Affiliated Colleges

Manonmaniam Sundaranar Univesity

Tirunelveli 627 012

M.Lib.I.Sc.,(One Year)

Master of Library and Information Science.

SYLLABUS

FROM THE ACADEMIC YEAR

2025 - 2026

M.S.U

TAMIL NADU STATE COUNCIL FOR HIGHER EDUCATION

CHENNAI – 600 005.

CONTENTS

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TANSCHE REGULATIONS ON LEARNING OUTCOMES-BASED CURRICULUM FRAMEWORK FOR POSTGRADUATE EDUCATION	
Programme	**M.Lib.I.Sc.,**
Programme Code	
Duration	**PG - One Years**
Programme Outcomes (Pos)	**PO1: Problem Solving Skill** Apply knowledge of Management theories and Human Resource practices to solve business problems through research in Global context. **PO2: Decision Making Skill** Foster analytical and critical thinking abilities for data-based decision-making. **PO3: Ethical Value** Ability to incorporate quality, ethical and legal value-based perspectives to all organizational activities. **PO4: Communication Skill** Ability to develop communication, managerial and interpersonal skills. **PO5: Individual and Team Leadership Skill** Capability to lead themselves and the team to achieve organizational goals. **PO6: Employability Skill** Inculcate contemporary business practices to enhance employability skills in the competitive environment. **PO7: Entrepreneurial Skill** Equip with skills and competencies to become an entrepreneur. **PO8: Contribution to Society** Succeed in career endeavors and contribute significantly to society. **PO 9 Multicultural competence**

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	Possess knowledge of the values and beliefs of multiple cultures and a global perspective. **PO 10: Moral and ethical awareness/reasoning** Ability to embrace moral/ethical values in conducting one's life.
Programme Specific Outcomes (PSOs)	**PSO1 – Placement** To prepare the students who will demonstrate respectful engagement with others' ideas, behaviors, beliefs and apply diverse frames of reference to decisions and actions. **PSO 2 - Entrepreneur** To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate startups and high potential organizations. **PSO3 – Research and Development** Design and implement HR systems and practices grounded in research that comply with employment laws, leading the organization towards growth and development. **PSO4 – Contribution to Business World** To produce employable, ethical and innovative professionals to sustain in the dynamic business world. **PSO 5 – Contribution to the Society** To contribute to the development of the society by collaborating with stakeholders for mutual benefit.

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Credit Distribution for PG Programme

Semester-I	**Credit**	**Semester– II**	**Credit**
1.1. Core-I	4	2.1. Core-V	5
1.2 Core-II	4	2.2 Core-VI	5
1.3 Core – III	4	2.5 Project with Viva-Voce	7
1.4 Elective (Generic / Discipline Centric) – IV	4	2.4 Elective (Generic / Discipline Centric) – VIII	3
1.5 Core Industry Module	4	2.7 Skill Enhancement Course - Professional Competency Skill	2
1.6 Ability Enhancement Course- Soft Skill -3	2	2.8 Extension Activity	1
1.8 Internship/ Industrial Activity	4		
	26		**23**
Total		49	

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Component wise Credit Distribution

Credits	Sem I	Sem I I	Total
Part A	**20**	**18**	**38**
Part B			
(i)Discipline– Centric/Generic Skill	**2**	**2**	**4**
(ii)Soft Skill	**2**	**2**	**6**
(iii)Summer Internship/Industrial Training	**2**		
Part C		**1**	**1**
Total	**26**	**23**	**49**

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METHODS OF EVALUATION		
Internal Evaluation	Continuous Internal Assessment Test	**25 Marks**
	Assignments / Snap Test / Quiz	
	Seminars	
	Attendance and Class Participation	
External Evaluation	End Semester Examination	**75 Marks**
Total		**100 Marks**

METHODS OF ASSESSMENT	
Remembering (K1)	• Thelowestlevelofquestionsrequirestudentstorecallinformationfromthecoursecontent • Knowledgequestionsusuallyrequirestudentstoidentifyinformationinthetextbook.
Understanding (K2)	• Understandingoffactsandideasbycomprehendingorganizing,comparing,translating,interpolatingandinterpretingintheirownwords. • Thequestionsgobeyondsimplerecallandrequirestudentstocombinedatatogether
Application (K3)	• Studentshavetosolveproblemsbyusing/applyingaconceptlearnedintheclassroom. • Studentsmust usetheir knowledgetodetermineaexactresponse.
Analyze (K4)	• Analyzingthequestionisonethataskthestudentstobreakdownsomethingintoitscomponentparts. • Analyzingrequiresstudentstoidentifyreasonscausesormotivesandreachconclusionsorgeneralizations.
Evaluate (K5)	• Evaluationrequiresanindividualtomakejudgmentonsomething. • Questionstobeaskedtojudgethevalueofanidea,acharacter,aworkofart,orasolutiontoaproblem. • Studentsareengagedindecision-makingandproblem–solving. • Evaluationquestionsdonothavesinglerightanswers.
Create (K6)	• Thequestionsofthiscategorychallengestudentstogetengagedincreativeandoriginalthinking. • Developingoriginalideasandproblemsolvingskills

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PROGRAMME OUTCOMES (PO) - PROGRAMME SPECIFIC OUTCOMES (PSO) MAPPING

PROGRAMME SPECIFIC OUTCOMES (PSO)					
	PO1	**PO2**	**PO3**	**PO4**	**PO5**
PSO1	**3**	**3**	**3**	**3**	**3**
PSO2	**3**	**3**	**3**	**3**	**3**
PSO3	**3**	**3**	**3**	**3**	**3**
PSO4	**3**	**3**	**3**	**3**	**3**
PSO5	**3**	**3**	**3**	**3**	**3**

Level of Correlation between PO's and PSO's
(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value
1 – Low
2 – Medium
3 – High
0 – No Correlation

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FIRST YEAR - First SEMESTER

Core – I	Research Methods **ELSC33**	4	6	Theory	25	75	100
Core-II	Electronic Resources Management **ELSC31**	4	6	Theory	25	75	100
Core – III	Academic and Research Librarianship **(Core) ELSC32**	4	6	Theory	25	75	100
Core-IV	Applications of ICT in Libraries **ELSL31**	4	6	Practical	50	50	100
Elective - V Discipline Centric	Any One Metrics Study **ELSEA**	4	3	Theory	25	75	100
Elective	Web Technology **ELSNE2**	2	3	Theory	25	75	50
Internship/ Industrial Activity	Internship and Field Work Project **(Report & Viva) ELSI31**	4					
	Total	26					

SECOND SEMESTER

Core-VI	Marketing of Information Products and Services **(Core) ELSC41**	5	6	Theory	25	75	100
Core- VII	Knowledge Management **(Core) ELSC42**	5	6	Theory	25	75	100
Project	**Project & Comprehensive** with *viva voce* **ELSP41**	7	10	Project	40	60	100
Elective - VIII (Industry / Entrepreneurship)	**(Any One)** Technical Writing Information sources in science and technology	3	4	Theory	25	75	100
Skill Enhancement course / Professional Competency Skill	Soft Skills (KOHA, Excel, D-Space, Greenstone)	2	4	Practical	50	50	100
Extension Activity		1					
		23	**30**				

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Grand Total	49					

SEMESTER - I

Course Code	22LISAC09	ELECTRONIC RESOURCES MANAGEMENT	L	T	P	C
Core/Elective/Supportive		Core	-	-	-	4
Pre-requisite		Electronic Resources Knowledge may learn to Management				

Course Objectives:

1. To learn about selection, licensing, and evaluation of electronic resources.
2. To critically examine the laws and policies that made an impact on electronic resource management.
3. To know the critical technologies and standards behind electronic resource management.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Identify different types of e-resources	K1
2	Known the selection process of e-resources.	K2
3	Build good collection of e-resources.	K3
4	Evaluate web resources.	K4
5	Create good collection of e-resources for the demand of users.	K5

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

Unit:1	Electronic Resources Overview	14 hours

Electronic Resources: Overview, concept, definition, evolution, need, characteristics, benefits and drawbacks – E-Resource life cycle.

Unit:2	Electronic Resource Management Systems (ERMS)	14 hours

Electronic Resource Management Systems (ERMS): Selecting, acquiring/ subscription/ purchasing, implementation, evaluation and renewing electronic resources/ cancellation. Techniques for Electronic Resource Management (TERMS), Strategic planning for ERM – Media and Format Migration

Unit:3	Economics of e-Resources	14 hours

Economics of E-resources – Pricing. Access management of E-resources: authentication and access management of e-resources. Subscription models: copyright, licenses and tactics and terms in the negotiation of e-resources licenses

Unit:4	Collection Development Process:	14 hours

Formulating policy, budgeting, evaluation of e-resources. Strategic planning for ERM, Electronic r-resources usage statistics, standards and guidelines (SUSHI – COUNTER) – LOCKS, CLOCKS

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Unit:5	Consortia	14 hours
Concept, need, purpose & limitations; E-ShodhSindhu: Consortium for Higher Education Electronic Resources. ERMS tools – commercial, in-house, Open source - Recent Trends in ERMS: Future of ERMS, hardware and software changes, user behavior and expectations,		
Unit:6	**Contemporary Issues**	**02 hours**
Expert Lectures, Online Seminars - Webinars		
	Total Lecture hours	**72 hours**

Text Book(s)	
1	Dhiman, A. K. and Yashoda Rani. (2005). Learn Library and Society. Ess Ess Publications.
2	Emery, J., and Stone, G. (2013). Techniques for Electronic Resource Management (Library Technology Reports). Chicago: Amer Library Assn.
3	Hawthorne, D. (2008). History of electronic resources. In Electronic resource management in libraries: Research and practice. IGI Global
Reference Books	
1	Yu, H., & Breivold, S. (2008). Electronic resource management in libraries research and practice. Hershey: Information Science Reference
2	Jennings, L. (2009). Electronic resources management for electronic resources librarians: a bibliography. Bath: University of Bath.
3	Pandey, D. K. (2013). Library and Information Science. Atlantic
4	Patra, N. K. (2014). Electronic Resource Management: A Case Study of Management School Libraries In India. Sampalpur: Sampalpur University.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc**.]**	
1	https://www.mooc-list.com/tags/e-resources

Mapping with Programme Outcomes										
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**
CO1	S	S	S	S	S	S	S	S	M	S
CO2	S	S	S	M	S	S	S	S	S	S
CO3	S	S	S	S	S	S	S	M	S	S
CO4	M	S	S	S	S	S	S	S	S	S
CO5	L	M	S	S	M	L	M	S	S	S

*__S-Strong__; M-Medium; L-Low

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Course Code	22LISAC10	APPLICATION OF ICT IN LIBRARIES (Practical)	L	T	P	C
Core/Elective/Supportive		Core	-	-	-	4
Pre-requisite		Students should known basic of computer and typing skills				

Course Objectives:

1. To enable students to gain hands on experience using software packages.
2. To design and develop database using any software packages available in the market
3. To design and develop digital collections and management systems in library.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1.	Remember various library computerized services	K1
2.	Make better use of human resources, by using computers to carry out routine functions of the library.	K2
3.	Carry out digital collection using library digital management software	K3
4.	To Generate different types of report using library management software	K4
5.	Develop bibliographic information from WebOPAC, WorldCat, IndCat	K5

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

Unit:1	Koha	14hours

Installation - Administration - Acquisition – Cataloguing -Patrons – Circulation – Serial Controls- Report Generation

Unit:2	SOUL	14hours

Installation - Administration - Acquisition – Cataloguing -Patrons – Circulation – Serial Controls Report Generation

Unit:3	Dspace	14hours

Installation of DSpace - Building digital collection Creating Metadata. Searching, Indexing. Modifying user interface

Unit:4	Greenstone	14hours

Installation of Greenstone. Building digital collection Creating Metadata. Searching, Indexing. Modifying user interface

Unit:5	Drupal	14hours

Installation of Drupal -Building digital collection Creating Metadata. Searching, Indexing. Modifying user interface

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Unit:	Contemporary Issues	02hours
Expert lectures, online seminars - webinars		
	Total Lecture hours	**72 hours**

Text Book(s)

1.	Amit Gupta and Savitra Sirohi (2010) **Koha 3 Library Management System,** Packt Publishing, ISBN: 9781849510820
2.	Clayton, Marlene (2018). *Managing library automation.* 2nd ed. London:

Reference Books

1.	Mishra, Vinod Kumar (2016*). Basics of library automation, Koha library management software and data migration: Challenges with case studies*. New Delhi: EssEss Publications.
2.	Theresabala, T, Ratnakumari, C & Rani, B.A, (2001) *Information technology, and library automation,* Common wealth Publishers pvt. Ltd
3.	Poliwali, R.S, (2001) *Information resources for library and information technology,* Navug Books International.
4.	Anil Dhiman, K & Yashodarani, (2014) *Leran information and reference sources and services,* ESS ESS Publications.

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

1.	www.inflibnet.ac.in Epg pathsala
2.	http://debian.koha-community.org/koha
3.	http://soul.inflibnet.an.in/downloads.php
4.	http://wiki.lyrasis.org/display/DSDOC6x/Installing+DSpace
5.	http://www.greenstone.org/download

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	M	M	M	M	M	M	L	L
CO2	S	S	S	S	S	S	S	S	M	M
CO3	S	S	S	S	S	S	M	M	M	S
CO4	S	S	S	S	M	M	S	S	S	S
CO5	S	S	S	S	S	S	S	S	S	S

*__S-Strong__; M-Medium; L-Low

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Course code	22LISAC11	ACADEMIC AND RESEARCH LIBRARIANSHIP	L	T	P	C
Core/Elective/Supportive		Core	-	-	-	4
Pre-requisite		Library Professionals may learn to Academic library Systems.				

Course Objectives: At the end of completing this course, students will have basic knowledge on Academic and Research librarianship systems.

The main objectives of this course are to:

1. Provide knowledge on academic and research library systems.
2. To educate students on management of academic and research libraries
3. To educate students on sources and services in academic and research libraries

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	The Students will know the importance of academic and research libraries and users	K1
2	To students can understand the concept of management of academic and research libraries	K2
3	To students can understand the sources and services in academic and research libraries	K3
4	To students can understand the change management in academic and research libraries	K4
5	To students can understand the new digital applications in academic and research libraries	K5

K1 - Remember; **K2 -** Understand; **K3 -** Apply; **K4 -** Analyze; **K5 -** Evaluate; **K6 -** Create

Unit:1	Academic and Research Libraries and their Users	14 hours

Academic and Research librarianship – definition, meaning, importance, functions and types; Users of academic and research librarianship – types of users and their needs, user study and user education; Structure and hierarchies of academic and research librarianship; Role of UGC, AICTE, NCTE and other bodies in academic and research library development; Changing role of academic and research libraries – National and global scenario, Academic and Research Library Development in India.

Unit:2	Management of Academic and Research Libraries	14 hours

Records management and library planning; Collection Development/Resource Optimization; Human Resource Management; Financial Management; Library Co-operative Organizations and Network services.

Unit:3	Services in Academic and Research Libraries	14hours

Traditional services; Documentation services; ICT enabled services; Advanced Scholars specific services; and Reference and information services to Research Scholars.

Unit:4	Change Management in Academic and Research Libraries	14 hours

Effects of Globalization on Libraries; Generation Gap due to Knowledge based society; Change of academic and research environment and management style; Change of users interest and

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learning techniques; and Leadership style and Qualities of Librarians.		
Unit:5	**Introduction of New Digital Applications in Academic and Research Libraries**	**14 hours**
Application of Academic and Research Library 2.0; International academic and research library scenario; Academic and Research Libraries Repositories; Library e-resource management, policy and programmes;		
Unit-6	**Contemporary Issues**	**2hours**
Expert Lectures, Online Seminars - Webinars		
	Total Lecture hours	**72 hours**

Text Book(s)	
1.	Ranganathan, S. R. (2008). Library Manual, for School, college and Public Libraries (with Revised Examples of subject classification). Ess Ess Publications.
2.	Kawatra, P. S. (1996). A Dictionary of acronyms and abbreviations in education, information and computer sciences. New Delhi: Ess Ess Publications.
3.	Lal, C and Kumar, K. Understanding Basics of Library and information science Library. Ess Ess Publications.
Reference Books	
1.	Patricia, Potter Wilson and Roger, Leslie (2002). Center Stage, Library Programs that Inspire Middle School Patrons. Colorado, A Division of Greenwood publishing Group
2.	Pushplata, Srivastava (2008). Copyright in Academic Libraries in Digital Environment. Ess Ess Publications,New Delhi.
3.	Rachel, Singer Gordon (2009). Information Tomorrow, Reflections on Technology and the Future of public and academic libraries. Ess Ess Publications, New Delhi.
4.	Ranganathan, S. R. New Education and School Library. Ess Ess Publications.
5.	Ranganathan, S. R. (2006). New Education and School Library. Ess Ess Publications
6.	Shilpa Satish Waghchoure (2016). Best Practices in Academic Libraries. Ess Ess Publications, New Delhi.
7.	Sahai, S. (2009). Academic library system (2nd ed.). New Delhi: Ess Ess Publications
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1.	http://ebooks.lpude.in
2.	http://egyankosh.ac.in
3.	http://dlis.du.ac.in

Mapping with Programme Outcomes										
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**
CO1	S	S	S	M	S	S	S	S	S	S
CO2	S	M	S	S	S	S	S	S	S	S
CO3	M	S	S	L	S	S	S	L	L	S
CO4	S	S	M	S	S	M	S	S	S	S
CO5	S	S	S	S	S	S	S	L	S	S

*__S-Strong__; M-Medium; L-Low

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Course code	22LISAC12	RESEARCH METHODS	L	T	P	C
Core/Elective/Supportive		Core	-	-	-	4
Pre-requisite		Students should known the basic knowledge of research				

Course Objectives:

1. To develop a research orientation among the students and acquaint them with fundamentals of research methods.
2. The course aims at introducing them to the basic concepts used in research and to scientific social research methods and their approach.
3. It includes discussions on sampling techniques, research design, techniques of analysis, research report writing methods and teaches how to write a research proposal.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1.	Remember the basic concept of the research	K1
2.	Gain knowledge of the research process	K2
3.	Apply suitable research methods & techniques to solve library management problems and issues	K3
4.	Develop necessary critical thinking skills in order to evaluate different research approaches utilized in the library services	K4
5.	Demonstrate knowledge and understanding of data analysis and interpretation in relation to the research process.	K5

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

Unit:1	Basics of Research	14 hours

Research Meaning, Fundamental of Research Concept, Types and Significance – Research Problem – Identification, Selection and Formulation – Literature Review – Sources, Process, and Limitations – Logic and Scientific Method.

Unit:2	Research Design	14 hours

Definition, Need, Types and Components – Hypothesis – Definition, Formulation, Types and Testing – Sampling – Concept and Need of study population and Sampling, Types of Sampling Techniques – Probability and Non- Probability, Derivation of Sample, Sample Bias and Error – Preparation of a Research Proposal – Components and Steps.

Unit:3	Research Methods	14 hours

Survey, Experimental, Case-study, Historical, and Scientific – Sources of Data – Primary, Secondary, and Tertiary – Data Collection Tools - Questionnaire, Interview, Observation, Delphi – Measures and Scaling Techniques.

Unit:4	Tools for Research	14 hours

Need and Importance, Descriptive and Inferential Statistics – Measures of Central Tendency – Standard Deviation – T-Test, Chi-Square, ANOVA, Correlation Analysis – Introduction to SPSS and its applications.

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Unit:5	Presentation and Reporting	14 hours
Presentation of Data-Tables, Charts and Figures- Interpretation, Inferences-Deductive and Inductive- Report Writing- Components and Evaluation of a Research Report- Style Manuals- Chicago, MLA, APA – Introduction to Reference Manager – Ethics in Research and Publication. Trends in Library and Information Science Research-Metric Studies in LIS.		
Unit:6	**Contemporary Issues**	**02 hours**
Expert Lectures, Online Seminars - Webinars		
	Total Lecture hours	**72 hours**

Text Book(s)

1.	Goode, W.J & Hatt, P.K (1989). *Method of Social Research*. McGraw Hill. Auckland.
2.	Krishna Kumar (1992).*Research methods in library in social science*. Vikas, New Delhi.
3.	Charles, H. et.al (1993). *Research Methods in Librarianship: Techniques and Interpretations*. New Delhi, Sage.

Reference Books

1.	Auger (1961).*Current trends in scientific research*. UNESCO, Paris.
2.	Bundy.M.L & Wasserman.P (1970). *Reader in research methods in librarianship; techniques and interpretation*: academic, New York.
3.	Busha, Charles, H. and Harter, Stephen, S (1980). *Research Methods in Librarianship.*
4.	Downs, R.B & Down, E (1966). *How to do library research.*University of Illinois Press, Urbana.
5.	Gopal, M.H (1990). *An introduction to research procedure in social sciences*. Asia, Bombay.
6.	Leedy, Paul, D. and Ormrod Jeanne Ellis (2016). Practical research : planning and design, University of northern, Colorado
7.	Slatter, Margaret (1990).*Research, methods in library and information science*. London, L.A.
8.	Tabuer, M.F and Stephens, I.R (1968). *Library surveys*. Columbia University Press, New York.

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

1.	https://onlinecourses.swayam2.ac.in/cec20_mg14/preview

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	M	M	M	M	M	M	L	L
CO2	S	S	S	S	S	S	S	S	M	M
CO3	S	S	S	S	S	S	M	M	M	S
CO4	S	S	S	S	M	M	S	S	S	S
CO5	S	S	S	S	S	S	S	S	S	S

*__S-Strong__; M-Medium; L-Low

Course code	22LISAE05	METRICS STUDIES	L	T	P	C

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Core/Elective/Supportive	**Elective**	**-**	**-**	**-**	**4**
Pre-requisite	Students will be required to understand and apply basic concepts of descriptive and inferential statistics.			**2020-21**	

Course Objectives: At the end of completing this course, students will have knowledge on literature measuring techniques.

The main objectives of this course are to:

to prepare students for professional practice in the design, application, and evaluation of

(a) evaluative studies of scholarly productivity and popularity,

(b) link-based information retrieval systems and library services, and

(c) descriptive and predictive studies of disciplinary structure.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1.	Make confident and successful use, in the generation, analysis, and presentation of bibliometric data, of a wide range of tools, standards, and techniques	K1
2.	Appreciate, and communicate to others, the needs and preferences of information seekers, collections managers, information systems designers, and research policymakers	K2
3.	Participate actively in contemporary debates about bibliometric theory and practice.	K3
4.	critical analyses of the efficiency and effectiveness of citation databases	K4
5.	Conduct critical evaluations of the impact and influence of documents, authors, journals, and fields	K5

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

Unit:1	**Metrics Evaluation**	**14 hours**

Concept, Evolution & Definitions – Classifications, Librametry, Bibliometrics, Scientometrics, Informetrics, Cybermetrics, Webmetrics,Wikimetrics, Open source metrics, Journals metrics and Alt metrics.

Unit:2	**Growth of Literature**	**14 hours**

Growth of Literature – Information Explosion/Publication Explosion

Unit:3	**Metric Laws**	**14 hours**

Bibliometrics Laws – Bradford, Zipf, Lotka, Price, Circulation Theory

Unit:4	**Citation Analysis**	**14 hours**

Citation Analysis – Forms of citation – Self Citation, Bibliographic coupling, Co-Citation, Journal Citation Report.

Unit:5	**Indicators.**	**14 hours**

Quantitative and qualitative indicators. Hi-Index, G-Index, Cited-Half life, citing half life . i10index,

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i20index science indicators, web impact assessment link analysis.		
Unit:6	**Contemporary Issues**	**02 hours**
Expert lectures, online seminars - webinars		
	Total Lecture hours	**72 hours**

Text Book(s)	
1.	Author Co-citation Analysis: Quantitative Methods for Mapping the International Structure of an Acadenic Discipline , 2008
2.	De Bellis, Nicola. 2009. Bibliometrics and citation analysis: From the Science Citation Index to cybermetrics. Lanham, MD: Scarecrow Press.
3.	Bibliometrics : New Dimensions and Latest Trend, Srivastava R, Alfa Publications 2011.
Reference Books	
1.	Bibliomentric and Citation Analysis from the Science Citation Index to Cybermentrics, 2009
2.	Measuring Academic Research: How to Undertake a Bibliomentric Study – 2009, Ana Abdres, Chendos Publishing
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	

Mapping with Programme Outcomes										
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**
CO1	S	S	S	S	L	S	M	S	S	M
CO2	S	S	M	M	S	M	S	S	M	S
CO3	M	M	S	S	S	S	M	L	M	M
CO4	M	M	L	S	M	S	S	M	S	M
CO5	S	S	M	M	S	M	S	S	S	L

*__S-Strong__; M-Medium; L-Low

Course code	**22LISAE06**	**WEB TECHNOLOGY**	**L**	**T**	**P**	**C**

Core/Elective/Supportive	Elective	-	-	-	4
Pre-requisite	Students should known basic of web technology.				

Course Objectives: At the end of completing this course, students will have knowledge on web technology..

The main objectives of this course are to:
1. Explain the evolution of Internet and Web;
2. Discuss the functions and features of the Web browsers and Search Engines; and
3. Differentiate the Websites based on the way they function and categorize them based on the content and the client it caters to.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Student can understand the web technology.	K1
2	Students can understand the web browser and services	K2
3	Students can understand the mark-up languages and scripting languages	K3
4	Students can understand the websites tools and techniques	K4
5	Students can understand the different types search engines	K5

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

Unit:1	**Web Technology – An Overview**	**14 hours**

Web Servers, Web Clients – Distributed Information System and Services – Web 2.0, Lib 2.0, Semantic Web, Cloud Computing. Use of Web Server (e.g., Microsoft IIS, Apache Web Server).

Unit:2	**Web Browsers and Services**	**14 hours**

History, Function, Features of Browsers (IE, Firefox, Chrome); Command Line Browser (e.g., CURL); Browser Developer Tool (e.g., Chrome).

Unit:3	**Mark-up Languages and Scripting Languages**	**14 hours**

Functions & Features of HTML, XML, DHTML, XHTML, CSS, JavaScript, CGI, PHP, Perl, Python or other scripting languages

Unit:4	**Websites**	**14 hours**

Tools and Techniques; Types of Websites, Web contents, Static web contents, Dynamic Web Contents – MySQL, PostgreSQL. MVC (Model, View, Control) architecture; Information Architecture.

Unit:5	**Search Engines**	**14 hours**

Types, Features, Functions, Evaluation – Search Algorithms – Security Issues – Database Connectivity. Open Source Search Engines (e.g., Lucence).

Unit:6	**Contemporary Issues**	**02 hours**
	Expert Lectures, Online Seminars - Webinars	
	Total Lecture hours	**72 hours**

Text Book(s)

1	Dash, N. K., Mishra, S., Senthilnathan, S., and Misra, P. K. (2018). Block 1: Communication Technology: Basics.
2	Godbole , Achyut (2003). Web Technologies: TCP/IP to Internet Application Architectures. New Delhi: Tata McGraw-Hill Education

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3	Kavanagh, M. J., and Johnson, R. D. (Eds.). (2017). Human resource information systems: Basics, applications, and future directions. Sage Publications.
Reference Books	
1	Kumar, R. (2017). Application of Cloud Compouting Technology in Libraries.
2	Pedley, Paul (2001). The invisible Web: Searching the hidden parts of the Internet. London: Aslib-IMI.
3	White, C. M. (2016). Social media, crisis communication, and emergency management: Leveraging Web 2.0 technologies. CRC press.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://developer.mozilla.org/
2	https://www.coursera.org/
3	http://www.freebookcentre.net/

Mapping with Programme Outcomes										
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**
CO1	S	S	M	M	M	M	M	M	L	L
CO2	S	S	S	S	S	S	S	S	M	M
CO3	S	S	S	M	S	S	S	M	L	S
CO4	S	S	S	S	S	S	S	S	S	S
CO5	S	S	S	S	S	S	S	S	S	S

*__S-Strong__; M-Medium; L-Low

MSU

SEMESTER - II

Course code	22LISAC13	Marketing of Information Products and Services	L	T	P	C
Core/Elective/Supportive		Core	-	-	-	4
Pre-requisite		Students should known basic of marketing of information products and services.				

Course Objectives: At the end of completing this course, students will have knowledge on marketing of information products and services.

The main objectives of this course are to:

1. To explain the evolution of various information products.
2. To discuss the effect of various information services.
3. To explain the need for marketing of information.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Student can understand the marketing of information.	K1
2	Students can understand the marketing model and matrix	K2
3	Students can apply the marketing mix	K3
4	Students can understand the marketing plan & research	K4
5	Students can understand the information industry	K5

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

Unit:1	Marketing of Information	14 hours

Information as a Resource: Economics of Information; Marketing concepts - Corporate Mission; Marketing Strategies

Unit:2	Marketing Model and Matrix	14 hours

Portfolio Management BCG Matrix Model; Product Market Matrix; Product Life Cycle, Pricing Models. ANSOFF Matrix SWOT Analysis, bran Management and Advertising.

Unit:3	Marketing Mix	14 hours

Meaning need, purpose and types of marketing Mix; Kotlers Four "Cs"; McCarthy's Four "Ps" Recent trends on marketing mix, Break even analysis

Unit:4	Marketing Plan & Research	14 hours

Marketing Plan & Research: Corporate Identity, marketing plan: Marketing Research. Market Segmentation and Targeting; Geographic and Demographic Segmentation; Behavioral and Psychographics Segmentation; User Behavior and Adoption

Unit:5	Information Industry	14 hours

Information industry - marketing of information Product & Services. E-Marking concepts Benefits, classification and issues. Implementing and evaluating programs in Marketing.

Unit:6	Contemporary Issues	02 hours
	Expert Lectures, Online Seminars - Webinars	
	Total Lecture hours	**72 hours**

Text Book(s)

1. Anderson, A.R. Advancing library marketing. Journal of Library Administration. 1(3), 1980, pp. 17 32.
2. Bellardo, T. and Waldhart, T J. Marketing products and services in academic libraries, Libri. 27(3), 1977. pp. 181 194

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3	Berry J. The test of the marketplace. Library Journal. 104. Sept. 1979. pp. 1605.
Reference Books	
1	Anderson, W. T. Jr., Bentley, C. C. and Sharpe, L K IV. Multi-dimensional marketing: Managerial, societal, and philosophical. Austin TX: Austin Press 1976.
2	Dragon, A C. Marketing the library. Wilson library bulletin. 53, 1979, pp. 498 500.
3	Eisner, J, ed. Beyond PR: Marketing for libraries. A Library Journal Special Report, 1981.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://idl-bnc-idrc.dspacedirect.org/
2	https://www.researchgate.net/
3	http://www.lisbdnetwork.com/

Mapping with Programme Outcomes										
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**
CO1	M	S	S	S	S	M	S	M	M	S
CO2	S	M	M	M	M	S	M	S	M	M
CO3	S	S	M	S	S	S	M	M	M	S
CO4	S	M	S	M	S	S	S	M	S	S
CO5	M	S	S	S	L	S	M	S	M	M

*S-Strong; M-Medium; L-Low

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Course code	**22LISAC14**	**KNOWLEDGE MANAGEMENT**	**L**	**T**	**P**	**C**
Core/Elective/Supportive		Core	**-**	**-**	**-**	**4**
Pre-requisite		Management of Knowledge may learn to				

	Knowledge Management		

Course Objectives: At the end of completing this course, students will have knowledge on Knowledge Management.

The main objectives of this course are to:

1. To helps students to codify and organize knowledge
2. To assist in learning knowledge transfer and sharing
3. To make students to understand to tools for knowledge management

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Student can remember the Knowledge Management concepts	K1
2	Students can understand the knowledge creation models	K2
3	Students can apply the knowledge mapping	K3
4	Students can analyze the knowledge sharing	K4
5	Students can create and evaluate the legal and ethical issues	K5

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

Unit:1	**Introduction to Knowledge Management**	**14 hours**

Knowledge Management: Concept and definitions–Need for KnowledgeManagement in the emerging and changing business environment – Understanding Knowledge; Types of knowledge – changing role of library and Information professionals.

Unit:2	**Creation and Capturing**	**14 hours**

Knowledge creation and capturing: knowledge creation model–capturing tacitKnowledge.

Unit:3	**Codification and Organization**	**14 hours**

Knowledge codification and organization: Knowledge base -knowledgemapping, decision trees, decision tables, frames etc.

Unit:4	**Transfer and Sharing**	**14 hours**

Knowledge transfer and sharing steps in knowledge transfer. Knowledge transfer inE – world, role of internet E – Business / E – commerce.

Unit:5	**Tools**	**14 hours**

Tools for Knowledge Management–neural networks data mining–legal and ethicalissues in Knowledge Management

Unit:6	**Contemporary Issues**	**02 hours**
	Expert Lectures, Online Seminars - Webinars	
	Total Lecture hours	**72 hours**

Text Book(s)

1	Ramesh Babu, B, Ed. (et al.) Knowledge Management: Today and Tomorrow- 2003.
2	Awad, E.M & G.H.M – Knowledge Management, 2004.
3	Shemon, Lee – Managing the Modern Document 2001.

Reference Books

1	Robert, W.S. – "Knowledge every where" Knowledge Management 2001.
2	Hayes – Roth, F. and Jacob stein, N- State of Knowledge based systems 1994.

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Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://www.mooc-list.com/university-entity/hkpolyux
2	https://www.mooc-list.com/tags/public-**library**
4	https://www.mooc-list.com/tags/**knowledge-management**

Mapping with Programme Outcomes										
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**
CO1	S	S	S	S	S	M	S	S	S	S
CO2	S	S	M	S	S	S	M	S	S	S
CO3	S	S	M	S	S	S	M	S	M	S
CO4	S	M	S	M	S	S	S	M	S	S
CO5	M	S	S	S	L	S	M	S	S	L

*S-Strong; M-Medium; L-Low

MSU

Course code	**22LISAC15**	**INTERNSHIP AND FIELD WORK**	**L**	**T**	**P**	**C**
Core/Elective/Supportive			**-**	**-**	**-**	**4**
Pre-requisite						

Course Objectives:

During the internship program, the student shall have to

Work in a practical environment and to get hands on experience in handling online databases, handling library management software, practical work related to the library resources and services.

Procurement of Library Materials-purchase policy (Book and periodicals both print and online)

Process of subscription of journal and periodical both manual & online.

Processing of Library Materials

Shelving and Circulation Policy

Communication Knowledge

Knowledge Expansion

Expected Course Outcomes:

At the end of the internship, the student should be able to:

1. Acquire complete professional skills-set matching the expectations of the employer and Gained professional confidence with a high level knowledge and skills set in managing a library
2. To obtain the knowledge about precise enunciation of user needs, information retrieval with recall and precision document delivery, user study reports, user education programming and service delivery and statistical report generation.
3. Attain the knowledge of library budget preparation and presentation for both traditional and digital environment
4. Attain the knowledge of the library technical processing works; render effective information services with traditional and digital environment
5. Developing professional excellence on supervising and controlling digital library division management, material management, staff management, and overall safety and security management
6. Equip sufficient knowledge about internet resources, information harvesting, compilation of online bibliographies and maintenance of Public Relations.
7. Acquire the knowledge of creating academic or industrial libraries including institutional repository.

	Total Lecture hours	**72 hrs.**

Course Designed By: **Dr. V. Rajendran,** Assistant Librarian, i/c, DLIS,BU,CBE-46

Mapping with Programme Outcomes										
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**
CO1	S	S	M	M	M	M	M	M	L	L
CO2	S	S	S	S	S	S	S	S	M	M
CO3	S	S	S	S	S	S	M	M	M	S
CO4	S	S	S	S	M	M	S	S	S	S
CO5	S	S	S	S	S	S	S	S	S	S

*__S-Strong__; M-Medium; L-Low

Course code	**22LISAC16**	**PROJECT AND COMPREHENSIVE VIVA – VOCE**	**L**	**T**	**P**	**C**
Core/Elective/Supportive		**Core**	**-**	**-**	**-**	**4**

MCU

Pre-requisite	Knowledge of Research Methods and Techniques		

Course Objectives: At the end of completing this course, students will have knowledge on the application of research methods and techniques in library and information science

The main objectives of this course are to:

1.To develop the skills on research methods with field experience

2. Apply quantitative and qualitative measures to evaluate the research out come

3.To evaluate the libraries services, staff and users through surveys

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	To know the ways and means of selecting research topics	K1
2	To understand the methods and techniques to adopted for library science research	K2
3	To apply statistical tools for analysis the data	K3
4	To discuss the research outcome through analysis and interpretation	K4
5	To create research reports in standard format	

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

	PROJECT AND COMPREHENSIVE VIVA – VOCE - 200 MARKS	
	Total Lecture hours	**72 hrs.**

Mapping with Programme Outcomes

COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**
CO1	S	S	M	M	M	M	M	M	L	L
CO2	S	S	S	S	S	S	S	S	M	M
CO3	S	S	S	S	S	S	M	M	M	S
CO4	S	S	S	S	M	M	S	S	S	S
CO5	S	S	S	S	S	S	S	S	S	S

*__S-Strong__; M-Medium; L-Low

Course code	**22LISAE07**	**TECHNICAL WRITING**	**L**	**T**	**P**	**C**
Core/Elective/Supportive		Elective	**-**	**-**	**-**	**4**
Pre-requisite		Knowledge of writing, editing and				

MSU

	presentation		

Course Objectives: At the end of completing this course, students will have knowledge on technical writing on Library and Information Science.

The main objectives of this course are to:

1. To equip the learner with the knowledge of technical documents and reports
2. To enhance ability of writing, editing and presentation of research proposals and reports

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	To know the need, purpose, nature of audience of technical commendation	K1
2	To understand various types of technical documents and pre-writng and editing methods	K2
3	To apply the standards and formats in preparing testing the technical documents	K3
4	To build the ability of preparing proposals and correspondence	K4
5	To design the technical manuals and draft the methods of writing proposals	K5

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

Unit:1	**Technical Communication**	**14 hours**

Definition, purpose, characteristics-Audience-Centered communication, Description and effectiveness-Legal and ethical communication, Description and importance-Implicit and explicit rules of communication.

Unit:2	**Technical Documents**	**14 hours**

Types of technical documents-Prewriting: Determining purpose, Analyzing audience, choosing channels of communications, writing tone and voice, word choice, language, paragraph structure, Effective visual design-Editing: corrections, proof readers and revision techniques-Role of editors.

Unit:3	**Elements of Technical Documents**	**14 hours**

Title, Heading, Summary, Abstract, definition, description, conclusion, glossary, Usability testing-Participant recruiting, Roles of testing, Test planning.

Unit:4	**Technical Reports**	**14 hours**

Types in informal, formal-Business reports and proposals-Business correspondence-Technical resumes and letters.

Unit:5	**Technical Instructions**	**14 hours**

Technical Methods- Methods of writing proposals.

Unit:6	**Contemporary Issues**	**02 hours**
	Expert Lectures, Online Seminars - Webinars	
	Total Lecture hours	**72 hours**

Text Book(s)

1	Sajitha Jayaprakesh, Technical writing: Management Perspective
2	Raj Mohan Joshi, Writing skills for Technical Purposes, Isha Book, Delhi, 2006
3	Seetharaman S, Guidelines for Technical Writing for Librarians & Information Professionals, Ess Ess, New Delhi, 2015
4	Daniel G. Riordan and Steven E Pauley, Technical Report writing Today, Biztantra, New Delhi, 2004

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5	Sharon J Gerson and Steven M. Gerson, Technical Writing, Pearson Education, New Delhi, 2009.
Reference Books	
1	Michael H Markel and Mike Markel, Technical Communication, Ill.Ed. St Martins Publisher, Bedford , 2012
2	Meenakshi Raman and Sangeetha Sharma, Technical Communication: Principles and Practice, 3rd ED, Oxford University Press, London, 2015
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	http://writingassist.com
2	http://site.lugaza.edu.ps
4	http://batchlibretestes.org

Mapping with Programme Outcomes										
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**
CO1	S	S	S	S	S	M	S	S	S	S
CO2	S	S	S	S	M	S	S	S	S	M
CO3	S	S	S	S	S	S	M	L	S	S
CO4	S	M	M	S	S	S	S	S	S	S
CO5	S	S	L	S	S	S	S	M	S	S

*S-Strong; M-Medium; L-Low

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Course code	**22LISAE08**	**SOFT SKILLS**	**L**	**T**	**P**	**C**
Core/Elective/Supportive		Elective	**-**	**-**	**-**	**4**
Pre-requisite		Acquired knowledge on time saving				

	techniques and developing overall professional personality.		

Course Objectives:

The main objectives of this course are to:

1.Help the Students comprehend the various facets of soft skills and different types of communication as a means to develop their professional personality
2.Help the students develop Leadership qualities, Motivation and Professional efficiency.
3.Help the students to develop their reporting and presentation skills
4.Help the students to understand facets related to work culture and Time Management skill, Reading and Writing skills.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Acquired knowledge on the basics of verbal and written communication.	K1
2	Understood the components of Visual and Tele communication.	K2
3	Develop Skills to use digital gadgets and internet communication	K3
4	To analysis the applicability of various skills in library and information centers	K4
5	Create a model of soft skills required for the best practices in libraries and information centers	K5

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

Unit:1	**Soft Skills**	**14 hours**

Soft Skills: Concept and its Significance; Communication Skills: What, Why, How? Why Communication fails? How to be an Effective Communicator? Mastering the Process of Communication, Oral Communication Skills, Body Language, Optimistic Approach, Managing Conflicts, Gaining Confidence, Methods of Communication: One Way and Two Way Communication; Verbal – Modes, Oral and Written, Nonverbal Communication – Categories and Features; Formal and Informal Communication; Visual Communication, Telecommunication and Internet

Unit:2	**Listening and Speaking Skills**	**14 hours**

What, Why? Why we don't listen? How to develop our Listening Skills? Speaking - What is speaking? Accepting invitation to speak, Setting Objectives; Know your Audience, Research the Material, Planning and Writing, Use of Audiovisual aids, Delivering speech, Style of speech and improvement.

Unit:3	**Reading and Writing Skills**	**14 hours**

What is reading? Purpose of reading, Types of reading, Reading ways, 4R Method and SQ3R Method; Writing – Written Communication, Stages in Effective Writing, Styles of Writing – Choice of Words and Phrases, Sentence Structure and length, Paragraph Structure and Length, Principles of Paragraph, Characteristics of Good Writing and Basic tools of writing.

Unit:4	**Time Management Skills**	**14 hours**

Understanding Time Management, Time Management Principles – Identifying Time Loss, Urgency and Importance, Effective Decision Making, Setting your Goals, and Defining Your Objectives;

Unit:5	**Time Saving Techniques**	**14 hours**

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Organizing your Work Space, and Communicating Effectively; Dealing with Stress – Understanding Overload, and Negotiating your Workload; Practical Time Planning – Planning your Day, Using Activity Network, Critical Path Analysis, Effective Resource Sharing and Preparing Planning Diagrams		
Unit:6	**Contemporary Issues**	**02 hours**
Expert Lectures, Online Seminars - Webinars		
	Total Lecture hours	**72 hours**

Text Book(s)	
1	Amer, Beverly. Soft Skills at Work: Technology for Career Success, Cengage Learning, 2008, pp90.
2	Butterfield, Jeff. Written Communication: Soft Skills for Digital Work Place, Cengage Learning, 200, pp134.
3	Rao, M.S. Soft Skills Enhancing Employability: Connecting Campus with Corporate. K. International Pvt Ltd, 2010, pp 256.
Reference Books	
1	Mitchell, Geana Watson. Essential Soft Skills for Success in the Twenty First Century Workforce as perceived by Alabama Business/marketing Educators. ProQuest, 2008, pp134
2	Klaus, Peggy. The Hard Truth about Soft Skills: Work Place Lessons Smart People Wish They'd Learned Sooner. Collins, 2008, pp208.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	http://www.sessionlab.com
2	www.skillconvered .com
4	https://yptoolsbox.unescapsdd.org

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M	S	S	S	S	M	S	M	M	S
CO2	S	M	M	M	M	S	M	S	M	M
CO3	S	S	M	S	S	S	M	M	M	S
CO4	S	M	S	M	S	S	S	M	S	S
CO5	M	S	S	S	L	S	M	S	M	M

*S-Strong; M-Medium; L-Low

Course code	**22LISAS01**	**INFORMATION SOURCES IN HUMANITIES AND SOCIAL SCIENCES**	**L**	**T**	**P**	**C**
Core/Elective/Supportive		**Supportive**	**-**	**-**	**-**	**2**
Pre-requisite		Student should known the basic concept of				

MSU

	information		

Course Objectives: At the end of completing this course, students will have knowledge on Information Sources in humanities and social sciences

The main objectives of this course are to:

1. attain basic competencies and knowledge that are essential for providing, managing, and designing information services in a variety of information environments;
2. demonstrate an understanding of the theories and processes involved in retrieval, dissemination, and utilization of information sources;
3. acquire attitudes and interpersonal skills needed to communicate with colleagues and information users.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1.	Identify the similarities and differences in information structure and use between social science disciplines and those in the sciences, arts, and humanities.	K1
2.	Understand the attitudes, knowledge, and skills that are important in achieving accurate reference service.	K2
3.	Apply principles of search strategy in seeking answers to reference questions.	K3
4.	Develop grounded data for reference service design by documenting and analyzing user behavior.	K4
5.	Evaluate insight into the approaches to social science information taken by scholars, students, and the lay public.	K5

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

Unit:1	**Introduction to Information Sources**	**07 hours**
Basic Concepts of Information Sources - Types of information sources - documentary - non documentary — Scope and value.		
Unit:2	**Reference Sources**	**07 hours**
Ready Reference Sources -Types and Value Dictionaries, Encyclopedias - and Handbook Manuals in Social Science and Humanities.		
Unit:3	**Indexing and Abstracting**	**07 hours**
Indexing and Abstracting Sources in Social Science and Humanities.		
Unit:4	**e-Resources**	**07 hours**
Electronic Sources - Web Resources - Subject Gateways in Humanities and Social Sciences.		
Unit:5	**Evaluation of Sources**	**07 hours**
Evaluation of information sources - print reference sources - web resources.		
Unit:6	**Contemporary Issues**	**01 hours**
Expert lectures, online seminars - webinars		
	Total Lecture hours	**36 hours**

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Text Book(s)	
1.	Chowdhury, G.G Introduction to Modern Information Retrieval, Facet Publishing,2009.
2.	Chowdhury, G.G and Sudatta Chowdhury, Searching CD-ROM and online information sources; Library Association, 2001.
3.	Sewa Singh Handbook of International Sources on Reference and Information; Vedams e-Books (P) Ltd (India).
Reference Books	
1.	Winchill, C.M Guide to Reference source, 2008.
2.	Higgins, G Printed Reference Materials, 1987.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1.	https://www.mooc-list.com/.../information-digital-literacy-university-success- coursera
2.	https://www.mooc-list.com/estimated-effort/2-hoursweek?page=10
3.	https://www.mooc-list.com/estimated-effort/no-**information**?page=19

Mapping with Programme Outcomes										
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**
CO1	S	S	S	S	L	S	M	S	S	M
CO2	S	S	M	M	M	M	S	M	M	S
CO3	M	M	M	S	M	S	M	L	M	M
CO4	M	M	L	S	M	S	S	M	S	M
CO5	S	S	M	M	S	M	S	M	S	L

*S-Strong; **M-Medium**; L-Low

Course code	**22LIS AS02**	**INFORMATION SOURCES IN SCIENCE AND TECHNOLOGY**	**L**	**T**	**P**	**C**
Core/Elective/Supportive		Supportive	**-**	**-**	**-**	**2**
Pre-requisite		Information sources knowledge may learn to science and technology				
Course Objectives: At the end of completing this course, students will have knowledge on Information Sources in Science and Technology.						

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The main objectives of this course are to:

1. To provide knowledge to other department students to understand of information sources
2. To understand the e-Resources to other department students
3. To gain knowledge of abstracting and indexing sources

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Student can remember the basic concepts of information sources	K1
2	Students can understand the ready reference sources	K2
3	Students can apply the indexing and abstracting	K3
4	Students can analyze the e-resources	K4
5	Students can create and evaluate the information sources	K5

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

Unit:1	**Introduction to Information Sources**	**07 hours**

Basic Concepts of Information Sources - Types of information sources - documentary - non documentary — Scope and value.

Unit:2	**Reference Sources**	**07 hours**

Ready Reference Sources -Types and Value Dictionaries, Encyclopedias - and Handbook Manuals in Science and Technology.

Unit:3	**Indexing and Abstracting**	**07 hours**

Indexing and Abstracting Sources in Science and Technology.

Unit:4	**E-Resources**	**07 hours**

Electronic Sources - Web Resources - Subject Gateways in Humanities and Social Sciences.

Unit:5	**Sources of Evaluation**	**07 hours**

Evaluation of information sources - print reference sources - web resources.

Unit:6	**Contemporary Issues**	**01 hours**

Expert lectures, online seminars - webinars

	Total Lecture hours	**36 hours**

Text Book(s)

1	Chowdhury, G.G and Sudatta Chowdhury, Searching CD-ROM and online information sources; Library Association, 2001.
2	Sewa Singh Handbook of International Sources on Reference and Information; Vedams e-Books (P) Ltd (India).
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Mapping with Programme Outcomes										
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**
CO1	S	S	M	S	L	S	M	S	S	M
CO2	S	M	M	M	S	M	S	S	M	S
CO3	M	M	M	S	M	S	M	L	M	M
CO4	M	M	L	S	M	S	S	M	S	M
CO5	S	S	M	M	S	M	M	S	S	L

*S-Strong; **M-Medium**; L-Low

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