



RANI DURGAWATI UNIVERSITY

Saraswati Vihar, Pachpedi, Jabalpur,

Madhya Pradesh (INDIA) -482001



Department of Library and Information Science

Syllabus of All Programme

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Department of Library & Information Science Rani Durgavati Vishwavidyalaya, Jabalpur

GUIDELINES, REGULATIONS AND SCHEME OF EXAMINATION UNDER CBCS
(w.c.f. 2021--22)

BACHELOR OF LIBRARY AND INFORMATION SCIENCE

B.Lib.I.Sc.

(1 Year /2-Semester Scheme)

A. Programme Details

Name of the Department	:	Department of Library and Information Science
Faculty	:	Faculty of Arts
Subject	:	Library and Information Science
Name of the Programme	:	B.Lib.I.Sc. (Bachelor of Library and Information Science)
Duration of the Programme	:	1 Year divided into 2 Semesters

B. Objectives of the Programme

1. To develop in students potential for critical thinking particularly concerting goals of Library and Information centers.
2. To train students for a professional career in Library and Information Services.
3. To train students in handling information resources (Print and non-print) to facilitate access and provision of information sources.
4. To train students in using information technology tools and techniques in information access, service, management and archival activities.
5. To further the state of the art in library and information science through extension, research and publication.

C. Eligibility for Admission to the Programme

The minimum qualification for admission to the degree of the Bachelor of Library and Information Science shall be :

- (A) Second class Bachelor Degree of any recognized University, or
(B) Second class Master degree of any recognized University with 55% or above marks, or
(C) In service candidates must be at least second class graduate of any recognized university. Such candidates will be required to produce a certificate of having worked at least three years continuous in a recognized library as a whole time paid worker performing duties of semi professional nature. B.Lib.I.sc. course is a full time course, the in service candidates are required to stay in the campus as full time students like others. They have to submit a certificate of their employer of the parent institution that he or she will be relived for the entire period of the course.

In case of candidates belonging to reserved category, relaxation in the percentage of marks shall be as per the University Guidelines issued from time to time.

D. Intake: Eighty (80)

E. Attendance

Minimum attendance for keeping a semester is 75% of the total number of theory and practical periods in each Semester.

SYLLABUS AND EXAMINATION PATTERN

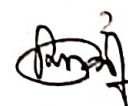
Semester Ist

Papers Code	Title of the Papers	Maximum Marks		Total Marks	Credit
		CCE	End Semester		
BLC 101	Foundation of Library and Information Science	40	60	100	4
BLC 102	Knowledge Organization, Information Processing & Retrieval (Theory)	40	60	100	4
BLC 103	Document Processing: Practice (DDC and AACR-2)	40	60	100	4
BLC 104	Information Technology : Basic (Theory)	40	60	100	4
BLE 101 BLE 102	Elective (Any one) Project Work : Field Survey Data analysis (Practical)	-	-	100	2
BLS 101	Skill Development	40	60	100	4
CVV	Comprehensive Viva-Voce	-	-	100	4

Semester IInd

Papers Code	Title of the Papers	Maximum Marks		Total Marks	Credit
		CCE	End Semester		
BLC 201	Management of Library and Information Centers	40	60	100	4
BLC 202	Information Sources, Products and Services	40	60	100	4
BLC 203	Document Processing: Practice (CC and CCC)	40	60	100	4
BLC 204	Information Technology (Practice)	40	60	100	4
BLC 205	Internship Programme	-	-	100	4
BLS 201	Skill Development	40	60	100	4
CVV	Comprehensive Viva-Voce	-	-	100	4

Note: The class test, assignment, seminar shall be conducted in respect of each theory and practical paper (wherever applicable) for the purpose of awarding CCE marks.

FIRST SEMESTER

Paper Code: BLC 101

Foundation of Library and Information Science

Max. Marks: 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1	To develop an Understanding of Role and Importance of libraries, in society
2	To teach the different types of libraries and their functions.
3	To provide an Understanding of laws related to libraries and information.
4	To know the role of national and international library association and organizations.
5	To provide an Understanding of various library promoters at the national and international level.
6	To know the librarianship as a profession.

COURSE OUTCOME: After studying this paper, students shall be able to

1. Understand the Concept, Role and Importance of libraries in society
2. Classify libraries on the basis of their purpose and functions
3. Understand laws related to libraries and information
4. To create the ability to evaluate the current scenario and modern trends in Library and Information Science education and Library and Information centers.
5. Assess the role of national and international library association and organizations.
6. Understand the role of various library promoters at the national and international level
7. Understand librarianship as a profession.

UNIT 1st

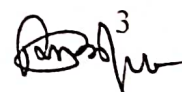
Library as a Social Institution

- Social & Historical foundation of Library
- Role of Libraries in Society.
- Role of Web and Social Media in Library and information centre.
- Types and functions of libraries
- National libraries
- Public Libraries
- Academic Libraries
- Special Libraries

UNIT 2nd

Laws & Legislation

- Five laws of Library Science.
- Library Legislation Need, Features
- Library Legislation in India.
- Brief outline of various Acts and provisions
- The Press and Registration of Books Acts 1867



- The Delivery of Books and Newspapers (Public Libraries) Act 1954
- Copyright Act 1957
- Right to Information Act 2005
- Information Technology Act 2000
- Plagiarism Regulations in India (UGC) 2018

UNIT 3rd

Information & Communication

- Information: Definition, Characteristics, Nature, Value and use.
- Information Science – Definition, Scope and Objectives.
- Conceptual difference between Data, Information and Knowledge.
- Communication of Information – Information Generation and Diffusion.

UNIT 4th

Library Development & Professional Associations

- Library Movement & Development in India.
- Development of Library and information science education in India and Madhya Pradesh
- Library Cooperation and Resource Sharing.
- Role of Professional Associations –
National – ILA, IASLIC and IATLIS
International – CILIP

UNIT 5th

Promoters of Libraries and Information Services

- Library Promoters Functions and Activities and their role on the development of library and information centre.
- National Promoters – NISSAT, CSIR, ICSSR, UGC and INFLIBNET, RRRLF
- International Promoters – UNESCO, IFLA
- Attribute of a Profession, Librarianship as a Profession, Professional Ethics
- Role of Library Professionals in digital era.

Paper Code: BLC 102

Knowledge Organization, Information Processing & Retrieval (Theory)

Max. Marks: 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1	To teach the students about the attributes of classification and various classification schemes.
2	To provide understanding to make them aware about the Library Catalogue, its history, types and recent trends in Library Cataloguing.
3	To explain the various facets of notation and call number.
4	To provide an Understanding of various approaches of deriving subject headings
5	To aware the students about MARC-21

COURSE OUTCOME: After studying this paper, students shall be able to

1. Explain the nature and attributes of universe of knowledge.

2. Elaborate meaning and types of subjects and modes of subject formation
3. Understand the salient features of major classification schemes
4. Understand the main and added entries of library catalogue
5. Understand and various approaches of deriving subject headings
6. Explain the normative principles and current trends in library cataloguing
7. Know the standards for bibliographic interchange and communication

UNIT 1st

Universe of Knowledge

- Structure and attributes
- Modes of formation of Subjects
- Different types of Subjects
- Universe of Subjects as mapped in different Schemes of classification

UNIT 2nd

Bibliography Description

- Catalogue –purpose, structure and types, physical forms including OPAC, filing rules
- Normative Principles of Cataloguing
- Overview of principles and practice in document description
- Current trends in standardization ,description and exchange
- Standard codes of cataloguing, CCC & AACR-2

UNIT 3rd

Methods of Knowledge Organization

- General theory of Library Classification
- Normative principles of classification and their application
- species of Library Classification

UNIT 4th

- Standard schemes of Classifications and their features :CC, DDC
- Design and development of schemes of Library Classification
- Trends in Library Classification

UNIT 5th

Subject Cataloguing and MARC-21

- Principles of Subject Cataloguing
- Subject heading lists and their features
- MARC-21-Introduction, Standards, Structure, Tags and Subfields

Paper Code: BLC 103

Document Processing: Practice (DDC and AACR-2R)

Max. Marks: 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1 | To prepare the students for classifying the books with the help of the classification schemes.

2	To explore the feature of DDC.
3	To aware the student about the Practical aspect of making the Catalogue cards of the book available in the library.
4	To explore the feature of AACR-II

COURSE OUTCOME: After studying this paper, students shall be able to

1. Construct class number for documents with simple, compound and complex subjects
2. Synthesize class numbers by using the DDC – 19th ed.
3. Be able to use schedule, tables and index of the classification scheme.
4. The student will get knowledge of how to use relative index in classification scheme
5. Knowledge of the catalogue codes and standards and create library catalogue
6. Prepare catalogue entries for various types of information sources
7. Derive subject headings using sear's list of subject heading.

Part-1

Classification of Documents (DDC19th ed.)

- Introduction to DDC 19th Edition
- Steps in Classification
- Use of Tables
- Use of Relative Index

Part-2

Cataloguing – AACR 2R

- Works of Single and Shared Authorship
- Editorial Publications and Pseudonymous
- Corporate Authorship
- Multivolume and Serial Publications

Paper Code: BLC 104

Information Technology: Basic (Theory)

Max. Marks: 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1	To understand the structure of computer and functions of its various units
2	To teach the automation in library housekeeping operations and services
3	To provide an understanding of various library management software's
4	To know the features of telecommunication channels, modes, media, modulation, standards and protocols.
5	Able to solve problems related to internet, search engines and network security

COURSE OUTCOME: After studying this paper, students shall be able to

1. Understand the structure of computer and functions of its various units
2. Plan and implement automation in library housekeeping operations and services
3. Evaluate various library management software's.
4. Identify and state the features of telecommunication channels, modes, media, modulation.




standards and protocols.

5. Highlight the nature and components of computer networks and their protocols and standards
6. Discuss of internet, search engines and network security. Examine the concept of library networks and highlight the types and importance

UNIT 1st

Fundamentals of Computers:

- Concept, Generations, Types, Hardware
- Units of Computers. Arithmetic and Logic Unit, Control Unit, Input and Output Unit, Memory Unit

UNIT 2nd

Software: System Software, - Operating Systems

- Ms-Windows, UNIX and LINUX, Applications Software – MS-Word, MS-Excel and MS-Power Point
- Introduction to Programming Languages

UNIT 3rd

. Library Automation

- Definition, Purpose and Historical Development
- Planning and Implementation of Automation in Housekeeping Operations,
- Library Management Software : Proprietary, Free and Open Source, Software (FOSS), Evaluation
- Assistive Techniques Bar code, QR Code etc

UNIT 4th

Telecommunication Techniques:

- Transmission Channels, Mode, and Media, ISDN, PSDN
- Modulation, Frequency, Bandwidth and Multiplexing
- Standards and Protocols
- Wireless Communication : Media, Wifi, Lifi, Satelite Communication, Mobile Communication

UNIT 5th

Computer Networks and Library Networks:

- Computer Networks : Concepts, Need, Topologies, Types, LAN, MAN, WAN
- Internet Web Browsers, WWW, E-mail, Search Engines (Meta & Entry), Internet Protocols and Standards and Search Strategies.
- Introduction of Data Security and Network Security, Techniques, Anti-virus software, Anti-spyware, Intrusion Detection System
- Library Networks : Concept, History, Need, Types (Regional, National, International)



Paper Code: BLE 101
Project Work: Field Survey

Max. Marks : 100

COURSE OBJECTIVE: The Objective of teaching this paper is

1	to expose the students with the real working environment of a library by assigning them a topic related with the library operations
2	to train them in preparing the state-of-the-art report on the assigned area of study

COURSE OUTCOME: After studying this paper, students shall be able to

1. Understand the functions and routine work of a library and information centre
2. Understand the establishment and management of a library system.

Project Work: Field Survey

- A. Report on Field Survey
- B. Viva-Voce

Paper Code: BLE 102
Data Analysis (Practical)

Max. Marks: 100

COURSE OBJECTIVE: The Objective of teaching this paper is

1	To provide Practical skills and command of data analysis system.
2	To understanding the hands on practice of MS Office.
3	To be able to create the different kinds of Charts and Graphs.

COURSE OUTCOME: After studying this paper, students shall be able to

1. Understand to create effective spreadsheet.
2. Create dynamic report with excels.
3. Manage sets of data.

UNIT 1st

Introduction to data analysis using spreadsheet.

UNIT 2nd

Getting started with using excel spreadsheets.

UNIT 3rd

Creating charts and graphics

UNIT 4th

Analysis data using spreadsheets

UNIT 5th

Final Project



Paper Code: BLS 101

Skill Development

Personality Development & Soft Skills

Max. Marks: 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1	To be able to understand concept, role and types of personality development.
2	To be able to understand communication and written communication skills.
3	To aware the student about Interview Techniques
4	To know concept of various digital learning skills.

COURSE OUTCOME: After studying this paper, students shall be able to

1. Demonstrate a set of basic skills in Personality Development & Soft Skills.
2. Display an ability to understanding of change processes and be able to think critically about obstacles to change.
3. Display an ability to express oneself fairly, clearly and correctly.
4. Students will understand and be able to use a process for decision making.
5. The student will be trained in such a way that he will develop life-long learning abilities to cope with the objectives of his concern throughout his life.

UNIT 1st

Personality Development

Concept of Personality, Role and Impact of Personality in Society, Types of Personality, Importance and values of Psychology, Psychological Hindrances and Barriers on Mental and Physical level. Self Assessment and Psychometric Analysis - SWOT analysis, Identification and modification of SELF, Social factors influencing the Personality.

Behavior Modification- Strategies for Stress Management.

UNIT 2nd

Communication

Process of Communication, Types of Communication- Verbal Nonverbal, Barriers of Communication, Techniques to reduce barriers,

Listening Skills (5Ws & 1H), Group Discussion (Activity),

Presentation Skills & Preparation (Public Speaking training - Activity)

Written Communication skills- Different types of letters- Sales letters, Order letters, Complaint letters, Adjustment letters, Inquiry letters, Follow-Up letter, Letters of Recommendation, Acknowledgment letters.

UNIT 3rd

Self Motivation- Aims, Objectives, Significance, Values, how to boost motivation and goal setting. Priority Matrix.

Interpersonal Skills - Concept, Synergy, Coping Mechanism & Strategies, Developing Empathy, Attitude of Gratitude, Creative Problem-Solving Training.

Dealing with the colleagues in professional Environment, Work-life balance training, Assertiveness & self confidence. Organizational skills.

UNIT 4th

Interview Techniques (Direct and Indirect),

Presentation Anxiety,

Time Management,

Resume Writing & Curriculum Vitae.

Enhancing Confidence level for Interview, Mock Interview Training

Body Language – Kinesics, Attire,

Soft-skill training- Manners & Etiquettes

UNIT 5th

Interview Techniques (Direct and Indirect),

Presentation Anxiety,

Time Management,

Resume Writing & Curriculum Vitae.

Enhancing Confidence level for Interview, Mock Interview Training

Body Language – Kinesics, Attire

E- Learning and awareness about its pros and cons.

Second Semester

Paper Code: BLC 201

Management of Library and Information Centers

Max. Marks: 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1	To know make the students aware about the management system of the library and the library management procedure
2	To be able to understand the different kinds of Library Management
3	To teach the concept of Financial Management and Human Resource Management.
4	Maintain the library statistics and prepare annual report.

COURSE OUTCOME: After studying this paper, students shall be able to

1. Understand the Fundamentals of Management.
2. Understanding the policies and Process of Libraries, routine activities of libraries.
3. Assimilate the concept of Financial Management and Human Resource Management.
4. To make the Students understand the Management technique in organisation of library and information centers.

UNIT 1st

Concept of Library Management:

- Meaning, Definition, Scope and Management function
- Principle of Scientific Management and their application
- School of Thoughts
- Library Organisational Structure
- Library Governance
- Change Management Basics of TQM



UNIT 2nd

Financial and Human Resource Management

- Library Finance: Source, Library expenditure, Method of Financial estimation.
- Financial Management : Budgeting techniques, Accounting and Auditing
- Financial Resource Planning : Job analysis and description, Selection, Training, Development and Staffing pattern (Ranganathan's Staff formula and UGC guidelines)
- Motivation, communication and participation

UNIT 3rd

Collection Development and Resource Management

- Book selection theories, Weeding Policies and Procedure
- Selection Tools: Books, Non-Books and Serials Acquisition Procedure of Books and Periodicals.
- Periodical Registration System
- Library Building and Space Management

UNIT 4th

Library Housekeeping operations

- **Technical Processing** : Procedures and Routines (Physical processing, Classification, Cataloguing, Card Filing etc.)
- **Circulation Work**: System, Functions
- **Maintenance**: Shelving, Stock Verification, Binding and Presentation Crisis Management

UNIT 5th

Marketing Management

- Marketing of Information Products and Services : Purpose, Concept , Organisation and Categories
- Marketing Mix : Market Research, Segmentation, advertising (Methods and Approach), Management Consultancy
- Marketing Skills

Paper Code: BLC 202

Information Sources, Products and Services

Max. Marks: 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1	To be able to understand the different types of information sources, e-books, databases and institutional repositories.
2	To Evaluated various types of information sources.
3	Complete Knowledge about electronic resources.
4	To be able to understand the different between Primary, Secondary and Tertiary Sources.



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COURSE OUTCOME: After studying this paper, The student will acquire the knowledge of

1. Different types of information sources, e-books, databases and institutional repositories.
2. Evaluation various types of information sources
3. Access to the electronic resources
4. Nature and functions of various national and international information systems and networks
5. Concept of library resource sharing and consortia

UNIT 1st

Information Sources :

- Nature, Characteristics, Types and Formats
- Primary, Secondary, and Tertiary Sources of Information
- Documentary and Non-Documentary Sources
- Institutional and Human Resources

UNIT 2nd

Reference Sources and Information Sources

- Reference Sources : Characteristics, Types, Usefulness
- Electronic Sources, E-books, E-journals, ETDs
- Subject Gateways, Web Portals, Brilliant Boards, Discussion Group/Forum, Multimedia Resources
- Databases
- Institutional repositories
- Evaluation of Reference Sources and Electronic Information Sources

UNIT 3rd

Electronic Information Sources

- Reference Service Concept, Purpose, Types, Theories
- Alerting Services, Current Awareness Service (CAS), Selective Dissemination of Information (SDI), Translation Services
- Document Delivery Services, Inter Library Loan (ILL) Service
- Online Services: Instant Messaging, RSS Feeds, Ask a Librarian, Mobile Based Library Services and Tools.
- Collaborative Services : Social Networks, Social Tagging, Social Bookmarking

UNIT 4th

Information Systems and Networks National

- Information Systems : Characteristics, Functions
- National Information Systems and Networks, NISCAIR, DESIDOC, SENDOC, NASSDOC, ENVIS, NICNET, ERNET, National Knowledge Network (NKN)

UNIT 5th

Information Systems and Networks International



- International Information Systems and Networks : INSPEC, MEDLARS, AGRIS, INIS, BIOSIS, ERIC, Patent Information System (PIS), Biotechnology Information System (BIS)
- Library resources sharing and consortia

Paper Code: BLC 203

Document Processing: Practice (CC and CCC)

Max. Marks: 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1	To prepare the students for classifying the books with the help of the colon classification schemes.
2	To explore the feature of CC.
3	To aware the student about the Practical aspect of making the Catalogue cards of the book available in the library.
4	To explore the feature of CCC.
5	To teach different types of catalogue card using CCC.

COURSE OUTCOME: After studying this paper, students shall be able to

1. Construct class number for documents with simple, compound and complex subject
2. Synthesize class numbers by using the CC6th revised edition.
3. Be able to use schedule, tables and index of the classification scheme.
4. The student will get practical knowledge of CCC.
5. Knowledge of the catalogue codes and standards and create library catalogue
6. Prepare catalogue entries for various types of information sources

Part 1

Classification of Documents (CC 6th Ed.)

- Introduction, Structure and Organisation
- Steps in Classification
- Classification of Documents with Basic Subjects
- Classification of Documents with Compound Subjects

Part 2

Cataloguing of Documents (CCC)

- Works of Single and Shared Authorship
- Editorial Publications and Pseudonymous
- Corporate Authorship
- Multivolume and Serial Publications

Paper Code: BLC 204

Information Technology: Basic (Practice)

Max. Marks: 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1	To provide Practical skills and command of operating system.
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2	To understanding the hands on practice of library software SOUL.
3	To be able to understand the different kinds of Library Problems.
4	To know the Complete Development about Library Automation.
5	To develop an understanding concept of library networks and highlight the types and importance

COURSE OUTCOME: After studying this paper, students shall be able to :

1. Understand the structure of computer and functions of its various units
2. Plan and implement automation in library housekeeping operations and services
3. Evaluate various library management software's
4. Identify and state the features of telecommunication channels, modes, media, modulation standards and protocols.
5. Highlight the nature and components of computer networks and their protocols and standards
6. Examine the concept of library networks and highlight the types and importance

UNIT 1st

Use of Operating Systems

UNIT 2nd

Word Processors, spread Sheets

UNIT 3rd

Database Creation Using SOUL Software

UNIT 4th

Database Search and Retrieval

Paper Code: BLC 205

Internship Programme

Max. Marks : 100

COURSE OBJECTIVE: The Objective of teaching this paper is

1	to train the students in practical librarianship in the working environment of the library by deputing them in different types of libraries for a period of one month
2	to train them in preparing the Internship Report in a prescribed format based on their practical training and learning.

COURSE OUTCOME: After studying this paper, students shall be able to :

1. Understand the real working environment of libraries.
2. Understand the various technical functions done in library
3. tackle the practical problems providing various library and information services.

Internship Programme

A. Report on Internship Programme

B. Viva-Voce

[Handwritten Signature]

Note: Each student shall have to undergo an Internship Programme at a library, selected by the Department for a period of one month, immediately after the Second Semester Examination

Paper Code: BLS 201

Skill Development

Entrepreneurship Development

Max. Marks: 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1	To be able to understand need and importance for entrepreneurship development.
2	To be able to understand Employment and its various forms.
3	To aware the student about government schemes and business assistance.
4	To know concept of various forms of small businesses.

COURSE OUTCOME: After studying this paper, students shall be able to

1. Demonstrate a set of basic skills in Entrepreneurship Development.
2. Display an ability to understanding of change processes and be able to think critically about obstacles to change.
3. understand and be able to use a process for decision making.
4. Understand their role as a team player and how to manage conflict or opposition.

UNIT 1st

Concept of Entrepreneurship

Different forms of entrepreneurship.

Need and importance for Entrepreneurship Development: Enhances creativity and innovation, Builds self Confidence in people, Serves as a tool for nation building, Serves as the engine of growth For the nation's economy.

Reasons of entrepreneurships hold be developed in a country:

- a. Employment generation.
- b. Increased national production.

Re-investing national resources

UNIT 2nd

Meaning of Entrepreneur,

Difference between Entrepreneur and Owner of a Business,

Characteristics of an Entrepreneur,

Development of Entrepreneurial Skills,

Factors affecting Entrepreneurship e. g. Environment immediate, family-friends, Community, national, international, Financial, Displacement, etc.

Role of Entrepreneurs towards development e.g. Government, Society

Families and friends, The stake holders like financial institutes

UNIT 3rd

Employment and its various forms

Types of Employment- Wage employment & Self employment. Characteristics, advantage and disadvantage of wage and self employment.

Self-Employment, opportunities for self-employments



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Role of Government and various agencies towards the development of self-employment opportunities

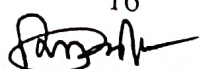
UNIT 4th

Small Businesses: its meaning, features and importance, various forms of small businesses, importance of small businesses towards self-employment generation and socio-economic development, challenges / problems faced by small business organizations, Business environment, role of various central, state and non-government agencies towards development of small businesses service providers in India, DIC, MSME, NSIC, SIDCO, financial Institutions & Banks

UNIT 5th

Registration of business, its procedure and problems,
Product management: designing, branding, merchandizing, research and development, IPR, Patent, Copyright. Introduction to Copyright. Rules & Norms of The Government to run a business.
Government schemes and business assistance: financial loan / place / Training / subsidiary etc.
Industrial visit.
Workshops & Training - Planning & Proposal of a Business.
Product Branding & Marketing Training
Online trading Strategies & Marketing Skills Development.



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Department of Library & Information Science Rani Durgavati Vishwavidyalaya, Jabalpur

GUIDELINES, REGULATIONS AND SCHEME OF EXAMINATION UNDER CBCS (w.e.f. 2021-22)

MASTER OF LIBRARY AND INFORMATION SCIENCE

M.Lib.I.Sc.

(1 Year /2-Semester Scheme)

A. Programme Details

Name of the Department	:	Department of Library and Information Science
Faculty	:	Faculty of Arts
Subject	:	Library and Information Science
Name of the Programme	:	M.Lib.I.Sc. (Master of Library and Information Science)
Duration of the Programme	:	1Year divided into 2 Semesters

B. Objectives of the Programme

1. To familiarize students with basic concepts of information and its communication in society.
2. To learn advanced information processing techniques and develop capability in retrieving information by applying different search techniques.
3. To acquaint students with the activities and services of different information systems and introduce the repackaging and consolidation techniques.
4. To facilitate research in the field of Library and Information Science.
5. To identify and learn the major issues in the development of new technology in the libraries.
6. To develop skills in using computer and communication technology; and
7. To introduce modern management techniques to students to manage Libraries and Information Centres effectively.

C. Eligibility for Admission to the Programme

Candidates who have passed B.Lib.I.Sc. or equivalent examination with 50% marks from recognized university,

In case of candidates belonging to reserved category, relaxation in the percentage of mark shall be as per the University Guidelines issued from time to time.

D. Intake: Fifty (50)

E. Attendance

Minimum attendance for keeping a semester is 75% of the total number of theory and practical periods in each Semester.

(A) Evaluation of dissertation /Project Report of 60 marks

(B) Viva Voce examination on dissertation /Project report out of 40 Marks .

Total marks allotted 100.

(C) Viva Voce Examination will be conducted by a panel of examiners consists of one External Examiner & One Internal Examiner both nominated by the V.C., for nomination external examiner & Internal examiner of dissertation /Project report HOD will propose panel of examiners to the V.C. but in case of Internal Examiner of Dissertation/ project report, HOD will propose a single name of one of the teachers of the department.

(D) Other examination rules of the university, besides above will also be applicable M.L.L.Sc. program .

SYLLABUS AND EXAMINATION PATTERN

Semester Ist

Papers Code	Title of the Papers	Maximum Marks		Total Marks	Credit
		CCE	End Semester		
MLC 101	Information and Communication	40	60	100	4
MLC 102	Information Retrieval	40	60	100	4
MLC 103	Research Methods and Statistical Technique	40	60	100	4
MLC 104	Information Technology : Applications (Theory)	40	60	100	4
MLE 101 MLE 102 MLE 103	Elective (any one) 1.Academic Library Information System 2.Public Library Information System 3.Special Library Information System	40	60	100	4
MLS-101	Skill Development	40	60	100	2
CVV	Comprehensive Viva-Voce	-	-	100	4

Semester IInd

Papers Code	Title of the Papers	Maximum Marks		Total Marks	Credit
		CCE	End Semester		
MLC 201	Information Analysis, Repackaging and Consolidation	40	60	100	4
MLC 202	Knowledge Organization & Information Processing, Classification & Cataloguing -Practice	40	60	100	4
MLC 203	Information Technology : Applications (Practice)	40	60	100	4
MLE 201 MLE 202	Elective (any one) 1. Preservation and Conservation of Library Materials 2. Dissertation/Project report	40 -	60 -	100 100	4
MLS-201	Skill Development	40	60	100	2
CVV	Comprehensive Viva-Voce	-	-	100	4

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Note: The class test, assignment, seminar shall be conducted in respect of each theory and practical paper (wherever applicable) for the purpose of awarding CCE marks.

FIRST SEMESTER

Paper Code: MLC 101

INFORMATION AND COMMUNICATION

Max. Marks : 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE : The Objective of teaching this paper is

1. To be able to understand the concept and importance of information communication.
2. To provide an understanding of Intellectual Property Act and their types.
3. To Know the role of various library promoters at the national and international level .
4. To develop an understanding of principles and canons of cataloguing and classification.

Learning Outcomes: After studying this paper, students shall be able to:

1. Understand the Concept and Importance of information communication
2. Understand Intellectual Property Act and their types.
3. Know the role of various library promoters at the national and international level
4. Know about the normative principles and canons of cataloguing
5. Know about the normative principles and canons of classification

UNIT: 1

INFORMATION AND COMMUNICATION

- Information : characteristics ,Nature ,Value, and Use of Information
- Conceptual difference between Data ,Information and Knowledge
- Communication of Information : Information Generation
- Communication channels ,models and barriers
- Trends in scientific Communication

UNIT: 2

INFORMATION SCIENCE

Definition, scope and Objectives

Information Science as a discipline and its relationship with other Subjects

UNIT: 3

Library Information and Society

- Genesis and characteristics and implications of Information Society
- Changing role of Library and Information Centers in Society
- Information Industry -Generators, Providers and Intermediaries

UNIT: 4

Policies relating to Information

- Intellectual Property act, Right to Information Acts
- Concept of freedom. Censorship, Data Security and fair Use
- Policies relating to Information, Right to Information Including Science and technology Education
- International and National Programmes and Policies (NAPLIS) IT and Library UAP, UBC



UNIT: 5

Knowledge Management

- Modes of Formation of Subjects ,
- Library Classification –Canons and Principles ,
- Library Classification Schemes -DDC,UDC, CC ,
- Library Cataloguing – Canons and Principles .
- Library Cataloguing Codes –CCC and AACR-II

Paper Code: MLC 102

INFORMATION RETRIEVAL

Max. Marks 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE : The Objective of teaching this paper is

1. To provide an overview of Information Retrieval.
2. To introduce students about insights of the several topics of Information retrieval .
3. To be able to understand the Cataloguing
4. To provide comprehensive details about various Evaluation methods.

Learning Outcomes: After studying this paper, students shall be able to

1. Understand the Concept, Role and Importance of Information Retrieval.
2. Understand Cataloguing and Subject indexing.
3. Know the role of various types of Indexing.
4. Evaluate various Vocabulary Control Tools.

UNIT: 1 Cataloguing & Subject Indexing

Cataloguing & Subject Indexing: Principles and Practices

Principles of Subject Cataloguing: Assigning Subject Headings, Library of Congress Subject

Headings and Sears List of Subject Headings

Models –Assigning and Derived

UNIT: 2 Indexing Languages and Vocabulary Control

Indexing Languages: Types and Characteristics Vocabulary Control Tools of Vocabulary control

UNIT: 3 Pre & Post Coordinating Indexing Systems and Citation Indexing

Trends in automatic Indexing

Structure and Construction of an IR Thesaurus

UNIT: 4 INFORMATION RETRIEVAL


IR Models, search strategies; Manual /Machine, Feedback and Refining

Evolution of Information Retrieval Systems. Projects and Parameters

Trends in IR Models

UNIT: 5 Bibliographical Records

Bibliographical Description, Principles and Evaluation of Bibliographical



Paper Code: MLC 103

RESEARCH METHODS AND STATISTICAL TECHNIQUES

Max .Marks 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1. To be able to understand the Concept and Importance of Research.
2. To develop an understanding of Research Design.
3. To know about principles and methods of research.
4. To introduce with the data analysis and graphical presentation.

Learning Outcomes: After studying this paper, students shall be able to:

1. aware about implications of research and confident to take up research
2. Understand the research design.
3. know about principles and methods of research.
4. Know the role of data analysis and graphical presentation.

UNIT: 1 RESEARCH

Concepts, Meaning, Need and process of Research Types of Research –Fundamental and Applied including inter disciplinary and multidisciplinary approach Research and development of Scholarship

UNIT: 2 RESEARCH DESIGN

Conceptualization and operationalisation, Types of research design, Identification and formulation of problem, Hypothesis; Nominal and operational definition, Design research proposal , Ethical aspects of research ,Literature search -Print, Non print and electronic sources

UNIT: 3 RESEARCH METHODS

Scientific, Historical, Descriptive, Survey method and case study method, Experimental method and Delphi method, Research techniques and tool

Questionnaire, schedule, interview, observation, scales and check lists library records and report sampling techniques

Research reporting, Structure, style, Contents, Guidelines for Research Reporting, E- Citation and methods of research Evaluation.

UNIT: 4 DATA ANALYSIS AND INTERPRETATION

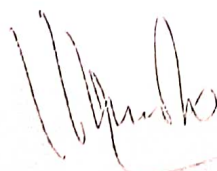
Descriptive statistics –measure of central tendency: Mean mode: median

Tabulation and generalization . Measures of dispersion ,variance and covariance, standard Deviation Graphical presentation of data-bar ,Pie-line graphs ,Histograms .

Inferential statistics, Z-T test –Correlation, Regression –Linear and Non Linear .chi square Sociometry

UNIT 5 :

Statistical packages-SPSS, Statistical Graphics.



Paper Code: MLC 104

INFORMATION TECHNOLOGY: APPLICATION (Theory)

Max.Marks:100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1. To understand the Library Automation.
2. aware about the various consortia and consortia-based resources

Learning Outcomes: After studying this paper, students shall be able to

1. Understand the structure of computer and functions of its various units
2. Plan and implement automation in library housekeeping operations and services
3. Evaluate various library management software
4. Identify and state the features of telecommunication channels, modes, media, modulation, standards and protocols
5. Highlight the nature and components of computer networks and their protocols and standards
6. Discuss of Internet, search engines and network security

UNIT: 1 LIBRARY AUTOMATION

Planning and implementation and library automation, Automation, In House operations- Acquisition Cataloguing, Circulation Serial Control, OPAC, Library Management, Multilingual Bibliograph Databases, Library Automation Software Packages: Their study and Composition

UNIT: 2 Communication Technologies

Fundamentals of Telecommunication Technology; Media, Mode and Components NETWORK Media, UTP, Optical Fiber, Ethernet, Network Interface card, Hub, Routers modem Network Types and Topologies LAN, MAN, WAN, BUS, Star, Ring, Token Ring, Local Area Network-Types and Topologies

UNIT: 3 INTERNET Basic Features and Tools

Network base Information services, Connectivity: Dial up, Leased Lines, ISDN, Digital Subscriber lines E-Mail, SMTP, Wireless send mail, POP3CK, Protocols –FTP, HTTP, Unit 4 Web Browser; net scope, navigator, internet explorer, Web server, web tools, search Engine INTERNET security, Teleconferencing, tele facsimile, teletex, Videotex

UNIT: 5 DIGITAL LIBRARIES

Genesis, Definition, Objectives, Scope of Digital Libraries, Image formats, Audio Formation Storage Media Formats -180-9660-DVD . Software and Hardware for Digital Libraries . OC Image, Editing Software, Input capture devices, scanners, Digital, movies cameras, Data warehousing, Data Mining and Meta data.

International standards –ISBDs MARC and CCF Databases Search Strategies, Boolean operators

Paper Code: MLE 101

Elective: (any one)

Academic Library and Information System

Max. Marks 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE : The Objective of teaching this paper is

1. To know Academic Libraries and Higher Education system.
2. To know the Resource Sharing programmes.
3. To understand the collection development policies of academic libraries.
4. To make the students conversant with organization, functions, building, user oriented collection and services in academic library.

Learning Outcomes :After studying this paper, the students shall be able to:

1. Understand the nature and functions of Academic Library and Media Centre
2. Evaluate library finance and budgeting
3. Understand the nature and role of Academic network
4. Provide various types of library services to students.

Unit 1

- Academic Libraries. Meaning, Objectives and Functions. Types of academic Libraries. Role of UGC in academic Library development.
- Collection development and collection management – Book selection principles and policies, procedures and problems.

Unit 2

- Academic Library services: Virtual Reference Services, Documentation and Informatic services, Current awareness services, SDI services. Abstracting and Indexing services, Informatic product development services, ILL document delivery services. Literature survey and bibliography.

Unit 3

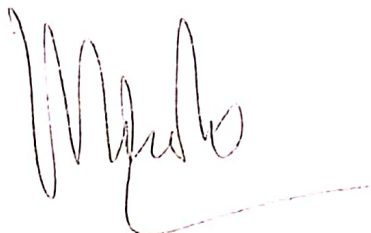
- Academic Library Finance and Budgeting.
- Human Resource Management.
- Library Buildings and Equipments.

Unit 4

- Academic Library networks. Library co-operations: Resource sharing, networks and consortia International and National scenario. Academic networks: INFLIBNET and its services and activities.

Unit 5

- General principles of Library and information management. library and information personnel, finance, collection development and library information services.



Paper Code: MLE 102

Public Library and Information System

Max. Marks 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE : The Objective of teaching this paper is

- 1.To know Public Libraries and their Information System.
2. To understand the collection development policies of Public libraries.
- 3.To understand organization, functions, building, user oriented collection and services in public library.

Learning Outcomes : After studying this paper, the students shall be able to:

1. Understand the nature and role of Public Libraries and Information Systems
2. Explain the role of government and other agencies in the development of libraries
3. Perceive the role of public library in the promotion of formal and informal education
4. Select, acquire, organize and manage public library collection
5. Offer extension and outreach services to different categories of users

Unit 1

- Meaning and definition, origin, objectives, and functions of Public Libraries, History and Development of Public Libraries in India and other countries. Role of Public Libraries in 21st century. Role of government and non-government agencies in the development of public Libraries. Role of public Library in literacy and mass education. Public Library users.

Unit 2

- Public Library Finance and Budgeting: Source of public Library finance, Administration of Budget. - Study of public Library legislation: Need and importance. An overview of Public Library Acts in USA, and other countries. Public Library Acts in different states with emphasis on M.P. State Public Library Act.

Unit 3

-Public Library Services: Planning and Organization of various types of Information services to different categories of users including the physically and mentally challenged persons and special groups: women and children.

Unit 4

Rural Library Services; Need and importance; Library users in rural areas. Library services to rural public.

-Library publicity, exhibition, seminar, book talks, A.V. programs; Mobile Library Services; user awareness programmes. Outreach activities.

Unit 5

- Role of national and international associations and organizations in the promotion of public Libraries.

Raja Ram Mohan Roy Library Foundation, UNESCO, IFLA etc. Internet Public Library

Paper Code: MLE 103

Special Library and Information System

Max. Marks 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1. To know Special Libraries and their Information System.
2. To understand the collection development policies Special of libraries.
3. To understand organization, functions, building, user oriented collection and services in Special library.

Learning Outcomes : After studying this paper, the students shall be able to:

1. Understand the nature and role of Special Libraries and Information Systems
2. Explain the role of government and other agencies in the development of Special libraries
3. Select, acquire, organize and manage Special library collection
4. Provide various types of library and information services
5. Offer extension and outreach services to different categories of users

UNIT 1

Growth and development of special education and research in India.

Role of a library in special education research and extension.

Recent growth and development of special libraries in India.

Special information needs of special faculty, research staff extension personnel and stations.

UNIT 2

Specialized collection and Information sources.

special information centers- National & International .

Information Services and products of Science & Technology with special reference to India.

UNIT 3

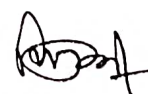
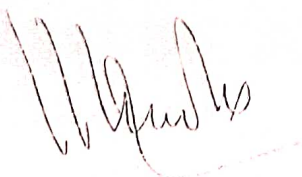
General principles of Library and information management, library and information personnel finance, collection development and library information services .

Unit 4

Information system and services, cooperation, resource sharing and networking in agricultural libraries

Unit 5

Information centers in India. International Database and System. Professional associations.



Paper Code: MLS 101
Skill Development
Development of Leadership Skills

Max. Marks : 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE : The Objective of teaching this paper is

1	To be able to understand concept, role and types of Leadership.
2	To be able to understand Leadership skills.
3	To aware the student about decision making & problem solving.
4	To know concept of Group presentations.

COURSE OUTCOME : After studying this paper, students shall be able to

1. Ability to acquire workable knowledge of Leadership Skills.
2. Ability to acquire considerable proficiency in communication.
3. Technical knowledge with respect to development of Leadership Skills.

UNIT: 1

Leadership

- Leadership and types of leadership styles, Challenges in leadership skills, organizational management.
- Awareness towards Personal Leadership style.
- Traits of Leadership.
- Importance of Work Attitude & Progressive Behavior


UNIT: 2

- Change Leadership & Organizational success
- Role of Leadership in Change management.
- Organizational learning- its importance and techniques, its role in organizational success.
- Administrative Leadership.
- Appreciative inquiry- its processes and stages, How to develop Appreciative inquiry

UNIT: 3

Leadership Skills

- How to strengthen leadership skills through interpersonal skills, team development, communication and skills for managing change.
- Coaching skills.
- Leadership in groups: building and leading efficient teams.
- Conflict management and dealing difficult conversation.
- Communications skills.



- Decision Making & Problem Solving.
- The Leader/Follower Relationship.
- Importance of Trust, Integrity and Ethics

UNIT: 4

Strategic Management

- Creating a vision
- Analyzing the strengths and weaknesses of an organization.
- Learn strategic skills in leadership communication.
- Organizational Design.
- The basics of a planning process.
- Critical leadership skills.

UNIT: 5

- Group presentations.
- Communication Practice

SECOND SEMESTER

Paper Code: MLC 201

INFORMATION ANALYSIS, REPACKAGING AND CONSOLIDATION

Max. Marks 100

Ext. Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1. To know the Information's Traditional and modern trends.
2. To teach about information Analysis and Repacking.
3. To provide an Understanding of Information Products.
4. To know the Information content creation.

Learning Outcomes: After studying this paper, students shall be able to:

1. aware about Information Products and their design.
2. know about types of information disseminat
3. know about Repackaging, consolidation.
4. understand prepare abstract for various types.

UNIT: 1 Dissemination of Information Traditional, modern

Unit 2: Information Products

Information Products, Design and Development of information Products, Marketing

UNIT: 3 REPACKAGING AND CONSOLIDATION

Content analysis

Repackaging, formatting, consolidation

UNIT: 4 Abstracting

Abstracting: Types and Guidelines in preparing Abstract

UNIT -5

Content creation & dissemination including Electronic Content Creation

Paper Code: MLC 202

Knowledge Organization & Information Processing, Classification & Cataloguing -Practic

Max. Marks 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1. To prepare the students for classifying the books with the help of the classification schemes.
2. To explore the feature of UDC.
3. To aware the student about the Practical aspect of making the Catalogue cards of the book available in the library
4. To know solve problems with Sears list of Subject Heading

Learning Outcomes: After studying this paper, students shall be able to:

1. Construct class numbers for documents with simple, compound and complex subjects
2. Synthesize class numbers by using the standard subdivisions/common isolates/auxiliary tables
3. Compile book numbers and be able to use index of the classification scheme
4. Use the catalogue codes and standards
5. Prepare catalogue entries for various types of information sources

Part 1 : Classification Practice

Max. Marks: 30

Duration 1.30 Hours

Classification of Documents by Universal Decimal Classification

Part-2 Cataloguing Practice

Max. Marks: 30

Duration 1.30 Hours

Practical cataloguing is to be done by AACR-2 with LCSH/ sears list of Subject Headings.
(Composite, Multivolume books & Complexities of Periodicals)

Paper Code: MLC 203

INFORMATION TECHNOLOGY: APPLICATION (PRACTICE)

Max. Marks 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1. To create the interest of students on practical skills and Automation software.

2. To provide the practical skill of Web searching.

Learning Outcomes: After studying this paper, students shall be able to:

1. Create, edit and manage files using Word Processing, Spread Sheet and Power Point Presentation software

2. Carry out library housekeeping operations using library management software

3. Generate different types of report using library management software

4. Search information from internet and databases adopting suitable search strategies

UNIT: 1 Creation and maintenance of databases by SOUL and others

UNIT: 2 using of library software packages

UNIT: 3 CD-ROM, online searching, INTERNET Searching

UNIT: 4 Library and Information centre web page design and creation

UNIT: 5 Web Browser: net scope, navigator, internet explorer

Paper Code: MLE 201

Elective: (any one)

Preservation and Conservation of Library Materials

Max. Marks 100

Ext.Marks:60

Viva voice Marks: 40

Learning Outcomes: After studying this paper, students shall be able to:

1. know the concept of preservation and conservation and the role of the librarian in doing so;
2. plan the steps required for preservation of various library materials;
3. understand the methods used for effective preservation in a library;
4. get a clear insight into the techniques of conservation or restoration of book materials.

UNIT -1

Library Materials: Preservation and Conservation

Need for Preservation and Conservation, Historical Development of Writing Materials Palm Leaf

'Birch' Bark: Their Nature and Preservation-Manuscripts, Books, Periodicals, Newspaper

Pamphlets, etc. Non-book Materials

UNIT -2

Hazards to Library Materials and Control Measures

Environmental Factors, Biological Factors, Chemical Factors, Disaster Management

UNIT -3

Binding

Types of Binding, Binding Materials, Binding Process, Standards for Binding

UNIT -4

Restoration and Reformatting, Material Repair

UNIT -5

Microfilming and Digitisation

Paper Code: MLE 202

Dissertation/Project Report

Max. Marks 100

Ext.Marks:60

Viva voice Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1. To develop research skills.
2. To identify and formulate research problems.
3. To develop writing, presentation, communication and analytical skills.
4. To develop ability to apply multi disciplinary, concepts tools and techniques.

Paper Code: MLS 201

Skill Development

Life Skills & Psychosocial Competence

Max. Marks 100

Ext.Marks:60

Int. Marks: 40

COURSE OBJECTIVE: The Objective of teaching this paper is

1	To be able to understand use of creativity in thought and emotions.
2	To be able to understand motivation.
3	To aware the student about health –hygiene and nutrition.
4	To know concept of various relationship .

COURSE OUTCOME: After studying this paper, students shall be able to

1. Ability to acquire workable knowledge of Life Skills & Psychosocial Competence.
2. Ability to acquire considerable proficiency in Cognitive, Emotional & Social balance in ones verbal & non verbal communication style.
3. Ability to acquire Self Motivational & Interpersonal Skills to be an effective goal oriented Life skills.
4. Ability to re-engineer attitude and understand its influence on life.
5. Ability to learn Critical and Creative Thinking Techniques.

UNIT -1

Cognitive, Emotional & Social Development - Thinking in abstract level. Use of flexibility Language. Use of Creativity in their thoughts, Language and Behavioral assessment. Understand wide area of Emotions. Becoming socially responsible.

Critical and Creative Thinking - Inculcating Positive Attitude.

Self-Awareness - Dealing with Anger, Appearance, Sensation seeking behavior, High-risk behavior Facing changes and problems – Alcoholism, Facing Failure, Suicide, Self- Esteem and more.

Behavior Modification- Strategies for Stress Management

UNIT -2

Motivation - Understanding Motivation, Improving Concentration. How to Improve Memory - Strategies to improve Motivation to Study for making life choices. Preparing for Examinations.

Discipline - Television & SocialMedia, Routine & Time Management.

UNIT -3

Health-Hygiene& Nutrition - Eating Habits, Healthy & Unhealthy Food, Myths and Facts about food being clean, Prevention of Infectious Diseases like Anemia, Importance of Hygiene.

Understand Body and Mind – Yogic Benefits, Understanding Body, Soul and Mind, Wet Dreams STD/HIV/AIDS, Sexual Abuse – Work Place, Institutions, Marriage and more.

Counseling on Myths and Misconceptions for Sexuality/ Conception/ Contraception/ Menstruation.

UNIT -4

Relationship - Child-Parent Relationship, Male-female Relationship, Marital Relationship, Peer Pressure, "Saying NO to Addiction" like Smoking, Drinking and more. Bullying, Gender Roles.

Social Responsibility - Recycling - Use Reuse Recycle for Keeping Environment Clean, Impact of Advertisement, Women Education and Entrepreneurship, Domestic Violence, Dowry.

Empathy – Empathy Building Strategies at Personal/ Professional/ Social Level.

UNIT -5

Online Learning Skills and E-Learning Awareness in Contemporary Scenario. ICT. Basics of Learning Management System (LMS), Online Learning Terms Awareness, E- Learning- its positive & negative impacts.

