	**19LISIE96.1 : Intellectual Property Rights and Right to Information**	**Credits: 3 Hours:**

Learning objectives

LO1: To give a clear, comprehensive and realistic perspective of IPR, Copy Right Laws, Cyber laws and Cyber Crimes etc.
LO2: To create awareness among students about the IPR, Cyber crimes and Laws
LO3: To enable the students to understand the current status of laws at national & International level

Unit – I: Basic Concepts

IPR – Definition – Need and Purpose – Forms of IPR – IPR in Digital Era – Right to Information – Definition – Need and Purpose of IPR

Unit – II: History and Development

Copy Right Law – History and Development – Need – Violations of Copy Right Law

Unit – III: Cyber Crimes

Cyber Crimes – Definition – Types of Cyber Crimes – Protections

Unit – IV: Cyber Laws

Cyber Laws – National Status – International Status – Implementation and Amendment

Unit – V: Legislation

Legislation – Control and Supervisions – Merits and Demerits – Patents and Standards

Text Books:

1. Maskus, Keith E, Intellectual Property Rights in the Global Economy, Washington, 2000
2. Davis, Jennifer Intellectual Property Law, London: Butterworths, 2001

Supplementary Readings:

1. Narayan P.S Intellectual Property Law in India, Hyderabad: Gogia Law Agency, 2001
2. Sharma, Brijkishore. Copyright law in respect of books. New Delhi. The Federation of Indian Publishers, 2006
3. Watel, Jayashree. Intellectual property rights in the WTO and developing countries, London:Oxford University Press, 2001
4. Correa, Carlos M. Intellectual property rights, the WTO and developing countries, New York: Zed Books, 2000.
5. www.swayam.gov.in

Course outcomes

At the end of the course the students able to
    CO1. know basic concepts of IPR
    CO2. know history and development of copy right law
    CO3. conceive knowledge on cyber crimes and its protection
    CO4. recognized cyber laws
    CO5. evaluate legislation regarding to IPR

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓

Semester-IX   **19LISIE96.2 : Web Based Information Service**   **Credits: 3**
                                                                                              Hours:

Learning Objectives:

LO1:   To help the students become familiar with a wide range of online web based services.

Unit-I

Web OPAC, Mobile OPAC; Multi Web OPAC: OCLC Information Alert; Online Display, E-Mail, and Mobile Casting.

Unit-II

Access to E-Books, E-Journal, ETD, Bibliographic Databases and online Coursewares

Unit-III

Compilation of Citation Profile: Impact factor, Citation, H-Index
Research Information System; Profile Management System; Subject Expert System

Unit-IV

Reference Management System: Mendeley, Endnote, Reference work etc.

Unit-V

Discussion Forum; Group mail, and online Feedback: Web Blog, Website Online SDI, Advancement study on Webinar, Web OPAC, RSS Feeds, Group mail

Text Books:

1. Balas, Janet L. A Librarian's Work will never be done. Computer in Libraries. 19; 10,1999. 46-50p.
2. Das, Suchitra. Information Resources on Internet and Information Services in Library and Information Centers. SRELS Journals of Information Management. 37; 1, 2000. 49p
3. Green, Elisabeth and Head, Allison J. Web-based cataloguing. Online.22; 4, 1998. 98p.

Supplementary Readings:

1. Hartzer, Sandra., Paterson, Brian., Snyman, Dorette. Web Information Services at the University of South Africa Library. Library Trends. 47; 1,1998.
2. http://bulldog.unca.edu/~greene/webservices.html
3. Jagajeevan, V.K. Developing and electronic SDI Service at the IIT Kharagpur. Program.33; 2,1999.
4. Place, Emma. International collaboration on Internet Subject. IFLA Journal. 26; 1,2000.
5. Trends in Library and Information Science. K.M. Shukla, K.J. Majmudar ed., Jaipur. RBSA.1995.
6. www.swayam.gov.in

Course Outcomes:

At the end of learning program of this paper, the student can able to

CO1:   Acquire a thorough knowledge about the online information resources required for research program of the institution and the clientele
CO2:   complete professional skills in identifying the relevant online source, retrieving and downloading data/information for the clientele and means of online information delivery.
CO3:   Become capable of working along with the scholars/researchers right from the initial bibliography compilation point to the end of report writing fulfilling participative research role of the librarian as well as help the scholars identify the appropriate channel to publish.

CO4: The capability of educating the users on the significance of citation, impact factor and means to be a continuant in research publishing performance.

CO5: Gain professional confidence in helping scholars to understand the significance of citation and its management with online software like Mendeley as well as the significance of Plagiarism checker software.

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	- -	- -	✓	- -	- -	✓	✓	--	- -	✓	✓
CO2	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓
CO3	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO4	✓	-	-	✓	-	-	✓	✓	✓	✓	✓	✓
CO5	✓	-	-	✓	-	-	✓	✓	-	-	✓	✓