ALAGAPPA UNIVERSITY

(A State University Established in 1985)

Karaikudi - 630003. Tamil Nadu, India

2017 Accredited with A+ Grade by NAAC (CGPA : 3.64)

2018 MHRD Govt. of India UGC Graded as Category-I & Granted Autonomy

2018 MHRD Swachh Campus Rank : 4

2021 nirf Rank : 33

2021 QS UNIVERSITY RANKINGS Asia Rank : 199

FACULTY OF ARTS

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

M.LIB.I.Sc.,

REGULATIONS AND SYLLABUS

(For the candidates admitted from the Academic Year 2022 - 2023)

DEPARTMENTOFLIBRARY AND INFORMATION SCIENCE
M.Lib.I.Sc (Master of Library and Information Science)

REGULATIONS AND SYLLABUS

[For the candidates admitted from the Academic Year2022 –2023onwards]

ALAGAPPAUNIVERSITY

(A State University Accredited with "A+" grade by NAAC (CGPA: 3.64) in the Third Cycle and Graded as Category-I University by MHRD-UGC)
Karaikudi -630003, Tamil Nadu.

THE PANEL OF MEMBERS-BROAD BASED BOARD OF STUDIES

Chairperson:Dr. S. Thanuskodi, Professor and head, Department of Library and Information Science, Alagappa University, Teaching Experience: 25,ResearchExperience: 18,AreaofResearch: Information and Communication Technology (ICT), User Studies, Bibliometrics, Webometrics, Research Methodology and Digital Libraries, User Studies, Metric studies, Digital Library, Information Sources and Services.	
Foreign Expert: Dr.S.M. Zabed Ahmed, Professor, Department of Information Science and Library management, University of Dhaka,TeachingExperience: -24,ResearchExperience: 22,AreaofResearch:User-Centred Design, Text Mining, Information Storage and Retrieval.	
Indian Expert: Dr. R. Sevukan, Associate Professor and Head, Department of Library and Information Science, Pondicherry University, Teaching Experience:24,ResearchExperience:20,Area of Research: Library Automation, Networking, Digitisation, Research Methods, Scientometrics.	
Indian Expert: Dr. M. Chandrashekara, Professor, Department of Library and Information Science, University of Mysore, TeachingExperience:27,ResearchExperience: 24,Areaof Research: Information sources, Metadata, Library automation and networking, Library management.	
Industry Expert: Dr.K.Elavazhagan, Librarian and Chief Remember officer, Indian Institute of Management, Trichy, Industry Experience:30,Research Experience:15, Area of Research: Remember Management, Collection Development and IPR.	
Members: (All Departmentfaculty) Dr.R.Jeyshankar, Associate Professor, Department of Library and Information Science, Alagappa University, Teaching Experience:21,ResearchExperience:16, Area of Research: ICT, User Studies, Webometrics, User studies, Scientometric.	
Alumnus/Alumna:Dr. P. Kannan, Scientist – E (LS), INFLIBNET Centre, Gandhinagar, Gujarat, Research Experience: 18 Area of Research: Research Information Management System, Cloud Computing, Profile Management System, Data Analytics.	

ALAGAPPA UNIVERSITY
DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE
Karaikudi -630003, Tamil Nadu.

REGULATIONS AND SYLLABUS - (CBCS-University Department)
[For the candidates admitted from the Academic Year 2022 – 2023 onwards]

Name of the Department : Library and Information Science

Name of the Programme : M.Lib.I.Sc.

Duration of the Programme : Full Time (Two Years)

Choice-Based Credit System
A choice-Based Credit System is a flexible system of learning. This system allows students togain Remember at their own tempo. Students shall decide on electives from a wide range of elective courses offered by the University Departments in consultation with the Department committee. Students undergo additional courses and acquire more than the required number of credits. They canalsoadoptaninter-disciplinaryandintra-disciplinaryapproachtolearning, and make the best use of the expertise of available faculty.

Programme
"Programme" means a course of study leading to the award of a degree in a discipline.

Courses
'Courses' is a component (a paper) of a programme. Each course offered by the Department is identified by unique course code. A course contains lectures/tutorials/laboratory/seminar/project/practical training/ report writing/Viva-voce, etc or a combination of these, to meet effectively the teaching and learning needs.

Credits
The term "Credit" refers to the weight age given to a course, usually in relation to the instructional hours assigned to it. Normally in each of the courses credits will be assigned on the basis of the number of lectures/tutorial/laboratory and other forms of learning required completing the course contents in a 15-week schedule. One credit is equal to one hour of lecture per week. For laboratory/field work one credit is equal to two hours.

Semesters
An Academic year is divided into two Semesters. In each semester, courses are offered in 15teaching weeks and the remaining 5 weeks are to be utilized for conduct of examination and evaluation purposes. Each week has 30 working hours spread over5 days a week.

Medium of Instruction
The Medium of Instruction shall be English.

Departmental Committee

The Departmental Committee consists of the faculty of the Department. The Departmental committee shall be responsible for admission to all the programmes offered by the Department including the conduct of entrance tests, verification of records, admission, and evaluation. The Departmental Committee determine the deliberation of courses and specifies the allocation of credits semester-wise and course-wise. For each course, it will also identify the number of credits for lectures, tutorials, practical's, seminars etc. The courses (Core/Discipline Specific Elective/ Non-Major Elective) are designed by teachers and approved by the Departmental committees. Courses approved by the Departmental committees shall be approved by the Board of studies/Broad Based Board of Studies. A teacher offering a course will also be responsible for maintaining attendance and performance sheets (CIA-I, CIA-II, assignments and seminar) of all the students registered for the course. The Non-major elective programme, MOOCs coordinator and Internship Mentor are responsible for submitting the performance sheet to the Head of the department. The Head of the Department consolidates all such performance sheets of course pertaining to the programmes offered by the department. Then forward the same to be Controller of Examinations.

Programme Educational Objectives

PEO-1	To impart high level skills and training necessary for those aspiring for holding higher Positions in library and information centres globally;
PEO-2	To get the learners familiarised with the basic concepts of information and its Role for the development of communication in society
PEO-3	To impart information processing techniques which will enable the students to retrieve précised information by applying various search strategies
PEO-4	To get the students acquainted with the activities and services of different information systems and introduce them to Re-packaging and consolidation techniques
PEO-5	To get the students well –versed with different methods and techniques including statistical tools of research
PEO-6	To sensitize the learners and enable them to resolve the major issues associated with the development of new technology in the libraries and information centres
PEO -7	To impart ICT based skills using open source software in order to make them serve competently in an automated and networked environment;
PEO-8	To introduce modern tools and techniques to students to manage Libraries and Information Centres effectively;
PEO -9	To prepare the students with special training in order to cope with the teaching – Learning process and Research in the changing scenario; and
PEO -10	To introduce modern tools and techniques to students to manage Libraries and Information Centres effectively

Programme Specific Objectives

PSO-1	To impart high level skills and training necessary for those aspiring to hold higher positions in library and information centres within the country and abroad
PSO-2	To get the learners familiarized with the basic concepts of information and its communication in society
PSO-3	To teach information processing techniques and develop capability in retrieving information efficiently by applying different search techniques
PSO-4	To get the students acquainted with the activities and services of different information systems and introduce them to packaging and consolidation techniques;
PSO-5	To impart ICT based skills using open source software in order to make them serve competently in an automated and networked environment

Progamme Outcome

PO-1	Apply the field's foundational theories, principles, values, ethics, and skills to everyday practice;
PO-2	Critique and synthesize research and identify appropriate research methodologies to solve problems in the field;
PO-3	Analyze and engage in the changing cultural, educational, and social roles and responsibilities of librarians/information professionals and the environments they work in within the global society;
PO-4	Identify and evaluate systems and technologies in order to implement improvements and innovations relevant to a particular information context;
PO-5	Identify needs and connect individuals and communities with information that engages and empowers them;
PO-6	Recognizing the need and having the preparation and ability to engage in independent and lifelong learning in the wider context of information and technological change.
PO -7	Understand and apply skills in carrying out professional activities such as acquisition, classification, cataloguing, physical processing of documents, and other library housekeeping operations.
PO-8	Understand the nature of information in all its formats and processes, the technologies that process it and human interaction with information and associated technologies.
PO -9	Preparing information professionals who will serve as intermediaries between information and information seekers and serve crucial roles in a wide variety of settings with increasingly sophisticated technological tools.
PO -10	Capacity building of holistic professionals with ingrained ethics and humanistic values, such as professionalism, service, social responsibility, sustainability, education and lifelong learning, and access to information as a public good.

Programme Specific Outcomes

PSO1	Up skill the students to work in libraries of national and international
PSO2	Enabling the learners to get familiar with the basic concepts of information society
PSO3	Understanding the services provided by different information systems along with practices of information retrieval tools efficiently
PSO4	Inculcating Open source software skills required for the automated library atmosphere
PSO5	Introduction of the latest technologies and tools in the field of library and information science to the learners to show the glimpse of the future.

Eligibility for admission

Eligibility : A candidate with a Bachelor's Degree in Science or Arts or Humanities of this University or any other University recognized by the syndicate of this University as equivalent thereto.

Lateral Entry : A candidate with a Bachelor's in any subject and with Bachelor of Library and Information Science of this University or any other University recognized by the syndicate of this University as equivalent there to shall be admitted in the 2nd Year of M.Lib.I.Sc. Degree Course.

Medium of Instruction : English

Selection of Admission : The selection of candidates shall be made on the basis of the Marks scored in the qualifying examination.

Intake : The total number of candidates to be admitted to the Programme would 15 (Fifteen) only.

Minimum Duration of Programme

The programme is for a period of two years. Each year's shall consist of two Semesters viz. Odd and Even semesters. Odd semesters shall be from June/July to October/November and even semesters shall be from November / December to April / May. Each semester there shall be 90 working days consisting of 6 teaching hours per working day (5days/week).

Components

A PG programme consists of a number of courses. The term "course" is applied to indicate a logical part of the subject matter of the programme and is invariably equivalent to the subject matter of a "paper" in the conventional sense. The following are the various categories of the courses suggested for the PG programmes:

A. Core courses (CC)-"Core Papers" means "the core courses" related to the programme concerned including practical and project work offered under the programme and shall cover core competency, critical thinking, analytical reasoning, and research skill.

B. Discipline-Specific Electives (DSE) means the courses offered under the programme related to the major but are to be selected by the students, shall cover additional academic Remember, critical thinking, and analytical reasoning.

C. Non-Major Electives (NME)-Exposure beyond the discipline.

- All PG programme students have to undergo a total of two Non- M a j o r Elective courses with 2credits offered by other departments (one in II Semester another in III Semester).
- A uniform time frame of 3 hours on a common day (Tuesday) shall be allocated for the Non-Major Electives.
- Non-MajorElectivecoursesofferedbythedepartmentspertainingtoasemester should be announced before the end of previous semester.
- Registration process: Students have to register for the Non-Major Elective course within 15 days from the commencement of the semester either in the department or NME portal (University Website).

D. Self-Learning Courses from MOOCs platforms.

- MOOCs shall be on voluntary for the students.
- All PG programmes students have to undergo a total of 2 Self Learning Courses(MOOCs) one in II semester and another in III semester.
- TheactualcreditsearnedthroughMOOCsshallbetransferredtothecreditplan of programmes as extra credits. Otherwise 2credits/course be given if the self Learning Course (MOOCs) is without credit.
- While electing the MOOCs, preference shall be given to the course related to employability skills.

E. Projects/Internships(MaximumMarks:200 / 100)

The duration of the Project/Dissertation/internship shall be a minimum of three months in the fourth semester.

Project / Dissertation

The project of M.Lib.I.Sc., will be evaluated by both the project guide and the external examiner for 100 marks each. Average will be drawn to finalize the marks of end semester examination. The remaining 50 marks are reserved for viva-voce examination which will be conducted by the External Examiner/HOD in the Department.

Format to be followed for dissertation/project report

The format /certificate for thesis to be followed by the student are given below

- Title Page
- Certificate
- Acknowledgement
- Content as follows

Chapter No	Title	Page number
1	Introduction	
2	Aim and objectives	
3	Review of literature	
4	Materials and methods	
5	Result	
6	Discussion	
7	Summary	
8	References	

- **Format of the title page**

Title of Dissertation/Projectwork

Dissertation/Project submitted in partial fulfilment of the requirement for the degree of Master of Science to the Alagappa University, Karaikudi -630003.

By

(Student Name)

(Register Number)

University Logo

Department of----------

Alagappa University

(A State University Accredited with "A+" grade by NAAC (CGPA: 3.64) in the Third Cycle and Graded as Category-I University by MHRD-UGC, 2019: QS ASIA Rank-216,QS BRICS Rank-104,QSIndia Rank-20)

Karaikudi - 630003

(Year).

- **Format of Certificates**

Certificate-Guide

This is to certify that the **Dissertation/Project** entitled"----------" submitted to Alagappa University, Karaikudi-630 003 in partial fulfilment for the degree of Master of Science in---------- by Mr/Ms----------(Reg. No) under my supervision. This is based on the results of studies carried out by him/her in the Department of----------,Alagappa University,Karaikudi-630003.Thisdissertation/Project or any part of this work has not been submitted elsewhere for any otherdegree,diploma,fellowship,oranyothersimilartitlesorrecordofanyUniversityorInstitution.

Place: Karaikudi Research Supervisor

Date: _____

Certificate – (HOD)

This is to certify that the thesis entitled"----------" submitted by Mr/Miss ---------- (Reg. No: ----------) to the Alagappa University, in partial fulfilment for the award of degree of Master of Sciencein---------- in --------- is a bonafide record of research work done under the supervision of Dr. ----------, Assistant Professor, Department of ----------, Alagappa University . This is to further certify that the thesis or any part thereof has not formed the basis of the award to the students of any degree, diploma, fellowship, or any other similar title of any university or Institution.

Place: Karaikudi Head of the Department
Date: _____

Declaration (Student)

I hereby declare that the dissertation entitled "----------**"** submitted to the Alagappa University for the award of the degree of Master of -------- in ------ has been carried out by me under the guidance of Dr.----------,Assistant Professor, Department of AlagappaUniversity,Karaikudi–630003. This is my original and independent work and has not previously formed the basis of the award of any degree, diploma, associateship, fellowship, or any other similar title of any University or Institution.

Place: Karaikudi **(----------)**
Date: _____

Internship

- **Format to be followed for Internship report**

Theformat/certificateforinternshipreporttobefollowedbythestudentaregiven below:

- Title page-**Format of the title page**

Title of internship report
Internship report submitted in partial fulfilment of the requirement for the Master of degree in ----------to the Alagappa University,
Karaikudi -630003.
By
(Student Name)
(Register Number)
University Logo
Department of----------
Alagappa University
(A State University Accredited with "A+" grade by NAAC (CGPA: 3.64) in the Third Cycle and Graded as Category-I University by MHRD-UGC, 2019: QS ASIA Rank-216,QS BRICS Rank-104,QSIndia Rank-20)
Karaikudi- 630003
(Year)

Certificate(Format of Certificate – faculty in-charge)

This is to certify that the report entitled"----------" submitted to Alagappa University, Karaikudi-630 003 in partial fulfilment for the degree of Master of Library and Information Science by Mr/Ms ----------(Reg No) under my supervision. This is based on the results of studies carried out by him/her in the organization M/S----------This is Internship report or any part of this work has not been submitted elsewhere for any other degree, diploma, fellowship, or any other similar record or any University or Institution.

Place: Karaikudi Research Supervisor
Date: _____

Certificate (HoD)

This is to certify that the Internship report entitled"----------" submitted by Mr. / Ms……. (Reg. No……) to the Alagappa University, in partial fulfilment for the award of degree of Master of Library and Information Science is a bonafide record of Internship report done under the supervision of ……. and the work carried out by him/ her in the organization M/S----------This is to further certify that the Internship report or any part thereof has not formed the basis of the award to the student or any degree, diploma, fellowship, or any other similar record or any University or Institution.

Place: Karaikudi Head of the Department
Date: _____

Certificate (Company Supervisor or Head of the Organisation)

This is to certify that the Internship report entitled"----------"submitted to Alagappa University, in partial fulfilment for the award of degree of Master of Library and Information Science by Mr / Ms---------- (Reg. No.) under my supervision. This is based on the work carried out by him/ her in our organization M/S----------for the period of one month. This Internship report or any part of this work has not been submitted elsewhere for any other degree, diploma, fellowship, or any other similar record or any other similar record of any University or Institution.

Place: Karaikudi Supervisor or in charge
Date: _____

Declaration (Student)

I hereby declare that the Internship report entitled "----------**"** submitted to the Alagappa University for the award of the degree of Master of Library and Information Science has been carried out by me under the supervision of Dr.----------,Assistant Professor, Department of AlagappaUniversity,Karaikudi–630003. This is my original and independent work carried out by me in the organization M/S …… for the period of one month and has not previously formed the basis of the award of any degree, diploma, associateship, fellowship, or any other similar title of anyUniversityor Institution.

Place: Karaikudi **(----------)**

Date: _____

- Acknowledgment
- Content as follows

Chapter No	Title	Pagenumber
1	Introduction	
2	Aim and objectives	
3	Organization Profile / details	
4	Methods / work	
5	Observation and Remember gained	
6	Summary and outcome of the Internship study	
7	References	

Internship

The interns are expected to undergo a library internship for 4 weeks in reputed libraries. They will submit a detailed report and present a seminar in the department for the evaluation. At the workplace, the interns will be evaluated by the trainer for 75 marks based on the following parameters: Punctuality; Attendance; Reliability; Adaptability; Interpersonal Skills; and Overall Performance during the period of internship.

Total marks for Internship : 100 Marks
Performance at work place : 75 Marks (Trainer at workplace)
Report / Presentation : 25 Marks (Internship Coordinator / HoD)

No.of copies of the dissertation/project report/internship report

The candidate should prepare three copies of the dissertation/project/report and submit the same for the evaluation of examiners. After evaluation, one copy will be retained in the department library, one copy will be retained by the guide and the student shall hold one copy.

Teaching Methods

Lecture-cum-demonstration, tutorials, group discussions, seminars, colloquia, case studies, assignment, observation and field studies.

Attendance

Students must have earned 75% of attendance in each course for appearing for the examination. Students who have earned 70% to 74% of attendance to be applied for condonation in the prescribed fee of Rs.100/- per subject and who have earned 60% to 69%, Rs.150/- per subject along with the Medical Certificate. Students who have attended below 60% of attendance are not eligible to appear for the End Semester Examination (ESE). They shall re-do the semester(s) after completion of the course, with the prior permission of the Registrar of the University.

Examination

The examinations shall be conducted separately for theory and practical's to assess (remembering, understanding, applying, analysing, evaluating, and creating) the Remember required during the study. There shall be two systems of examinations viz., internal and external examinations. The internal examinations shall be conducted as Continuous Internal Assessment tests I and II (CIA TestI& II).

Internal Assessment

The internal assessment shall comprise a maximum of 25 marks for each subject. Thefollowing procedure shall be followed for awarding internal marks.

Theory -25 marks

Sr.No	Content	Marks
1	Average marks of two CIA test	15
2	Seminar/group discussion/quiz	5
3	Assignment/field trip report/case study report	5
	Total	25

Internship- 25 Marks (assess by Guide/incharge/HOD/Supervisor)

1	Presentations	15 Marks
2	Progress report	10 Marks
	Total	25 Marks

Project/Dissertation -50 Marks (assess by Guide /incharge /HOD/ Supervisor)

1	Two presentations (mid-term)	30 Marks
2	Progress report	20 Marks
	Total	50 Marks

External Examination

- There shall be examinations at the end of each semester, for odd semesters in the month of October/November; for even semesters in April/ May.
- A candidate who does not pass the examination in any course(s) may be permitted to appear in such failed course(s) in the subsequent examinations to be held in October /November or April / May.

However, candidates who have arrears in Practical shall be permitted to take their arrear Practical examination only along with Regular Practical examination in the respective semester.

- A candidate should get registered for the first semester examination. If registration isnot possible owing to shortage of attendance beyond condonation limit / regulation prescribed OR belated joining OR on medical grounds, the candidates are permitted to move to the next semester. Such candidates shall re-do the missed semester after completion of the programme.
- For the Project Report/Dissertation Work / internship the maximum marks willbe100 marks for project report evaluation and for the Viva-Voce it is 50 marks (if in some programmes, if the project is equivalent to more than one course, the project marks would be in proportion to the number of equivalent courses).
- Viva-Voce: Each candidate shall be required to appear for Viva-Voce Examination (in defense of the Dissertation Work /Project/internship).

Scheme of External Examination (Question Paper Pattern)

Theory / Written Practical – Maximum 75 Marks

Section A	10 questions. All questions carry equal marks. (Objective type questions)	10 x 1 = 10 Marks	10 questions – 2 each from every unit
Section B	5 questions Either / or type like 1.a (or) b. All questions carry equal marks	5 x 5 = 25	5 questions – 1 each from every unit
Section C	5 questions Either / or type like 1.a (or) b. All questions carry equal marks	5 x8 = 40	5 questions – 1 each from every unit

Dissertation / Project/ Internship report Scheme of evaluation

Project	Project Report	150 Marks
	Viva-voce	50 Marks

Internship	Internship Report	75 Marks
	Viva-voce	25 Marks

Results

The results of all the examinations will be published through the Department where the student underwent the course as well as through University Website.

Passing minimum

- A candidate shall be declared to have passed in each course if he/she secures not less than 40% marks in the End Semester Examinations and 40% marks in the InternalAssessmentandnotlessthan50%intheaggregate,taking Continuous assessment and End Semester Examinations marks together.
- The candidates not obtained 50% in the Internal Assessment are permitted to improve their Internal Assessment marks in the subsequent semesters (2 chances will be given) by writing the CIA tests and by submitting assignments.

- Candidates, who have secured the pass marks in the End-Semester Examination and in the CIA but failed to secure the aggregate minimum pass mark (E.S.E + C I.A), are permitted to improve their Internal Assessment mark in the following semester and/or in University examinations.
- AcandidateshallbedeclaredtohavepassedintheProject/Dissertation/Internshipif he /she gets not less than 40% in each of the Project / Dissertation / Internship Report and Viva-Voce and not less than 50% in the aggregate of both the marks for Project Report and Viva-Voce.
- A candidate who gets less than 50% in the Project / Dissertation / Internship Report must resubmit the thesis. Such candidates need to take again the Viva-Voce on their submitted Project report.

Grading of the Courses

The following table gives the marks, Grade points, Letter Grades and classifications meant to indicate the overall academic performance of the candidate.

Conversion of Marks to Grade Points and Letter Grade (Performance in Paper / Course)

RANGE OF MARKS	GRADE POINTS	LETTER GRADE	DESCRIPTION
90 - 100	**9.0 – 10.0**	**O**	**Outstanding**
80 - 89	**8.0 – 8.9**	**D+**	**Excellent**
75 - 79	**7.5 – 7.9**	**D**	**Distinction**
70 - 74	**7.0 – 7.4**	**A+**	**Very Good**
60 - 69	**6.0 – 6.9**	**A**	**Good**
50 - 59	**5.0 – 5.9**	**B**	**Average**
00 - 49	**0.0**	**U**	**Re-appear**
ABSENT	**0.0**	**AAA**	**ABSENT**

a) Successful candidates passing the examinations and earning GPA between 9.0 and 10.0 and marks from 90 – 100 shall be declared to have Outstanding (O).
b) Successful candidates passing the examinations and earning GPA between 8.0 and 8.9 and marks from 80 - 89 shall be declared to have Excellent (D+).
c) Successful candidates passing the examinations and earning GPA between 7.5 – 7.9 and marks from 75 - 79 shall be declared to have Distinction (D).
d) Successful candidates passing the examinations and earning GPA between 7.0 – 7.4 and marks from 70 - 74 shall be declared to have Very Good (A+).
e) Successful candidates passing the examinations and earning GPA between 6.0 – 6.9 and marks from 60 - 69 shall be declared to have Good (A).
f) Successful candidates passing the examinations and earning GPA between 5.0 – 5.9 and marks from 50 - 59 shall be declared to have Average (B).
g) Candidates earning GPA between 0.0 and marks from 00 - 49 shall be declared to have Re-appear (U).
h) Absence from an examination shall not be taken as an attempt.

From the second semester onwards the total performance within a semester and continuous performance starting from the first semester are indicated respectively **by Grade Point Average (GPA) and Cumulative**

Grade Point Average (CGPA). These two are calculated by the following formulate
GRADE POINT AVERAGE (GPA) = $\Sigma_i C_i G_i / \Sigma_i C_i$

GPA = Sum of the multiplication of Grade Points by the credits of the courses
Sum of the credits of the courses in a Semester

Classification of the final result

CGPA	Grade	Classification of Final Result
9.5 – 10.0	**O+**	FirstClass – Exemplary*
9.0 and above but below 9.5	**O**	
8.5 and above but below 9.0	**D++**	First Class with Distinction*
8.0 and above but below 8.5	**D+**	
7.5 and above but below 8.0	**D**	
7.0 and above but below 7.5	**A++**	First Class
6.5 and above but below 7.0	**A+**	
6.0 and above but below 6.5	**A**	
5.5 and above but below 6.0	**B+**	Second Class
5.0 and above but below 5.5	**B**	
0.0 and above but below 5.0	**U**	Re-appear

The final result of the candidate shall be based only on the CGPA earned by the candidate.

a) Successful candidates passing the examinations and earning CGPA between 9.5 and 10.0 shall be given Letter Grade (O+), those who earned CGPA between 9.0 and 9.4 shall be given Letter Grade (O) and declared to have First Class –Exemplary*.
b) Successful candidates passing the examinations and earning CGPA between 7.5 and 7.9 shall be given Letter Grade (D), those who earned CGPA between 8.0 and 8.4 shall be given Letter Grade (D+), those who earned CGPA between 8.5 and 8.9 shall be given Letter Grade (D++) and declared to have First Class with Distinction*.
c) Successful candidates passing the examinations and earning CGPA between 6.0 and 6.4 shall be given Letter Grade (A), those who earned CGPA between 6.5 and 6.9 shall be given Letter Grade (A+), and those who earned CGPA between 7.0 and 7.4 shall be given Letter Grade (A++) and declared to have First Class
d) Successful candidates passing the examinations and earning CGPA between 5.0 and 5.4 shall be given Letter Grade (B), those who earned CGPA between 5.5 and 5.9 shall be given Letter Grade (B+) and declared to have passed in Second Class.
i) Candidates those who earned CGPA between 0.0 and 4.9 shall be given Letter Grade (U) and declared to have Re-appear.
e) Absence from an examination shall not be taken as an attempt.

CUMULATIVE GRADE POINT AVERAGE (CGPA) = $\Sigma_n \Sigma_i C_{ni} G_{ni} / \Sigma_n \Sigma_i C_{ni}$

CGPA = Sum of the multiplication of Grade Points by the credits of the entire Programme
Sum of the credits of the courses for the entire Programme

Where '**Ci**' is the Credit earned for Course i in any semester; '**Gi**' is the Grade Point obtained by the student for Course i and 'n' refers to the semester in which such courses were credited.

CGPA (Cumulative Grade Point Average) = Average Grade Point of all the Courses passed starting from the first semester to the current semester.

Note: * The candidates who have passed in the first appearance and within the prescribed Semesters of the PG Programme are alone eligible for this classification.

Maximum duration of the completion of the programme

The maximum period for completion of **M.Lib.I.Sc. (Master of Library and Information Science)** shall not exceed eight semesters continuing from the first semester.

Conferment of the Master's Degree

A candidate shall be eligible for the conferment of the Degree only after he/ she has earned the minimum required credits for the Programme prescribed the refer (i.e.,90 credits)Programme).

Village Extension Programme

The Sivagangai and Ramanathapuram districts are very backward districts where a majority of people Lives in poverty.Theruralmassiseconomicallyandeducationallybackward.Thus,theaimofthe introduction of thisVillageExtensionProgrammeistoextendouttoreachenvironmentalawareness,socialactivities,hygiene,andhealthtotheruralpeopleofthisregion.Thestudentsintheirthirdsemesterhavetovisitanyoneoftheadoptedvillageswithinthejurisdictionof AlagappaUniversityandcanarrangevariousprogramstoeducatetheruralmassinthefollowingareasforthreedaysbasedonthetheme.

1. Environmental awareness
2. Hygiene and Health.

A minimum of two faculty members can accompany the students and guide them.

Equivalence of M.Lib.I.Sc to one year B.Lib.I.Sc + one year M.Lib.I.Sc.

Most of the universities and other academic institutions in the country have migrated from one year BLIS and MLIS degrees to 2-Year integrated MLIS degree programme. But the recruitment rules (RR) for librarians in some government organizations like School Libraries, KVS, etc, have not been changed. The minimum qualifications required for these posts in these organizations are one year BLIS or one year MLIS which is not applicable to 2-year integrated MLIS degree holders. However, the courses taught in first year M.Lib.I.Sc. are equivalent to one year B.Lib.I.Sc degree offered in any recognized university/college/institution in the country. And the courses taught in second year M.Lib.I.Sc. are equivalent to one year M.Lib.I.Sc. Degree offered in any recognized university/college/institution. Therefore, "*the committee recommends considering our M.Lib.I.Sc. degree as an equivalent to* B.Lib.I.Sc*(one year)* + M.Lib.I.Sc. *(one year).*

The candidates who have successfully completed the First and Second Semester examinations of M.Lib.I.Sc. (CBCS) and are unable to continue the second-year studies be awarded the one-year B.Lib.I.Sc. degree.

M.Lib.I.Sc. PROGRAMME STRUCTURE

S. No.	Course Code	Course/ Title		T/P	Credit	Hours/ Week	Marks		
							CIA	ESE	Total
Semester I									
1	932101	**Core 1**	Library, Communication and Society	T	4	4	25	75	100
2	932102	**Core 2**	Information Sources	T	4	4	25	75	100
3	932103	**Core 3**	Knowledge Organization: Classification and Cataloguing	T	4	4	25	75	100
4	932104	**Core 4**	Knowledge Organization: Classification Practice (DDC and CC)	P	4	6	25	75	100
5	932105	**Core 5**	Information and Communication Technology for Information Management	T	4	4	25	75	100
6	932501	**DSE - 1**	i. Academic Library System	T	4	4	25	75	100
7	932502		ii. Public Library System						
			Library / Yoga / Counselling / Field Visit			4			
Total					**24**	**30**	**150**	**450**	**600**
Semester II									
8	932201	**Core 6**	Management of Libraries and Information Centres	T	4	4	25	75	100
9	932202	**Core 7**	Information Systems and Services	T	4	4	25	75	100
10	932203	**Core 8**	Knowledge Organization: Cataloguing and Metadata (Practice)	P	4	6	25	75	100
11	932204	**Core 9**	Information and Communication Technology (Practice)	P	4	8	25	75	100
12	932503	**DSE - 2**	i. Marketing of Information Products and Services	T	4	4	25	75	100
13	932504		ii. Preservation and Conservation of Library Material						
			Non-Major Elective – I	T	2	3	25	75	100
14			Self-Learning Course (SLC-1) - SWAYAM		Extra Credit				
15			Library / Yoga / Counselling / Field Visit			1			
Total					**22**	**30**	**150**	**450**	**600**
Semester III									
16	932301	**Core 10**	Research Methodology	T	4	4	25	75	100
17	932302	**Core 11**	Information Retrieval Systems	T	4	4	25	75	100
18	932303	**Core 12**	Library Automation	T	4	4	25	75	100
19	932304	**Core 13**	Library Automation (Practice)	P	4	8	25	75	100
20	932505	**DSE – 3**	i. Informetrics	T	4	4	25	75	100
21	932506		ii. Media & Information Literacy						
			Non-Major Elective–II	T	2	3	25	75	100
22			Self-Learning Course (SLC-2) – SWAYAM		Extra Credit				
			Library / Yoga / Counselling / Field Visit			3			
Total					**22**	**30**	**150**	**450**	**600**

Semester IV									
22	932401	**Core 14**	Knowledge Management	T	4	4	25	75	100
23	932402	**Core 15**	Digital Library and Web Technology	T	4	4	25	75	100
24	932403	**Core 16**	Digital Library and Web Technology (Practice)	P	4	8	25	75	100
25	932404	**Core 17**	Library Internship		2	2	25	75	100
26	932999	**Core 18**	Project Work		8	12	(Dissertation 150 + Viva-voce 50)		200
Total					**22**	**30**	**150**	**450**	**600**
	Grand Total				90+ Extra Credits		**600**	**1800**	**2400**
	For the students of other Departments Non Major Elective -1: Open Knowledge System — Credit 2 Non Major Elective-2: Electronic Information Sources and Services — Credit 2								

T- Theory
P- Practical

I-Semester					
Core :1	**Course Code 932101**	**Library, Communication and Society**	**T**	**Credits :4**	**Hours: 4**
Unit-I					
Objectives 1	To acquaint the students with the role of information in society; differentiate between data, information and Knowledge				
Information: Nature, Property and Scope – Data, Information and Knowledge – Types of Libraries – Public, Academic, Special, (including digital/electronic/virtual libraries), Community and their functions – Role of libraries in the development of a society – Information Theory – Information Science as a discipline – Five Laws of Library Science and their implications.					
Outcome 1	**Comprehend the concepts of data, Information, Knowledge**				**K-2**
Unit-II					
Objective 2	**To understand the process of information generation and various theories and models**				
Information Generation and Communication – Information, Communication Process, Media and Diffusion – Communication Theories and Models, Channels and Barriers – Digital Information – social media					
Outcome 2	**Understand the role of information in society and communication channels.**				**K-2**
Unit-III					
Objective 3	**To know about the prominence of library legislation in India**				
Library Policies, Movement and Legislation – Library movement in India - Library Legislation - Factors, Principles, Statutory Provisions for various types of libraries, Information Policy, Copyright Act 1957, Delivery of Books and Newspapers Act 1956, Press and Registration Act, Intellectual Property Rights, Right to Information Act 2005.					
Outcome 3	Elaborate the concepts of Information Society and library movement in India				K-6
Unit-IV					
Objective 4	**To understand the role and activities of library Professional Bodies**				
Information Profession and Professional Bodies – Librarianship as a profession: Professional ethics – Professional Associations and their roles: ILA, IASLIC, IATLIS, CILIP, ALA, IFLA, and UNESCO.					
Outcome 4	**To find the knowledge of library professional bodies**				**K-1**
Unit-V					
Objective 5	To comprehend the National Information Policy and changing dimensions of knowledge society				
Information and Knowledge Society – National Information Policy – Information Infrastructure: National and Global – Information Society – Knowledge Society – Knowledge Profession – Information Economy – WSIS.					
Outcome 5	**Understand various types of Information Policy**				**K-2**

Suggested Readings

Aggarwal, S. (Ed.). (2016). Social Media in Libraries. EssEss Publication.

Dodiya, N., &Malviya, N. (2015). 10 pillars of library and information science: Pillar 7: Management (objective questions for ugc-net, slet, M.Phil./Ph.D. entrance, kvs, nvs and other competitive examinations). EssEss Publication.

K., S. P. S. (1992). Libraries and Society. EssEss Publications.

Khanna (J K). Library and society. 1955. Research Publication, Kurukshetra.

Kumar, K. (1997). Library organization. Vikas Publishing house.

Martin, W. J. (1988). The information society. Information Today Incorporated.

Ram, M. (2016). Library and Society. Random Publications.

Ranganathan, S. (2008). Library manual for school, colleges and public libraries. EssEss Publications.

Sukula, S. (2014). Introduction to library & information science: In accordance with C.b.s.e. syllabus for class XI. EssEss Publications.
Verma, K. (2005). Library Information and society. Vista International Pub. House

Online Resources

https://www.diva-portal.org/smash/get/diva2:870249/FULLTEXT01.pdf
https://egyankosh.ac.in/handle/123456789/4777
https://notionpress.com/read/information-communication-and-society
https://www.jatinderjyoti.in/blis/notes/221.pdf
https://www.sciencedirect.com/book/9781843341314/libraries-and-society
https://nios.ac.in/media/documents/SrSecLibrary/LCh-001.pdf

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L(1)
CO2	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L(1)
CO3	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M(2)	S (3)	S (3)
CO4	S (3)	M (2)	M (2)	L (1)	M (2)	L (1)	L (1)	L(1)	L(1)	M(2)
CO5	M (2)	L(1)	M (2)	M (2)	L (1)	M 2	S (3)	S (3)	M (2)	L(1)
W.AV	**2**	**1.6**	**1.8**	**1.8**	**1.4**	**2**	**2.2**	**2.4**	**2**	**1.6**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	M (2)	S (3)	S (3)	M (2)	M (2)
CO3	S (3)	L (1)	S (3)	S (3)	S (3)
CO4	M (2)	S (3)	M (2)	M (2)	M (2)
CO5	M (2)	S (3)	S (3)	M (2)	M (2)
W.AV	**2.2**	**2.6**	**2.8**	**2.2**	**2.2**

S- Strong (3), M-Medium (2), L-Low (1)

I-Semester					
Core :2	**Course Code 932102**	**Information Sources**	**T**	**Credits :4**	**Hours: 4**

Unit-I

Objectives 1	**Demonstrate the knowledge of the major information sources and reference tools which facilitate access to information**	
Introduction to Information Sources: Meaning, Definition, Scope - Documentary and non-documentary sources – characteristics, scope and value; non-print and electronic sources; categories of information sources – primary, secondary and tertiary. Primary Sources–Periodicals, Technical reports, Patents, Standards and Specifications, Theses and Dissertations, Conference proceedings, Trade literature, Grey Literature. Both in print and electronic versions - Evaluation Criteria.		
Outcome 1	**Understand the different types of information sources;**	**K2**

Unit-II

Objective 2	**To develop skills for handling information sources**	
Information Sources: Secondary Sources – Dictionaries, Encyclopedias, Yearbooks and Almanacs, Biographical sources, Bibliographies, Geographical sources, Current sources, Statistical information sources, Handbooks and Manuals, indexing and abstracting sources, news summaries both in print and electronic versions. Tertiary Sources – Directories, Guides to reference sources, bibliography of bibliographies, monographs, list of serials, union catalogues, travel guides, textbooks both in print and electronic versions - Evaluation Criteria.		
Outcome 2	**Utilize automated techniques and technologies to locate scholarly sources;**	**K4**

Unit-III

Objective 3	**To provide practical exposure to different information sources.**	
Non-Documentary Sources: Human and institutional sources of information, government ministries and departments, R&D organizations, learned societies, publishing houses, archives, data banks, information analysis centers, referral centers, and institutional websites – Evaluation Criteria.		
Outcome 3	**Increase ability to critically examine information sources**	**K4**

Unit-IV

Objective 4	**To use the major information sources to answer day-to-day user enquiries**	
Electronic Information Sources: Internet Information Resources –E- Books, E- Journals, Open Access Resources, Open Educational Resources. Listserv, Subject Gateways, DOAB, DOAJ, DOAR, DOER, ROAR etc. - Evaluation Criteria.		
Outcome 4	**Use the electronic sources of information**	**K1**

Unit-V

Objective 5	**To provide knowledge about various electronic databases.**	
Electronic Databases (Full text, Bibliographic and Citation): ACM Digital Library, IEEE/IEE Electronic Library Online (IEL), Emerald, EBSCO, PsycINFO, Elsevier - Science Direct, PubMed Central, J-Gate, JSTOR, Web of Science, Scopus, ICI, Dimensions, Google Scholar, Lens etc., SciFinder Scholar, and RePEc- Evaluation Criteria.		
Outcome 5	**Evaluate and select databases and develop reference services required for libraries**	**K5**

Suggested Readings

Chauhan, K., &Mahapatra, R. K. (2013). Open Access E-Resources in Library and Information Science (First ed.). EssEss Publications.

Choudhury, G. G. (2001). Information Sources and Searching on the World Wide Web. London: Facet Publishing.

Choudhury, G. G. (2001). Searching CD-ROM and Online Information Sources. London: Facet Publishing.

Dhiman, A. K., & Rani, Y. (2005). Learn Information and Reference Sources and Services: Learning Library Science Series. EssEss Publications.
Ghenney, F. N. (1980). Fundamentals of Reference Sources. New York: McGraw Hill.
Higgens, C. (Ed.). (1980). Printed Reference Materials. London: Library Association.
Kumar, P. S. G. (2004). Information Sources and Services. Van Haren Publishing.
McIntosh, J. (2011). Library and Information Science: Parameters and Perspectives (1st ed., Vol. 304). Apple Academic Press.
Mohapatra, M. et al. (1997). Access to Electronic Information. Bhubaneshwar: SIS Chapter.
Rastogi, K. G. (2006). Reference Services in Library Science. Alfa Publications.

Online Resources

https://ufh.za.libguides.com/c.php?g=91523&p=590868
https://www.lisedunetwork.com/sources-of-information/
https://libraryguides.uwsp.edu/InformationSourcesInTheSciences
https://subjectguides.sunyempire.edu/researchskillstutorial/sourcetypes
https://mgcub.ac.in/pdf/material/2020041602040949a4e33e9c.pdf

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)	S (3)	S (3)	L (1)	S (3)
CO2	L (1)	M (2)	S (3)	M (2)	M (2)	M (2)	M (2)	L (1)	M (2)	M (2)
CO3	L (1)	M (2)	S (3)	M (2)	M (2)	M (2)	M (2)	L (1)	M (2)	M (2)
CO4	S (3)	L (1)	M (2)	L (1)	L (1)	S (3)	L (1)	M (2)	S (3)	S (3)
CO5	L (1)	S (3)	M (2)	S (3)	M (2)	M (2)	M (2)	M (2)	M (2)	S (3)
W.AV	**1.6**	**1.8**	**2.2**	**1.8**	**1.6**	**2.2**	**2**	**1.8**	**2**	**2.6**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

Cos	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	S (3)	L (1)	L (1)	L (1)	L (1)
CO3	S (3)	L (1)	L (1)	L (1)	L (1)
CO4	M (2)	S (3)	M (2)	M (2)	M (2)
CO5	M (2)	M (2)	L (1)	L (1)	M (2)
W.AV	**2.4**	**2**	**1.6**	**1.4**	**1.6**

S- Strong (3), M-Medium (2), L-Low (1)

I-Semester					
Core : 3	**Course Code** 932103	**Knowledge Organization: Classification and Cataloguing**	**T**	**Credits :4**	**Hours: 4**

Unit-I		
Objectives 1	**To introduce the structure of universe of knowledge**	
Library Classification – Meaning, need, purpose, functions – Notation: Need & Importance; types; qualities of a good notation, Mnemonics. Universe of knowledge – Structure and attribute – Modes of formation of subjects – Different types of subjects		
Outcome 1	Understand the structure of universe of knowledge	K2
Unit-II		
Objective 2	**To discuss the principles and philosophy of library classification**	
Principles of Classification – idea, verbal & notational planes; Facet analysis. Characteristics of Library classification schemes CC, UDC, LC & DDC		
Outcome 2	Comprehend the classification schemes and their salient features with modern techniques of knowledge organization	K2
Unit-III		
Objective 3	**To explain the types and needs for various types of library catalogues**	
Cataloguing- Purpose, structure, types including OPAC, Web OPACs, Normative principles, Canons, Laws and principles, Centralized Cataloguing, Co-operative Cataloguing, Cataloguing at Source, CIP and Union Catalogues; Standard codes of Cataloguing – ISBDs, AACR, RDA and RDF.		
Outcome 3	Appreciate the principles and practices of document description including electronic documents;	K1
Unit-IV		
Objective 4	**To build an understanding of analysis of subject content organizing documents and ideas.**	
Bibliographic Formats &Standards: ISO-2709, MARC-21, UNIMARC, CCF, Z39.50. Metadata: Meaning, Definition, Purpose, Use and types, Metadata standards- MARC-21 & Dublin Core. TEI (Text Encoding initiative), METS, EAD, VRA Core etc. – Markup languages; DOI		
Outcome 4	**Find with the analysis of subject content organizing documents and Bibliographic Formats &Standards.**	K1
Unit-V		
Objective 5	**To get acquire the knowledge on emerging trends with various tools for ontology**	
Emerging Trends: Automatic Classification – Web Dewey, Web Indexing, Ontology, Copy Cataloguing, IFLA and LC initiatives – FRBR, FRAD, FRSAD, BIBFRAME 2.0		
Outcome 5	**Construct classification numbers for documents and indexing cataloguing with web**	K6

Suggested Readings

Dhiman, Anil K (2005). Learn Library Classification. New Delhi: EssEss.

Gandhi, TMK (1995). Cataloguing. Anmol Publication.

Jones, Ed (2014). RDA & Serials Cataloguing DBS. Imprint.

Lal, C (2003). Practical Cataloguing. New Delhi: EssEss.

Prashant, K (2006). Library Classification. Anmol Publication.

Ranganathan, SR (2006). Prolegomena to library classification. New Delhi: EssEss publication.

Sehgal, R (1993). Catalogue Manual AARC-II. New Delhi: EssEss.

Sehgal, R (1996). Cataloguing Practices- CCC. New Delhi: EssEss.

Sharma, C K (2007). Library Classification. Atlantic Publication.

VidyaSagar, P (2005). Library Classification. Sonali Publication

Online Resources

https://www.msuniv.ac.in/Download/Pdf/0b7e8ecb3328462
https://lisstudymaterials.files.wordpress.com/2017/12/dlis103_library_classificatnion-_and_cataloguing_theory.pdf
https://www.encyclopedia.com/media/encyclopedias-almanacs-transcripts-and-maps/cataloging-and-knowledge-organization
https://www.clir.org/pubs/reports/pub91/1knowledge/
http://dspace.lpu.in:8080/jspui/handle/123456789/562

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO3	M (2)	M (2)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO4	M (2)	M (2)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO5	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
W.AV	1.8	1.8	1.8	1.6	1.6	1.8	1.8	2	1.8	1.8

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	M (2)	S (3)	S (3)	M (2)	M (2)
CO3	M (2)	S (3)	M (2)	M (2)	M (2)
CO4	M (2)	S (3)	M (2)	M (2)	M (2)
CO5	S (3)	L (1)	S (3)	S (3)	S (3)
W.AV	**2.2**	**2.6**	**2.6**	**2.2**	**2.2**

S- Strong (3), M-Medium (2), L-Low (1)

<table>
<tr><th colspan="6">I-Semester</th></tr>
<tr><td>Core : 4</td><td>Course Code 932104</td><td>Knowledge Organization: Classification Practice (DDC and CC)</td><td>P</td><td>Credits :4</td><td>Hours: 6</td></tr>
<tr><td>Objectives</td><td colspan="5">➢ Be familiarized with the DDC 23rd Edition;
➢ Acquire skills required for classifying various types of documents;
➢ Be familiarized with the CC 6th Rev. Edition;
➢ To introduce the structure of universe of knowledge; and
➢ To understand the principles and practices of document description including. electronic documents.</td></tr>
<tr><td>Unit - 1</td><td colspan="5">Classification of Documents using Dewey Decimal Classification (23rd Edition)</td></tr>
<tr><td>Unit - II</td><td colspan="5">Classification of Documents using Colon Classification (6th Rev. Edition)</td></tr>
<tr><td>Outcomes</td><td colspan="5">➢ Understand the classification systems;
➢ Comprehend the salient features of the classification schemes;
➢ Understand the structure and layout of the classification systems.
➢ Construct class numbers for documents with simple, compound and complex subjects
Synthesize class numbers by using the standard subdivisions/common isolates/ auxiliary tables</td></tr>
<tr><td colspan="6">Suggested Readings
Comaromi, J. P., Warren, M. J. & Dewey, Melvil. (1982). Manual on the Use of the Dewey decimal classification. Forest Press.
Dewey Decimal Classification. (2011). 23rd edition. Ohio: OCLC.
Dhyani, Pushpa. (2006). Classifying with Dewey decimal classification. New Delhi: EssEss.
Kaushik, S. K. (2012). Dewey decimal classification: A practical manual of 23rd edition. New Delhi, India: EssEss Publications.
Khan, M. T. M. (2005). Dewey decimal classification. New Delhi: Shree Publishers
Ranganathan, S. R., &SaradaRanganathan Endowment for Library Science. (2006). Colon classification: Basic classification. New Delhi: Published by EssEss Publications for SaradaRanganathan Endowment for Library Science.
Satija, M. P. (2015). Dewey decimal classification: Editions 19 (1979) to edition 23 (2011).
Satija, M. P. (2018). Colon classification: A student companion.
Sehgal, R. L. (1994). An introduction to Dewey decimal classification. New Delhi: EssEssPublications.
Sewa, S. (1996). Colon classification practice. New Delhi: EssEss Pub.</td></tr>
<tr><td colspan="6">Online Resources
https://nou.edu.ng/coursewarecontent/LIS%20201.pdf
https://www.oclc.org/content/dam/oclc/dewey/versions/print/intro.pdf
https://www.gutenberg.org/ebooks/12513</td></tr>
<tr><td colspan="6">K1- Remember, K2-Understand, K3-Apply K4-Analyze, K5-Evaluate, K6- Create</td></tr>
</table>

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO3	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO4	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO5	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
W.AV	**2**	**1.6**	**1.8**	**2.2**	**1.6**	**2.4**	**2.6**	**2.6**	**2.2**	**1.6**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	M (2)	S (3)	S (3)	M (2)	M (2)
CO3	M (2)	S (3)	S (3)	M (2)	M (2)
CO4	S (3)	M (2)	M (2)	S (3)	S (3)
CO5	S (3)	L (1)	S (3)	S (3)	S (3)
W.AV	**2.4**	**2.4**	**2.8**	**2.4**	**2.4**

S- Strong (3), M-Medium (2), L-Low (1)

I-Semester					
Core : 5	**Course Code** 932105	**Information and Communication Technology for Information Management**	**T**	**Credits :4**	**Hours: 4**

Unit-I

Objectives 1	**To familiarize students with Library operation and their evaluation**	
Meaning of Information Technology: Components, scope and objectives - Computer technology: Evolution and generation of Computers - Basic components of Computer: CPU, Input-Output devices, computer ports - Classification of computers: Laptop, desktop/micro, mini, mainframe and Supercomputer.		
Outcome 1	**Understand the concept of ICT and its application in libraries.**	**K2**

Unit-II

Objective 2	**To get acquainted with the components of Information Technology**	
Hardware and Software Components: Storage Devices - Peripheral devices and their functions and operations – mouse, printers, scanners - Software: Meaning, need, functions and types, Algorithm, Flow Chart - Systems software: Operating systems: DOS, WINDOWS, and LINUX - their basic features.		
Outcome 2	**Understand communication tools and techniques.**	**K2**

Unit-III

Objective 3	**To acquire skills required for handling different systems software**	
Application Software - Application Software: Concept and Types; Concept of Computer Programming - Packages: Definition and functions; Word Processing, Spread Sheet, Power point - Desktop Publishing - Library Management Software Packages.		
Outcome 3	**Know how application software works for office management**	**K1**

Unit-IV

Objective 4	**To introduce communication tools and computer networking**	
Telecommunication and Networking: Communication Technology – Fundamentals and applications - Computer Networking: Concept and Types, Network Topologies, Network Devices - Communication Media - Data Transmission Techniques, Transmission Modes, Concepts of bandwidth and multiplexing; - Concepts of OSI Reference and TCP/IP Model.		
Outcome 4	**Understand the structure of computer networking and functions of its various networks**	**K2**

Unit-V

Objective 5	**To develop an understanding of the file organizations and database management systems**	
Database Management System: Concept of Data Base and Data Base Management Systems and its Types - Standard DBMS Packages - Data Models and Architecture: Hierarchical and Relational - Concepts of Data Definition Language, Data Manipulation Language - Concepts of Entities - Attributes and Relations - Entity Relationship Model; E – R Diagram - Structured Query Language (SQL).		
Outcome 5	**Discuss of Internet, search engines and database management system**	**K6**

Suggested Readings

Arora, Ashok &Bansal, Shefali. (2000). Computer Fundamentals. New Delhi: Excel Books.

Basandra, Suresh K. (1999). Computer Today. New Delhi:Galgotia Publications.

Devarajan, G., &Asari, K. R. (2014). Information technology and library automation. New Delhi: EssEss Publ.

Hussain, A. (2013). ICT based library and information services.

Kumar, P. S. G. (2003). Information technology: Basics; (paper IV of UGC model curriculum). Delhi: B.R. Publ. Corp.

Kumar, P. S. G. (2004). Information technology: Applications; (theory & practice); (paper XIII & XIV of UGC model curriculum). Delhi: B.R. Publ. Corp.
Raman, N. R. (1992). Computer application to library and information services. New Delhi: EssEss Publications
Sehgal, R. L. (1998). Information technology for librarians. New Delhi: EssEss Publications.
Singh, M. P. (2004). Use of information technology in library and information science. Delhi: AbhijeetPublications.
Sybex. (2007). Linux Complete. BPB Publications, 2007: New Delhi..

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO3	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO4	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO5	L (1)	S (3)	S (3)	M (2)	S (3)	S (3)	L (1)	M (2)	S (3)	S (3)
W.AV	**1.8**	**1.4**	**2.2**	**1.8**	**1.6**	**2**	**2.2**	**2.4**	**2**	**1.6**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	M (2)	S (3)	S (3)	M (2)	M (2)
CO3	M (2)	S (3)	M (2)	M (2)	M (2)
CO4	M (2)	S (3)	S (3)	M (2)	M (2)
CO5	S (3)	L (1)	S (3)	S (3)	S (3)
W.AV	**2.2**	**2.6**	**2.8**	**2.2**	**2.2**

S- Strong (3), M-Medium (2), L-Low (1)

I-Semester					
DSE-1	**Course Code** 932501	**Academic Library System**	**T**	**Credits :4**	**Hours: 4**

Unit-I

Objectives 1	**To understand the structure and development of the higher education in India**	
Role of Academic Libraries: Concept, Need, Purpose, Functions, and Present set up of different types of Academic Libraries in India - Role of academic libraries in online, blended and lifelong learning - Role of statutory bodies/Institutions like UGC, AICTE, MCI - Growth and development of Academic Libraries of higher education in India; Committees and Commissions Reports - Accreditation and Ranking Agencies: Accreditation: NBA, NAAC; Ranking: NIRF, QS World University Ranking.		
Outcome 1	**Recognize the principles and role of academic libraries**	K1

Unit-II

Objective 2	**To understand academic librarianship, its types, collection, HR and finance**	
Effective Resources Management: Manpower Development - Library Finance: Sources Type of Budgets, Methods of financial estimation and budget preparation; resources mobilization - Collection Development: Print and Non-Print including Electronic Documents, using and supporting Development of OERs and MOOCs - Library Buildings: Planning and Standards - Risk and disaster management guidelines, Green Library Building.		
Outcome 2	**Comprehend the structure and development of the green library building and resources management in India.**	**K2**

Unit-III

Objective 3	**To prepare specialised professional manpower for academic libraries**	
Library Organization and Management: Library authority and leadership role - Centralized v/s Decentralized System: Departmental Libraries; - Organization of Various Sections: Acquisition, Book section, Periodical, Technical, Reference or Help desk, Circulation and Library Management Section - Library Furniture, Equipment and Stationeries', Branding and Social Media Presence		
Outcome 3	**Assess the functions of library management in Academic Libraries.**	**K5**

Unit-IV

Objective 4	**To provide basic concepts related to academic library systems and services**	
Resource Sharing, Networking, Consortium and Policies: Concept, Need and Purpose of Resource Sharing, Networking and consortium - National Networks and Consortia: INFLIBNET, e-ShodhSindhu, - Institutional Repositories (IR): Concept, Need, National and International Academic IRs/ eTDs/Digital Repositories.		
Outcome 4	**Assess the role of UGC in development of libraries in India.**	**K5**

Unit-V

Objective 5	**To know the application of new ICT in academic library management.**	
Introduction of new digital applications in Academic Libraries: Application of Academic Library 2.0; International academic library scenario - Integration of the Library with the Institutional ERP like Samarth, Learning Management System (LMS), SWAYAM MOOCs, IRINS, etc.		
Outcome 5	**Understand digital applications of Academic Libraries**	**K2**

Suggested Readings

Girja Kumar. (1987). Library Development in India. New Delhi: Vikas.
Hingwe, K S. (1982). Management of University Libraries in India. Culcutta: The World Press
Krishan Kumar. (1987). Library Administration and Management. New Delhi: Vikas
Kumar, P. S. G. (2003). Management in library and information centres: Paper V of the UGC model curriculum. Delhi: B.R. Publishing Corporation.

Pandey, R., &Velayudhan, P. M. N. (2011). Integrated library management. New Delhi: JnanadaPrakashan in association with Confederation of Indian Universities.
Prashar, R G. (1991). Managing University Libraries. New Delhi: Today & Tomorrow
Sahai, S. (2009). Academic library system. New Delhi, India: EssEss Publications.
Satyanarayana, N. R., & Khan, A. M. (2014). A manual of library automation and networking. New Delhi, India: EssEss Publications.
Sharma, C.K. & Singh, K. (2005). Library Management. Atlantic Publishers &Distributors.
Shukla, K. H. (1994). University libraries in India: Some observation and suggestions. Jaipur, India: RBSA Publishers.

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO2	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO3	M (2)	S (3)	M (2)	S (3)	M (2)	M (2)	M (2)	M (2)	M (2)	M (2)
CO4	M (2)	S (3)	M (2)	S (3)	M (2)	M (2)	M (2)	M (2)	M (2)	M (2)
CO5	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
W.AV	**2**	**1.8**	**2**	**2.2**	**1.6**	**1.8**	**2.2**	**2.2**	**1.8**	**1.6**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	M (2)	M (2)	M (2)
CO2	M (2)	S (3)	S (3)	M (2)	M (2)
CO3	M (2)	M (2)	L (1)	L (1)	M (2)
CO4	M (2)	M (2)	L (1)	L (1)	M (2)
CO5	M (2)	S (3)	S (3)	M (2)	M (2)
W.AV	**2**	**2.6**	**2**	**1.6**	**2**

S- Strong (3), M-Medium (2), L-Low (1)

I-Semester					
DSE-2	**Course Code 932502**	**Public Library System**	**T**	**Credits :4**	**Hours: 4**

Unit-I

Objectives 1	**To create an awareness of the role of public libraries in the society**

Introduction to Public libraries: Concept, Definition and Characteristics – Role, objectives and functions of public libraries in contemporary knowledge society; Recommendations of NAPLIS and National Knowledge Commission on Public Libraries.

Outcome 1	Comprehend the role of public libraries in the society	K2

Unit-II

Objective 2	**To give an idea to the student about the development of public libraries in India and Tamil Nadu**

Development of Public libraries in India: Public Library legislations in various states in India – comparative study; Critical study of model Public Library Act suggested by S.R.Ranganathan; Library movement and legislation in Tamil Nadu

Outcome 2	Understand the development of public libraries in India and Tamil Nadu	K2

Unit-III

Objective 3	**To introduce students to different activities of public libraries**

Public library Management: Resource Optimization; Human Resource Management; Financial Management; Library Co-operative Organizations and Network services.

Outcome 3	**Understand the different activities of public libraries**	**K2**

Unit-IV

Objective 4	**To know about functions and services of public libraries**

Organization of public libraries: Standards and norms for public libraries; Physical facilities - library building, furniture and equipment; Collection development – book selection and collection development policies; Technical processing

Outcome 4	**Recognize the importance, principles and role of public libraries in society; and**	**K1**

Unit-V

Objective 5	**To manage public library and its finance**

Public library services and products: Traditional and web-based services; Community information services; Resource sharing and network activities of public libraries. SDG- Concept and implications on public Libraries in India.

Outcome 5	**Identify public library finance and delineate the public library movements**	**K3**

Suggested Readings

Augustine, C. A., &Devarajan, G. (1990). Public library system in India. New Delhi: EssEss Publications.

Ekbote, GopalRao (1987). Public Library system. Hyderabad.

Ranganathan, S. R. (2008). Library Manual, for School, college and Public Libraries (with Revised Examples of subject classification). EssEss Publications.

Viswanathan, C. G. (1990). Public library organization: With special reference to India. New Delhi: EssEss Publications.

Khanna, J K (1987). Library and Society. Kurukshetra: Research Publications.

Kalia, D R. (1990). Guidelines for Public Library Services and Systems. Culcutta: RRRLF

Murison, W J. (1988). The Public Library: Its origin, purpose and significance. London: Clive Bingley.

Patel, Jashu and Kumar, Krishan (2004). Libraries and Librarianship in India. Westport: Greenwood

Ranganathan, S R. (1959). Library Administration. Bangalore: SRELS
Gardner, F M. (1971). Public Library Legislation: A Comparative Study. Paris: UNESCO

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO3	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO4	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO5	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
W.AV	**2.2**	**1.2**	**2**	**2**	**1.6**	**2**	**2.6**	**2.4**	**1.8**	**1.4**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

Cos	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	M (2)	S (3)	S (3)	M (2)	M (2)
CO3	M (2)	S (3)	S (3)	M (2)	M (2)
CO4	M (2)	S (3)	M (2)	M (2)	L (1)
CO5	S (3)	M (2)	M (2)	S (3)	S (3)
W.AV	**2.2**	**2.8**	**2.6**	**2.2**	**2**

S- Strong (3), M-Medium (2), L-Low (1)

II-Semester					
Core :6	**Course code:** 932201	**Management of Libraries and Information Centres**	**T**	**Credits :4**	**Hours: 4**

Unit-I		
Objectives 1	**To introduce meaning, evolution and purpose of principles and functions of management.**	
Principles and Functions of Management: Concept, Definition, Functions and Principles of Management, and Schools of Management Thoughts - Change Management and Total Quality Management – POSDCORB - Marketing as Philosophy approach - Scope and Application of Management Approaches and in L & Centers.		
Outcome 1	**Describe the Principles of Management of Library and Information Centre**	**K1**

Unit-II		
Objective 2	**To provide basics of effective management of libraries and information centres**	
Integrated Library Management System: Acquisition Management: Selection, Acquisition, Vendor's Communication, Billing and Processing - User Services Management: Membership Services, Circulation, Alerts, Document delivery, customized products and services, Remote Access, Discovery Based Services - Access Management: Shelving, Stock Verification, Security issues, Barcode, RFID, Smart cards, - Stock Management: Stock verification, Maintenance and preservation, - Information Management: Library Statistics and Library Analytics, Annual report.		
Outcome 2	**Comprehend the concept of ILMS and perform various tasks involved in ILMS**	**K2**

Unit-III		
Objective 3	**To understand different levels of management and various managerial skills required**	
Human Resource Management: HRM: concept, need and purpose, Planning, Policies & Issues - Staffing: Recruitment methods, Staff training and Development, Staff formula and Manual - Supervision, Motivation and control, Leadership, Interpersonal relations - Job Analysis, Job Description, Job Evaluation & Performance appraisal.		
Outcome 3	Plan for effective resource management and bring strategic focus in the planning process.	K3

Unit-IV		
Objective 4	**To learn the various types of budgets and financial plans**	
Financial Management: Financial responsibility and control, Budget planning and evaluation tools; Budgeting techniques; Cost benefit analysis and Cost effectiveness. Accountability and reporting. Planning strategies: concept – definition – need and steps –Operational planning – Gantt Charts, PERT/CPM, TQM, SWOT analysis.		
Outcome 4	**Comprehend the concept of human resource and financial management**	**K2**

Unit-V		
Objective 5	**To provide basics of effective management of libraries and information centres**	
Management of LIC: Principles of organizational structure, organizational structure of Library and Information Centres. Library Authorities, library statistics, Library Manuals, Library rules and regulations. Managing in the 21st century LIS – today's organizations, skill required for new managers – Disaster Management in Libraries.		
Outcome 5	**Understand the role of library staff in performing in a team leading for improved work culture**	K2

Suggested Readings

Ahmad, H. (2016). Integrated library management systems: An Indian scenario of modern library automation.
Human Resource Management. (2020). S.L.: Pearson Education Limited.
Moran, B. B. (2018). Library and information center management.
Titman, S., Keown, A. J., & Martin, J. D. (2021). Financial management.
Tripathi, P. C., & Reddy, P. N. (2012). *Principles of management*. New Delhi: Tata McGraw-Hill
Mittal (R L). Library administration: theory and practice. 2007. EssEss, New Delhi.
Narayana,G J. (1991). Library and Information management. New Delhi: Prentice Hall of India.
Paton, Robert A. (2000). Change Management. New York: Response Books.
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K1- Remember, K2-Understand, K3-Apply K4-Analyze, K5-Evaluate, K6- Create

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO2	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO3	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO4	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO5	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
W.AV	**2.2**	**1.2**	**2**	**2**	**1.6**	**2**	**2.6**	**2.4**	**1.8**	**1.4**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	M (2)	M (2)	M (2)
CO2	M (2)	S (3)	S (3)	M (2)	M (2)
CO3	S (3)	M (2)	M (2)	S (3)	S (3)
CO4	M (2)	S (3)	S (3)	M (2)	M (2)
CO5	M (2)	S (3)	S (3)	M (2)	M (2)
W.AV	**2.2**	**2.8**	**2.6**	**2.2**	**2.2**

S- Strong (3), M-Medium (2), L-Low (1)

II-Semester					
Core :7	**Course code:** 932202	**Information Systems and Services**	**T**	**Credits :4**	**Hours: 4**

Unit-I

Objectives 1	**To familiarize the students in understanding the concepts of information systems**	
Information systems: Basic concepts, Meaning, Objectives and Functions. Components of Information System: Structure, Functions and Services, Libraries, Documentation Centres, Information centres, Data centres, Information analysis centres, Clearing houses, Data banks, Data Curation centres, Museums, Memories, Institutional Repositories, Open Archives, Referral, Translation Centres, and Publishing Houses, Global & National Information Systems; UNISIST, NISCAIR, NASSDOC, INIS, AGRIS, INSPEC and MEDLARS.		
Outcome 1	**Increase ability to critically examine information systems**	**K1**

Unit-II

Objective 2	**To discuss the development of Library networks and sharing**	
Resource Building and Sharing: Library networks; INFLIBNET, DELNET, OCLC etc. E-Journals Consortium in India- E-ShodhSindhu, CeRA, FORSA, HELINET, NKRC, *IIM Libraries consortium, DAE* Consortium. DRDO Consortium.		
Outcome 2	Compare and analyse the characteristics and components of information systems and Library networks	K4

Unit-III

Objective 3	To discuss different types, role and function of reference services	
Reference Process: Digital reference service, Abstracting and Indexing Services, Information Analysis & Consolidation – Subject Guides and Mapping. Role and functions of Reference Librarian.		
Outcome 3	**Explain the concepts involved in reference service**	**K1**

Unit-IV

Objective 4	**To learn the various types of budgets and financial plans**	
Information Services: Reference and Documentation Services - Current Awareness Services (CAS) - SDI service - Abstracting service - Indexing services – Translation Service – Reprographic Service. Alerting services - Listserv and other email-based services. FAQs –Developing FAQs- methods and techniques. Virtual Reference Desk.		
Outcome 4	**Delineate the information services.**	**K3**

Unit-V

Objective 5	**To identify the information needs of different groups of users.**	
Information Use & User Studies: Understanding the user communities Identification of user communities; Introduction to the user centered approach to Information seeking behavior. User Education - methods and techniques. User studies.		
Outcome 5	**Clarify the identification of user communities and user education**	**K1**

Suggested Readings

Ali, A. (2006). Reference service and the digital sources of information. New Delhi: EssEss Publications.

Dhiman, A. K., & Rani, Y. (2007). Resource sharing and Library & Information Science Networks. New Delhi: EssEss Publications.

Kaushik, P. (2006). Library Information Services and Systems. New Delhi, India: Anmol Publications.

Lal, C., & Kumar, K. (2005). Understanding basics of Library and Information Science (for B. Lib. Sc. Examinations): Library and society (first paper) & Library management (Second paper). New Delhi: EssEss.

Laudon, K. C., &Laudon, J. P. (1994). Management information systems: A contemporary perspective. New York: Macmillan Pub. Co.
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K1- Remember, K2-Understand, K3-Apply K4-Analyze, K5-Evaluate, K6- Create

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO2	M (2)	M (2)	S (3)	M (2)	M (2)	S (3)	M (2)	S (3)	S (3)	M (2)
CO3	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO4	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO5	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
W.AV	**2.2**	**1.4**	**2.2**	**1.6**	**2.2**	**1.8**	**1.6**	**1.6**	**1.6**	**2**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	M (2)	M (2)	M (2)
CO2	S (3)	L (1)	L (1)	L (1)	L (1)
CO3	M (2)	S (3)	M (2)	M (2)	M (2)
CO4	S (3)	M (2)	M (2)	S (3)	S (3)
CO5	M (2)	S (3)	M (2)	M (2)	M (2)
W.AV	**2.4**	**2.4**	**1.8**	**2**	**2**

S- Strong (3), M-Medium (2), L-Low (1)

II-Semester					
Core :8	**Course code:** 932203	**Knowledge Organization: Cataloguing and Metadata (Practice)**	**P**	**Credits: 4**	**Hours: 6**

Objectives	➢ To provide basic knowledge of the organization of knowledge in libraries ➢ To acquaint the students with the cataloguing practical of various types of library resources ➢ Learn cataloguing codes and standards AACR-2R and MARC-21 ➢ Compile catalogues cards (for single, joint, pseudonym, corporate authored and editorial publications) ➢ Assign keywords for tracing added entries (subject, joint author, title, other contributors along with see and see also reference
Unit - 1	Catalog of Single, joint authors and mixed authors.
Unit - II	Cataloging of serials publication, multi volumes and corporate publications.
Unit-III	Cataloging of Pseudonym author, periodicals and electronic resources.
Unit-IV	Metadata: MARC 21 and Dublin Core.
Unit-V	Catalogue: AACR-II and AACR-2R
Outcomes	➢ Use the catalogue codes and standards ➢ Prepare catalogue entries for various types of information sources ➢ Derive subject headings using various methods and tools ➢ Understand the cataloguing and bibliographic description formats; ➢ Make familiar the students on indexing and cataloguing and data entry using AACR-II, MARC- 21

Suggested Readings

Anne Welsh Sue Batley. (2012). Practical Cataloguing: AACR2, RDA and MARC 21. EssEss Distributors.

Khan, M. T. M. (2005). Anglo-American cataloguing rules. New Delhi: Shree Publishers.

Krishan Kumar. (1986). An introduction to cataloguing practice. 3rd Rev. Ed. New Delhi: Vikas Publishing.

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Prasad A. (2012) Digital Cataloguing. New Delhi, Arise Publications.
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Sehgal R.L (1996). Cataloguing Practice (Classified Catalogue Code) CCC. New Delhi, EssEss Publications.

Sehgal, R. L. (1996). Cataloguing practice AACR-II: New Delhi: EssEss Publications.

Sehgal, R. L. (2003). Cataloguing practice: (Classified catalogue code), CCC. New Delhi: EssEss Publications.

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO2	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO3	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO4	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO5	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
W.AV	**2.2**	**1.8**	**1.8**	**2.2**	**2.2**	**2.4**	**2.2**	**2**	**2**	**2**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S (3)	M (2)	M (2)	S (3)	S (3)
CO2	M (2)	S (3)	M (2)	M (2)	M (2)
CO3	S (3)	M (2)	M (2)	S (3)	S (3)
CO4	M (2)	S (3)	S (3)	M (2)	M (2)
CO5	S (3)	L (1)	S (3)	S (3)	S (3)
W.AV	**2.6**	**2.2**	**2.4**	**2.6**	**2.6**

S- Strong (3), M-Medium (2), L-Low (1)

II-Semester					
Core :9	**Course code: 932204**	**Information and Communication Technology (Practice)**	**P**	**Credits :4**	**Hours: 8**

Unit-I		
Objectives 1	To acquire skills required for handling different systems software	
Use of Operating Systems- MS Windows& LINUX / UNIX .Working with windows.		
Outcome 1	**Understand the operating systems and their evaluation**	**K2**
Unit-II		
Objective 2	To get acquainted with the components of Information Technology	
Use of Word processors - MS Word; Use of Spread sheet Software-MS Excel		
Outcome 2	**Create, edit and manage files using word processing, Spread Sheet and PPT**	**K6**
Unit-III		
Objective 3	To introduce communication tools and techniques	
Presentation – Power point; Photo editing – Photoshop		
Outcome 3	**Generate different types of report using library management software**	**K6**
Unit-IV		
Objective 4	To understand the Internet and concerns about data security	
Library Management Solutions and Data Services-Creation of database using any DBMS package		
Outcome 4	**Find bibliographic databases information from Web OPAC, World Cat, Ind Cat**	**K1**
Unit-V		
Objective 5	To familiarize students with Library operation and their evaluation	
CD ROM and Internet searching and retrieval		
Outcome 5	Comprehend the use of library software, CD and Internet Search;	K2

Suggested Readings

Arora, Ashok & Bansal, Shefali. (2000). Computer Fundamentals. New Delhi: Excel Books.
Basandra, Suresh K. (1999). Computer Today. New Delhi:Galgotia Publications.
Devarajan, G., &Asari, K. R. (2014). Information technology and library automation. New Delhi: EssEss Publ. 4. Hussain, A. (2013). ICT based library and information services.
Kumar, P. S. G. (2003). Information technology: Basics; (paper IV of UGC model curriculum). Delhi: B.R. Publ. Corp.
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Raman, N. R. (1992). Computer application to library and information services. New Delhi: EssEss Publications
Sehgal, R. L. (1998). Information technology for librarians. New Delhi: EssEss Publications.
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https://www.javatpoint.com/unix-vs-windows-operating-system
https://rc.byu.edu/documentation/unix-tutorial/unix1.php

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
CO3	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	M (2)
CO4	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO5	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
W.AV	**1.6**	**1.8**	**1.6**	**1.8**	**1.6**	**2.2**	**1.8**	**2.2**	**2.2**	**1.8**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	S (3)	L (1)	S (3)	S (3)	S (3)
CO3	S (3)	L (1)	S (3)	S (3)	S (3)
CO4	M (2)	S (3)	M (2)	M (2)	M (2)
CO5	M (2)	S (3)	S (3)	M (2)	M (2)
W.AV	**2.4**	**2.2**	**2.8**	**2.4**	**2.4**

S- Strong (3), M-Medium (2), L-Low (1)

II-Semester					
DSE-2	**Course code:** 932503	**Marketing of Information Products and Services**	**T**	**Credits :4**	**Hours: 4**

Unit-I		
Objectives 1	To familiarize the nature of information as a product, customers and profiling the information industry	
Information as a Resource - Emergence of Information Society and Knowledge Society and conceptualization of Information as a Resource: as a commodity and Information economics, Economics of Information; Growth of Information Industry and Implications on Library and Information Services and Products.		
Outcome 1	Recognize the role of marketing in Library and Information Centers;	K3
Unit-II		
Objective 2	To introduce the marketing mix in the information marketplace	
Concept of Marketing – Marketing Mix; Kotler's Four C's; McCarthy's Four P's, Corporate Mission.		
Outcome 2	Define the basic vocabulary appropriate to the field of marketing;	K1
Unit-III		
Objective 3	To understand the economic value of information	
Marketing Research –Elements; Market Segmentation and Targeting- Geographic and Demographic Segmentation; Behavioral and Psychographics Segmentation, etc. User's Behavior and Adoption.		
Outcome 3	Understand and build a marketing research.	K2
Unit-IV		
Objective 4	To impart knowledge of different marketing strategies	
Marketing Strategies and Planning – Nature and Models of marketing strategy and planning; Situation audit and analysis; SWOT analysis, 7'S framework, Boston Consulting Group Matrix, Ansoff's Growth Matrix, Product Life Cycle, Performance and Impact Analysis		
Outcome 4	Comprehend the concept of marketing strategies	K2
Unit-V		
Objective 5	To know the knowledge principles of information products	
Trends in Library Marketing – Role and Use of social media in Marketing of Information – Case Specific Strategies.		
Outcome 5	Comprehend the economic value of social media in Marketing	K2

Suggested Readings

Aggarwal, S. (2016). Social media in libraries. New Delhi: EssEss Publications.

Armstrong, G., Kotler, P., Harker, M., and Brennan, R. (2015). Marketing: an introduction.

Dabas. K.C (2008). Quality Management in Libraries, EssEss Publications, New Delhi.

Jain, A. K. (Ed.). (1999). Marketing information products and services: a primer for librarians and information professionals. IDRC.

Jain, M K (1996). Library Manual, Shipra Publications, Delhi.

Kotler, Philip (2003). Marketing Management. 11thed. New Delhi: Pearson.

Kumar, P.S.G. (2003). Management of Library and Information Centres, B.R. Publishing Corporation, New Delhi.

Poliwali, R. S. (2011). Information resources for library and information technology. Delhi: Navyug Books International.

Rowley, Jennifer (2001). Information Marketing. Aldershot: Ashgate Publishing Limited.
Seetharama, S. (2015). Marketing in libraries and information centres.

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https://idl-bnc-idrc.dspacedirect.org/bitstream/handle/10625/30944/IDL-30944.pdf?sequence=1
https://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=13738&context=libphilprac

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO2	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO3	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO4	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO5	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
W.AV	**2.2**	**1.2**	**2**	**2**	**1.6**	**2**	**2.6**	**2.4**	**1.8**	**1.4**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S (3)	M (2)	M (2)	S (3)	S (3)
CO2	M (2)	S (3)	M (2)	M (2)	M (2)
CO3	M (2)	S (3)	S (3)	M (2)	M (2)
CO4	M (2)	S (3)	S (3)	M (2)	M (2)
CO5	M (2)	S (3)	S (3)	M (2)	M (2)
W.AV	**2.2**	**2.8**	**2.6**	**2.2**	**2.2**

S- Strong (3), M-Medium (2), L-Low (1)

II-Semester					
DSE-2	**Course code:** 932504	**Preservation and Conservation of Library Material**	**T**	**Credits :4**	**Hours: 4**

Unit-I		
Objectives 1	To introduce to concept of conservation, preservation and archiving.	
Elements of Preservation and Conservation - Need for Preservation and Conservation; Evolution of Writing Materials – Inscription on caves/Rocks, Clay Tablets, Palm Leaves `Birch' Bark, Parchment paper etc; Manuscripts; Preservation and Conservation Techniques of Print and Non-Print Media.		
Outcome 1	Comprehend the concepts of preservation and conservation	K2
Unit-II		
Objective 2	To able to differentiate between conservation, preservation and archiving concepts	
Hazards to Library Materials and Control Measures – Environmental Factors, Biological Factors, Chemical Factors, Disaster Management.		
Outcome 2	Describe the objectives of preservation and conservation of library materials;	K1
Unit-III		
Objective 3	To elaborate the binding process of different types of library materials;	
Binding – Types of Binding, Binding Materials, Binding Process, Standards for Binding.		
Outcome 3	Identify the strategy, tool and techniques for the conservation, preservation and archiving of the various library materials;	K3
Unit-IV		
Objective 4	To understand the process, activities, tools and techniques or conservation, preservation and archiving	
Restoration and Reformatting – Material Repair, Micrographic conversion- Micro Filming and Microfiche; Digitization of Print Media- Concept, Process, OCR and Complexities.		
Outcome 4	Plan and act on the steps required for conservation and preservation of various library materials.	K3
Unit-V		
Objective 5	To learn about the digitization of digital preservation, digital curation digital archiving	
Emerging Trends – Digital Archiving, Digital Preservation, Digital Curation, Cloud Storage.		
Outcome 5	Better understanding of national and international organisation and their role in conservation, preservation and digital archiving.	K2

Suggested Readings

Adhikari, R. (2002). Library preservation and automation. New Delhi: Rajat Publications.

Balakrishnan, S., &Paliwal, P. K. (2001). Preservation of library collections. New Delhi: Anmol Publications.

Balloffet, N., Hille, J., & Reed, J. A. (2009). Preservation and conservation for libraries and archives. New Delhi: EssEss Publications.

Balloffet, Nelly (2009). Preservation and Conservation for Libraries and Archives. New Delhi: EssEss Publications.

Dasgupta, Kalpana, ed. (1988). Conservation of library materials. Calcutta: National Library

Harvey, Poss. (1993). Preservation in libraries: a reader. London: R RBowker

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Sinha, K. (2009). Digital information preservation and online cataloguing. Delhi: Vista International Pub. House.

Sinha, K. (2009). Information preservation in digital library. Delhi, India: Vista International Pub. House.

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO3	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO4	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO5	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
W.AV	**2.4**	**1.4**	**2**	**2.2**	**2**	**2.2**	**2.6**	**2.2**	**1.8**	**1.6**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	M (2)	S (3)	M (2)	M (2)	M (2)
CO3	S (3)	M (2)	M (2)	S (3)	S (3)
CO4	S (3)	M (2)	M (2)	S (3)	S (3)
CO5	M (2)	S (3)	S (3)	M (2)	M (2)
W.AV	**2.4**	**2.6**	**2.4**	**2.4**	**2.4**

S- Strong (3), M-Medium (2), L-Low (1)

III-Semester					
Core : 10	**Course code:** 932301	**Research Methodology**	**T**	**Credits :4**	**Hours: 4**

Unit-I		
Objectives 1	To generate awareness about basic research along with its research problem and literature review	
Basics of Research: Concept, Definition, Objectives, Types and Significance; Research Problem – Identification, Selection and Formulation; Literature Review – Sources, Process, and Limitations; Ranganathan's Spiral of scientific method.		
Outcome 1	Understand the basics of research, research problem and conduct a comprehensive literature review	K2
Unit-II		
Objective 2	To provide the students basic knowledge of the research design	
Research Design: Definition, Need, Types and Components; Hypothesis – Definition, Formulation, Types and Testing; Sampling – Concept, Need and Types of Sampling Techniques, Derivation of Sample, Sample Bias and Error; Preparation of a Research Proposal – Components and Steps.		
Outcome 2	Develop research proposal, research design and formulation of hypothesis	K3
Unit-III		
Objective 3	To help them understand data analysis and interpretation	
Methods and Tools: Survey, Experimental, Case-study, Historical, and Scientific; Sources of Data – Primary, Secondary, and Tertiary; Data Collection Tools - Questionnaire, Interview, Observation; Delphi – Measures and Scaling Techniques.		
Outcome 3	Comprehend various data collection, analysis and interpretation techniques	K2
Unit-IV		
Objective 4	To familiarize in the use of statistical tools of research	
Statistical Tools: Need and Importance, Descriptive and Inferential Statistics; Statistical methods and Tools- Measures of Central Tendency, Standard Deviation, T-Test, Chi-Square Test, ANOVA, Correlation Analysis; SPSS.		
Outcome 4	Familiarize with various statistical techniques	K2
Unit-V		
Objective 5	To understand basics of research reporting	
Presentation and Reporting: Presentation of Data – Creation of Tables, Charts and Figures and their Interpretation; Report Writing – Components and Evaluation of a Research Report; Style Manuals – Chicago, MLA, APA; Reference management tools– Mendeley, EndNote; Ethics in Research– Plagiarism.		
Outcome 5	Familiarize the art and style of writing a research report	K2

Suggested Readings

Devarajan, G. (2002). Research in library and Information science. New Delhi: EssEss Publications.

Goode, W. J., &Hatt, P. K. (1952). Methods in Social Research. New York: McGraw-Hill book co.

Kothari, C.R. (2004) Research Methodology: Methods and Techniques. 2nd Edition, New Age International Publishers, New Delhi.

Kumar, Krishan. Research methods in library and information science. Rev. Ed. 1999. Har-Anand Publications, New Delhi.

Lancaster (F W) and Powell (R R). Basic research methods for librarians. 1985. Ablex publishing, New Jersey.

Marshall, Catherine and Rossman, Gretchen B (2006). Designing Qualitative Research. Sage USA.

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Panneerselvam, R. (2014). Research methodology. Delhi: PHI Learning.
Reinard , John C. (2006). Communication Research Statistics. Sage, USA
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https://www.researchgate.net/publication/319207471_HANDBOOK_OF_RESEARCH_METHODOLOGY
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K1- Remember, K2-Understand, K3-Apply K4-Analyze, K5-Evaluate, K6- Create

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO3	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO4	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO5	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
W.AV	**2.2**	**1.2**	**2**	**2.2**	**1.4**	**2.2**	**3**	**2.8**	**2**	**1.2**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	S (3)	M (2)	M (2)	S (3)	S (3)
CO3	M (2)	S (3)	S (3)	M (2)	M (2)
CO4	M (2)	S (3)	S (3)	M (2)	M (2)
CO5	M (2)	S (3)	S (3)	M (2)	M (2)
W.AV	**2.2**	**2.8**	**2.8**	**2.2**	**2.2**

S- Strong (3), M-Medium (2), L-Low (1)

III-Semester					
Core : 11	**Course code:** 932302	**Information Retrieval Systems**	**T**	**Credits :4**	**Hours: 4**

Unit-I

Objectives 1	To develop an understanding of indexing methods;	
Information Retrieval System: IR Systems: Concept, definition, characteristics, components and functions - Subject indexing: Concept, principles, methods and systems - Problems in alphabetical subject indexing - Pre co-ordinate and post co-ordinate indexing systems.		
Outcome 1	Understand the concept of IR and it tools	K2

Unit-II

Objective 2	To introduce the information repackaging and consolidation techniques; and	
Indexing Languages: Indexing Languages – Concepts, types and characteristics - Indexing Systems: Chain Procedure and Subject heading lists (Library of Congress List of Subject Heading and Seas List of Subject Heading) - Citation indexing: Concept and utilities - Computerized indexing and clustering technique.		
Outcome 2	Elaborate and use various indexing techniques.	K3

Unit-III

Objective 3	To develop capability in retrieving information by different search techniques	
Vocabulary Control and Online Information Retrieval: Vocabulary control: definition and tools - Thesaurus: Importance, Structure and Steps for Construction - Intelligent information retrieval: Expert System - On-line searching and retrieval: elements and search formulation.		
Outcome 3	Comprehend the concept of information retrieval models, repackaging and consolidation	K2

Unit-IV

Objective 4	To familiarize the students with search formulation and strategies;	
Information Retrieval Models: IR models: concept and purpose - Search strategies: proximity search, truncated search, Boolean search, and federated search - Software's for information retrieval - Criteria for evaluation of IR systems.		
Outcome 4	Use different search strategies, techniques and evaluate IR system	K3

Unit-V

Objective 5	To develop familiarity with various Content management Sysytem.	
Content Development: Content Development: guidelines, norms, mark-up languages for content development - Content Management Systems (CMS): features and utilities - Natural language processing: Meaning, prospects and interfaces ϖ Current trends in IR research.		
Outcome 5	Acquaint with various content management system.	K2

Suggested Readings

Becker, Joseph and Robert M Hayes. (1967). Information Storage and Retrieval tools Elements & Theories. New York: John Wiley.

Choudhury, G.G. (1993). Introduction to Modern Retrieval System. Calcutta: IASLIC, 1993

Elis, David (1996). Progress and Problems in Information Retrieval. London: Library Association.

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Grolier, Eric de. (1962). A Study of general Categories Applicable to Classification and Coding in Documentation UNESCO.

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Meadow, Charles T. (2000). Text Information retrieval system. Academic Press.
Meadow, Charles T. (2000). Text Information retrieval system.Academic Press.
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K1- Remember, K2-Understand, K3-Apply K4-Analyze, K5-Evaluate, K6- Create

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO3	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO4	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO5	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
W.AV	**2.4**	**1.4**	**2**	**2.4**	**1.8**	**2.4**	**3**	**2.6**	**2**	**1.4**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	S (3)	M (2)	M (2)	S (3)	S (3)
CO3	M (2)	S (3)	S (3)	M (2)	M (2)
CO4	S (3)	M (2)	M (2)	S (3)	S (3)
CO5	M (2)	S (3)	S (3)	M (2)	M (2)
W.AV	**2.4**	**2.6**	**2.6**	**2.4**	**2.4**

S- Strong (3), M-Medium (2), L-Low (1)

III-Semester					
Core : 12	**Course code:** 932303	**Library Automation**	**T**	**Credits :4**	**Hours: 4**

Unit-I		
Objectives 1	To understand various aspects of library automation.	
Basics of Library Automation: Library Automation: Meaning, importance and purposes - Advantages and Disadvantages in library Automation - Manual Vs Automated Systems - Online Catalogue- OPAC and Web OPAC - Library automation scenario in India.		
Outcome 1	Comprehend various aspects of library automation.	K2
Unit-II		
Objective 2	To develop skills in using computer and communication technology.	
Planning Library Automation: Automatic Identification Methods: Barcode, RFID - RFID technology - Meaning, needs and features, RFID Components , Artificial Intelligence - Library Management Software: SOUL and Open-Source Software		
Outcome 2	Evaluate various integrated library management software	K5
Unit-III		
Objective 3	To familiarize the students with the basic concept of computer networks	
Housekeeping operations and Retrospective Conversion: Automated Acquisition Control - Automated Circulation Control - Automated Serials Control - Library Administration and Report Generation - Retrospective Conversion: Concept, Need, Purpose and Techniques - Retrospective Conversion in Academic Libraries of India: INFLIBNET Initiative		
Outcome 3	Evaluate various integrated library management software	K5
Unit-IV		
Objective 4	To acquaint the students with basics of AI and web designing	
Library Networks: Meaning and Scope - Library Networking in Indian perspectives: INFLIBNET, DELNET - Library consortia in Indian context UGC-INFONET, INDEST, CSIR & Others E-Resources Consortia - Internet Based Cataloguing – OCLC, LC, CORC (Cooperative Online Resource Cataloguing) - Bibliographic Utility Networks.		
Outcome 4	Carry out various automated in-house library operations	K6
Unit-V		
Objective 5	To develop familiarity with some library management software	
Standardization in Automated Cataloguing: Need and Purpose - Standards - ISBD, CCF, ISO-2709 and Z39.50 - Metadata- MARC and Dublin Core - Trends in Library Cataloguing.		
Outcome 5	Understand basic concept of computer networks and use of Internet in libraries	K2

Suggested Readings

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Tripathi, Aditya et al. (eds.). (2010). Open-Source Library Solutions. New Delhi: EssEss
Uma, V., &Suseela, V. J. (2017). Automation of library integrated operations: A how to do manual.

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https://www.academia.edu/download/31576631/implimentation_of_Koha.pdf
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K1- Remember, K2-Understand, K3-Apply K4-Analyze, K5-Evaluate, K6- Create

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO3	M (2)	S (3)	M (2)	S (3)	M (2)	M (2)	M (2)	M (2)	M (2)	M (2)
CO4	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
CO5	M (2)	L (1)	M (2)	M (2)	M (2)	M (2)	S (3)	M (2)	M (2)	L (1)
W.AV	**2**	**2**	**1.8**	**2.4**	**2**	**2.4**	**2.4**	**2.4**	**2.2**	**1.8**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	S (3)	M (2)	M (2)	S (3)	S (3)
CO3	M (2)	M (2)	L (1)	L (1)	M (2)
CO4	S (3)	L (1)	S (3)	S (3)	S (3)
CO5	M (2)	S (3)	S (3)	M (2)	M (2)
W.AV	**2.4**	**2.2**	**2.4**	**2.2**	**2.4**

S- Strong (3), M-Medium (2), L-Low (1)

III-Semester					
Core : 13	**Course code:** 932304	**Library Automation (Practice)**	**P**	**Credits :4**	**Hours: 8**

Unit-I		
Objectives 1	To develop skills in using computer and communication technology	
CDS/ISIS or WINISIS: Database Creation - Search and Retrieval of information		
Outcome 1	Learn the CDS/ISIS installation	K1
Unit-II		
Objective 2	To develop familiarity with features of Library Management Software's	
Installation and use of SOUL: Administration - Acquisition - Technical Processing – Circulation - Serial Control		
Outcome 2	Hands on experience on library automation planning and procedures	K3
Unit-III		
Objective 3	To know the installation of KOHA	
Barcode Generation		
Outcome 3	Learn the KOHA installation	K1
Unit-IV		
Objective 4	To develop familiarity with some auto-identification technologies like barcode	
Installation and use of KOHA: Administration and Setup - Acquisition - Technical Processing - Circulation - Serial Control - Report Generation		
Outcome 4	Assess and practice of various integrated library management software.	K5
Unit-V		
Objective 5	To acquaint the students with Open sources library application	
Future Trends: Transforming Today's Library/Information Environment to Next-Gen Intelligent and Smart Information Systems – Seamless Integration of ILMS.		
Outcome 5	Carry out various automated in-house library operations using real LMS software	K6

Suggested Readings

Chidrupananda, Swami. (2006). Making Sense of Library Automation: A Handson Guide. Kolkata: Meteor

Deepali (Talagala). Web interface for CDS/ISIS: GENISISweb v.3.0. 2003. Sri Lanka Library Association, Colombo.

Grewal, Gagandeep. (2004). Handbook of Library Security. New Delhi: Dominant.

Haravu (L J). Library automation design, principles and practice. 2004. Allied Publishers, New Delhi.

INFLIBNET. Software for university libraries user manual. 2003. INFLIBNET, Ahmedabad.

Mishra, V. K. (2016). Basics of library automation, Koha library management software and data migration: Challenges with case studies.

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Reddy, Satyanarayana. (2001). Automated Management of Library Collections. New Delhi:EssEss.

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

Course Outcome VS Programme Outcomes

COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**
CO1	M (2)	S (3)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO2	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO3	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO4	M (2)	S (3)	M (2)	S (3)	M (2)	M (2)	M (2)	M (2)	M (2)	M (2)
CO5	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
W.AV	**2**	**2.4**	**1.8**	**2**	**2.2**	**2**	**1.6**	**1.6**	**1.8**	**2.2**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

Cos	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	M (2)	S (3)	M (2)	M (2)	M (2)
CO2	S (3)	M (2)	M (2)	S (3)	S (3)
CO3	M (2)	S (3)	M (2)	M (2)	M (2)
CO4	M (2)	M (2)	L (1)	L (1)	M (2)
CO5	S (3)	L (1)	S (3)	S (3)	S (3)
W.AV	**2.4**	**2.2**	**2**	**2.2**	**2.4**

S- Strong (3), M-Medium (2), L-Low (1)

III-Semester					
DSE-3	**Course code:** 932505	**Informetrics**	**T**	**Credits :4**	**Hours: 4**

Unit-I		
Objectives 1	To explore the origin and development of key terms of metric studies	
Introduction: Concept, definition, need and historical overview and application of Bibliometrics, Librametry, Informetrics, Scientometrics, Webometrics, Cybermetrics and Altmetrics		
Outcome 1	Grasp the genesis, scope, purpose and application of Bibliometrics	K1
Unit-II		
Objective 2	To understand citation indexing, databases, impact factor	
Classical Bibliometric Laws: Lotka's Law, Zipf's Law, and Bradford's Law – Application of Bibliometric laws; Growth and Obsolescence of Literature; Various growth models		
Outcome 2	Understand the historical development and meaning of metric studies.	K2
Unit-III		
Objective 3	To understand citation indexing, databases, impact factor	
Citation Analysis: Definition, Citation indexing, including bibliographic coupling and co-citation analysis. Citation Indices - Formulae for measuring Citations: H-index, Journal Impact Factor, Immediacy index. Citation Indexing Databases and Services: Web of Knowledge, Scopus, Google Scholar, others.		
Outcome 3	Explain the usability of citation index, impact factor and h-index	K2
Unit-IV		
Objective 4	To understand citation analysis and operation research	
Mapping of Science: Journal – Journal, Authors, Citation – Mapping Indicators – Mapping & Data Analysis Tools – VOS Viewer, Pajek, Bibexcel, Histcite, etc.		
Outcome 4	Describe and use mapping for analysis research contributions.	K1
Unit-V		
Objective 5	To apply qualitative as well as quantitative techniques in library and information science.	
Application of Informetrics: Science and Technology policy decision support for countries, organisationsetc. Evaluation of Research output, Performance Appraisal		
Outcome 5	Conduct and interpret the results of cluster analysis, correspondence analysis, co-word analysis, media and audience analysis for a selected list of articles.	K4

Suggested Readings

Ball, R. (2017). An introduction to bibliometrics: New development and trends. Chandos Publishing.

Daim, T. U., Chiavetta, D., Porter, A. L., &Saritas, O. (Eds.). (2016). Anticipating future innovation pathways through large data analysis. Springer International Publishing

De Bellis, N. (2009). Bibliometrics and citation analysis: from the science citation index to cybermetrics. scarecrow press.

Devarajan, G (1997). Bibliometric Studies. EssEssPublications, New Delhi.

Ding, Y., Rousseau, R., & Wolfram, D. (2016). Measuring scholarly impact. Springer International.

Donohue, J. C. (1973). Understanding Scientific Literatures: A Bibliometric Approach.

Jena, Kamal Locha (2012). Modern Approach to Bibliometric Studies. New Delhi: SSDN Publishers.

Pritchard, A., & Wittig, G. R. (1981). Bibliometrics. Watford: AllM Books.

Raju, NemaniGovinda. (2009). Bibliometric Applications: Study of Literature Use Patterns

Todeschini, R., &Baccini, A. (2016). Handbook of bibliometric indicators: Quantitative tools for studying and evaluating research. John Wiley & Sons.

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

Course Outcome with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	M (2)	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	M (2)
CO2	M (2)	M (2)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO3	M (2)	M (2)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO4	M (2)	M (2)	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	M (2)
CO5	M (2)	M (2)	M (2)	M (2)	M (2)	S (3)	M (2)	S (3)	S (3)	M (2)
W.AV	**2**	**2**	**2**	**1.6**	**1.6**	**1.8**	**2.4**	**2.2**	**1.8**	**1.6**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	M (2)	M (2)	M (2)
CO2	M (2)	S (3)	S (3)	M (2)	M (2)
CO3	M (2)	S (3)	S (3)	M (2)	M (2)
CO4	M (2)	S (3)	M (2)	M (2)	M (2)
CO5	S (3)	L (1)	L (1)	L (1)	L (1)
W.AV	**2.2**	**2.6**	**2.2**	**1.8**	**1.8**

S- Strong (3), M-Medium (2), L-Low (1)

III-Semester					
DSE-3	**Course code:** 932506	**Media and Information Literacy**	**T**	**Credits :4**	**Hours: 4**

Unit-I

Objectives 1	To understand the concept of information literacy	
Media and Information literacy - Meaning, definition, objectives and Importance; Information Literacy and User Orientation programs; Information literacy in an information society; Information literacy and lifelong learning.		
Outcome 1	Comprehend the concept of information literacy	K2

Unit-II

Objective 2	To know the various information literacy in academic institutions	
Information literacy in Academic Institutions - Effect on education; Information literacy programs in schools and higher education institutions including distance education.		
Outcome 2	Understand the various models of information literacy applications in higher education institutions	K2

Unit-III

Objective 3	To familiar with the various models of information literacy and their application	
Information literacy models - Features and examples; Instructional techniques and Methods; ILP and technology		
Outcome 3	Utilize national and international standard and models of information literacy	K3

Unit-IV

Objective 4	To orient on national and international standard and models of information literacy	
Information literacy standards and guidelines - ACRL, ALA, IFLA, National Forum on Information Literacy; ILP - Online resources - Example PRIMO (Peer Reviewed Instructional Materials Online database) of ALA -Purpose and scope.		
Outcome 4	Understand the various models of information literacy and their applications	K2

Unit-V

Objective 5	To educate Information Literacy programs	
Application of Informetrics: Science and Technology policy decision support for countries, organizations etc. Evaluation of Research output, Performance Appraisal		
Outcome 5	Comprehend the information literacy programs	K2

Suggested Readings

Armstrong, S. (2008). Information Literacy: Navigating & evaluating today's Media. California: Shell Education.

Bawden, David. (2001). Information and Digital Literacies: a review of concepts. Journal of Documentation, V57(2), pp. 218-259.

Bilawar, PrakashBhairu (2018) Essentials of information literacy and E-Information literacy for information seekers, New delhi: EssEss Publications.

Blanchett, H., Powis, C. & Webb, J. (2012). A Guide to Teaching Information Literacy: 101 Practical Tips. London: Facet Publishing.

Eisenberg Michale (2004), Information literacy: Essential skills for the information age, Unlimited.

Ercegovac, Z. (2008). Information literacy: Search strategies, tools & resources for high school students and college freshmen (2nd ed.). Ohio: Linworth.

Grassian, Esther S (2013) Information literacy instruction: Theory and practices, New delhi: EssEss Publications.

Herring, J. (2011). Improving Students' web use and information literacy: A guide for teachers and teacher librarians. London: Facet Publishing.

Neely, T. Y. (2006). Information Literacy Assessment: Standards-Based Tools and Assignments. Chicago: American Library Association.

Regains, Patrick (2014) Information literacy instruction that works: A guide to teaching by discipline and student population, New delhi : DBS Imprints.

Online Resources

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO3	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO4	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO5	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
W.AV	**2.2**	**1.2**	**2**	**2.2**	**1.4**	**2.2**	**3**	**2.8**	**2**	**1.2**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	M (2)	S (3)	S (3)	M (2)	M (2)
CO3	S (3)	M (2)	M (2)	S (3)	S (3)
CO4	M (2)	S (3)	S (3)	M (2)	M (2)
CO5	M (2)	S (3)	S (3)	M (2)	M (2)
W.AV	**2.2**	**2.8**	**2.8**	**2.2**	**2.2**

S- Strong (3), M-Medium (2), L-Low (1)

IV-Semester					
Core :14	**Course code:** 932401	**Knowledge Management**	**T**	**Credits :4**	**Hours: 4**

Unit-I		
Objectives 1	To understand the concept and role of Knowledge management	
Knowledge Management: Concept and definitions – Need for Knowledge Management in the emerging and changing business environment		
Outcome 1	Comprehend the concepts of knowledge management	K2
Unit-II		
Objective 2	To know the types of knowledge management is carried out	
Knowledge Economy: Features, characteristics - complex nature of knowledge - taxonomy of knowledge - Need for Knowledge Management		
Outcome 2	Understand the need for knowledge management	K2
Unit-III		
Objective 3	To understand knowledge creators, Knowledge architecture and knowledge codification	
Knowledge Management Basics: Meaning and definition of KM - Types of knowledge - KM Systems - Knowledge creation and knowledge architecture – Nonaka's model.		
Outcome 3	Know about the knowledge management systems	K1
Unit-IV		
Objective 4	To discuss different knowledge codification and organization	
Knowledge Management Strategies: Capturing tacit knowledge – methods; Knowledge codification – tools and procedures; Knowledge Mapping; Knowledge testing; Knowledge transfer.		
Outcome 4	Comprehend the knowledge testing and knowledge transfer	K2
Unit-V		
Objective 5	To identify knowledge management tools and techniques	
Knowledge Management System: Tools and Portals - Data visualization; Data mining; Managing knowledge workers. Knowledge Management in Library and Information Centers.		
Outcome 5	Understand the knowledge management in Library and Information Centres	K2

Suggested Readings

Anderson, Paul. (2012). Web 2.0 and beyond: principles and technologies. Boca Raton: CRC Press

Ashu Shokeen, I.V.Malhan T.D. and Tilwani (2001). Information Management sources another studies, (vol.II), EssEss Publications, New Delhi.

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Cappelli, Peter. (2010). The performance effects of it-enabled knowledge management practices. Cambridge, MA; National Bureau of Economic Research.

Donald Hislop. (2009). Knowledge Management in organization.Amazon.com

Easterby-Smith, Mark & Lyles, Marjorie A. (2011). Handbook of organizational learning and knowledge managemen. Chichester, West Sussex: Wiley,

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https://www.academia.edu/download/32688146/23003bb2.pdf
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K1- Remember, K2-Understand, K3-Apply K4-Analyze, K5-Evaluate, K6- Create

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO3	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO4	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO5	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
W.AV	**2**	**1**	**2**	**1.8**	**1.2**	**1.8**	**2.6**	**2.6**	**1.8**	**1.2**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	M (2)	S (3)	S (3)	M (2)	M (2)
CO3	M (2)	S (3)	M (2)	M (2)	M (2)
CO4	M (2)	S (3)	S (3)	M (2)	M (2)
CO5	M (2)	S (3)	S (3)	M (2)	M (2)
W.AV	**2**	**3**	**2.8**	**2**	**2**

S- Strong (3), M-Medium (2), L-Low (1)

IV-Semester					
Core :15	**Course code:** 932402	**Digital Library and Web Technology**	**T**	**Credits :4**	**Hours: 4**

Unit-I

Objectives 1	To help students in understanding digital libraries	
Digitization: Meaning, needs and purposes - Digitization process: steps and tools - File formats: types and conversion - Capture devices, image editing software, OCR and UNICODE.		
Outcome 1	Understand the concept of digital Library and its process	K2

Unit-II

Objective 2	To help learn the develop of digital Library	
Developing Digital Library: Digital library: meaning, purpose, planning, steps and implementation - Digital Library Management Software (DLMS): Selection process and features (Greenstone, Dspace and E-prints) - Metadata: meaning and methods of metadata creation - Digital Rights Management (DRM).		
Outcome 2	Learn the key features of various digital library software's	K1

Unit-III

Objective 3	To introduce to some institutional repository application	
Institutional Repository: Definition, objectives, purpose & scope - Open Access Initiatives (OAI), Digital library initiatives in India - Institutional Repositories Vs Digital Library - Digital Preservation: needs, migration and replication.		
Outcome 3	Understand the objectives and scope of Institutional Repository	K2

Unit-IV

Objective 4	To introduce basic of web designing like HTML and CMS	
Overview of Web Technology: Web technology: meaning and applications ಠ HTML: Basics, hypertext and hypermedia, HTML programming - UIRLs, WEB browsers, search engines, websites, directory, blogs and portals - Internet protocols and Internet security.		
Outcome 4	Students will understand various methods of digitising the documents	K2

Unit-V

Objective 5	To acquaint the students with Open sources library application	
Internet and its Connectivity: Internet Connectivity, Dial up, Leased line, ISDN and Wi-Fi - Remote Login and OAI/PMH - Web 2.0, Library 2.0, Semantic Web and Social Networks - Web page design and evaluation of Websites.		
Outcome 5	Learn the basic of web-designing	K1

Suggested Readings

Bishop, A. P. et al. (eds.). (2005). Digital Library Use: Social Practice in Design and Evaluation. Delhi:Ane Books.

Chowdhury, G. G. & Chowdhury, Sudatta. (2003). Introduction to Digital Libraries. London: Facet Publishing

Deegan, Marilyn & Tanner, S. (2006). Digital Preservation. London: Facet Publishing.

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Pandey, V. C. (2004). Digital Technologies and Teaching Strategies. Delhi: Isha Books.

Shinde, G. Z. et al. (2015). Emerging Technologies and Future of Libraries; Issues and Challenges. New Delhi: Daya Publishing House

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO3	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO4	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO5	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
W.AV	**2**	**1**	**2**	**1.6**	**1.4**	**1.6**	**2.2**	**2.2**	**1.6**	**1.4**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	M (2)	S (3)	S (3)	M (2)	M (2)
CO3	M (2)	S (3)	S (3)	M (2)	M (2)
CO4	M (2)	S (3)	M (2)	M (2)	M (2)
CO5	M (2)	S (3)	M (2)	M (2)	M (2)
W.AV	**2**	**3**	**2.6**	**2**	**2**

S- Strong (3), M-Medium (2), L-Low (1)

IV-Semester					
Core :16	**Course code:** 932403	**Digital Library and Web Technology (Practice)**	**P**	**Credits :4**	**Hours: 8**

Unit-I		
Objectives 1	To help learn the process of digitization	
Creation of Digital Documents with Metadata		
Outcome 1	Understand digitization and its requirements	K2
Unit-II		
Objective 2	To provide hands on experience to some institutional repository application software's like DSPACE, EPRINTS, and GREENSTONE	
Creation of Institutional repository application software's like Dspace, EPRINTS, and GREENSTONE		
Outcome 2	Students should be able install and create digital libraries using DSPACE	K6
Unit-III		
Objective 3	To develop familiarity with CMS like Drupal, Joomla and WordPress	
Open-Source Library Application Software: Installation, Content Management System, Database Creation and Use		
Outcome 3	Install and create webpage using Drupal and Joomla CMS	K6
Unit-IV		
Objective 4	To Develop skills in web designing using HTML	
Web page design by using HTML and hyperlinking. Application development for libraries		
Outcome 4	Design webpage using HTML coding	K3
Unit-V		
Objective 5	To acquaint Open sources learning application like Moodle etc	
Creation of learning platform for institution using Moodle		
Outcome 5	Install and create learning platform for institutions	K6

Suggested Readings

Bishop, A. P. et al. (eds.). (2005). Digital Library Use: Social Practice in Design and Evaluation. Delhi:Ane Books.

Chowdhury, G. G. & Chowdhury, Sudatta. (2003). Introduction to Digital Libraries. London: Facet Publishing

Deegan, Marilyn & Tanner, S. (2006). Digital Preservation. London: Facet Publishing.

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
CO3	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
CO4	S (3)	M (2)	M (2)	S (3)	S (3)	S (3)	S (3)	M (2)	M (2)	M (2)
CO5	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
W.AV	**1.6**	**2.4**	**1.4**	**2.2**	**2**	**2.8**	**1.8**	**2.2**	**2.6**	**2.4**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

Cos	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	S (3)	L (1)	S (3)	S (3)	S (3)
CO3	S (3)	L (1)	S (3)	S (3)	S (3)
CO4	S (3)	M (2)	M (2)	S (3)	S (3)
CO5	S (3)	L (1)	S (3)	S (3)	S (3)
W.AV	**2.8**	**1.6**	**2.8**	**2.8**	**2.8**

S –Strong (3), M-Medium (2), L- Low (1)

IV-Semester					
Core :17	**Course code:** 932404	**Library Internship**		**Credits :2**	**Hours: 2**
Unit-I					
Objectives 1	To instruct practical training in library system and services of the library.				
Job Diary: Student will be required to submit "Job diary" based on the worksdone in the selected libraries					
Outcome 1	Understand the use of Library Management software in libraries of various section;				K2
Unit-II					
Objective 2	To introduce various activities performed in the library				
Classification and Cataloguing: Familiarization of main classes, subdivisions and relative index, classification of simple specific subjects, Prepare a record of term work of classification, Data entry, Classify the documents.					
Outcome 2	Students will be in a position to aware of different types of library functions and activities				K1
Unit-III					
Objective 3	To introduce various activities performed in the library				
Outcome 3	Perform function of various sections and manage libraries efficiently				K3
Unit-IV					
Objective 4	To give practical training in the use of library automation software; and other software's				
.					
Outcome 4	Library internships are focused on students planning for a career in fields related to librarianship				K3
Unit-V					
Objective 5	To understand the daily library activities and to learn the library Management works.				
Outcome 5	The practical experience of a library internship appeals to students unsure about how their chosen majors can serve them post-graduation				K6
K1- Remember, K2-Understand, K3-Apply K4-Analyze, K5-Evaluate, K6- Create					

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO3	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
CO4	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
CO5	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
W.AV	**1.4**	**2.2**	**1.4**	**1.8**	**1.8**	**2.4**	**1.4**	**2**	**2.4**	**2.4**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

Cos	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	M (2)	S (3)	M (2)	M (2)	M (2)
CO3	S (3)	M (2)	M (2)	S (3)	S (3)
CO4	S (3)	M (2)	M (2)	S (3)	S (3)
CO5	L (1)	S (3)	L (1)	M (2)	M (2)
W.AV	**2.2**	**2.6**	**2**	**2.4**	**2.4**

S- Strong (3), M-Medium (2), L-Low (1)

IV-Semester				
Core :18	**Course code:** 932999	**Project Work**	**Credits :8**	**Hours: 12**

Unit-I		
Objectives 1	To help them chose an appropriate research problem for dissertation	
Identification and Selection of Research Problem		
Outcome 1	Understand practical application of research methods in the field if LIS.	K2
Unit-II		
Objective 2	To help them identify an appropriate research review for dissertation	
Li Literature Review		
Outcome 2	Understand the testing of hypotheses	K2
Unit-III		
Objective 3	To assist them apply data collection, analysis and interpretation techniques	
M Research Methodology and Data Analysis		
Outcome 3	Hands on experience on SPSS	K6
Unit-IV		
Objective 4	To develop familiarity with application of various statistical techniques	
Fi Findings, Suggestion and Conclusion		
Outcome 4	Know the use of data collection, analysis and interpretation techniques.	K4
Unit-V		
Objective 5	To guide the students with basics of research reporting	
Fi Findings, Suggestion and Conclusion		
Outcome 5	Carry out a useful research study and submit its report	K6
K1- Remember, K2-Understand, K3-Apply K4-Analyze, K5-Evaluate, K6- Create		

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO3	L (1)	L (1)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
CO4	M (2)	M (2)	S (3)	M (2)	M (2)	S (3)	M (2)	S (3)	S (3)	M (2)
CO5	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
W.AV	**1.6**	**2**	**1.8**	**2**	**1.6**	**2.6**	**2**	**2.6**	**2.6**	**2**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

Cos	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	M (2)	S (3)	S (3)	M (2)	M (2)
CO3	S (3)	L (1)	S (3)	S (3)	S (3)
CO4	S (3)	L (1)	L (1)	L (1)	L (1)
CO5	S (3)	L (1)	S (3)	S (3)	S (3)
W.AV	**2.6**	**1.8**	**2.6**	**2.2**	**2.2**

S- Strong (3), M-Medium (2), L-Low (1)

Non-Major Elective					
Non-Major Elective	**Course Code:**	**Open Knowledge System**	**T**	**Credits :2**	**Hours: 3**

Unit-I

Objectives 1	To literate non-subject students about functions and services of libraries	
Basic of Library and Information Science: Library -Definition, Need and Scope -Types of Libraries -objectives, functions, services -Traditional Library Services, Modern Library Services, Role of Librarians -Library Websites, Library Portals, Library Gateways, Digital Library Services.		
Outcome 1	Understand role of libraries, its function and services.	K2

Unit-II

Objective 2		
Sources of Information: Definition and characteristics -Types of information sources: Documentary-primary, secondary and tertiary, Non-Documentary -Print sources of information, Digital Sources of Information: Paid and Open Access Resources. OpenAccess Movement: OERs, Open Data, Open Science and Open Knowledge		
Outcome 2	Comprehend various sources of information and services available in market	K2

Unit-III

Objective 3	Educate about reference styles and its importance in research	
Bibliography and Reference Management Techniques: Bibliography and Reference Management: Concept and definition -Referencing Styles -Reference Management Tools		
Outcome 3	Learn the meaning and functions of reference styles and its usefulness	K1

Unit-IV

Objective 4	To know the plagiarism detection tools	
Citation analysis, Impact Factor, Online citation index and Plagiarism: Concept of citation analysis, formulas for measuring Citation: H-index, I-index, G-index -Impact factor concept, need, formulas for measuring impact factor -Citation Databases: Web of Knowledge, Scopus, Google Scholar, ResearchGate -Plagiarism: Plagiarism Detection Tools		
Outcome 4	Understand the role of citation and impact factor indicators	K2

Unit-V

Objective 5	Help in understanding Searching Techniques and Retrieval Techniques	
Information Searching and Retrieval Techniques: Concept and definition -Role of Search Engines in Information Retrieval -Searching Techniques: Free Text Search, Boolean Search, Truncated Search, Wild card Search, Federated Search.		
Outcome 5	Understand the use of open contents in education and research	K2

Suggested Readings

Bajpai, S. K. (1999). Modern information retrieval. New Delhi: EssEss.

Bopp, R. E., & Smith, L. C. (2011). Reference and information services: An introduction. Santa Barbara: Libraries Unlimited.

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Dhiman, A. K. (2003). Basics of information technology for librarians and information scientists. New Delhi: EssEss Publications.

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Eberhart, G. M. (2000). The whole library handbook: Current data, professional advice, and curiosa about libraries and library sciences. Chicago: American Libr. Assoc.

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https://archive.alvb.in/msc/07_infoapa/reading/Comparison_of_plagiarism_detection_tools.pdf
https://www.egyankosh.ac.in/bitstream/123456789/76456/1/Unit-19.pdf

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO3	M (2)	L (1)	M (2)	L (1)	M (2)	L (1)	L (1)	L (1)	L (1)	M (2)
CO4	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO5	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
W.AV	**2**	**1**	**2**	**1.8**	**1.2**	**1.8**	**2.6**	**2.6**	**1.8**	**1.2**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	M (2)	S (3)	S (3)	M (2)	M (2)
CO3	M (2)	S (3)	M (2)	M (2)	M (2)
CO4	M (2)	S (3)	S (3)	M (2)	M (2)
CO5	M (2)	S (3)	S (3)	M (2)	M (2)
W.AV	**2**	**3**	**2.8**	**2**	**2**

S- Strong (3), M-Medium (2), L-Low (1)

IV-Semester					
NME	**Course code:**	**Electronic Information Sources and Services**	**T**	**Credits :2**	**Hours: 3**

Unit-I

Objectives 1	To give details of the electronic information sources and services	
Information Sources: Concept, Types/ Kinds, Characteristic features and use. Types of sources (Primary, Secondary, Tertiary and Non-Documentary Sources) Evaluation of Information Sources		
Outcome 1	Exhibit the ability to select appropriate electronic information sources	K2

Unit-II

Objective 2	Help in understanding different type of resources	
Electronic Information resources: Meaning and definition, Growth and development, Types. E-Journals, e-Books, e-Theses, e-newspapers, Blogs, Wikis. Free online Dictionaries, Non-free online dictionaries, Free Thesauri. Encyclopedia, Virtual Libraries, Subject gateways and Portals – Internet Information Resources: DOAJ, E-books, Open Access Resources – OERs		
Outcome 2	Compare and analyse the characteristics of different types of electronic information sources	K2

Unit-III

Objective 3	To know the various databases and repositories	
Databases: Free databases and fee based bibliographical and full text citation and Bibliographic databases, ACM Digital Library, IEEE/IEE, - Emerald - EBSCO – JGate, JSTOR		
Outcome 3	Exhibit the using of bibliographic and full text databases	K3

Unit-IV

Objective 4	To understand the importance of consortia	
Resource Sharing and Networks: Consortia- Importance and objectives. Study of Information networks and Digital Library Consortia: e-ShodhSindhu - Subject related websites, Institutional repositories, Open Archives and digital Libraries		
Outcome 4	Know about the digital library consortia.	K4

Unit-V

Objective 5	To provide understanding of information System	
Components of Information System: Libraries, Documentation Centres, Information centres, Data centres, Data Banks, Museums, Memories, Publishing Houses. Virtual Reference Desk		
Outcome 5	Explain the characteristic features of information systems	K2

Suggested Readings

Chauhan, K., & Mahapatra, R. K. (2013). Open access e-resources in library and information science. New Delhi: EssEss Publications.

Dhiman, A. K. (2005). Learn information and reference sources and services: Learning library science series. Place of publication not identified: EssEss Publications.

Eberhart, G. M. (2013). The whole library handbook 5: Current data, professional advice, and curiosa about libraries and library services. Chicago: American Library Association.

Choudhury, G. G. (2001). Searching CD-ROM and Online Information Sources. London: Facet Publishing.

Ghenney, F. N. (1980). Fundamentals of Reference Sources. New York: Mc Graw Hill.

Guha, B. (1999). Documentation and Information Services (2nd ed.). Calcutta: World Press.

Higgens, C. (Ed.). (1980). Printed Reference Materials. London: Library Association.

Krishan Kumar. (1984). Reference Service. New Delhi: Vikash Publication.

Lancaster, F. W. (1998). Indexing and Abstracting in Theory and Practice. Illinois: University of Illinois.

Mohapatra, M. et al. (1997). Access to Electronic Information. Bhubaneshwar: SIS Chapter.

Online Resources

https://egyankosh.ac.in/handle/123456789/56269
https://egyankosh.ac.in/bitstream/123456789/35284/3/BLI-222%20B1-E.pdf
https://egyankosh.ac.in/bitstream/123456789/26328/1/Unit-7.pdf
https://egyankosh.ac.in/bitstream/123456789/39589/1/Unit-7.pdf
http://shodh.inflibnet.ac.in:8080/jspui/bitstream/123456789/5278/1/electronic%20information....pdf

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

Course Outcome VS Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO2	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
CO3	L (1)	S (3)	L (1)	M (2)	M (2)	S (3)	L (1)	M (2)	S (3)	S (3)
CO4	M (2)	M (2)	S (3)	M (2)	M (2)	S (3)	M (2)	S (3)	S (3)	M (2)
CO5	M (2)	L (1)	M (2)	M (2)	L (1)	M (2)	S (3)	S (3)	M (2)	L (1)
W.AV	**1.8**	**1.6**	**2**	**2**	**1.4**	**2.4**	**2.4**	**2.8**	**2.4**	**1.6**

S- Strong (3), M-Medium (2), L-Low (1)

Course Outcome VS Programme Specific Outcomes

COs	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M (2)	S (3)	S (3)	M (2)	M (2)
CO2	M (2)	S (3)	S (3)	M (2)	M (2)
CO3	S (3)	M (2)	M (2)	S (3)	S (3)
CO4	S (3)	L (1)	L (1)	L (1)	L (1)
CO5	M (2)	S (3)	S (3)	M (2)	M (2)
W.AV	**2.4**	**2.4**	**2.4**	**2**	**2**

S- Strong (3), M-Medium (2), L-Low (1)

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