MASTER OF LIBRARY AND INFORMATION SCIENCE

SYLLABUS

OUTCOME-BASED EDUCATION BASED ON REVISED BLOOM'S TAXONOMY

for the students admitted in the academic year 2019-2020

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE
BISHOP HEBER COLLEGE (Autonomous)
(Reaccredited with 'A' Grade (CGPA – 3.58/4.0) by the NAAC)
(Identified as College of Excellence by the UGC)
DST – FIST Sponsored College & DBT Star College
TIRUCHIRAPPALLI – 620 017
TAMIL NADU, INDIA

Vision

Mould young minds to achieve excellence in Library and Information Science and develop globally competent library professionals to serve humanity

Mission

- Offer quality Library and Information Science Education with creativity and novelty

- Impart skill based training to match with the global standard of Library profession

- Inculcate values and ethics to practice throughout the career

Programme Outcomes (POs):

After successful completion of programme, the graduand will be able to:

Knowledge:

PO1: Comprehend knowledge of emerging trends in knowledge management, information marketing, corporate library and Information systems.

PO2: Adapt main ideas of Information Resources, Information Marketing and Information Systems & Services.

PO3: Apply advanced knowledge in Libraries, Information & Documentation Centres

PO4: Practice library automation, develop digital libraries, by using Information Communication Technology and customize databases.

Skills:

PO5: Exhibit professional skills, life skills and soft skills to be effective library professionals.

PO6: Demonstrate technical skills like Information Processing and Retrieval, ICT, Library automation, digital libraries, Open Source Software and Research skills.

PO7: Critically assess & evaluate research methods & techniques through internships in leading libraries & fieldwork training in diverse types of libraries.

Attitude:

PO8: Practice professional, research and publication ethics in diverse library environment.

PO9: Cultivate lifelong learning to enrich knowledge sharing.

Programme Specific Outcomes (PSOs):

POS1: Apply basic concepts, fundamental principles, Laws, theories, policies, methods & techniques of research in various fields of Library & Information Science

PSO2: Practice conceptual principles & theories in internship & fieldwork training for career building.

PSO3: Demonstrate holistic personality to take up any responsibility in Library Profession.

PSO4: Customize library software for various applications in diverse library environment.

PROGRAMME ARTICULATION MATRIX

S. No	COURSE NAME	COURSE CODE	Correlation with Programme Outcomes and Programme Specific Outcomes												
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
1.	Foundations of Library and Information Science	P18LS101	M	M	H	-	L	L	M	H	L	M	M	M	-
2.	Management of Library and Information Centres	P18LS102	L	M	M	M	L	L	H	M	-	M	L	M	-
3.	Information Sources	P19LS103	L	H	M	-	L	L	L	L	L	L	L	H	-
4.	Library Automation (Theory)	P19LS104	M	L	H	H	H	H	-	H	H	M	-	H	-
5.	Information Systems and Services	P18LS1:1	M	M	M	M	M	M	H	M	M	M	-	M	-
6.	Information Processing and Retrieval (Theory)	P18LS205	L	L	L	L	L	H	M	-	-	H	M	H	-
7.	Information Technology	P18LS206	M	M	-	M	M	M	-	-	-	M	-	M	M
8.	Information Processing and Retrieval Practice I (Classification CC & DDC)	P18LS2P1	M	L	H	M	M	M	-	M	H	L	-	M	-
9.	Information Processing and Retrieval Practice II (AACR II / UDC)	P18LS2P2	M	L	H	M	M	M	-	M	M	M	M	-	M
10.	Knowledge Management	P19LS2:2	M	M	M	-	M	-	-	M	M	M	M	M	-
11.	Soft Skills for Library Professionals	P19LS2:3	L	M	L	L	H	-	L	L	L	-	L	H	-
12.	Research Methodology	P18LS307	M	M	M	M	M	M	M	M	M	M	M	M	M

S. No	COURSE NAME	COURSE CODE	Correlation with Programme Outcomes and Programme Specific Outcomes												
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
13.	Digital Libraries	P18LS308	M	H	H	H	H	H	-	H	H	H	-	H	-
14.	Open source software practice	P18LS3P3	L	L	H	H	M	H	M	-	-	L	M	L	H
15.	Library Automation Practice	P18LS3P4	H	H	-	H	H	H	-	-	-	H	H	H	H
16.	Information Marketing	P19LS3:4	M	M	M	-	M	-	M	M	M	M	M	M	M
17.	Informetrics	P18LS409	H	H	H	-	H	-	-	H	H	H	H	-	-
18.	Database Management System for Library and Information Centres	P18LS410	H	M	H	H	H	H	-	M	M	H	-	H	-
19.	Corporate Libraries and Information Systems	P19LS4:5	L	L	L	H	L	L	-	-	H	L	-	L	H
20.	Field Work & Internship Training	P18LS4F1	L	L	M	H	M	M	L	-	-	L	L	H	H
21.	Major Project	P18LS4PJ	L	H	H	L	H	H	H	L	-	H	L	M	-

Structure of the Curriculum

Parts of the Curriculum	No. of Courses	Credits
Core Course (Theory)	10	48
Core Course (Practical)	4	12
Elective	5	20
Project	1	5
NMEC	1	2
VLOC	1	2
Field work	1	3
Total	**23**	**90**

Master of Library and Information Science (M.Lib.I.Sc.)
(For the candidates admitted from the Academic Year 2019-20 onwards)

Sem	Course	Code	Course Title	Pre requisites	Hrs./ Week	Cre dits	CIA	ESA	Total
I	Core I	P18LS101	Foundations of Library and Information Centres		6	5	25	75	100
	Core II	P18LS102	Management of Library and Information Centres		6	5	25	75	100
	Core III	P19LS103	Information Sources		6	5	25	75	100
	Core IV	P19LS104	Library Automation (Theory)		6	4	25	75	100
	Elective I	P18LS1:1	Information Systems and Services		6	4	25	75	100
II	Core V	P18LS205	Information Processing and Retrieval(Theory)		5	5	25	75	100
	Core VI	P18LS206	Information Technology		5	5	25	75	100
	Core Practical I	P18LS2P1	Information Processing and Retrieval Practice I (Classification CC & DDC)		5	3	40	60	100
	Core Practical II	P18LS2P2	Information Processing and Retrieval Practice II (AACR – II/UDC)		5	3	40	60	100
	Elective-II	P19LS2:2	Knowledge Management		5	4	25	75	100
	Elective-III	P19LS2:3	Soft Skills for Library Professionals		5	4	25	75	100
	VLO	P17VL2:1/ P17VL2:2	RI / MI		5	2	25	75	100
III	Core VII	P18LS307	Research Methodology		5	5	25	75	100
	Core VIII	P18LS308	Digital Libraries	P15LS104, P15LS206	5	5	25	75	100
	Core Practical III	P18LS3P3	Open Source Software Practice	P15LS206	5	3	40	60	100
	Core Practical IV	P18LS3P4	Library Automation Practice	P15LS104	5	3	40	60	100
	Elective IV	P19LS3:4	Information Marketing		5	4	25	75	100
IV	Core IX	P18LS409	Informetrics		5	5	25	75	100
	Core X	P18LS410	Database Management System for Library and Information Centres		5	5	25	75	100
	Elective V	P19LS4:5	Corporate Libraries and Information Systems		5	4	25	75	100
	Field Work	P18LS4F1	Field Work and Internship Training		5	3	--	--	100
	Core Project	P18LS4PJ	Project		5	5	--	--	100
Total						90			2200

CIA- Continuous Internal Assessment ESA- End Semester Assessment VLOC Value added Life Oriented Course

Core – I: FOUNDATIONS OF LIBRARY AND INFORMATION SCIENCE

Semester   I   **Course Code: P18LS101**
Credits   5

1. Course Outcomes

S.No.	Course Outcomes	Level	Unit Covered
1	Relate data, Information and Knowledge with Information Cycle Process.	K2	1
2	Apply theories and Models of Communications in Library Science Centers	K4	2
3	Distinguish Different types of Libraries and the role of Professional Associations in the society.	K4	3
4	Apply five laws of Library Science in all areas of Library Information Centres	K4	3
5	Understand the basic concepts of Library Legislation, Policies and Library Acts.	K4	4
6	Evaluate the growth and development of Library Information Science Schools and impart the significance of Professional ethics among library professionals.	K6	5

2. Syllabus
Unit –I (18 Hrs.)
Information
Data, Information, Knowledge – Concept, Definition, Characteristics, – Information Patterns– Factors influencing growth of Information, Information Transfer Cycle ; Impact of Social and Economic changes on Information

Unit –II (16 Hrs.)
Communication Models
Communication: Concept, Definition, Types, Theories, Models, Channels of communication, Barriers to Communication

Unit – III (20 Hrs.)
Types of Library, Laws, Role of Associations
Library: Concepts, Types, Five Laws of Library Science; Professional Ethics of Librarian; Role of Professional Associations: National and International – CILIP, ILA, IASLIC,IATLIS,IFLA,ALA

Unit –IV (18 Hrs.)

Library legislation

Library Movement: Legislation in India - Tamil Nadu Model Library Bill for State and Centre, Delivery of Books and Newspaper Act – Intellectual Property Rights – Plagiarism : Softwares - Information Policy – Right to Information.

Unit – V (18 Hrs.)
Growth and Development LIS School

Information Science as Discipline – Evolution, Growth and Development; Economics of LIS- LIS Schools in India.

a. Topics of the Self Study

1. Role of Academic Libraries in Media and Information Literacy.

https://www.youtube.com/watch?v=yVkw_zVX5c8&feature=youtu.be

2. Agencies in the promotion and development of public library system (M-04)

https://youtu.be/ksiUuLHJSCM

3. ICT application in Academic Libraries and its Impact (M11)

https://youtu.be/d_wJ7pExTdQ

4. Organisational structure of the library (M07)

https://youtu.be/FTQsKX5YwLs

b. Reference Books

R1: Kumar P S G, *Foundations of Library and Information Science* B. R. PublishingCorporation

R2: Khanna J K, *Library and Society*, Kurukshetra University, Kurukshetra

R3: Kumar P S G, *Foundation of Library and Information Science Paper 1 ofUGC Model Curriculum* , B.R.PublishingCorporation

R4: *Encyclopedia of Library and Information Science*, Vol.62

R5: Uma Narula, *Communication Models*, AtlanticPublishers

3. Specific Learning Outcomes

Unit/ Section	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction

1		**Basic Concepts of Information**		
1.1	Data, Nature of Information, Knowledge – Concept, Definition, Characteristics	Understand nature of Data, Information and Knowledge	K2
1.2	Information Patterns, Factors Influencing growth of information	Understand Information Patterns and Factors Influencing growth of Information	K2
1.3	Information Transfer Cycle	Understand and apply Information Transfer Cycle	K2
2		**Communication Models**		
2.1	Communication: Concept, Definition, Types, Theories and Models	Understand the concept, definition and types of communication	K2
2.2	Channels of Communication	Analyze the various channels of communication	K4
2.3	Barriers to Communication	Evaluate the different barriers ofcommunication	K5
3		**Types of Library, Laws, Role of Associations**		
3.1	Library concept and types	Understand the concept and types of libraries	K2
3.2	Laws of Library Science	Apply laws of Library Science	K3
3.3	Professional Ethics of Librarian	Apply professional ethics in work place	K3
3.4	Role of Library Associations	Analyze and evaluate the role of professional national and international associations	K5
4		**Library legislation**		
4.1	Library Movement, Library Legislation	Understand the concepts library movement and legislation	K2
4.2	Library Bills and Acts	Understand the model library bill and apply delivery of books and newspaper acts	K3
4.3	Library Movement,		

	Legislation, Library Bill. Intellectual property Rights, Policy, Right to Information	Understand and apply legislation, bill property rights, policy and right to information	K3
5	**Growth and Development LIS Schools**		
5.1	Information Evolution, Growth and Development	Evaluate information evolution, growth, and development	K5
5.2	LIS School in India	Evaluate the growth of Library and Information Science Schools in India	K5

4. Mapping of COs to POs & PSOs

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	L	-	M	-	-	-	-	-	-	H	-	M	-
CO2	-	-	M	-	-	-	-	-	-	H	-	M	-
CO3	M	-	H	-	-	-	M	-	L	M	M	H	-
CO4	M	M	H	-	L	L	M	M	M	M	M	M	-
CO5	-	-	M	-	-	-	-	-	-	M	-	M	-
CO6	H	-	H	-	-	-	L	M	-	-	L	H	-

L-Low   **M-Medium**   **H- High**

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Assignment, Group Presentation, Group Discussion, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

Core – II : MANAGEMENT OF LIBRARY AND INFORMATION CENTRES

Semester I   **Course Code : P18LS102**
Credits   5

1. Course Outcomes

S. No.	Course Outcome	Level	Unit Covered
1.	Understand the concept, importance of management and Schools of Management Thought.	K2	Unit 1
2.	Apply the diverse models of Performance Evaluation Standards in libraries of all kinds.	K4	Unit 1
3.	Analyze the planning steps, strategies and techniques and apply decision making process in information centers.	K4	Unit 2
4.	Understand the concept of Human Resource Management and apply organization models such as job description and job analysis in information centers.	K4	Unit 3
5.	Evaluate budgeting techniques and importance of Financial Management	K6	Unit 4
6.	Discuss & adapt the importance of Collection Development and Evaluation policies	K6	Unit 5

1. Syllabus

Unit – I (18 Hours)
Management: Concept & History
Management: Concept, History, Definitions, Scope – Schools of Management Thought – System Analysis and Design – Library as a System. Performance Measurement – Performance Evaluation standards – CPM / PERT – SWOT – DFD (Data Flow Diagram)

Unit – II (18 Hours)
Planning and Planning Strategies
Planning and Planning Strategies: Concept, Definition, Need – Steps in Planning – MBO – Planning Technique – Decision Making – Accreditation Process (NAAC, NBA, NCTE, MCI, ISO)

Unit – III (18 Hours)
Human Resource Management
Human Resource Management: Organization Models – Job Description and Job Analysis – Selection, Recruitment, Training and Development - Leadership - Team Building - Motivation -Time and Change Management - Communication Skills.

Unit –IV (18 Hours)
Financial Management

Financial Management: Planning and Control - Resource Generation, Budget, Budgeting - Budgetary Control Techniques – PPBS, ZBBS – Cost Benefit, Cost Effective Analysis and Accounting – Taxation related to Library.

Unit – V (18 Hours)
Material Management
Material Management: Collection Development and Evaluation – Polices and issues related to Selection, Acquisition, Maintenance and Preservation of Print – Non Print Materials – Planning of Library Building, Furniture, Equipments - Standards.

a. Topics for Self-Study:
1. Organizational Structure of the Library:
   https://www.youtube.com/watch?v=FTQsKX5YwLs&feature=youtu.be
2. Event Planning :
   https://www.youtube.com/watch?v=RbGnd3hIwX0&feature=youtu.be
3. Management Information System:
   https://www.youtube.com/watch?v=WrKGBWni2A0&feature=youtu.be
4. Governance of Library: https://youtu.be/yBANRPm2K-M

b. Reference Books:

R1:   Krishan, K. (2009). *Library administration and management.* Vikas Publishing House.

R2:   Ranganathan, S.R., (2006),*library administration,*EssEss Publication.

R3:   Mittal, R. L. (1964). *Library administration: Theory and practice.*

Metropolitan Book Company.

R4:   e-PGPathasala:

https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=1610.

R5: Robert Stewart, *Library and Information Centre management*, 7th ed., Libraries Unlimited

R6: James L. Ratcliff, Edward S. Lubinescu& Maureen A. Gaffney (2001), *How AccreditationInfluences Assessment,* Pennsylvania State University

R7:   Ramesh Kumar Verma, *Library Administration and Management,* Swasthik Publications, Delhi.

R8:   Punmia, B. C., &Khandelwal, K. K. (2002). *Project Planning and Control with PERT & CPM.* Firewall media.

R9:   Human Resource Management. University of Minnesota Library Publishing

2. Specific Learning Outcomes (SLO)
3.

Unit/Section	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction

I	**Management: Concept & History**		
1.1	Management :Concept, History, Definitions & Scope	Remember and Understand management concepts	**K2**
1.2	Schools of management thought Classical school Neo-classical school Modern management school	Relate and classify the types of management thoughts	**K2**
1.3	System analysis and design Types of system System design concept	Remember and understand the concept of System analysis and design	**K2**
1.4	Library as a system: Definition, Features , Merits and demerits	Understand and identify the model of library system	**K3**
1.5	Performance measurement Organization measurement Individual performance	Analyze and evaluate the ideas of Performance measurement	**K5**
1.6	Performance evaluation standards Quality and efforts of employees performance	Analyze and evaluate the ideas of Performance measurement	**K5**
1.7	CPM/PERT/ SWOT: Analysis and techniques	Analyze and evaluate the ideas of PERT/CPM/SWOT	**K5**
1.8	DFD(Data Flow Diagram):Concepts, Need & Process	Analyze and evaluate the ideas of DFD (Data Flow Diagram)	**K5**
II	**Planning and Planning Strategies**		
2.1	Planning and planning strategies:: Concepts ,Definitions & Needs	Remember and understand the concept of planning	**K2**
2.2	Steps in planning : Strategies in planning	Remember and understand the concept of planning strategies	**K2**

2.3	Planning technique	Remember and understand the concept of planning techniques	**K2**
2.4	MBO: Concept &Process	Remember and understand the concept of MBO	**K2**
2.5	Planning and planning strategies: Concepts ,Definitions & Needs	Remember and understand the concept of planning	**K2**
2.6	Decision making: Process, Concepts & Types	Recall and relate the concept of Decision Making Process and types	**K2**
2.7	Accreditation process:	Understand and analyze the Accreditation process (NAAC, NBA, NCTE, MCI, ISO)	**K4**
III	**Human Resource Management**		
3.1	Human resource management: Concept Definition Characteristics	Remember and understand the concept of HRM	**K2**
3.2	Organization models: Principles Patterns Structure	Remember, understand and apply the principles and patterns of Organizational model	**K3**
3.3	Job description and job analysis Selection Recruitment Training and development	Remember, understand and analyze the Job description and job analysis	**K4**
3.4	Leadership Team Building& Motivation	Remember & understand the concept of Leadership Team Building& Motivation	**K2**

3.5	Time and change management	Understand and analyze Time and change management	**K4**
3.6	Communication skills: Concepts and types	Remember, understand and create the communication concept and models	**K6**
IV	**Financial Management**		
4.1	Financial management Concepts Need Purpose	Remember and understand the concept of financial management	**K2**
4.2	Planning and control	Remember and understand the concept of planning and controlling of finance	**K2**
4.3	Resource generation: Sources of budgeting	Remember and understand the concept of resource generation using aids	**K2**
4.4	Budgeting Concept Definition Meaning	Apply the concept of budgeting	**K3**
4.5	Budgetary control techniques : PPBS ZBBS Cost benefit Cost effective analysis and accounting	Apply and evaluate the concept of different Budgetary techniques	**K5**
4.6	Taxation related to library	Apply the concept of taxation	**K3**
V	**Material Management**		
5.1	Material management Concept	Remember, understand and the concept of material management	**K2**

5.2	Collection development and evaluation Concept and policies	Apply the concept of Collection Development and policies	**K3**
5.3	Polices and issues related to selection: Acquisition, Maintenance and preservation of print materials	Analyze the concept of Polices and issues related to selection: Acquisition, Maintenance and preservation of print materials	**K4**
5.4	Non print materials : Maintenance and preservation	Remember & understand the concept of Non print materials	**K2**
5.5	Planning of library building: Furniture and Equipments	Remember, understand and apply the concept of Planning of library building	**K3**

4. Mapping of COs to POs & PSOs

P19LS102	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	L	-	-	M	M	-	H	-	M	H	H	H	-
CO2	M	-	M	L	H	H	H	-	M	H	L	M	-
CO3	H	M	H	L	H	H	M	L	M	H	M	M	L
CO4	H	L	M	-	H	H	M	-	-	H	H	H	-
M	L	M	-	-	H	-	M	-	M	L	H	L	-
CO6	H	H	H	M	-	-	M	-	L	H	H	-	-

L- Low   M- Medium   H-High

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Assignment, Group Presentation, Group

Discussion, Project Reports, Field work Report, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

CORE – III : INFORMATION SOURCES

Semester- I   **Course Code : P19LS103**
Credits   :4

1. Course Outcomes

No.	Course Outcomes	Level	Unit Covered
1.	rstand the concept and importance of Primary, Secondary and Tertiary sources	K2	1
2.	late all kinds of Secondary Sources	K2	2
3.	ze the different Non Documentary Sources	K4	3
4.	late the Electronic Information Sources such as E-books, E- journals etc.	K4	4
5.	rehend E-book publishers Amazon & Sage and E-journals publishers Springer Verlog CO6: Evaluate print reference source and electronic reference sources	K6	5

2. Syllabus

Unit – 1   **Introduction to Information Sources**   **18hrs**
Information sources: Definition, Type, Characteristics - Primary, Secondary, Tertiary –Evaluation of print Reference Sources

Unit –II   **Secondary Sources**   **18hrs**
Study of Secondary Sources: Definition, Types- Dictionaries, Encyclopedia, Directories, Manuals and Handbooks, Bibliographic sources (See Annexure)

Unit – III   **Non – Documentary Sources**   **18hrs**
Non – Documentary Sources: Formal and Informal – Human Sources, Institutional Information Sources, Technological Gate Keepers and Invisible Colleges

Unit –IV   **Electronic Information Sources**   **18hrs**
Electronic Information Sources: Meaning, Characteristics, Types: E-books, E-journals Database, Bulletin Boards

Unit – V   **Online Publishers**   **18hrs**
Online publishers: Detailed study of E-books (Amazon, Sage Publication), E-journals (Springer Verlog), Database (INSPEC) – E-Directories-Evaluation of E-Resources

Topics for Self – Study
1. Digital Resources

https://www.slideshare.net/simmibarath/digital-resources-71007049
   2. Institutional Repositories
http://www.netugc.com/institutional-repository-ir
   3. Subject Gateways
      http://www.agr.unideb.hu/~agocs/informatics/07_e_internet/e_tonic/content/60.html
   4. Library Consortia
http://www.lisbdnet.com/library-consortia-mdg/

Reference Book:

R1:   Gurdev Singh, Information Sources, Services and Systems, Prentice Hall of India, New Delhi, 2013.

R2:   Krishnan Kumar, Reference Service, 4th edition, Vikas Publishing House, New Delhi, 1982

R3:   Ranganathan, S R, Reference Service, Sarada Ranganathan Endowment for Library Science, Bangalore, 2006

R4:   Chowdry G and ChowdrySunitha, Electronic Information Sources, Fact, London, 2001.

R5:   Jagdish Saran Sarma and Grover, D R, Reference Service and Sources of Information, EssEss Publications, New Delhi, 1987

3. Specific Learning Outcomes (SLO)

Unit / Section	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
I	**Introduction to Information Sources**		18 hours
1.1	Information Sources Definition, Types, Characteristics	Remember and Understand the concept Information Sources	K2
1.2	Primary Sources , Periodicals: Newspapers, Magazines, Conference Papers, Patents, Standards, Technical Reports, Thesis / Dissertations	Understand the primary sources and its types	K2
1.3	Secondary Sources Characteristics, Features and Examples	Understand the secondary sources and apply the same in libraries	K3
1.4	Check Point for Evaluation of Print and	Evaluate all Print and Electronic Reference	K5

	Electronic Reference Sources	Sources	
II	**Secondary Sources**		**18 hours**
2.1	Dictionaries: Oxford Advanced Learner's Dictionary, Harrod's L.M. Librarian's Glossary	Understand and Evaluate Dictionaries	K5
2.2	The new Encyclopedia Britannica, Encyclopedia of Library Information Science	Understand and Evaluate Encyclopedias	K5
2.3	The Statesman's Year Book 2010, Manorama Year Book	Understand and Evaluate Year books	K5
2.4	Whitaker's Almanac, Gazetteer of India, Foder's Modern Guide, Library Information Science Abstract(LISA)	Understand and Evaluate Geographical Sources and Abstracting Sources	K5
2.5	Current Contents, Library Literature, Keesings Record of World Events Online, Asian Recorder: A weekly Digest of Asian Events with Index	Understand and Evaluate Indexing Sources	K5
2.6	Indian National Bibliography(INB), British National Bibliography(BNB)	Understand and Evaluate Bibliographies	K5
2.7	Commonwealth Universities yearbook, National Union Catalogue of Scientific Serials in India(NUCCSI), Ulrich's International Periodical's Directory	Understand and Evaluate Union Catalogues and Periodical Directories	K5
III	**Non – Documentary Sources**		**18 hours**
3.1	Non-Documentary Sources: Formal Sources and Informal Sources	Understand the concept Non Documentary Sources	K2
3.2	Human Sources: Need, Importance and Usefulness	Understand and apply the concept Human Sources	K3
3.3		Understand and apply the	

	Institutional Sources: Need, Importance and Usefulness	concept Institutional Sources	K3
3.4	Technological Gate Keepers: Concept, Functions	Understand the concept Technological Gate Keepers	K2
3.5	Invisible Colleges: Concept, Functions	Understand and apply the concept Invisible Colleges	K3
IV	**Electronic Information Sources**		**18 hours**
4.1	Electronic Information Sources: Meaning, Characteristics, Types	Understand the concept Electronic Information Sources	K2
4.2	E-books: Need, Features, Advantages and Disadvantages	Understand and Analyse the E-books	K4
4.3	E-journals: Need, Features, Types, Advantages and Disadvantages	Understand and Evaluate e-journals	K5
4.4	Database: Importance, Types	Understand and analyse databases	K4
4.5	Bulletin Boards: Importance, Usefulness	Understand and apply the concept Bulletin Boards	K3
V	**Online Publishers**		**18 hours**
5.1	Online Publishers: Need, Importance	Understand the concept online publishers	K2
5.2	E-book Publishers: Amazon and Sage Publications	Evaluate Amazon an d Sage Publications	K5
5.3	E-journal Publishers: Springer Verlog	Evaluate Springer Verlog	K5
5.4	Database: INSPEC	Understand INSPEC Database	K2
5.5	E-directories: Need, Importance, Usefulness	Understand about Directories	K2

4. Mapping (CO, PO, PSO)

P18LS103	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	L	H	L	-	L	-	-	H	L	L	L	M	-
CO2	L	M	L	-	L	-	-	L	-	L	L	M	-
CO3	M	M	L	-	H	-	-	-	L	L	-	M	-
CO4	-	H	H	-	M	L	L	L	M	L	M	H	-
CO5	-	L	H	-	L	L	M	-	L	-	-	H	-
CO6	-	H	-	-	H	H	M	-	-	L	M	H	-

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Assignment, Group Presentation, Group Discussion, Project Reports, Field work Report, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

CORE – IV: LIBRARY AUTOMATION (THEORY)

Semester II   **Course Code : P19LS104**
Credits   4

1. Course Outcomes

S.No.	Course Outcomes	Level	Unit Covered
1	Understand the basic concept of origin and development of computers.	K2	1
2	Distinguish System software and operating system	K4	2
3	Apply the different modules of automation software.	K4	3
4	Analyse the different between open source and commercial Software.	K4	4
5	Apply the Search strategies and techniques.	K4	5
6	Recognize the security system of the library and information centres.	K6	5

2. Syllabus

Unit – I (18hrs)
Origin & Development of Computer
Need for Computers – Characteristics, Types, Generation, Components, Input and Output devices, Hardware, Software.

Unit –II (18 Hrs.)
System Software and Operating System
Application / System Software, Operating Systems, Types; Disk Operating System - Windows, Unix, Linux.

Unit – III (18 Hrs.)
Library Modules, Controls
Computer Application Modules–Acquisition, Cataloguing, Circulation and Serial Control.

Unit – IV (18 Hrs.)
Computer Software
Library / Bibliographic Application Software-CDS/ISIS, Open Source : Koha, New Gen Lib.; Commercial : LIBSYS, SOUL

Unit – V (18 Hrs.)
Search Strategy, Security Devices

Search Strategy and Techniques – Truncation – Keyword – Weighted Term – Information / Library Security – Trends and Issues – Smart Card, Biometric, and Firewall – Internet Security.

a. Topics for Self-Study

1. Basic of ICT and Functional Units of computer

https://youtu.be/ga77WI-ylV0

2. Internet: basic services and features, advantages, History and Development

https://youtu.be/bwgzqISuy8I

3. Open source library software and applications

https://youtu.be/xDc066Ws-cU

4. libraryautomation,need,purpose and advantages

https://youtu.be/8JpOWVl_w7g

b. Reference Books

R1.   Anita Rosen (2011). E-*Learning 2.0: Proven Practices and Emerging Technologies*, ReferencePress.

R2.   Bilal, Dania (2002). *Automating Media Centres and Smasll Libraries : A Micro computer –Based Approach: Libraries Unlimited*,Colorado.

R3.   Dilli, KT (2011). *Library and Information Science in a Digital Era*, Atlantic.

R4.   Herring, James E. (2000). *Planning for Library Automation*: Library Association.

R5.   Krishan, Gopal (2000). *Digital Libraries in Electronic Information Era*, Press.

R6.   Muhammad RiazKan (1992). *Library Automation* Atlantic Publisher and Distributors.

R7.   Pratt (1996).*Programming Language: Design and implementation,* Prentice Hall.

R8.   Rajasekaran L (2010). Digital Library Basics: A practical Manual, EssEss,Publications.

R9.   Shyama Balakrishnan and P.K. Paliwal (2001). *Library Automated Acquistion,* Anmol Publications Pvt.Ltd.

c. Internet Resources

How to use web service center (http://www.monash.com/spidaple.html)

3. Specific Learning Outcomes

Unit/Section	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
1	**Computer Characteristics, Types**		
1.1	Origin and Development of Computer	Understand the concepts of computer	K2
1.2	Characteristics and types	Classify the characteristics and types of computer	K3
1.3	Generations and Components	1.Categories the generations of computers 2. Discuss the components of computers	K6
1.4	Input and Output Devices	Analyse the important of input and output devices	K4
1.5	Hardware and Software	Distinguish between hardware and software	K2
2	**Software and operating system**		
2.1	System Software	Define system software	K1
2.2	Operating systems and types	Discuss the operating systems and classify the different types	K2
2.3	Disk Operating Systems	Explain the different disk operating systems	K6
2.4	Windows, Unix and Linux	Distinguish Windows, Unix and Linux operating systems	K2
3	**Library Modules, Controls**		
3.1	Computer Application Modules	Summarise the different application modules	K2
3.2	Acquisition and Cataloguing	Develop Acquisition and Cataloguing modules	K2

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3.3	Circulation and Serial Control	Evaluate circulation and serial control	K4
4		**Computer software**	
4.1	Bibliographic Application Software	Explain the bibliographic and application software	K2
4.2	Open Source Software	Describe the open sources	K1
4.3	Commercial Software	Evaluate commercial software	K5
5		**Search strategy, Security Devices**	
5.1	Search Strategy and Techniques	Discuss search strategy and techniques	K2
5.2	Truncation, Keyword and Weighted Term	Examine the functions of Truncation, Keyword and Weighted Term	K3
5.3	Library Security -Trends Issues	Describe the library security issues	K5
5.4	Smart Card	Elaborate the use of smart card in library security solutions	K6
5.5	Biometric, and Firewall	Apply Biometric and Firewalls in libraries	K3

4. Mapping of COs to POs & PSOs

P18LS104	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	L	L	-	H	L	M	-	L	M	M	-	-	H
CO2	-	-	-	M	M	H	-	M	M	M	-	-	M
CO3	-	M	-	M	M	M	-	-	M	H	-	H	H
CO4	-	-	-	M	M	H	-	L	M	L	-	M	M
CO5	-	-	-	M	M	H	-	L	M	M	-	H	H
CO6	-	-	-	M	H	M	-	-	M	H	-	H	H

L-Low M- Medium H-High

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Assignment, Group Presentation, Group Discussion, Project Reports, Field work Report, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

ELECTIVE – I : INFORMATION SYSTEMS AND SERVICES

Semester I   **Course Code : P18LS1:1**

Credits 4

1. Course Outcomes
At the end of the course, the students will be able to

S. No.	Course Outcomes	Level	Unit Covered
1.	Understand the concept and types of reference service.	K2	I
2.	Apply the different types of information services in libraries.	K4	II
3.	Apply the different methods of user studies and the importance of user education in libraries.	K4	III
4.	Evaluate the national, international and mission oriented information systems.	K6	IV
5.	Apply the key areas of National Knowledge Commission & National Mission on Libraries.	K4	V
6.	Analyse the internet based information resources and distinguish diverse documentation centers	K4	VI

2. Syllabus

Unit – I (25 Hrs.)
Reference Service & Information Services
Reference service: Definition, Need and Types – Information Services: CAS, SDI, Indexing, Abstracting, Bibliography, Translation and Reprography – Information Products: Preparation and Compilation

Unit – II (15 Hrs.)
Information Users
Information Users: Definition, Types – User studies – User Education – User Psychology -User Evaluation– Guidance and Counseling

Unit – III (15 Hrs.)
Information Systems
Information System: Concepts, Characteristics, Types and Functions – International, National and Mission - Oriented Information Systems - National Knowledge Commission (NKC) – National Mission on Libraries (NML)

Unit – IV (20 Hrs.)
Case Studies of Information Systems
Case studies of Information Systems: NISCAIR, DESIDOC, INIS, AGRIS, UNESCO, INSPEC, BLAISE, MEDLARS

Unit – V (15 Hrs.)
Internet based Information Resources
Role of Internet in information transfer – Internet based information resources in India: NICNET, INFLIBNET, INFONET, DELNET.

a. Topics for Self-Study
1. Reference Interview and Search Techniques

https://youtu.be/9szaSmXDQbg

2. Information Intermediaries

https://youtu.be/hdBoXtumMPY

3. Web based Information Services

http://ir.inflibnet.ac.in:8080/ir/bitstream/1944/1418/1/58.pdf

4. Mobile baser services and Technologies

http://www.ijrls.in/wp-content/uploads/2016/08/Mobile-Library-Services-and-Technologies-A-Study.pdf

b. Text Book:

   T1:   Singh, G. (2013). *Information Sources, Services and Systems*. PHI Learning Pvt. Ltd.

c. Reference Books:

   R1:   Devarajan, G., & Pulikutheil, J. K. (2011). *Information Access, Tools, Services and Systems*. Ess Ess Publications.
   R2: Kumar, P. S. G. (2004). *Library and Users: Theory & Practice: (papers VIII of UGC Model Curriculum)*. BR Publishing Corporation.
   R3: Kumar, P.S.G. (2004). I*nformation Analysis, Repacking, Consolidation and Information Retrieval*: (*papers X & XI of UGC Model Curriculum*). BR Publishing Corporation.
   R4: Kumar, P.S.G. (2004) *Information Sources and Services: Theory & Practice: (papers VI & VII of UGC Model Curriculum)*. BR Publishing Corporation.
   R5: Kumar, P. S. G. (2004). *Information Technology: Applications: (papers XIII & XIV of UGC Model Curriculum)*. BR Publishing Corporation.

d. Internet Sources:

http://www.nmlindia.nic.in (accessed 25 July 2020)

https://whc.unesco.org (accessed 25 July 2020)

(accessed 25 July 2020)

3. Specific Learning Outcomes (SLO)

Unit/ Section	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
I	**Reference Service**		25
1.1	Reference Service Definition, Need, Types	Understand the Need and Types of Reference Service. Evaluate the different types of Reference Service.	K5
1.2	Information Services: CAS, SDI, Indexing, Abstracting, Bibliography, Translation, Reprography	Remember the different types of Information Services Understand the purpose of information services. Evaluate the different information services.	K5
1.3	Information Products: Preparation & Compilation	Understand the preparation of information products. Create information product.	K6
II	**Information Users**		15
2.1	Information Users: Definition, Types	Remember the different types of users. Analyse the different types of users.	K4
2.2	User Studies & User Education	Understand the methods of user studies. Evaluate the various methods of user education.	K5
2.3	User Psychology, User Evaluation, Guidance and Counseling	Analyse the psychology of users. Evaluate the perceptions of user. Apply/offer the guidance and counseling to the user.	K6
III	**Information System**		15
3.1	Information System: Concepts, Characteristics, Types and Functions	Understand the Concepts, Characteristics, Types and Functions of information systems.	K2
		Understand the various	

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		information systems.	
3.2	International, National and Mission - Oriented Information Systems	Evaluate the International, National and Mission - Oriented Information Systems.	K5
3.3	National Knowledge Commission (NKC)	Understand the importance of NKC. Analyse the role of NKC.	K4
3.4	National Mission on Libraries (NML)	Understand the importance of NML. Analyse the role of NML in promoting public libraries	K4
IV	**Case studies of Information Systems**		**20**
4.1	Case studies of Information Systems	Understand the various case studies of Information Systems.	K2
4.2	NISCAIR, DESIDOC	Evaluate the collections, activities and services of the National documentation centre.	K5
4.3	INIS, AGRIS, MEDLARS INSPEC, BLAISE	Apply/use the mission oriented Information Systems. Evaluate the services and publications different mission oriented Information Systems.	K5
4.4	UNESCO	Understand the activities of International Information Systems.	K2
V	**Internet based Information Resources**		**15**
5.1	Role of Internet in Information Transfer: Internet based information resources in India	Understand the Role of Internet in Information Transfer Analyse the Internet based information resources.	K4
5.2	NICNET, INFLIBNET, INFONET, DELNET	Understand the activities and services of the network based information cater. Apply/make use of the resources for study and research.	K3

4. Mapping of COs to POs & PSOs

P15LS1:1	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	L	M	M	-	H	H	-	M	L	M	M	H	-
CO2	L	M	-	-	H	-	-	M	L	M	-	-	-
CO3	L	M	M	H	-	H	M	-	-	M	-	-	-
CO4	-	H	H	-	-	-	-	M	M	-	-	H	H
CO5	L	H	H	-	-	-	-	-	M	L	M	-	-
CO6	-	M	H	-	H	H	-	-	M	M	-	-	H

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Virtual Learning, Assignment, Group Presentation, Group Discussion, Project Reports, Field work Report, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

CORE – V : INFORMATION PROCESSING AND RETRIEVAL (THEORY)

Semester– II   **Course Code :P18LS205**
Credits   5

1. Course Outcomes

S.No.	Course Outcome	Level	Unit Covered
1.	Understand the concept and terminologies related to information processing and retrieval	K2	1
2.	Understand the different types of classification, Modes of Formation of subjects and general schemes of classification	K2	1
3.	Understand the need and purpose of library catalogue and analyze the different physical and inner forms of catalogue	K2	2
4.	Understand the concept and types of indexing, generate coordinate index entries and construct Thesaurus	K2	3
5.	Understand and analyze various bibliographic standards and formats	K4	4
6.	Evaluate Information Storage and Retrieval Systems	K6	5

2.   Syllabus
Unit 1 (15 Hours)
Library Classification

General Theory of classification – Knowledge – Document Classification– Basic Concepts – Structure and Development of subjects – Outlines of General Schemes of Classification – CC, DDC, UDC, LC, BSO.

Unit II (15 Hours)
Library Cataloguing
Catalogue – Definition, Need, Purpose – Physical and Inner forms, Subject Headings – LCSH and Sears List.

Unit III (15 Hours)
Indexing

Indexing – Concept, Types, Indexing, Language – Pre-coordinate, Post-coordinate Indexing – Vocabulary Control Devices – Thesaurus

Unit IV (15 Hours)
Bibliographic Description Standards

Bibliographic Description Standards and Format – ISBD, MARC 21, AACR II, CCF, RDA, ISO 2709, UNIMARC

Unit V (15 Hours)

Evaluation of Information Storage and Retrieval

Search Strategies – Tools and Techniques, Evaluation of Information Storage and Retrieval Systems – Parameters; IR Models

c. Topics for Self Study:

1. Notations in Classification
http://egyankosh.ac.in/bitstream/123456789/33085/1/Unit-13.pdf
2. Current Trends in Classification
http://egyankosh.ac.in/bitstream/123456789/33083/1/Unit-15.pdf
3. Recent Trends in Cataloging
https://www.egyankosh.ac.in/bitstream/123456789/33115/1/Unit-18.pdf
4. Recent Trends in Indexing
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC198293/

b. Reference Books:

R1: Krishan Kumar, Theory of Classification, 4 th Rev. ed., Vikas Publishing House,New Delhi,1988.

R2: Ranganathan,S.R. Prolegomena to Library Classification 3 rd ed., Asia Publishing House,1967.

R3: Girija Kumar and Krishna Kumar, Theory of cataloguing, 4 th ed., Vikas Publishing House, New Delhi,1986.

R4: Tripathy S.M. Modern Cataloguing Theory and Practice, Shivalal Agarwala and Company, Agra,1978.

R5: Chakrabarthy.A.R, Indexing principles, process and products, world press, Calcutta,1984.

R6: Lancaster, FW, Information Retrieval systems, 2nd edition, Wiley &Ampson, New York,1974.

3. Specific Learning Outcomes (SLO)

Unit/ Section	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
I	**Library Classification (15 Hrs)**		
1.1	General Theory of Classification, Basic Concepts	Understand General Theory of Classification and Basic Concepts in Classification	K2

1.2	Knowledge Classification and Document Classification	Understand Knowledge Classification and Document Classification	K2
1.3	Structure and Development of Subjects	Understand and Analyse Structure and Development of Subjects	K4
1.4	Outline of General Schemes of Classification – CC,DDC,UDC,LC,BSO	Understand and Analyse different schemes of classification	K4
II	**Library Cataloguing**		
2.1	Catalogue – Definition, Need and Purpose	Understand the concept, Need and Purpose of Library Catalogue	K2
2.2	Physical and Inner forms of Catalogue	Understand and apply various physical and inner forms of catalogue	K3
2.3	Subject Headings – Library of Congress Subject Headings and Sears List	Understand the concept Subject Headings and apply it in the libraries	K3
III	**Indexing(15 Hrs)**		
3.1	Indexing – Concept, Types	Understand the concept and types of indexing	K2
3.2	Indexing Language	Understand the concept indexing language	K2

3.3	Pre-coordinate and Post- coordinate Indexing	Understand the concept co-ordinate indexing and generate entries	K6
3.4	Vocabulary Control Devices – Thesaurus	Understand the concept Vocabulary Control Devices and Construct Thesaurus	K6
IV	**Bibliographic Description Standards(15 Hrs)**		
4.1	Bibliographic Description Standards and Format	Understand the concept Bibliographic Standards and Format	K2
4.2	ISBD, MARC 21, AACRII	Understand the different Bibliographic Descriptions and apply the same in libraries	K3
4.3	CCF,RDA,ISO 2709, UNIMARC	Understand and apply Common Communication Format	K3
V	**Evaluation of Information Storage and Retrieval(15 Hrs)**		
5.1	Search Strategies-Tools and Techniques	Understand Search Strategies and its tools and techniques	K2
5.2	Evaluation of Information Storage and Retrieval Systems-Parameters	Evaluate Information Storage and Retrieval Systems	K5

5.3	IR Models	Understand and apply IR Models	K3

5. Mapping Scheme for the PO, POS &COS

P18LS205	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PS01	PS02	PS03	PSO4
CO1	M	L	L	-	L	H	M	-	-	H	L	M	-
CO2	L	L	L	-	L	H	M	-	-	H	L	H	-
CO3	L	L	L	L	L	H	L	-	-	H	M	H	-
CO4	L	L	L	L	L	H	L	-	-	H	M	H	-
CO5	L	M	M	L	L	H	H	-	-	H	M	H	-
CO6	L	L	M	-	L	H	L	-	-	H	M	M	-

L-Low M- Medium H-High

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Assignment, Group Presentation, Group Discussion, Project Reports, Field work Report, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

CORE VI INFORMATION TECHNOLOGY

Semester: I   **Code:P18LS206**
Credits:5

1.Course Outcomes

S. No.	Course Outcomes	Level	Unit Covered
1.	Measure the impact IT on society and applications of IT in libraries and information centers.	K6	Unit – 1
2.	Discuss the various elements of communication technology.	K2	Unit – 2
3.	Summaries the different communication tools and techniques.	K2	Unit – 3
4.	Analyse the topologies, types of networking technology.	K4	Unit – 4
5.	Differentiate the planning and implementation of Internet and Intranet.	K4	Unit – 4
6.	Categories the diverse components of web technology.	K6	Unit – 5

2. Syllabus
Unit –I (15 Hrs.)
Information Technology and its Applications
Information Technology: Components – Impact of IT on Society – Application of IT in Libraries and Information Centers – Computer Technology: Input, Output and Storage Devices

Unit –II (16 Hrs.)
Communication Technology
Communication Technology: Telecommunication – Transmission media: Switching, Bandwidth, Multiplexing, Modulation Protocols – Wireless Communication Basics

Unit – III (14 Hrs.)
Communication Tools and Techniques
Communication tools and techniques: Fax, Tele Conferencing, Video Conferencing, Teletext, Video Text and Bulletin Board Services

Unit – IV (14 Hrs.)
Networking Technology
Networking Technology: Concept, Topologies – Types: LAN, WAN and MAN, Internet, Intranet
Unit –V (16 Hrs.)
Web Technology

Web Technology: Web Browser, Search Engine, Hypertext, Hyper Media and Multimedia; Integrated Service Digital Network (ISDN) – Open System Inter connection (OSI), Virtual Reality.

a. Topics for Self – Study

1. Advance Search Techniques:
   http://egyankosh.ac.in/bitstream/123456789/11295/1/Unit-19.pdf
2. Web Blog: https://twp.duke.edu/sites/twp.duke.edu/files/file-attachments/blogging-introduction.original.pdf
3. Multimedia Technology -
   https://www.tutorialspoint.com/multimedia/multimedia_introduction.htm
4. Library Security Techniques - https://developer.mozilla.org/en-US/docs/Learn/Server-side/First_steps/Website_security

b. Text Books:

T1: Balasubramanian, P. (2011). Library Information and Communication Technology. Deep and Deep Publications Pvt. Ltd.

T2: Kumar, P. S. G. (2004). Information Technology: Applications: (papers XIII & XIV of UGC Model Curriculum). BR Publishing Corporation.

c. Reference Book:

R1: Alexis Leon & Mathews Leon (1999). Fundamentals of Information Technology. Leon Vikas.

3. Specific Learning Outcomes (SLO)

Unit / Section	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
I	**Information Technology and its applications**		
1.1	Information Technology: Components and Impact of IT on Society	• Understand the concepts, and components of IT. • Analyse the impact of IT on society.	K4
1.2	Application of IT in Libraries and Information Centers	• Measure the areas application of IT in libraries and information centers.	K4
1.3	Computer Technology: Input, Output and Storage Devices	• Define the computer technology. • Discuss the input,	K2

			output and storage devices of computer.	
II	**Communication Technology**			
2.1	Communication Technology: Telecommunication and Transmission media	• Identify different transmission media. • Differentiate between communication and telecommunication.	K4
2.2	Switching, Bandwidth, Multiplexing, Modulation, Protocols	• Understand the concepts of switching and bandwidth. • Explain techniques of multiplexing, modulation and protocols.	K5
2.3	Wireless Communication Basics	• Explain the basics of wireless communication	K5
III	**Communication Tools and Techniques**			
3.1	Communication tools and techniques: Fax	• Identify the communication tools and techniques.	K1
3.2	Tele Conferencing, Video Conferencing	• Compare the features of teleconferencing and video conferencing techniques.	K5
3.3	Teletext, Video Text	• Distinguish between teletext and videotext.	K2
3.4	Bulletin Board Services	• Examine the Bulletin Board Services in the libraries.	K3
IV	**Networking Technology**			
4.1	Networking Technology: Concept, Topologies	• Understand the concept of networking technology. • Illustrate the different topologies of networks.	K4
4.2	Types of Networks: LAN, WAN and MAN	• Classify the different types of networks.	K3

4.3	Internet and Intranet	• Compare the implementation of Internet and Intranet.	K5
V	**Web Technology**		
5.1	Web Technology: Web Browser and Search Engine	• Give examples of Web Browser. • Summarise the role of search engine in information transfer.	K6
5.2	Hypertext, Hyper Media and Multimedia	• Understand the role of Hypertext, Hyper Media. • Analyse the functions of Multimedia in information transfer.	K3
5.3	Integrated Service Digital Network (ISDN)- Open System Inter connection (OSI)	• Analyse the concept of Integrated Service Digital Network. • Organise the functions of Open System Inter connection (OSI).	K4
5.4	Virtual Reality	• Understand the concept of Virtual Reality.	K2

5. Mapping of COs to POs & PSOs

P20LS104	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	H	H	-	H	H	H	-	H	H	-	-	H	-
CO2	L	L	-	L	L	L	-	L	L	L	-	L	-
CO3	L	L	-	L	L	L	-	L		L	-	L	-
CO4	M	-	-	M	M	M	-	M	M	M	-	M	-
CO5	M	-	-	M	M	M	-	M	M	M	-	M	-
CO6	-	-	H	H	H	H	-	H	H	H	-	H	-

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Assignment, Group Presentation, Group Discussion, Project Reports, Field work Report, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

CORE PRACTICAL-I: INFORMATION PROCESSING AND RETRIEVAL PRACTICE – I (Classification CC&DDC)

Semester II   **Course Code : P18LS2P1**
Credits   3

Course Objectives

At the end of the course the learner will be able to

CO1: Understand the concept of classification of documents by using DDC & CC

CO2: Categorize different Main Class in Colon Classification scheme

CO3: Classify documents using Colon Classification Schemes

CO4: Applying the classification schemes according to Dewey Decimal Classification

CO5: Applying Dewey Decimal Classification Schedules for classification of documents

CO6: Identifying how to use Index in DDC

B.   COURSE PLAN

Unit	Course Content	Learning Outcomes	Blooms Taxonomic levels of Transaction
1.	Colon Classification	Understanding the concept of Colon Classification	K2
2.	Colon Classification	Classify Main Class using Colon Classification	K5
3.	Colon Classification	Classifying ding Array and Facets	K5
4.	Dewey Decimal Classification	Understanding the concept of Dewey Decimal Classification	K2
5.	Dewey Decimal Classification	Classify Main Class using Dewey Decimal Classification	K5
6.	Dewey Decimal Classification	Classify Main Class using Schedule in Dewey Decimal Classification	K5

C.   Reference

R1:   Ranganathan, S.R 2007, Colon Classification; 6th ed., Ess Ess
       Publications

R2:   Dewey, Melvil, 1979 *Decimal classification and relative index;* 19th ed.
       Albany, N.Y

D.   Mapping of COs to POs

P15LS2P1	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	H	H	M	M	L	H	M	-	H	H	M	-	-
CO2	H	H	M	M	L	L	-	L	H	L	-	H	-
CO3	H	L	-	M	L	L	-	L	H	L	-	H	-
CO4	H	L	-	M	M	M	M	M	M	H	-	M	-
CO5	H	H	M	M	L	L	-	L	H	L	-	H	-
CO6	L	-	L	-	H	-	M	-	H	H	H	-	-

L- Low   M- Medium   H-High

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Open Book Test
2. Record Writing & Performances- Open Book Test
3. Pre-Semester, End-Semester Examination - Open Book Test

SEMESTER II   **Course Code : P18LS2P2**

Credits   3

Course Objectives

At the end of the course the learner will be able to

CO1. Understand the concept of cataloguing of documents and serials

CO2. Prepare cataloguing entries for authorship and corporate authorship
    patterns

CO3. Prepare cataloguing entries for Serial Publications

CO4. Understand the concept of classification of documents

CO5. Classify the documents according to Universal Decimal Classification

CO6. Classify documents using special auxiliaries

B.   COURSE PLAN

Unit	Course Content	Learning Outcomes	Blooms Taxonomic levels of Transaction
1	Personal Authorship	1. Understand the concept of Cataloguing of documents. 2. Generate a catalogue card for authorship patterns.	K6
2	Corporate Authorship	1. Understand the concept of Cataloguing of corporate Authorship. 2. Generate a catalogue card for corporate authorship patterns.	K6
3	Serial Publications	1. Understand the concept of Cataloguing of serial publications. 2. Generate a catalogue card for serial publications patterns.	K6

Unit	Course Content	Learning Outcomes	Blooms Taxonomic levels of Transaction
4.	Tables of Auxiliaries	Identifying and deriving the classification number by using auxiliary table in UDC	K6
5.	Main Tables	Deriving the classification number from Universal Decimal Classification Schedule	K6

C.   References

T1: Kumar, P. S. G. (2004). *Knowledge Organisation, Information Processing and Retrieval: Practice: (papers III of UGC Model Curriculum).* BR Publishing Corporation.

T2: Raju, A A A (1991). *Universal Decimal Classification (ime, 1985): a Practical and Self.* Madras: T.R. Publications.

T3: British Standard Institution (2000). Universal Decimal Classification London: British Association of Social Workers.

D.   Mapping of COs to POs

P15LS2P2	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PS01	PS02	PS03	PSO4
CO1	M	M	-	H	H	H	-	-	-	-	-	H	-
CO2	M	M	-	H	M	H	-	-	-	H	-	H	-
CO3	H	M	-	M	H	M	-	L	-	H	-	H	-
CO4	M	M	-	H	H	H	-	-	-	-	-	H	-
CO5	M	M	-	H	M	H	-	-	-	H	-	H	-
CO6	H	M	-	M	H	M	-	L	-	H	-	H	-

 L- Low   M- Medium   H-High
5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Open Book Test
2. Record Writing & Performances- Open Book Test
3. Pre-Semester, End-Semester Examination - Open Book Test

Semester II   **Course Code : P19LS2:2**

Credits   4

1. Course outcomes:

S.No.	Course Outcome	Level	Unit Covered
1.	Understand the basic concept of Knowledge Management, Knowledge Society, Knowledge Economy, Knowledge Management System & different types of knowledge.	K2	Unit 1
2.	Apply & analyze knowledge creation model, knowledge capture techniques and build knowledge architecture.	K4	Unit 2
3.	Understand the concept of Knowledge codification, needs and discover knowledge codification tools.	K4	Unit 3
4.	Examine content development & management analysis. Apply & make use of norms and guidelines for web content development	K4	Unit 4
5.	Basic ideas & concepts of Ontology in sharing and reusable of knowledge	K2	Unit 4
6.	Categories knowledge workers and skill requirements in knowledge centers by adapting legal and ethical issues.	K4	Unit 5

2. Syllabus
Unit –I (12 Hours)
Management of Knowledge
Knowledge Society – Knowledge Economy, Understanding Knowledge Management – Concept – Definition – Types and Challenges in Building KM System.
Unit- II (12 Hours)
Knowledge Creation & Knowledge Architecture
Knowledge Creation – Knowledge Capture – Knowledge Creation Models – Knowledge Capture Techniques - Knowledge Architecture – People Core – Technical Core- Content Core

Unit –III (12 Hours)
Knowledge Codification
Knowledge Codification – Definition, Need – Codification Tools, Procedures – Knowledge Maps – Decision Tables – Decision Trees.

Unit-IV (12 Hours)
Content Analysis
Content Analysis – Quantitative and Qualitative Aspect applications – Content Management and Development – Norms and Guidelines - Web Based Content Development – HTML/XML – Ontologies.

Unit-V (12 Hours)
Ethical & Legal Issues
Knowledge Workers – Skills Requirement - Ethical – Legal Issues.

a.   Topics for Self-study:
1. National information infrastructure:
https://www.youtube.com/watch?v=l5WkiLWHMgA&feature=youtu.be
2. Social Media for Library Services: https://youtu.be/ATiaazorr7E
3. National information infrastructure:
https://www.youtube.com/watch?v=l5WkiLWHMgA&feature=youtu.be
4. Knowledge organization in Digital Libraries:
https://www.youtube.com/watch?v=MhPVk_zFROs

b. Reference Books:

R1.   Aiwar Thothathri Raman,2008 *Knowledge Management Resource book*, Excel books, New Delhi.
R2   Abell, Angello, *Competing with Knowledge: The information Professional to Knowledge Era*, London, LA publishing, 2001.
R3.   Jhothari Raman, *Knowledge Management: A Resource Book*, New Delhi, Excel,2008.
R4.   Harish Chandra, *Knowledge Management for Competitive Advantages*, New Delhi, Excel, 2005.
R5.   Kanti Srikantaiah T. *Knowledge Management for Information Professional,* New Delhi ,Ess Ess,2008.
R6.   Tiwana, Amrit *The Essential Guide to Knowledge Management*, Pearson Education, Singapore, 2000.
R7.   Tiwana Amrit. *The Knowledge Management Tool Kit*, NJ, Prentice Hall, 2000.
R8.   Wenger, Etienne, *A guide to Managing Knowledge Cultivating Communities of Practice*, Harword Business School Press,2002.

3. Specific Learning Outcomes (SLO):

Unit/ Section	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
I	**Management of Knowledge**		
1.1	Knowledge Management : Concept , Definition and Types	Understand the basic concept of Knowledge management	K2
1.2	Knowledge Society & Knowledge Economy	Understand the concept of Knowledge Economy and Society	K2
1.3	KMBS	Analyze and evaluate challenges in building KM systems.	K4
II	**Knowledge Creation & Knowledge Architecture**		

2.1	Knowledge creation, capture and models	Understand the concept of knowledge creation and knowledge capture Discover different types of knowledge creation model and knowledge capture methods.	K4
2.2	Knowledge capture and Techniques	Understand and apply knowledge capture and techniques	K3
2.3	Knowledge Architecture	Apply and build knowledge architecture with people core, content core & technical core	K4
III	**Knowledge Codification**		
3.1	Knowledge Codification	Understand the concept of knowledge codification and its needs.	K2
3.2	Codification tools and Procedures.	Discover and create different tools and procedure for knowledge codification	K6
IV	**Content Analysis**		
4.1	Content analysis	Understand the basic concept of content analysis and content management	K2
4.2	Content management and development, norms and guidelines	Apply and make use of norms & guidelines for content management and development	K3
4.3	Web based content development	Understand concept of web based content management	K2
4.4	Ontology	Basic ideas & concepts of Ontology in sharing and reusable of knowledge	K2
V	**Ethical & Legal Issues**		
5.1	Knowledge workers & Skill requirement	Analyze and evaluate skill requirement for knowledge workers	K5
5.2	Ethical and legal issues	Concept and ideas of Ethical and legal issues	K4

4. Mapping of COs to POs & PSOs

P19LS2:1	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	M	M	H	L	H	H	L	M	L	M	M	H	H
CO2	H	H	M	-	M	M	-	M	L	M	H	M	-
CO3	M	H	M	-	L	L	-	L	M	H	H	M	-
CO4	M	M	H	L	H	H	L	M	L	M	M	H	H
CO5	H	H	M	-	M	M	-	M	L	M	H	M	-
CO6	M	H	M	-	L	L	-	L	M	H	H	M	-

L-Low M- Medium H-High

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Assignment, Group Presentation, Group Discussion, Project Reports, Field work Report, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

Teacher Incharge
Dr,William Abraham

ELECTIVE III : SOFT SKILLS FOR LIBRARY PROFESSIONALS

SEMESTERII   **Course Code: P19LS2:3**
Credits   4
4. Course Outcomes

S.No.	Course Outcome	Level	Unit Covered
1.	Understand the concept Soft Skills and apply them in Library and Information Centres	K2	1
2.	Understand the importance of Attitude Formation and Develop positive attitude	K2	1
3.	Understand the significance of Communication and Communication Skills	K2	2

4.	Apply Interpersonal Skills in the work place	K4	3
5.	Evaluate the presentation skills and develop their Presentation Skills	K6	4
6.	Understand the importance Ethics and apply the same in Personal and Professional Life	K4	5

2. Syllabus
Unit – I   **(12 Hrs.)**
Soft Skills
Soft Skills – Concept – Employability skills – need – types – Attitude Formation Creativity-Decision Making.

Unit – II   **(12 Hrs.)**
Communication Skills
Communication - Significance - Types – Listening - Meta Communication - Telephonic – Online –Organizational - Body Language.

Unit – III   **(12 Hrs.)**
Personal Effectiveness
Personal Effectiveness –Self Esteem- Intra- Inter Personal Skills - Team Building – Change Management - Time Management - Stress Management.

Unit – IV   **(12 Hrs.)**
Presentation Skills
Presentation Skill - Resume Writing- Interview - Preparation - Presentation - Performance -Mock Interview.

Unit – V   **(12 Hrs.)**
Professional Ethics
Ethics - Professional Ethics - Seven Lamps of Conduct - Duty to Documents – Customers - Profession.

a. Topics for Self-Study:
1. Self - Motivation
https://www.lifehack.org/articles/featured/8-steps-to-continuous-self-motivation.html
2. Responsibility
https://www.toppr.com/guides/fundamentals-of-economics-and-management/organising/concept-of-responsibility/

3. Problem Solving
https://www.thebalancecareers.com/problem-solving-skills-with-examples-2063764

4. Flexibility
https://www.thebalancecareers.com/workplace-flexibility-definition-with-examples-2059699

b. Reference Books

R1: Dhanavel S P, English and Soft Skills, Orient Black Swan, Hydrabad, 2010

R2: Jeff Butterfield, Soft Skills for Everyone, Cengage Learning, New Delhi, 2010

R3: Edgar Thorpe and Showick Thorpe, Winning at Interview, Pearson Education, 2004

R4: Dale Carnegie, How to Win Friends and Influence People, Simon & Schuster, New York, 1998

3. Specific Learning Outcomes (SLO)

Unit/ Section	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
I	**Soft Skills**		**(12 Hrs.)**
1.1	Soft Skills-Concept	Understand the concept Soft Skills	K2
1.2	Employability Skills – Need - Types	Understand and apply Employability Skills in Work Place	K3
1.3	Attitude Formation, Creativity, Decision Making	Understand the importance of Attitude Formation, Creativity and Decision Making and Develop them	K6
II	**Communication Skills (12 Hrs.)**		
2.1	Communication – Significance, Types	Understand the significance and types of communication and Develop them	K6

Unit	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
2.2	Listening, Meta Communication	Evaluate the Listening Skills and improve Meta Communication Skills	K5
2.32.3	Telephonic Communication, Online Communication, Organisational Communication	Understand the significance of Telephonic Communication, Onsline Communication and Organisational Communication and Develop them	K6
2.42.4	Body Language	Understand the importance of Body Language and Develop it	K6
III	**Personal Effectiveness (12 Hrs)**		
3.1	Personal Effectiveness – Self Esteem	Evaluate the Personal Effectiveness and Self Esteem and Develop them	K6
3.2	Intra – Inter Personal Skills	Analyse the Intra-Inter Personal Skills and Develop them	K6
3.3	Team Building	Develop Team Building Skills	K6
3.4	Change Management, Time Management, Stress Management	Understand the concepts Change Management, Time Management and Stress Management and Develop skills	K6
IV	**Presentation Skills (12 Hrs)**		
4.1	Presentation Skill- Resume Writing	Develop Presentation Skills and Resume Writing Skills	K6
4.2	Interview – Preparation - Presentation	Understand the different steps in the preparation of Interview and Develop them	K6
4.3	Performance-Mock Interview	Analyse their performance through Mock Interviews	K4
V	**Professional Ethics (12 Hrs)**		

5.1	Ethics-Professional Ethics	Apply Ethics in Personal and Professional Life	K3
5.2	Seven Lamps of Conduct	Apply the Seven Lamps of Conduct in Work Place	K3
5.35.3	Duty to Documents – Customers-Profession	Evaluate their Duty towards Documents, Customers and Develop them	K6

4. Mapping of COs to POs & PSOs

P19LS2:2	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	L	M	H	L	H	-	L	-	L	-	L	H	-
CO2	L	L	L	L	H	-	L	-	L	-	L	H	-
CO3	M	H	M	L	H	-	L	L	L	-	M	H	-
CO4	L	M	L	L	H	-	L	L	L	-	L	H	-
CO5	H	H	L	-	H	-	L	M	-	-	L	H	-
CO6	L	L	L	-	H	-	L	H	-	-	M	H	-

L-Low M- Medium H-High

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Assignment, Group Presentation, Group Discussion, Project Reports, Field work Report, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

CORE-VII: RESEARCH METHODOLOGY

Semester III   **Course Code : P18LS307**

Credits   5

2. Course Outcomes

S. No	Course Outcomes	vel	it Covered
1	Understand the concept of Research, its characteristics and types.	Low	Unit – 1
2	ifying Research process & Build a research design for various research types.	dium	Unit – 2
3	ing the process of Review of Literature and its characteristics in research.	dium	Unit – 2
4	rstand and relate the different types of research methods.	Low	Unit – 3
5	zing and choosing the types of data to be collected and applying in the various types of research.	dium	Unit – 4
6	ing and compiling the data for testing various an analysis methods using statistical tools and Construct a Research Report using proper style and Structure.	High	Unit – 5

3. Syllabus

Unit – I   **(12 Hrs.)**
Introduction to Research
Research: Concept, Characteristics and Types; Pure, Applied, Action and Inter Disciplinary Research – Logic and Scientific investigation.

Unit – II   **(12 Hrs.)**
Research Problem and Research Design
Research Problem: Identification, Selection and Formulation of a Research Problem - Research design-Literature Search and Review of Literature – Hypothesis : Definition, Types and Characteristics .

Unit – III   **(11 H rs.)**
Research Methods
Research Methods- Survey – Historical – Case study – Experimental etc; Sampling – Definition, Types and Relevance.

Unit – IV   **(11 Hrs.)**
Data Collection Methods
Data Collection: Data Sources – Primary Sources and Secondary Sources;

Data Collection Methods - Questionnaire, Interview, Observation etc.

Unit – V   **(12 Hrs.)**
Data Analysis and Interpretation

Data Analysis : Analysis and Interpretation – Statistical Tools and Techniques- SPSS; Measures of Central Tendency, Frequency Distribution, Regression and Correlation; Report Writing - Style and Structure, Presentation of data.

Topics for Self – Study

1. Plagiarism:

https://la.psu.edu/current-students/documents/TypesofPlagiarism.pdf

3. Citation Analysis tools and Citation database:

https://libraryguides.helsinki.fi/metrics/citations#:~:text=Citation%20databases%20and%20tools&text=The%20three%20best%20known%20citation,and%20Google%20Scholar%20(GS) .

4. Data analysis: Computer Processing:

https://www.questionpro.com/blog/data-analysis-in-research/

5. Project planning:

https://www.plymouth.ac.uk/uploads/production/document/path/8/8015/a-printable-step-by-step-guide-to-planning-your-research-project.pdf

C.   **Reference Books**

R1:   Santhosh Gupta, Research Methodology and statistical Techniques, Deep and Deep Publications, New Delhi.

R2:   Kothari, C.R., 2012, Research Methodology: Methods and Techniques; 2nd ed., New Age International Publisher

R3:   Ranjith Kumar, 2011,Research Methodology: A step by step guide for beginners; 3rd ed., SAGE Publications, New Delhi.

R4:   Crano, D. William, Brewer, B. Marilynn, and Lac, Andrew; 2015., I 3rd ed., Routledge, New York,

4. Specific Learning Outcomes (SLO)

Unit / Section	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
I	**Introduction to Research**		**12 Hrs**

1.1	Research: Concept, Meaning, Characteristics, Approaches & Significance	Understand and Remember the basic ideas & Concept of Research Methods.	K2
1.2	Types of Research	Understanding the main outline of different types in Research.	K2
1.3	Research Process	Remembering & Understanding the process of Research	K2
1.4	Criteria of Good Research	Stating the main idea of good research.	K2
II	**Research Problem and Research Design**		**14 Hrs**
2.1	Research problem: Concept & Definitions	Understanding the basic concept of research problem	K2
2.2	Selection of Research Problem	Selecting & Formulating of Research Problem	K3
2.3	Techniques in Research Problem	Applying & Analyzing the various techniques used in research problem	K3
2.4	Research Design: Concept &Meaning	Remembering & Understanding the concept and meaning of research design.	K2
2.5	Principles & Types of Research Design	Understanding the types of research design	K2
2.6	Review of Literature Concepts & Types	Understanding and applying the concept of Literature Search and its types.	K3
2.7	Concept of Hypothesis	Understanding the concept of Hypothesis	K2
2.8	Types of Hypothesis	Identifying and applying the different types of hypothesis inresearch	K4
2.9	Testing of Hypothesis	Choosing and Analyzing the various types of hypothesis by testing in data analysis process.	K5
III	**Research Methods**		**11 Hrs**
3.1	Research Methods	Understanding the concept of Various types of research Methods.	K2
3.2	Case Study Research Method	Understanding &analyzing the concept of Case study Method in	K4

		Research	
3.3	Survey Research Method	Understanding & Analyzing the concept of Survey Research Method	K4
3.4	Historical Research Method	Understanding & Analyzing the concept of Historical Research method	K4
3.5	Experimental Research Method	Understanding & Analyzing the concept of Experimental Research Method	K4
IV	**Data Collection Methods**		**11 Hrs**
4.1	Data collection in Research Methodology	Understanding the concept of Primary and Secondary data in research	K2
4.2	Primary Sources in Research Methodology	Understanding the concept of Primary Sources	K2
4.3	Secondary Sources in Research Methodology	Understanding the concept of Secondary Sources	K2
4.4	Data Collection Methods	Applying and Analyzing the data collection methods in research	K4
4.5	Different types of Data Collection Methods	Applying and Analyzing the types in data collection methods in research	K4
V	**Data Analysis and Interpretation**		**12 Hrs**
5.1	Data Analysis	Understanding the concept of Data analysis in research	K2
5.2	Types of data analysis process in research	Applying and Analyzing the types of data analysis process in research	K4
5.3	Data Interpretation Method	Understanding the concept of Data Interpretation in research	K2
5.4	Statistical Tools and Techniques	Understanding the concept of Statistical Tools and Techniques in research	K2
5.5	Statistical Analysis types: Measures of Central Tendency, Frequency	Evaluate the Statistical Techniques in Research	K5

	Distribution, Correlation & Regression		
5.6	Report Writing	Evaluate and Create a report by compiling the data	K6
5.7	Presentation of Research Data	Evaluate and Create the presentation of data	K6

4. Mapping of COs to POs & PSOs

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	L	H	M	L	H	M	H	L	M	H	H	M	M
CO2	M	H	H	L	M	H	H	L	M	L	M	H	L
CO3	L	M	H	L	M	H	H	L	H	L	H	M	L
CO4	L	M	M	L	M	H	H	M	L	H	M	M	L
CO5	M	M	H	L	M	H	H	L	M	H	M	M	L
CO6	L	M	M	H	H	H	H	L	M	H	M	M	H

L-Low M- Medium H-High

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Assignment, Group Presentation, Group Discussion, Project Reports, Field work Report, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

CORE-VIII : DIGITAL LIBRARIES

Semester III   **Course Code : P18LS308**

Credits   5

1. Course Outcomes

S. No.	Course Outcomes	Level	Unit Covered
1.	Analyse the different National and International digital library initiatives	K4	I
2.	Develop the digitalization process and digital storage of documents.	K4	II
3.	Plan for the collection development building and management of digital content.	K6	III
4.	Classify the different types of digital library open source software.	K4	IV
5.	Examine the structure, models and theories of library consortia initiatives.	K6	V
6.	Measure the scope and functions of digital resource management standards	K5	VI

2. Syllabus

Unit – I (20 Hrs.)
Digital Library Initiatives Digital Libraries Definition, Need and Purpose, Components, Types, Advantages and Disadvantages – Digital Library Initiatives; International / National

Unit – II (15 Hrs.)
Digitalization Process 15 Hrs.
Digitalization Process – Digital Storage Mechanism: Digital Library Architecture Management, standards – Naming of files.

Unit – III (20 Hrs.)
Collection Management
Collection Management: Collection Building, Access, Management and Preservation – Institutional Repositories – Overview of Digital Library Software, GSDL, Dspace, E-prints and Digital Archives

Unit – IV (20 Hrs.)
Library Consortia
Library Consortia: Definition, Need, Structure, Functions, Planning and Implementation – Models and Theories – Library Consortia Initiatives: FORSA,

INDEST, UGC-INFONET.

Unit – V (15 Hrs.)
Digital Resource Management
Digital Resource Management – Scope, Need, Functions – Digital Resource
Management Standards.
.
a. Topics for Self-Study
1. National Digital Library of India- https://ndl.iitkgp.ac.in/
2. Digital Libraries and semantic web- https://youtu.be/aDcn4mocCpE
3. Search & Browse Interface in Digital Library-https://youtu.be/cGDHv3h0e-k
4. Knowledge Organisation in Digital Library- https://youtu.be/MhPVk_zFROs

b. Text Books:

  T1:   Singh, G. (2011). *Digital libraries and digitization.* Ess Ess
         Publications.
  T2:   Kumar, P. S. G. (2004). *Information Technology: Applications: (papers
         XIII & XIV of UGC Model Curriculum).* BR Publishing Corporation.

c. Internet Resources:

https://epgp.inflibnet.ac.in

https://ess.inflibnet.ac.in

3. Specific Learning Outcomes (SLO)

Unit/ Section	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
I	**Digital Library Initiatives**		20
1.1	Digital Libraries: Definition, Need and Purpose	• Understand the Need and Purpose of Digital Libraries.	K2
1.2	Components, Types, Advantages and Limitations	• Understand the components and Types of Digital Libraries. • Remember the Advantages and Limitations of Digital Libraries.	K2
1.3	Digital Library Initiatives; International / National	• Analyze the different digital library initiatives in India. • Evaluate the National and International digital library initiatives.	K5

II		**Digitalization Process**	15
2.1	Digitalization Process	• Understand the digitalization process. • Create the digitalization process	K6
2.2	Digital Storage Mechani sm	• Understand the digital storage mechanism. • Create mechanism to store the digital content.	K6
2.3	Digital Library Architec ture Management	• Understand the Digital Library Architecture. • Evaluate the digital library architecture.	K5
III		**Collection Management**	20
3.1	Collection Management :	• Create/ manage the digital content.	K6
3.2	Collection building, Access, Management and Preservation	• Understand the collection building and management of digital content. • Apply the various techniques of digital preservation.	K3
3.3	Institutional Repositories	• Create Institutional repository.	K6
3.4	Overview of Digital Library Software: GSDL, Dspace, E- Prints, Digital Archives	• Remember the various digital library software. • Analyses the features of digital library software.	K4
IV		**Library Consortia**	20
4.1	Library Consortia: Definition, Need, Structure, functions	• Understand the need, structure and functions of library consortia.	K2
4.2	Planning and Implemen tation	• Create and implement the Library consortia.	K6
4.3	Models and Theories of Consortia	• Evaluate the different models and theories of Library consortia.	K5
4.4	Library Consortia Initiatives: FORSA, INDEST, UGC-INFONET	• Understand the library consortia initiatives. • Critically evaluate the features of different initiatives.	K5
V		**Digital Resource Management**	15
5.1	Digital Resource Management: Scope need,	• Understand scope, need and functions of DRM.	K2

		functions		
5.2	Digital Resource Management Standards	• Apply the DRM's standards in digital library.	K3

4. Mapping of COs to POs & PSOs

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	L	H	H	-	H	H	-	M	M	M	-	H	-
CO2	-	-	M	H	H	H	-	M	M	M	-	H	-
CO3	L	H	M	H	-	H	-	L	M	L	-	H	H
CO4	L	-	-	H	-	H	-	L	M	L	-	H	H
CO5	M	-	M	M	H	H	-	L	L	L	-	-	H
CO6	-	L	M	H	-	H	-	M	M	M	-	H	-

L-Low M- Medium H-High

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Virtual Learning, Assignment, Group Presentation, Group Discussion, Project Reports, Field work Report, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

CORE PRACTICAL-III: OPEN SOURCE SOFTWARE PRACTICE

Semester III   Course Code : P18LS3P3

Credits   3

A.   Course Outcomes:

At the end of the course the learner will be able to:

CO1: Understand the basics of LINUX operating system.

CO2: Compile the bibliographic details of books, periodicals and dissertations using CDS/ISIS.

CO3: Discover the functions of KOHA Library Automation Software.

CO4: Apply and modules: Automation, Acquisition, Cataloguing and Circulation using KOHA

CO5: Develop Digital Library Collection Using DSpace Digital Library Software

CO6: Create, design & develop Library Collections by using Drupal Content Management Software

B.   Course Plan

Unit	Course Content	Learning Outcomes	Blooms Taxonomic levels of Transaction
U I	LINUX: Operating System	Understand& Apply the basics of LINUX operating system	K5
U II	Bibliography Software: CDS/ISIS	Compile & Create the bibliographic details of books, periodicals and dissertations using CDS/ISIS	K5
U III	Library Automation Software: KOHA	Discover the functions of KOHA Library Automation Software.	K5
U IV	Digital Library Software: Dspace	Develop Digital library collections using DSpace Digital Library Software	K5

Unit	Course Content	Learning Outcomes	Blooms Taxonomic levels of Transaction
U V	Content Management Software: Drupal	Create, Design &Develop library collections by using Drupal Content Management Software	K5
U I	LINUX: Operating System	Understand& Apply the basics of LINUX operating system	K5

C.   References:

a)   https://www.tutorialspoint.com/ubuntu/index.htmwww.cds/isis.org

b)   http://egyankosh.ac.in/youtubevideo.jsp?src=l0yqX9WHIdc&t&title= CDS/ISIS%20for%20%20windows%20an%20introduction

c)   https://koha-community.org/demo/

d)   http://egyankosh.ac.in/youtubevideo.jsp?src=C6G9VttuDio&feature& title=Dspace

e)   https://www.tutorialspoint.com/drupal/index.htm

D.   Mapping Scheme for the PO, PSO & COs

P18LS3P3	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	L	L	H	H	H	H	M	-	M	L	H	M	H
CO2	L	L	H	H	H	H	M	-	M	L	H	M	H
CO3	M	L	H	H	H	H	M	-	M	L	H	M	H
CO4	L	M	H	M	H	H	M	-	M	L	H	M	H
CO5	M	M	H	M	M	M	M	-	M	L	H	M	H
CO6	L	M	H	H	H	H	M	-	M	L	H	M	H

L- Low   M- Medium   H-High

5. Course Assessment Methods
I. Direct Method:
1. Continuous Assessment test: T1, T2 (Practical components)
2. Record Writing & Performances
3. Pre-Semester, End-Semester Examination

CORE PRACTICAL –IV : LIBRARY AUTOMATION PRACTICE

Semester III   **Course Code : P18LS3P4**

Credits   3

A.   Course Outcomes:

At the end of the course the learner will be able to:

CO1: Understand the basics in the computerization of different Library operations and apply the same using Visual Foxpro

CO2: Apply Visual Foxpro in Acquisition Module

CO3: Apply Visual Foxpro in Circulation Module

CO4: Apply Visual Foxpro in Catalogue Module

CO5: Apply Visual Foxpro in Serials Control Module

CO6: Evaluate different Library Automation Softwares and acquired thorough knowledge in various housekeeping routines in library using Visual Foxpro

B.   Course Plan

Unit	Course Content	Learning Outcomes	Blooms Taxonomic levels of Transaction
U I	Overview of Visual Foxpro	Understand & Apply the basics of Library Automation and Visual Foxpro	K3
U II	Application of Visual Foxpro for Acquisition Module	Create book database for execute Acquisition Function using Visual Foxpro	K6
U III	Application of Visual Foxpro for Circulation Module	Create book database and user database and execute Circulation Function using Visual Foxpro	K6

Unit	Course Content	Learning Outcomes	Blooms Taxonomic levels of Transaction
U IV	Application of Visual Foxpro for Cataloguing Module	Develop a Catalogue Module using Visual Foxpro and Execute the same	K6
U V	Application of Visual Foxpro for Serials Control Module	Develop Serials Control Module and Execute the same using Visual Foxpro	K6

E. Mapping Scheme for the PO, PSO & COs

P18LS3P4	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	L	M	L	M	M	H	-	-	L	L	-	M	H
CO2	-	-	L	H	L	H	-	-	M	M	-	M	H
CO3	-	-	M	H	M	H	-	-	L	M	-	H	H
CO4	-	-	M	H	M	H	-	-	M	M	-	H	H
CO5	-	-	M	H	M	H	-	-	M	M	-	H	H
CO6	H	M	H	H	H	M	-	-	M	H	-	H	H

L- Low   M- Medium   H-High

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Practical components)
2. Record Writing & Performances
3. Pre-Semester, End-Semester Examination

ELECTIVE - IV: INFORMATION MARKETING

Semester III   **Course Code : P19LS3:4**

Credits   4

1.Course Outcomes

S. No.	Course Outcomes	Level	Unit Covered
1	Understand the basic concept of Information Products & its types.	K2	1
2	Apply the concept of marketing and discover the various types & approaches of marketing.	K4	2
3	Analyze the various techniques of marketing research.	K4	3
4	Recognize the types of Philip Kotler's Marketing mix and competition analysis.	K4	4
5	Apply the different types of marketing segmentation.	K4	5
6	Apply the various methods of Information Product Advertisements through SNS.	K4	5

2. Syllabus

Unit – 1(12 Hrs.)
Information Marketing Products, Methods
Information as a Commodity and Resource – Information Products – Nature and Types – Marketing of Information – Need – Methods

Unit-II (12 Hrs.)
Marketing approaches, strategy
Marketing – Concept, Need, Scope, Types – Approaches- Corporate Strategy

Unit –III (12 Hrs.)
Marketing research
Marketing Research; Definition, Functions, Types and Scope – Application – Techniques – Marketing Information System – Components – Functions.

Unit –IV (12 Hrs.)
Marketing mix, branding and pricing methods
Marketing Mix: Designing – Branding – Strategies – Kotlers Four C's McCarthy's Four P's - Competition Analysis – Pricing Methods.

Unit – V (12 Hrs.)
Segmentations, behaviors, Social networking and advertisement Market

Segmentation – Geographic – Demographic – Behavioral –Psychographical Segmentation – User Behaviour – Marketing Advertisement, Role of SNS.

a. Topics for the Self-Study

1. Marketing of Academic Library and Services
https://youtu.be/0I81VNrXUe0

2. Management Information system
https://youtu.be/WrKGBWni2A0

3. Marketing Porducts and services
https://youtu.be/7PcCnJMK6Ac

4. Topic Marketing of Information Services.
https://youtu.be/27W56w6U2fw

b. Reference Books

R1.Seethraman,2015,"Marketing in library and Information Centres",EssEss Publication,New Delhi.
R2. Philip Kotler, 2004,"Marketing Management", New Delhi: Pearson Education.
R3.Pillai RSN, 2002,"Modern Marketing", New Delhi, S.Chand& Co.
R4.Barclay Donald A, 2011,"Teaching and Marketing Electronic Information Programs", Chennai, NFSBO.
R5.Fisher Karen,2008," Theories of Information Behavior" ,New Delhi, EssEss.
R6.Fisher Patricia.H,2009," Blue print for your Library Marketing Plan",New Delhi,
EssEss.
R7.Mathews Brian,2009,"Marketing Today's Academic Library", New Delhi.Ess Ess.

3. Specific Learning Outcomes

Unit/ Section	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
1	**Information Marketing Products, Methods**		
1.1	Information as a commodity and resource	Understand the concept of information Products and Information as commodity	K2
1.2	Information products: Nature & types	Understand the concept of information	K2

		products-nature, types	
1,3	Need & methods of information marketing	Apply & analyse the needs and various methods of information marketing	K2
2	**Marketing approaches, strategy**		
2.1	Marketing concept	Understand the basic concepts of Information marketing & its needs	K2
2.2	Marketing Need/Scopes/ Types/Approaches	Understand the scope, needs, types and approaches of marketing	K2
2.3	Corporate Strategy.	Apply & analyze the various approaches of corporate strategies in marketing.	K4
3	**Marketing Research**		
3.1	Marketing Research	Understand the concept of marketing research its functions.	K2
3.2	Marketing Research types	Distinguish different types of marketing research	K2
3.3	Marketing Research Application/ Techniques	Distinguish different types of marketing research application and techniques.	K2
3.4	Marketing Information System	Understand the concept, functions, needs &components of MIS	K2
4	**Marketing mix, branding and pricing methods**		
4.1	`Marketing Mix	Choose and classify different types of Philip Kotler's Marketing mix and competition analysis.	K4
4.2	Information products branding.	Understanding the concept of information branding	K2
4.3	Branding Strategies, Pricing methods	Apply various strategic types in	K4

5	Segmentations, behaviors, Social networking and advertisement			
5.1	Market Segmentation	Understand the concept of market segmentations like, Geographic, Demographic, Behavioral and Psychographic.	K2	
5.2	User Behavior	Understand the concept of user behavior & patterns	K2	
5.3	Marketing Advertisement	Apply & analyze the concept of marketing advertisement and its importance.	K4	
5.4	SNS	Adapt Social Networking Sites for Advertisements.	K6	

4. Mapping of COs to POs & PSOs

P18LS3:1	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	H	H	L	M	M	-	L	-	M	H	-	M	-
CO2	H	H	L	-	M	-	L	-	M	H	-	L	-
CO3	L	M	H	-	H	H	-	-	M	M	-	L	-
CO4	H	H	M	-	M	M	L	-	M	H	-	L	-
CO5	H	H	M	-	M	L	L	-	M	H	-	H	-
CO6	H	H	M	L	M	M	-	-	M	H	-	H	-

L-Low M- Medium H-High
5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Virtual Learning, Assignment, Group Presentation, Group Discussion, Project Reports, Field work Report, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

Semester IV   **Course Code : P18LS409**

Credits   5   **Total Hrs.   : 60**

1. Course Outcomes:

S.No.	Course Outcome	Level	Unit Covered
1.	Understand the origin and development of Informerics.	K2	Unit 1
2.	Understand the concept of different types of metric studies like Bibliometrics, Librametrics, Scientometrics, Webometrics, Cybermetrics and Altmetrics.	K2	Unit 1
3.	Understand and discover the various concepts, theories, laws and parameters of Bibliometrics.	K6	Unit 2
4.	Distinguish the ideas of Quantitative and Qualitative Analysis Techniques.	K4	Unit 3
5.	Apply and analyze the functions of Citation Analysis and identify the importance of Ranking in Citation Indexing process.	K4	Unit 4
6.	Utilize and examine the concept of Impact factor and its importance.	K6	Unit 5

2. Syllabus
Unit – 1 (12 Hrs.)
Evolution of the concept of Infometrics
Evolution of the concept of Infometrics – Librametry, Bibliometrics, Scientometrics, Webometrics, Cybermetrics, Altmatrics

Unit –II (12 Hrs.)
Theory and Laws
Theory and Laws - Zipf's law, Lotka's Law, Bradford's Law. Price Theory and Circulation Theory; Garfield theory

Unit – III (15 Hrs.)
Quantitative and Qualitative Techniques
Quantitative and Qualitative Techniques: Types, Multidimensional Scaling, Cluster Analysis, Correspondence Analysis and Media and Audience Analysis.

Unit –IV (12 Hrs.)
Citation Analysis
Citation Analysis; Definition, Theory of Citing, Forms, Age of Citations, Types, Ranking; h-index, g-index, i – 10 Google index, Citation Indices.

Unit –V (9 Hrs.)
Impact factor
Impact factor – Journal Impact Factor collaborative coefficient

a. Topics for Self-Study:
1. National Mapping of Science:
 https://www.youtube.com/watch?v=gGtC-y1wGrs&feature=youtu.be
2. Scientometrics & Altmetrics: Trends & issues
https://www.youtube.com/watch?v=wn-kKgClU5g
3. Google Analytics: Metrics and Dimensions
https://guides.library.upenn.edu/googleanalytics/ga_metrics
4.Introducing CiteScore metrics
https://www.youtube.com/watch?v=vTlCmI652aQ

b. Reference Books:
R1: Shri S.K. Sen,2017 Block-1 Foundation of Informetricsand Scientometrics; IGNOU

R2: Sociology of Science and Scientometrics, 2017, Block-1 Foundation of Informetrics and Scientometrics; IGNOU

R3: https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=21 (Paper No : 10 Informetrics and Scientometrics Module : 01 Librametry, Bibliometrics, Scientometrics, Informetrics and Webometrics: Historical Development)

R4: https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=21 (Paper No : 10 Informetrics and Scientometrics Module : 10 Citation Analysis)

R5: https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=21 (Paper No :10 Informetrics and Scientometrics Module : 17 Webometrics, Cybermetrics and Nettometrics)

3. Specific Learning Outcomes (SLO)

Unit/ Secti on	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
I	**Evolution of the concept of Infometrics**		
1.1	Informetrics: Origin and Development of Informetrics	Understand and Remember the basic ideas & Concept of Informetrics	K2
1.2	Bibliometrics: Origin and Development of Bibliometrics	Understand and Remember the basic ideas & Concept of Bibliometrics	K2
1.3	Webometric/Cybermetrics: Origin and Development of Webometrics	Understand and Remember the basic ideas & Concept of Webometrics	K2
1.4	Scientometrics: Origin and Development of Scientometrics	Understand and Remember the basic ideas & Concept of Scientometrics	K2
1.5	Librametrics: Origin and Development of	Understand and Remember the basic ideas & Concept of	K2

		Librametrics	Librametrics	
II	**Theory and Laws**			
	2.1	Zipf's Law: Concept and its Process	Understanding the main ideas of Zipf's Law and its concept.	K2
	2.2	Bradford's Law: Concept and its Process	Understanding the main ideas of Bradford's Law and its concept.	K2
	2.3	Lotka's Law: Concept and its Process	Understanding the main ideas of Lotka's Law and its concept.	K2
	2.4	Bibliometric Theories	Understanding the concept of Garfield theory, Price theory and Circulation Theory in bibliometrics	K2
III	**Quantitative and Qualitative Techniques -**			
	3.1	Quantitative & Qualitative Techniques	Distinguish the ideas of Quantitative and Qualitative Analysis Techniques	K4
	3.2	Types of Quantitative & Qualitative Analysis Techniques	Distinguish the types of Quantitative and Qualitative Analysis Techniques	K4
	3.3	Analysis Concept	Understanding the concept of Cluster analysis, Multidimensional scaling, Correspondence analysis & Media Analysis.	K4
IV	**Citation Theory & Analysis**			
	4.1	Theory of Citation	Apply and analyze the functions of Citation Analysis and identify the importance of Ranking in Citation Indexing process.	K4
	4.2	Ranking	Apply and analyses the concept of ranking like google index, h index,	K4

			g index & i-10 indexing processes	
V	**Impact factor**			
5.1	Impact Factor	Understanding the concept of Impact Factor	K2
5.2	Journal Impact Factor	Understanding the concept of JIF with working process	K2

4. Mapping of COs to POs & PSOs

P18LS409	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	L	L	L	-	L	-	-	L	L	L	L	-	-
CO2	L	L	L	-	L	-	-	L	L	L	L	-	-
CO3	H	H	H	-	H	-	-	H	H	H	H	-	-
CO4	H	H	H	-	H	-	-	H	H	H	H	-	-
CO5	M	M	M	-	M	-	-	M	M	M	M	-	-
CO6	H	H	H	-	H	-	-	H	H	H	H	-	-

L- Low   M- Medium   H-High

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Assignment, Group Presentation, Group Discussion, Project Reports, Field work Report, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

CORE-X: DATABASE MANAGEMENT SYSTEM FOR LIBRARY AND INFORMATION CENTRES

Semester IV   **Course Code : P18LS410**

Credits   5

1. Course Outcomes

At the end of the course, the students will be able to

S. No.	Course Outcomes	Level	Unit Covered
1.	Understand the basic concepts, structure and components of DBMS.	K2	I
2.	Identify the different data models in database management.	K4	II
3.	Differentiate between Structure Query Language (SQL) - Query by Example (QBE).	K6	III
4.	Classify the different types of databases being utilized in libraries.	K4	IV
5.	Recognize the databases in the diverse disciplines/subjects.	K6	V
6.	Determine role of database support services in enhancing visibility of the LIS professionals.	K4	VI

2. Syllabus

Unit –I (20 Hrs.)
Basic concepts of DBMS
Basic concepts of DBMS - Definition, Need and Entities – Records, FILES – Components – Advantages and Disadvantages – Application of Database Management Systems in Libraries and Information Centers.

Unit –II (15 Hrs.)
Models in DBMS
File organization - Data Models - Classification: Relational Model, Network model and Hierarchal model – Types of files - Indexing and Retrieval.

Unit – III (20 Hrs.)
Data Manipulation
Data Manipulation – Query Formulation - Structure Query Language (SQL) - Query by Example (QBE) Relational Data Base Management System (RDBMS)

Unit – IV (20 Hrs.)
Types of Databases
Databases – Types of Databases (Bibliographic, Abstracting, Citation, Numerical, Full Text and Factual). Education Resources Information Centre (ERIC), Excerpta Medica Database (EMBASE), Math Sci net, Library and Information Science Technology Abstract(LISTA).

Unit – V (**15 Hrs.)**
Database Support Services
Database Support Services – IEEE, COMPENDEX, PUBMED, EBSCO-SCOPUS – GOOGLE SCHOLAR – WEB OF SCIENCES – PROQUEST, Subject Gateways.

a. Topics for Self-Study
1.Web Information Retrieval Models-
https://link.springer.com/referenceworkentry/10.1007%2F978-1-4614-8265-9_928
2.Online Information Retrieval System
http://www.lisbdnet.com/online-information-retrieval-syste/
3. Multimedia Informational Retrieval
https://youtu.be/j7FhR4R9xls
4. Data Warehouse
https://www.datawarehouse4u.info/

b. Reference Book

Alexis Leon & Mathews Leon (1999) *Database Management Systems*, Leon Vikas.

c. Internet Resources

http://www.ignouhelp.in/ignou-mlii-104-study-material

http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=2h

ttps://mathscinet.ams.org/mathscinet

https://whc.unesco.org/

https://www.ebsco.com/

https://www.amu.ac.in/pdf/amulib/Subject_Wise_Gateways.pdf

3. Specific Learning Outcomes (SLO)

Unit/ Section	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
I	**Basic concepts of DBMS 20 Hrs.**		**20 Hrs.**
1.1	Basic concepts of DBMS-Definition, Needs, Entities, Records and Files	• Understand the concepts of and need for DBMS. • Define entities, records and files in DBMS.	K2

1.2	Components of DBMS, Advantages and Disadvantages	• Point out the components of DBMS. • Discuss the advantages and disadvantages of DBMS.	K4
1.3	Applications of DBMS Libraries and Information Centers	• Recognise the emerging areas where DBMS is applicable.	K6
II	**Models in DBMS**		**15 Hrs.**
2.1	File organization and Data Models	• Define File organization. • Determine the functions Data Models.	K5
2.2	Classification: Relational Model, Network model and Hierarchal model	• Classify the different models of DBMS. • Analyse the functions of models of DBMS.	K4
2.3	Types of files: Indexing and retrieval	• Relate the types of files Databases.	K4
III	**Data Manipulation**		**20 Hrs.**
3.1	Data Manipulation and Query Formulation	• Define Data Manipulation. • Describe Query Formulation.	K2
3.2	Structure Query Language (SQL) and Query by Example (QBE)	• Understand the concepts of SQL and QBE. • Differentiate between Structure Query Language and Query by Example.	K4
3.3	Relational Data Base Management System (RDBMS)	• Recognise the impact of Relational Database Management System.	K6
IV	**Types of Databases**		**20 Hrs.**
4.1	Types of Databases (Bibliographic, Abstracting, Citation, Numerical, Full Text	• Recall the types of Databases. • Evaluate the special	K5

		and Factual)		features of each database.	
4.2	Education Resources Information Centre (ERIC) and Excerpta Medica Database (EMBASE)		• Examine the usefulness of ERIC and EMBASE.	K3
4.3	Math Sci Net		• Summarise the features of Math Sci Net.	K6
4.4	Library and Information Science Technology Abstract (LISTA)		• Summarise the features of LISTA.	K6
V	**Database Support Services**			**15 Hrs.**
5.1	Database Support Services: IEEE, COMPENDEX, PUBMED and PROQUEST		• Give examples of Database Support Service. • Specify the features of IEEE, COMPENDEX, PUBMED and PROQUEST.	K6
5.2	EBSCO, SCOPUS, GOOGLE SCHOLAR WEB OF SCIENCE		• Rank the citation analysis databases based on their coverage of subjects.	K6
5.3	Subject Gateways		• Justify the importance of subject gateways in knowledge disseminations.	K5

4. Mapping of COs to POs & PSOs

P16LS410	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	L	L	L	L	L	L	-	L	L	L	-	L	
CO2	L	-	L	L	L	L	-	L	L	L	-	L	
CO3	M	M	M	M	M	M	-	M	M	M	-	M	
CO4	M	M	M	M	M	M	-	M	M	M	-	M	
CO5	H	-	H	H	H	H	-	-	H	H	-	H	
CO6	H	-	H	H	H	H	-	H	-	H	-	H	

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Assignment, Group Presentation, Group Discussion, Project Reports, Field work Report, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

ELECTIVE V : CORPORATE LIBRARIES AND INFORMATION SYSTEMS

Semester: IV   **Course Code :P19LS4:5**

Credits   : 4

1.Course Outcomes

S.No.	Course Outcomes	Level	Unit Covered
1	Explain the concept, nature, structures and functions of corporate library.	K2	1
2	Distinguish different type of information products and sources.	K2	2
3	Determine the essential skills required to the knowledge managers.	K6	3
4	Summaries the various computerized information services offered to the corporate library users.	K6	4
5	Distinguish information condensation and consolidation.	K2	5
6	Develop the tools for e-governance, e-learning tools and e-metrics.	K4	5

2. Syllabus
Unit- I   **(16 Hrs.)**
Corporate library structures, functions
Corporate Libraries: Concept – Nature – Objectives –Structure - Functions

Unit –II   **(18 Hrs.)**
Types, collection development
Nature and Types of Information Sources in Corporate Libraries – Collection Development.

Unit –III   **(18 Hrs.)**
Different type of skills
Skills Set: Communication, Presentation, Interpersonal, Negotiation and Marketing Skills

Unit –IV   **(20 Hrs.)**
Information Services
Services and Products: Abstracting and Indexing: SDI, CAS, Mail Alerting, Bulletin Board Service – Information Condensation and Consolidation – Computerised Information Services, Mail Alerting: Using Lotus Notes and Outlook Express and Web Archives

Unit –V   **(18 Hrs.)**

E-goverence, E-learning
E-Governance – Digital Rights Management (DRM) – Licensing – E- Learning
Concept, Tools - E-metrics

a. Topics for Self-Study

1. The emergence of Hybrid special library
https://youtu.be/iR2Q3m1Cruk

2. Planning and Acquisition of equipment
https://youtu.be/3889LxaZHxM

3. Collection development policies and procedures
https://youtu.be/Wqapgxxo09M

4. Current awareness services (CAS) and selective dissemination of
information (SDI)
https://youtu.be/vZapCv4t_Xg

b. Reference Books

R1.   Anil Kumar Dhiman (2008). *A Handbook of Special Libraries*. EssEss
       Publication.

R2.   Baby M.D. (2000). *Changing Trends in Library and Information science*.
       EssEss Publication.

R3.   Bailey Russell, D. (2012). *Transforming Library service Through
       Information Commons*. Indiana Publishing House.

R4.   Gangadharaiah G. (2012). *Management of Information Productsand
       services in University Libraries*. Commonwealth.

R5.   https://epgp.inflibnet.ac.in/ahl.php?csrno=21

3. Specific Learning Outcomes

Unit/ Section	Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
1	**Corporate library structures, functions**		
1.1	Concept and Nature of Corporate libraries.	Understand concept and nature	K2
1.2	Objectives and	Discuss the	

	structure of corporate libraries.	objectives and structure	K2
1.3	Functions of corporate libraries	Summarise the functions of corporate libraries	K6
2	**Types, Collection development**		
2.1	Nature and types of information sources in corporate library	Describe the nature and types of information	K2
2.2	Collection development in corporate library	Design the collection developments	K2
3	**Different type of Skills**		
3.1	Skill set in communication	Apply communication skills in the library	K3
3.2	Presentation skills, Interpersonal skills and negotiation Skills	Apply presentation, interpersonal and negotiation skill	K3
3.3	Marketing Skills	Explain then importance of marketing skills	K3
4	**Information Services**		
4.1	Information Services: Abstracting service, Indexing service, SDI,CAS and Mail alerting service	Evaluate the various information services and products	K5
4.2	Bulletin board services and computerized service	Appraise the importance of BBS and compuerised services.	K5
4.3	Information condensation and consolidation	Analyse the condensation and consolidation of information products	K4
5	**E-Governance, E-learning**		
5.1	E-Governance, digital rights management and licensing	Appy the E-governance, digital rights management and licensing	K3
5.2	E-Learning concepts, tools and E-metrics	Develop the E-learning concepts and E-metrics	K4

4. Mapping of COs to POs & PSOs

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	L	L	L	-	L	L	-	-	-	L	-	L	-
CO2	L	L	L	-	L	L	-	-	-	L	-	L	L
CO3	H	H	-	-	H	H	-	-	H	H	-	H	-
CO4	H	H	H	H	H	H	-	-	-	H	-	H	H
CO5	L	L	L	L	L	L	-	-	L	L	-	L	-
CO6	M	M	M	M	M	M	-	-	-	M	-	M	-

L- Low   M - Moderate   H- High

5. Course Assessment Methods

I. Direct Method:

1. Continuous Assessment test: T1, T2 (Theory components) - Closed Book
2. Cooperative Learning Report, Assignment, Group Presentation, Group Discussion, Project Reports, Field work Report, Poster Presentation, Seminar, Quiz (Written)- Open Book Test
3. Pre-Semester, End-Semester Examination - Closed Book

FIELD WORK AND INTERNSHIP TRAINING

Semester IV   **Course Code :   P18LS4F1**

Credits   3   **Total Hrs   :   90**

Course Outcomes:

At the end of the field work and Internship, the students will be able to

CO1. Understand different library routines and analyse various information resources.

CO2. Apply modern technologies in various library operations and services.

CO3. Evaluate the different types of library automation softwares and digital libraries softwares.

CO4. Acquire hands on experience in managing different libraries.

CO5. Analyse the work culture of different libraries.

CO6. Develop the skills in solving real time problems.

B.   Course Plan:

Unit	Course Content	Learning Outcomes	Blooms Taxonomic levels of Transaction
Field Work	Public Library System	Develop information resources and users to the public library.	K4
	Academic Library System	Determine the functions of the college and university library.	K5
	Special Library System	1. Compare the functions of engineering and management libraries. 2. Evaluate the functions of special libraries.	K5

Unit	Course Content	Learning Outcomes	Blooms Taxonomic levels of Transaction
Internship	Reputed Libraries and Information Centres across the Country	1. Group the activities of library and acquire hands on experience in managing different libraries. 2. Evaluate the work culture of the diverse libraries.	K6

Mapping of COs to POs

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	L	L	L	-	-	-	L	-	-	L	L	-	-
CO2	-	M	M	-	-	-	M	-	-	-	M	-	-
CO3	-	H	-	H	-	-	H	-	-	-	H	-	H
CO4	-	L	-	-	-	-	L	-	-	-	L	-	-
CO5	-	M	-	-	M	-	M	-	-	-	M	-	M
CO6	-	L	-	-	-	M	L	-	-	-	L	H	-

L-Low   M-Moderate   H- High

5. Course Assessment Methods

I. Direct Method:

1. Cooperative Learning Report, Group Presentation, Group Discussion, Field work & Internship Report & Poster Presentation.
2. Field Visit & Library Tour.
3. Viva-Voce

II. Indirect Method:

1. Course end Survey (Feedback)

CORE PROJECT

Semester : IV   **Code   : P18LS4PJ**
Credits: 5   **Total Hrs : 90**

Course Outcomes:

After Completing the project, the students will be able to:

CO1: Choose an appropriate problem and suitable methodology with respect to current challenges in the field

CO2: Survey literature sources to know the origin and development of a problem to fill up the research gap

CO3: Compile project findings for presenting the solution to broader audience

CO4: Practice ethical and professional values

CO5: Justify the findings and give recommendations

CO6: Propose new, sustainable and innovative solutions for real time problems in Library and Information Centres

Course Content	Learning Outcomes	Blooms Taxonomic Levels of Transaction
Choose a suitable area of research	Discover a suitable topic on current issues from Library and Information Centres and develop analytical thinking	K4
Objectives and Methodology	Devise the methodology, Plan for the execution of the project work, and sketch the work plan	K4
Analysis	Solve the problem through various Statistical techniques	K6
Interpretation	Interpret project findings	K6
Report Preparation	• Justify results in logical and scientific way	K6
	• Summarize the findings	K5
Viva-Voce	• Defend the findings	K5
	• Justify the conclusion	K6

Mapping Scheme for the PO, PSOs and COs

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PS01	PS02	PS03	PSO4
CO1	L	H	H	-	L	H	H	M	-	H	L	M	-
CO2	-	H	H	L	M	H	H	L	-	H	L	M	-
CO3	-	-	-	-	-	H	H	M	-	H	_	M	-
CO4	-	-	-	-	H	M	M	H	-	L	L	H	-
CO5	-	-	-	-	-	H	H	L	-	H	-	L	-
CO6	-	-	-	-	-	H	H	L	-	M	-	H	-

L-Low   M-Moderate   H- High
Course Assessment Methods

I. Direct Method:

1. Data Collection, Cooperative Learning Report, Group Discussion & Poster Presentation.
2. Report Writing, Dissertation Submission.
3. Viva-Voce

II. Indirect Method:

1. Course end Survey (Feedback)