

तार : विश्वविद्यालय
Gram : UNIVERSITY



टेलीफोन : कार्यालय : 2320496
कुलसचिव : निवास : 2321214
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बुन्देलखण्ड विश्वविद्यालय, झाँसी
BUNDELKHAND UNIVERSITY, JHANSI

संदर्भ BU/Lib & Inf/2022/772A


झाँसी (उ.प्र.) 284128

दिनांक 27/06/2022

The Minutes of Meeting of BOS

In reference to the BOS of department of
..... Institute of Library and Information
..... science, Bundelkhand Univ., held on 27/06/2022 regarding the
revision of syllabus in tune with CBCS/NEP-2020 and subsequent
approval from Academic Council. This is to certify that the syllabus is
100% revised.

^{Ans}
Registrar
Bundelkhand University
JHANSI


HOD/Coordinator
HEAD
Deptt. of Library & Information Science
Bundelkhand University, JHANSI

Summary BOS (2022-23)

DR. S. R. Ranganathan Institute of Library and Information Science

A Meeting of BOS in Library and Information Science was held on 27/06/2022, at 11:00 in Committee hall of administrative block of Bundelkhand University, Jhansi in offline and online mode.

The members were present:

Dr. Ritu Singh (Convenor)

Dr. S. S. Chaukse (External Expert)

Dr (Prof.). M. P. Singh (External Expert)

Dr. (Prof.)A. P. Singh (External Expert)

Dr. (Prof.) Avneesh Kumar (Member NEP Task Force)

Dr. (Prof.) Poonam Puri (Member NEP Task Force)

Dr. (Prof.) C. B. Singh (Dean Arts)

All members discussed and decided that NEP 2020 based CBCS system shall be implemented in both one year courses of Library and Information Science B.Lib & I. Sc. and M.Lib. & I. Sc. Programmes w.e. f. 2022-23.

MASTER OF LIBRARY AND INFORMATION SCIENCE

(M.Lib. & I.Sc).

(One Year Programme of Two Semesters)

Eligibility: Second Class Graduate Degree in B.Lib. & I.Sc.

Intake (Seats): 30

Admission Process: Direct

Syllabus of the Subject: Library and Information Science

(As per guidelines U.P. Government according to National Education Policy-2020)

Effective from - 2022-23

(For both University Campus and Colleges)



**Dr. S. R. Ranganathan Institute of Library and
Information Science**

Faculty of Arts,

Bundelkhand University, Jhansi-284128

MASTER OF LIBRARY AND INFORMATION SCIENCE (MLib.&I.Sc)

(w.e.f. 2022-23)

ONE-YEAR FULL TIME PROGRAMME

FIRST SEMESTER

Paper	Course Code	Course Title	Credits	Sessionals In% age	End Sem. %age	Total
I		Knowledge and Communication	04	25	75	100
II		Information Communication Technology Application Theory	04	25	75	100
III		Research Methods and Statistical Techniques	04	25	75	100
IV		Open Elective – Academic Library System Public Library System Special Library System	04	25	75	100
V		Information Technology Application Practical	02	25	75	100
VI		Knowledge Organization Advance Practice – I(Advance AACR-II Cataloguing)	02	25	75	100
		Field Survey of Libraries and Literature Survey	04	25	75	100
			28			700

SECOND SEMESTER

Paper	Course Code	Course Title	Credits	Sessionals	End Sem. %age	Total
VII		Information Storage and Retrieval Techniques	04	25	75	100
VIII		Information Systems & Programs	04	25	75	100
IX		Marketing of Information Products and Services	04	25	75	100
X		Open Elective Open Source Software Application in Libraries IPR Management in Libraries	04	25	75	100
XI		Digital Content Management and Digital Library Practice	02	25	75	100
XII		Knowledge Organization Advance Practice - II (Depth Classification)	02	25	75	100
		Research Project	04			100
			24			700
		Total Credits: 24(I Sem)+24(II Sem)=48 Credits				

MASTER OF LIBRARY AND INFORMATION SCIENCE

Programme Outcomes:

PO-1: LIS Masters who have completed this program are able to understand LIS foundations, theory, laws, thrust areas and practical areas of the discipline and foster critical thinking, ability to design and develop systems and services that provide access to information.

PO-2: LIS Masters having professional competence through life-long learning such as advanced degrees, professional skills and other professional activities related globally to librarianship & society,

PO-3: LIS Masters would be able to function effectively in a multi-disciplinary environment and individually, within a changing societal and environmental context.

PO-4: LIS masters will be able to apply ethical principles and commit to professional ethics and responsibilities and norms of the Librarianship practice. Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

Programme Specific Outcomes:

PO-1: To integrate theory with practice of Library and Information Science. And create dynamic ways for a variety of users to interact with resources.

PO-2: To analyze information needs to create solutions by applying a variety of tools and technologies;

PO-3: To design and develop systems and ensure the organization, accessibility, and management of library and information resources.

The program includes courses on the theory, practices, perspectives, and tools of management, information technology, education, and other areas to libraries; the collection, organization, preservation, and dissemination of information resources; and the marketing economy of information industry.

MASTER OF LIBRARY AND INFORMATION SCIENCE
(w.e.f. 2022-23)
ONE-YEAR FULL TIME PROGRAMME

FIRST SEMESTER

Paper	Course Code	Course Title	Course Type	Credits	Maximum wt.100%		Total
					Sessionals in%age	End Sem. in%age	
I		Knowledge and Communication	Major	04	25	75	100
II		Information Communication Technology Application Theory	Major	04	25	75	100
III		Research Methods and Statistical Techniques	Major	04	25	75	100
IV		Open Elective – -Academic Library System -Public Library System -Special Library System	Minor Open Elective	04	25	75	100
V		Information Communication Technology Application Practical	Major	02	25	75	100
VI		Knowledge Organization Advance Practice – I(Advance AACR-II Cataloguing)	Major	02	25	75	100
		Field Survey of Libraries and Literature Survey		04	25	75	100
				24			

PAPER I

Programme: M.Lib.&I.Sc.		Programme Code : 1009
Course Code:	Course Title: KNOWLEDGE AND COMMUNICATION (Theory)	
Major Compulsory Theory Paper		Credits:4
Max. Marks: 25+75	Min. Passing Marks:40	

Course Outcomes

After studying this paper, students shall be able to:

1. Explain the nature and attributes of universe of knowledge
2. Illustrate knowledge as mapped in different classification schemes.
3. Aware with the concept of knowledge, information and communication.
4. Illustrate knowledge about various information management systems and information society.
5. Review current trends in Knowledge management in libraries.

UNIT I

- Universe of Subject: Attributes and Structure
- Modes of Formation of Subject
- Different types of subjects
- Universe of Subjects as mapped in major schemes of Library Classification: CC, DDC and UDC
- Modes of thinking: Authority-centered, Speculative and Positivistic

UNIT II

- Data – Definition, Properties, Types and Scope
- Conceptual difference between Data, Information and Knowledge
- Information- Definition, Characteristics, Need, Types
- Theories and Approaches of Information
- Information Diffusion Process

UNIT III

- Information Generation: Modes & Forms
- Communication – Definition & Kinds and Process
- Barriers of Communication
- Channels and Modes of Communication
- Trends in Scientific Communication

UNIT IV

- Knowledge Management: Definition, Concepts,
- Principles and Tools of Knowledge Management
- Role of Librarians in Knowledge Management
- Promoting Agencies of Knowledge

UNIT V:

- Information Society and Information Industry
- Library and Information Policy at the National Level.
- Right to Information in Indian context
- Intellectual Property Rights and Indian copyright Acts
- Recent Trends in knowledge Management

Methodology: Lectures, self study, case studies, assignments, experimental learning exercises

Sessional assessment: will be based on 1.Test 2. Assignment 3.Class attendance.

Recommended Books

- Budd, M. (2001). Knowledge and Knowing in Library and Information Science: A Philosophical. Scarecrow Press. <https://www.amazon.com/>
- Ibekwe-SanJuan, Fidelia., & Thomas M. Dousa. (Eds.). (2014). Theories of Information, Communication and Knowledge: A Multidisciplinary Approach (Studies in History and Philosophy of Science), (1sted.). Delhi: EssEss Publications. <https://www.amazon.com>
- Sehgal, R. L. (2005).An Introduction to Dewey decimal classification. Delhi, EssEss Publications. <https://www.amazon.com>
- Gross, Alan. & Buehl, Jonathan. (Eds.), (2017). Science and the Internet: Communicating Knowledge in a Digital Age (Baywood's Technical Communications). Taylor and Francis. <https://www.amazon.com>
- Augustine, C. A. (2021).Information Science: Information, Knowledge, Communication and Libraries. Delhi, EssEss Publications. <https://www.amazon.in/>
- Sharma,C. K. (2007). Information Technology. New Delhi: Atlantic. <https://www.amazon.in/>
- <https://www.egyankosh.ac.in>
- <http://www.nou.ac.in>
- <https://www.researchgate.net>
- <https://www.guruignou.com>

PAPER II

Programme: M.Lib.&I.Sc.		Programme Code : 1009	
Course Code:		Course Title: INFORMATION COMMUNICATION TECHNOLOGY APPLICATION: THEORY	
Major Compulsory Theory Paper		Credits:4	
Max. Marks: 25+75		Min. Passing Marks:40	

Course Outcomes

After studying this paper, students shall be able to:

- Understand the concepts of Networking and Web technology.
- Aware about different library Software available for Library Automation,
- Gain knowledge about Digital Library, and Content management software.
- Make the students aware about recent trends in libraries.

UNIT I

- Network: Concept, Types, Media, and Topologies,
- Hardware and software of networking
- Data Networks: ISDN, DSL, Broadband, Wireless Networking
- Network based library services
- OSI Network Model and TCP/IP Reference Model.

UNIT II

- Internet: Genesis, Connectivity,
- Internet Protocols and Security.
- Web Browsers, Web Search Engines: Types and Evaluation
- Library Security Technology: Bar Code, RFID, Smart Card and CCTV.
- Federated Search and Multimedia Databases Search.

UNIT III

- Implication of WWW on Library Websites, Web OPACs
- Web 2.0 and Web 3.0: Features and Functions
- Web Directories, Subject Gateways, Library Portals, etc.
- Weblogs (blogs) and Library Blogs
- RSS Feeds Technology

UNIT IV

- Digitization: Concept and Requirements

- Digital Libraries: Genesis, Definition, Challenges
- Planning, and Implementation of DL
- Metadata: Concept, Types, Metadata Standards: Dublin core
- Study of Digital Library Software: GSDL, DSpace, and so on.
- Protocols: Z39.50 Standard for Retrieval and OAI-PMH

UNIT V

- Digital Content Management System
- Institution Repositories
- Functional Requirements for Bibliographic Records (FRBR)
- Artificial Intelligence and Libraries
- Expert Systems in Libraries
- Recent Trends in ICT

Methodology: Lectures, self study, case studies, assignments, experimental learning exercises

Sessional assessment: will be based on 1. Test 2. Assignment 3. Class attendance.

Recommended Reading

- Kurose. (2022). Computer Networking. 8th Ed. New Delhi: Pearson. https://www.ucg.ac.me/skladiste/blog_44233/objava
- Hilal, Ahmed. (2016). Integrated Library Management Systems. EssEss Publication. <https://www.essessreference.com/>
- Evans, Woody. (2009). Building Library 3.0: Issues in Creating A Culture Of Participation. Oxford: Chandos Publishing. <https://catalogue.nla.gov.au/>
- Venkata Ramana, P. (2004). Information Technology Applications in Libraries. New Delhi: EssEss Publications. <https://library.bzu.edu.pk/lincoln/>
- Murthy, T. A. V. & Panwar, Suresh. (2004). Librarian's Guide to WWW, New Delhi: EssEss Publications. <https://www.abebooks.com/>
- Bradley, Phil. (2007). How to Use Web 2.0 In Your Library. London: Facet Publishing. <https://www.sagepub.com>
- <https://www.egyankosh.ac.in>
- <http://www.nou.ac.in>
- <https://www.researchgate.net>
- <https://www.gurugnou.com/>

PAPER III

Programme: M.Lib.&I.Sc.		Programme Code : 1009
Course Code:	Course Title: RESEARCH METHODOLOGY	
Major Compulsory Theory Paper		Credits:4
Max. Marks: 25+75		Min. Passing Marks:40

Course Outcomes

After studying this paper, students shall be able to:

1. Know research methods and data collection techniques.
2. Understand the data analysis & interpretation.
3. Illustrate research methods, data analysis and tabulation.
4. Develop skills to understand the Bibliometric laws.
5. Develop understanding about research method and various types of research, prepare research report

UNIT I

- Concept, Meaning, Purpose of Research
- Types of Research - Fundamental and Applied
- Interdisciplinary and Multidisciplinary Approach
- Trends in LIS Research

UNIT II

- Types of Research Design
- Identification and Formulation of Problem
- Literature Review
- Hypothesis: Definitions, Functions, Sources and Types

UNIT III

- Research Methods & Techniques: Scientific, Historical, and Descriptive Methods
- Survey Methods and Case Study Methods
- Experimental Methods and Sampling
- Data Collection Techniques
- Questionnaire, Interview, Observation, Schedules

UNIT IV

- Presentation of data: Tabular, Graphical & Diagram.
- Descriptive Static-measures of Central Tendency: Mean, Mode and Median

- Measures of Dispersion – Range, Quartile Deviation, Mean Deviation, Variance, Standard Deviation
- Correlation Analysis and Regression Analysis

UNIT V

- Spiral of Scientific Methods (S.R.Ranganathan)
- Bibliometric Studies: Concept and Definition,
- Bibliometric Laws and their Applications
- Scientometrics, Infometrics and Webometrics
- Report Writing ,Types, Structure Style and Contents
- Referencing Styles: APA, MLA etc.

Methodology: Lectures, self study, case studies, assignments, experimental learning exercises

Sessional assessment: will be based on 1.Test 2. Assignment 3.Class attendance.

Recommended Reading

- Hos, Rabia. & Santos, Brenda. (2022). Co-Constructing and Sustaining Service Learning in a Doctoral Program. IGI Global. <https://www.amazon.in/>
- Paul, Dimple Valayil. (2021). Developing a Keyword Extractor and Document Classifier: Emerging Research and Opportunities. IGI Global Publisher. <https://www.amazon.in/>
- Barker Stucky, Carissa & Elufiede, Kemi. (2021). Strategies and Tactics for Multidisciplinary Writing. IGI Global. <https://www.amazon.in/>
- Tshifhumulo, Rendani.&Justice Makhnikhe, Tshimangadzo. (2021). Handbook of Research on Protecting and Managing Global Indigenous Knowledge System. <https://www.amazon.in/>
- Ngulube, Patrick. (2021). Handbook of Research on Mixed Methods Research in Information Science. <https://www.amazon.in/>
- Pandey, Ravindra. (2019). Dictionary of Library & Information Science. 6th Ed. Ramesh Publishing House. <https://www.amazon.in/>
- Singh, Pankaj Kumar. (2014). Discovery Publishing Pvt. Ltd. <https://www.ebay.com/>
- Ray, Joyce M. (2014). Research Data Management: Practical Strategies for Information Professionals (Charleston Insights in Library, Archival, and Research Data Management. Purdue University Press. <https://www.amazon.in/>
- Sharma, C.K. &Singh, Akhil Kumar. (2007).Library & Information Science: analytico/Evaluative Questions and Essay Writing. Vol. 3, Publisher Atlantic Publishers and Distributors (P) Ltd. <https://www.amazon.com/>
- <https://egyankosh.ac.in>
- <http://www.nou.ac.in>
- <https://www.researchgate.net>
- <https://www.guruignou.com>

PAPER IVA

Programme: M.Lib.&I.Sc.		Programme Code : 1009
Course Code:	Course Title: ACADEMIC LIBRARY SYSTEM	
Minor Open Elective Paper	Credits:4	
Max. Marks: 25+75	Min. Passing Marks:40	

Course Outcomes:

After completing this course, the students will be able to

1. Understanding of Academic library system.
2. Know Role of UGC in the Development of Academic Libraries
3. Understand the Academic Library networks.
4. Develop skills to understand the handle the Academic library system.

UNIT-I

- Academic Library: Concept, Meaning and Importance
- Development of Academic Library: Pre and Post Independence Period
- Types of Academic Libraries: Definition, Objective & functions,
- Committee & Commissions as Appointed by Government of India
- Role of UGC in the Development of Academic Libraries

UNIT II

- Library Organization and Management: Organizational Structure of an Academic Library.
- Staff: Nature, Size, Selection, Recruitment, Qualification and Training, Responsibility and duty
- Finance: Determination of Finance, Sources of Finance, Types of Budget Staff Manual, Budgetary Standards for University

UNIT III

- Collection Development: Meaning, Definition, Needs, Purpose & Pre-Requisites
- Collection Development Policy & Procedure, Weeding out Policy & Central Government Rules and Role of Library Governing Bodies in Collection Development.

UNIT IV

- Resource sharing: Concept and its manifestations
- Library networks and Consortia: Types and functions
- INFLIBNET : Its role, objectives, programmes and present status
- Major library consortia initiatives in India
- Problems and Prospects of resource sharing, networks and consortia in India

UNIT V

- Library Authorities: Legislative Authorities, Executive Authorities
- Specific services of Academic Libraries
- Standards, rules ,regulations, guidelines related to Academic Library

Methodology: Lectures, self study, case studies, assignments, experimental learning exercises

Sessional assessment: will be based on 1.Test 2. Assignment 3. Class attendance.

Recommended reading

- Deepak Kumar. (2019). Academic Accreditation in Libraries. SPD. <https://www.shroffpublishers.com/>
- Murugan, M. A. (2019). Academic Library System. SPD. <https://www.shroffpublishers.com/>
- Pennavaria, Katherine. (2015). Genealogy: A Practical Guide for Librarians. Rowman & Littlefield. <https://www.amazon.in/>
- Lee Eden, Bradford (Ed.). (2015). Leading the 21st-Century Academic Library: Successful Strategies for Envisioning and Realizing Preferred Futures. Rowman & Littlefield.<https://www.amazon.in/>
- Lee, Bradford. Eden & Condit Fagan, Jody. (2014). Leadership in Academic Libraries Today: Connecting Theory to Practice. Rowman & Littlefield.
- Matthews, Graham., & Walton, Graham.(2013). University Libraries and Space inthe Digital World. Ashgate Publishing. <https://www.amazon.in/>
- McKnight, Sue. (2010). Envisioning Future Academic Library Services: Initiatives, Ideas and Challenges. Facet Publishing. <https://www.routledge.com/>
- Dawson, Heather. (2011).Know It All, Find It Fast For Academic Libraries.Facet Publishing. <https://www.amazon.com/>
- Dhiman, A.K., & Sinha, S.C. (2002). Academic Libraries.
- Connor, Elizabeth. (Ed). (2008). An Introduction to Instructional Services in Academic Libraries. Routledge. <https://www.routledge.com/>
- <https://www.amazon.com/>
- <https://www.egyankosh.ac.in>
- <http://www.nou.ac.in>
- <https://www.researchgate.net>
- <https://www.guruignou.com>

PAPER IVB

Programme: M.Lib.&I.Sc.		Programme Code : 1009
Course Code:	Course Title: PUBLIC LIBRARY SYSTEM	
Minor Open Elective Paper		Credits:4
Max. Marks: 25+75		Min. Passing Marks:40

Course Outcomes

After completing this course, the students will be able to

1. Understanding of public library system
2. Know Library movement in India with special reference to UP state
3. Understand the knowledge society.
4. Develop skills to understand the handle the Public library system

UNIT I

- Introduction to Public libraries – concept, nature and characteristics
- Role of public libraries in contemporary knowledge society;
- Library movement in India with special reference to UP state
- Public library services and products
- Resource sharing and network activities of public libraries

UNIT II

- Library Organization and Management: Organizational Structure of a Public Library.
- Staff: Nature, Size, Selection, Recruitment, Qualification and Training, Responsibility and Duties
- Finance: Determination of Finance, Sources of Finance, Types of Budget
Staff Manual

UNIT III

- Collection Development: Meaning, Definition, Needs, Purpose & Pre-Requisites
- Collection Development Policy & Procedure, Weeding out Policy & Central Government Rules and Role of Library Governing Bodies in Collection Development.

UNIT IV-

- State Government as an Agency Role
- Central Government as an Agency Role
- Raja Rammohan Roy Library Foundation

- Local Bodies-Municipalities and Panchayats
- UNESCO Public Library Manifesto

UNIT V

- Library Legislation in India
- Model Public Library Bills/Acts in India
- Comparative Study of the Public Libraries Acts
- Standards and norms for public libraries

Methodology: Lectures, self study, case studies, assignments, experimental learning exercises

Sessional assessment: will be based on 1.Test 2. Assignment 3.Class attendance.

Recommended Books

- Kumari, J. Vijaya. (2010). Public Library System. New Delhi: Anmol Publication Pvt. Ltd
- Wan. & Zahid, Ashraf. (2008). Development of Public libraries in India: Library Philosophy and Practice. New Delhi.
- Iyer, V. K. Public Library Systems in India. <https://www.amazon.com/>
- Devarajan, G. Public Library System in India. New Delhi, EssEss Publications. <https://www.researchgate.net/>
- Greenwood. Majumdar, Bhalla, S., Chander, S. C., Ramesh (2003). Compendium of Select Government Reports on Library & Information Services in India. New Delhi: Central Secretariat Library.
- Ramesh Babu, B, (Ed) et al., (2003). National Seminar on New Public Library in the Information Age. Chennai: Foundation for Information and Communication.
- <https://www.abebooks.com/>
- <https://www.egyankosh.ac.in>
- <http://www.nou.ac.in>
- <https://www.researchgate.net>
- <https://www.google.com>
- <https://www.guruignou.com>

PAPER IV C

Programme: M.Lib.&I.Sc.		Programme Code : 1009
Course Code:	Course Title: : RESEARCH AND TECHNICAL LIBRARY	
Minor Open Elective Paper		Credits:4
Max. Marks: 25+75		Min. Passing Marks:40

Course Outcomes

After completing this course, the students will be able to

1. To understand various Technical Activities, Functions and Services in Research and technical Libraries.
2. Awareness its need and purpose
3. Know its different system and structure
4. Awareness its tools and techniques used in Research and Technical Library System

UNIT-I

- Research and Technical Libraries Objectives and Functions
- History and Development of Libraries with Special Reference to India
- Role of Special Libraries and its Relationship with Parent Organization
- Types and Functions of Special Libraries

UNIT II

- Library Organization and Management: Organizational Structure of a Special Library.
- Staff: Nature, Size, Selection, Recruitment, Qualification and Training, Responsibility and Duties

UNIT III

- Collection Development: Meaning, Definition, Needs, Purpose & Pre-Requisites
- Collection Development Policy & Procedure, Weeding out Policy & Central Government Rules and Role of Library Governing Bodies in Collection Development.

UNIT IV

- Finance: Determination of Finance
- Sources of Finance, Types of Budget
- Staff Manual, Budgetary Standards

UNIT V

- Agencies and their Role in the Promotion and Development of Research and Technical Libraries
- Role of Plagiarism in Research and Development

Methodology: Lectures, self study, case studies, assignments, experimental learning exercises

Sessional assessment: will be based on 1.Test 2. Assignment 3.Class attendance

Recommended Reading

- Guy, Robertson. (2020). Disaster Planning for Special Libraries. Elsevier. <https://www.elsevier.com/>
- Sc, Palala. (2015). Special Reference Library of Books Relating To The Blind. Perkins Institution and Massachusetts Press. Palala Press. <https://www.amazon.in/>
- Dhiman , Anil Kumar. (2008). A Hand Book of Special Libraries and Librarianship. New Delhi, EssEss Publications. <https://www.abebooks.com/>
- Dhiman, K. S., & Sinha, C. (2002). Special Libraries. 1 Edition. Neha Publishers & Distributors.
- Singh, S. P. (2005). Special Libraries In The Electronic Environment. New Delhi: Book Well.
- Suzanne, Connolly. (1999). Knowledge and Special Libraries. Taylor & Francis Ltd. <https://www.flipkart.com/>
- Hernon, Peter & Whitman, John R. (2001). Delivering Satisfaction and Service Quality: A Customer-Based Approach for Libraries American Library Association, Chicago.
- <https://egyankosh.ac.in>
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- <https://www.researchgate.net>
- <https://guruignou.com>

PAPER V

Programme: M.Lib.&I.Sc.		Programme Code : 1009	
Course Code:		Course Title: INFORMATION COMMUNICATION TECHNOLOGY APPLICATION: PRACTICAL	
Major Compulsory Practical Paper		Credits:4	
Max. Marks: 25+75		Min. Passing Marks:40	

Course Outcomes:

After completing this course, the students will be able to

1. Understand the concept of ICT with practical approach
2. Understand the need and importance of ICT for access;
3. Creation of web page designing with hands on practice
4. Know the effective use of Internet tool with different type of search strategy
5. Understand the applications of Citation Management Software

UNIT I

- Web Page Designing: HTML & CSS
- Internet: Search Engine
- Databases of various subject areas and their searching

UNIT II

- Library Management System (Open Source and any available Commercial software) KOHA/SOUL
- Digital Library Software : GSDL/D-Space
- Citation Management Software : Zotero / Mendeley

Recommended Reading

- Haruna , Mustapha., & Shrivastava , Deepak Kumar. (2022). An Introduction to Library Automation: Koha Versus Soul. Walnut Publication. <https://www.flipkart.com/>
- Md Eusoff, Ahmed Noor Kader Mustajir., & Md Saleh, Mohd nor Azam. (2022). Installing Koha: Step By Step - (Koha Series) Kindle Edition. <https://www.amazon.in/>
- Sharma, Arun Kumar. (Ed.). (2019). Koha for Beginners. Willford Press Publication. <https://willfordpress.com/>
- Mishra, Vinod Kumar. (2016). Basics of Library Automation, Koha Library Management Software and Data Migration: Challenges with Case Studies Ess Ess Publisher. <https://www.amazon.in/>
- Sirohi, Savitra., & Gupta, Amit. (2010). Koha 3 Library Management System. Packt Publishing Limited. <https://www.amazon.in/>

- Pandey, Shriram. (2010). Developing a Digital Library Software on Lamp Architecture. <https://www.amazon.in/>
- Study of Software Packages for Retrieval of Digital Information: With special reference to Greenstone Digital Library Software.
- Sharma, C. K. (2021). E Library.SPD.
- <https://egyankosh.ac.in>
- <http://www.nou.ac.in>
- <https://www.researchgate.net>
- <https://guruignou.com>

PAPER VI

Programme: M.Lib.&I.Sc.		Programme Code : 1009
Course Code:	Course Title: INFORMATION PROCESSING & RETRIEVAL (ADVANCED CATALOGUE- PRACTICES)	
Major Compulsory Practical Paper		Credits: 2
Max. Marks: 25+75		Min. Passing Marks:40

Course Outcomes:

After completing this course, the students will be able to-

1. Explore advance features of AACR-II.
2. Provide the practical cataloguing skills for various non-print library resources according to AACR-II.
3. Know the assigning the subject headings using standard tools.

UNIT I

- Practical cataloguing of Complex Periodical and documents involving complicated corporate author headings according to AACR-II
- Cataloguing of complicated cases of multivolume works and composite works according to AACR-II.

UNIT II

- Cataloguing of Non-Book Material according to AACR-II- Cartographic material, sound recording, motion pictures, microforms, video recording Computer files, Web Resources, Graphic Materials etc.

Recommended Reading

- Denise, Gonzalez., & Bennett, Beaubien. (2016). 3D Printing: A Practical Guide for Librarians. Rowman & Littlefield.<https://www.amazon.in/>

- Shawl, Rukhshana. (2021). Collection development policies and procedures. Academic Aspirations.
- Lai,C. (2014). Practical Cataloguing AACR-2 Publisher: New Delhi: EssEss Publications. <https://www.essessreference.com/>
- Sharma, C. K. (2007). Granthalaya Sookhikaran. Atlantic Publishers and Distributors (P) Ltd. <https://atlanticbooks.com/>
- Sehgal, R.L. (2002). Cataloguing Manual AACR-II .New Delhi: EssEss Publications. <https://www.essessreference.com/>
- Dhiman, Anil K. (2003).Cataloguing of Non-Book Materials. New Delhi: EssEss Publications. <https://www.essessreference.com/>
- Kaushik, D. K. Cataloguing of Indic Names in AACR-2. Delhi, Low Price Publications. <https://www.lppindia.com/>
- Miksa, Shawne D. (Ed.). Functional Future for Bibliographic Control: Transitioning into New Communities of Practice and Awareness. Routledge. <https://www.routledge.com/>
- <https://egyankosh.ac.in>
- <http://www.nou.ac.in>
- <https://www.researchgate.net>
- <https://guruignou.com>

FIELD SURVEY PROJECT

Objectives:

- (i) To train the students in practical librarianship in the working environment of the library.
- (ii) To train them in preparing the Report in a prescribed format based on their practical training and learning.

Note: - Each student shall have to undergo a field survey of a library, selected by the department for a period given and submit report before starting First Semester Term End Examination.

Marks divided into Report and Viva Voice (75+25)

SECOND SEMESTER

Paper	Course Code	Course Title	Credits	Sessions	End Sem. %age	Total
VII		Information Storage and Retrieval Techniques	04	25	75	100
VIII		Information Systems & Programs	04	25	75	100
IX		Marketing of Information Products and Services	04	25	75	100
X		Open Elective 6899 I- Open Source Software Application in Libraries 6899 II- IPR Management in Libraries	04	25	75	100
XI		Computerized Cataloguing Practical	02	12	38	50
XII		Knowledge Organization Advance Practice - II (Depth Classification)	02	12	38	50
	Research Project		04			100
			24			600

PAPER VII

Programme: M.Lib.&I.Sc.		Programme Code : 1009
Course Code:	Course Title: INFORMATION STORAGE AND RETRIEVAL TECHNIQUES (THEORY)	
Major Compulsory Practical Paper		Credits:4
Max. Marks: 25+75		Min. Passing Marks:40

Course Outcomes:

After completing this course, the students will be able to-

1. Understand the concepts, theories, various types, of IRS
2. Illustrate parameters of Information Retrieval Systems.
3. Make the students aware of the indexing & vocabulary control techniques.
4. Aware about resource searching through print and electronic media.

UNIT I

- Fundamentals of Retrieval System: Nature and Characteristics.
- Objective and Design of Information Storage and Retrieval System.
- Information Storage and Retrieval Models.
- Compatibility and Evaluation of ISAR System
- Thesaurus: Need, Structure and Construction

UNIT II

- Tools of Information Retrieval
- Subject Heading Lists, Indexing, Abstracting,
- On-Line retrieval, Universal Bibliographical Control

UNIT III

- Subject Indexing: Concept and Development.
- Pre-coordinate Indexing System: Chain Indexing, PRECIS and POPSI.
- Post-Coordinate Indexing: Uniterm Optical Coincidence, Edge-notched Card System, KWIC and KWOC. Evaluation of Indexing Systems
- Citation Indexing

UNIT IV

- Search Techniques and Information Retrieval
- Search Strategy: Boolean Operations, Proximity Search, Heuristic Search, Navigational Search etc., Search Process,

M.Lib.& I.Sc.

- Internet Searching and Meta Search Engines

UNIT V

- Man and Machine Retrieval System.
- Data Mining,
- Data Harvesting
- Semantic Web
- Recent Trends in Information Retrieval

Methodology: Lectures, self study, case studies, assignments, experimental learning exercises

Sessional assessment: will be based on 1.Test 2. Assignment 3.Class attendance.

Recommended Reading

- C.K. Sharma. & A. K. (2022). Information Process and Retrieval. Atlantic Publishers & Distributors (P) Ltd. <https://atlanticbooks.com/>
- Chowdhury, G. G. (2021). Text Retrieval Systems in Information Management. New Age International Pvt Ltd. <https://www.amazon.in/>
- Dhotre, I. A. (2021). Information Retrieval Techniques for BE Anna University. Ed. 1st. Technical Publications. <https://www.amazon.in/>
- Heiting, Chu. (2009). Information Representation and Retrieval in the Digital Age. New Delhi, EssEss Publications. <https://www.essessreference.com/>
- Korfhage, Robert R. (2006). Information Storage & Retrieval. Wiley India. <https://www.wileyindia.com/>
- Kowalski, Gerald J., & Maybury, Mark T. (2009). Information Storage and Retrieval Systems: Theory And Implementation Series: The Information Retrieval Series. Springer. <https://link.springer.com/book>
- <https://egyankosh.ac.in>
- <http://www.nou.ac.in>
- <https://www.researchgate.net>
- <https://guruignou.com>

PAPER VIII

Programme: M.Lib.&I.Sc.		Programme Code : 1009
Course Code:	Course Title: INFORMATION SYSTEMS AND PROGRAMMES	
Major Compulsory Practical Paper	Credits: 4	
Max. Marks: 25+75	Min. Passing Marks: 40	

Course Outcomes:

After completing this course, the students will be able to-

1. Understand the concepts, theories, various types, of IRS
2. Illustrate parameters of Information Retrieval Systems.
3. Make the students aware of the indexing & vocabulary control techniques.
4. Aware about resource searching through print and electronic media.

UNIT I

- Information Systems: Basic Concept, Types, Characteristics.
- Different Types of Information Centers: Data Bank, Data Centre, Referral Centre, Clearing House and Invisible Colleges, etc.
- Archives & Translation Pools: Functions & Services

UNIT-II

- Study of National Information Systems in India
- Programmes and Activities of INFLIBNET and DELNET.

UNIT III

- Study of International Information Systems:
- Programmes & Activities of OCLC and IFLA etc.

UNIT IV

- Resource sharing : Concept and its manifestations
- Library networks and Consortia: Types and functions
- Major library consortia initiatives in India E-ShodSindhu, CERA, CSIR e journal etc.
- Problems and Prospects of resource sharing, networks and consortia in India

UNIT V

- Licensing and Agreements
- IPR and Copyright
- Copyright in digital environment
- Plagiarism
- Recent trends

Methodology: Lectures, self study, case studies, assignments, experimental learning exercises

Sessional assessment: will be based on 1.Test 2. Assignment 3.Class attendance.

Recommended Reading

- Popovich, V. (2013). Information Fusion and Geographic Information Systems. Springer.
<https://link.springer.com/book>
- Wallace, Patricia. (2019). Introduction to Information Systems: People Technology and

Processes. 3rd Ed. Pearson India. <https://in.pearson.com/>

Raghuwan, K. S., & Prasad, K. N. Library & Information Systems. New Delhi: EssEss Publications. <https://www.essessreference.com/>

- Sadagopan, S. Sadagopan. (2014). Management Information Systems. Prentice-Hall of India Pvt.Ltd. 2nd Ed. <https://www.phindia.com/>
- Kochtanek, Thomas R. (2002). Library Information Systems.1st Ed. ABC-CLIO.<https://www.flipkart.com/>
- Kochtanek, Thomas., & Matthews, Joseph. (2002). Library Information Systems Imprint Libraries Unlimited Inc. <https://www.bookdepository.com/>
- <https://egyankosh.ac.in>
- <http://www.nou.ac.in>
- <https://www.researchgate.net>
- <https://guruignou.com>

PAPER IX

Programme: M.Lib.&I.Sc.		Programme Code : 1009
Course Code:	Course Title: MARKETING OF INFORMATION PRODUCTS AND SERVICES	
Major Compulsory Theory Paper		Credits: 4
Max. Marks: 25+75	Min. Passing Marks: 40	

Course Outcomes:

After completing this course, the students will be able to-

1. Understand the concept of Marketing and LIS Marketing, its Objectives need and Benefits.
2. Elaborate meaning and types of Relationship Marketing, Service Marketing
3. Highlight salient features of different types of Information Consolidated Products.Aware about recent marketing trends in libraries.

UNIT I

- Marketing: Concept, Definitions, Need,
- LIS Marketing Concept, Objectives and Benefits.
- Marketing Environment, Producer of Inf. Product & Services,
- Marketing Mix and 7ps of Marketing Mix in LIS
- Consumer- Buyer Behavior, Maslow theory of motivation.

UNIT II

- Marketing Strategic Planning

M.Lib.& I.Sc.

- SWOT analysis of Libraries
- Marketing Research: Concept, types, Research Process,
- Product Planning Concept.

UNIT III

- Products and Brand Management
- Market segmentation
- Targeting and positioning the Market
- Relationship Marketing, Service Marketing
- Digital Marketing, E-marketing , Web Marketing

UNIT IV

- LIS Products and Services as a Marketable Commodity
- Packaging and Repackaging: Concept, Need and Purpose
- Information Consolidation Products (ICP): Concept, Need and Purpose.
- Different Types of Information Products.

UNIT V

- Pricing, Distribution Channels and Communication Strategies
- Advertising, Sales Promotion, Public Relations
- Trans-border data flow: agencies in TBDF, types of TBDF, barriers in BDF
- Policies related to Marketing of Information products and services
- Recent trends in LIS Marketing

Methodology: Lectures, self study, case studies, assignments, experimental learning exercises
Sessional assessment: will be based on 1.Test 2. Assignment 3.Class attendance.

Recommended Reading

- Vishesh. (2022). Handbook of Marketing Concepts.. <https://www.amazon.in/>
- Shelley, Merlyn. (2020). Digital Marketing Simplified: Key Digital Marketing Concepts that Everyone Should Know! Kindle Edition. <https://www.amazon.in/>
- Beri, G. C., Kaushik, Arun., & Rahman, Zillur. (2020). Marketing Research. 6th ed. McGraw Hill Publication. <https://www.amazon.in/>
- Vibrant., & Daum. (2020). Callie. Marketing Management Essentials You Always Wanted To Know (Self-Learning Management Series). <https://www.amazon.in/>
- Polge, Mark Aaron. (2019). Library Marketing Basics. Rowman & Littlefield. <https://www.amazon.in/>

- Notess, Greg R. (2012). Screen casting for Libraries. Facet Publishing. <https://www.facetpublishing.co.uk/>
- Zabel, Diane. (2009). Career Paths and Career Development of Business Librarians. Routledge. <https://www.routledge.com/>
- Helinsky, Z. (2008). A Short-Cut to Marketing the Library. Oxford: Chandos Publishing.
- Kies, Cosette (1987). Marketing and Public Relations for Libraries: 10 (The Library Administration Series) Scarecrow Press. <https://www.amazon.in/>
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- <http://www.nou.ac.in>
- <https://www.researchgate.net>
- <https://guruignou.com>

PAPER X A

Programme: M.Lib.&I.Sc.		Programme Code : 1009
Course Code:	Course Title: OPEN SOURCE SOFTWARE APPLICATIONS IN LIBRARIES	
Minor Open Elective Paper		Credits: 4
Max. Marks: 25+75		Min. Passing Marks: 40

Course Outcomes

After completing this course, the students will be able to-

1. Understand the concept of Marketing and LIS Marketing, its Objectives need and Benefits.
2. Highlight salient features of different types of open source software use in libraries.
3. Explain the current trends in open sources software application in libraries.

UNIT I

- Open Source Software (OSS): Overview, Philosophy and Characteristics
- Open Source Vs Commercial Software,
- Open Source Vs Freeware Software
- Licensing Policy: GNU, Open Source Licenses and Free Software.

UNIT II

- Standards: National Information Standards Organization (NISO)
- Digital Library Federation (DLF); Metadata: Dublin Core, MARC
- Resource Description and Access (RDA)
- Open Archives Initiative (OAIPMH)

UNIT III

- Open Source Operating System (e.g., Linux)
- Open Source Library Management Software Vs Proprietary
- Open Source Library Management Software: Koha etc.

UNIT IV

- Digital Library Software and Repository software: DSpace and Green Stone
- Open Source Software for Content Management System (CMS): Drupal and Joomla

UNIT V

- Open Source Software for Learning Management System (LMS): Moodle, ATutor, Claroline, Brihaspati (The Virtual Classroom).
- Image Editing Software
- Recent trends in OSS applications in Libraries

Methodology: Lectures, self study, case studies, assignments, experimental learning exercises

Sessional assessment: will be based on 1.Test 2. Assignment 3.Class attendance

Recommended Reading

- Helinsky, Z. (2008). A Short-Cut to Marketing the Library. Oxford: Chandos Publishing.
- Henning, Klaus. (2020). Game changer AI: How Artificial Intelligence is Transforming our World. 1sted. Springer. <https://www.kobo.com/>
- Anna, Kaushik. (2017). Emerging Trends in Library Information Science. Discovery Publishing House Pvt Ltd. <https://www.amazon.in/emerging-Trends-Library-Information-Science/dp/9350568373>.
- Kochan, Stephen. & Stephen, Stephen. (2016). Shell Programming in Unix, Linux and OS X: The Fourth Edition of Unix Shell Programming (Developer's Library). Addison-Wesley. <https://www.amazon.in/Shell-Programming-Unix-Linux-Developers/dp/0134496000>.
- Cloonan, Michele Valerie. (2014). Preserving Our Heritage: Perspectives from Antiquity to the Digital Age. Facet Publishing. <https://www.amazon.in/Preserving-Our-Heritage-Perspectives-Preservation/dp/1856049469>.
- Rosen, Rami. (2014). Linux Kernel Networking: Implementation and Theory (Expert's Voice in Open Source) Apress. 1964. <https://www.amazon.in/Linux-Kernel-Networking-Implementation-Experts/dp/143026196X>.
- Lascarides, Michael. (2012). Next-Gen Library Redesign. Facet Publishing.
- Fulkerson, Diane M. (2012). Remote Access Technologies for Library Collections: Tools for Library Users and Managers (Advances in Library and Information Science). 1st ed. Idea Group, U. S. <https://www.igi-global.com/book/remote-access-technologies-library-collections/59732>

Ashraf, Tariq & Puja, Anand (Eds). (2010). Developing Sustainable Digital Libraries: Socio-Technical Perspectives (Premier Reference Source). Taxmann Publications Private Limited. <https://www.igi-global.com/book/developing-sustainable-digital-libraries/37298>.

- Coombs, Karen A. & Hollister, Amanda J. (2010). Open Source Web Applications for Libraries. Information Today Inc. <https://www.amazon.in/Open-Source-Web-Applications-Libraries/dp/1573874000>.
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- <http://www.nou.ac.in>
- <https://www.researchgate.net>
- <https://guruignou.com>

PAPER X B

Programme: M.Lib.&I.Sc.		Programme Code : 1009	
Course Code:		Course Title: IPR MANEGEMENT IN LIBRARIES	
Minor Open Elective Paper		Credits: 4	
Max. Marks: 25+75		Min. Passing Marks: 40	

Course Outcomes:

After completing this course, the students will be able to-

1. Understand the concepts of IPR
2. Delineate the concept of intellectual property and property rights.
3. Make the students aware of the issues and agenda of the intellectual property rights
4. Aware about the nature and objectives of the intellectual property rights.

UNIT I

- IP Basics : Defining IP, Kinds of IPR,
- Historical perspective of IPR
- Basics of Patent, Patent Document,
- Indian Patent Act and other Legal Obligations, Patent databases,
- Patent Searching, Fair Use Analysis

UNIT II

- Basics of Copyright, History of Copyright,
- Philosophy and Theories of Copyright,
- Copyright in Scholarship: Authorship and rights,
- Copyright in Publishing,
- Copyright Licensing and Assigning,
- Legal Instruments-National & International

UNIT III

- Digital learning, Creative Commons,
- Open Data Licenses, Understanding of fair use,
- Specific exceptions for teachers and librarians,
- Piracy & digital piracy, Plagiarism,
- Copyright Protection Technologies, Basics of copyright permission

UNIT IV

- Copyrights and Multimedia: Copyright for Data, Image, music & Audio, Film & Video, Broadcasting & Webcasting, social media, Software & Open Source Software

UNIT V

- Issues and Challenges of IPR and Cases

Methodology: Lectures, self study, case studies, assignments, experimental learning exercises

Sessional assessment: will be based on 1.Test 2. Assignment 3.Class attendance

Recommended Reading

- Chitadze, Nika. (2022). Global Dimensions of Democracy and Human Rights: Problems and Perspectives. IGI-Global.<https://www.igi-global.com/book>
- Kahn, Miriam B. (2008). Studies In Library And Information Science: The Library Security & Safety Guide to Prevention, Planning, and Response. Vol. 4, Pentagon Press. <http://www.pentagonpress.in/>
- Baldwin, Peter. (2014).The Copyright Wars: Three Centuries of Trans-Atlantic Battle Princeton University Press. <https://www.amazon.in/>
- Frank, Rennie. Digital Learning: The Key Concepts. 2nd ed. Taylor & Francis Ltd. <https://www.flipkart.com/>
- <https://egyankosh.ac.in>
- <http://www.nou.ac.in>
- <https://www.researchgate.net>
- <https://guruignou.com>

PAPER XI

Programme: M.Lib.&I.Sc.		Programme Code : 1009	
Course Code:		Course Title: Digital Content Management and Digital Library Practice	
Major Compulsory Practical Paper		Credits: 2	
Max. Marks: 25+75		Min. Passing Marks:40	

Course Outcomes:

After study the course students will be able to:

1. Achieve an integrated understanding about Digital library and digital content creation and problems;
2. Learn how to install and customized OSS of DL software.
3. Explain differing conceptions and approaches, stakeholders and trends.
4. Represent digital content and describe their metadata through hands-on practice.
5. Know about technical infrastructure Interoperability issues for digital libraries.
6. Learn and access digital libraries worldwide. User communities and use.
7. Economic and institutional effects. Social, ethical, and legal concerns.

UNIT I

- Database Searching: Digital libraries and Repositories. Digital Libraries Initiatives.
- Development and Creation of digital images/content: Use of Scanners and OCR and other H/w.
- Image editing software

UNIT II

- Digitization. Digital Collection management; Open source Digital Library Software
- Metadata: Representation of different media: text, images, sounds, multimedia
- Licensing, subscriptions and agreements of Digital resources.

Recommended reading:

- Mishra, Deepanjali., & Samanta, Sasmita Rani. (Eds). (2021). Digitalization of Culture through Technology. 1st Ed, Routledge Publication. <https://www.perlego.com/book>.
- Singh, M. P. et.al. (eds.). (2019). Re-modelling of Libraries in the Digital Era. Ess Ess Pubns <https://www.amazon.in/>
- Garoufallou, Emmanouel., & Coll, ImmaSubirats. (2016). Metadata and Semantics Research.1st ed. Edition, Springer. <https://link.springer.com/>
- Raysman, Pisacreta., & Kenneth, A. Adler. (2008). Intellectual Property Licensing: Forms and Analysis, Law Journal Press. <https://store.lexisnexis.com/>
- Mariner,Matthew C. (2014). Managing Digital Audiovisual Resources: A Practical Guide for Librarians. Rowman & Littlefield. <https://www.amazon.in/>

- Frank, Rennie. Digital Learning: The Key Concepts. 2nd ed. Taylor & Francis Ltd. <https://www.flipkart.com/&https://www.taylorfrancis.com/book>
- Cloonan, Michele Valerie. (2014). Preserving Our Heritage: Perspectives from Antiquity to the Digital. Facet Publishing. <https://www.facetpublishing.co.uk/>
- Needham, Gill & Ally, Mohamed.(2010). M-Libraries 2: A Virtual Library in Everyone's Pocket. Facet Publishing. <https://www.facetpublishing.co.uk/>
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- <http://www.nou.ac.in>
- <https://www.researchgate.net>
- <https://guruignou.com>
- <https://www.ndl.iitkgp.ac.in/>
- <https://www.shodhganga.inflibnet.ac.in/>

PAPER XII

Programme: M.Lib.&I.Sc.		Programme Code : 1009
Course Code:	Course Title: KNOWLEDGE ORGANISATION (DEPTH CLASSIFICATION (PRACTICE))	
Major Compulsory Practical Paper		Credits: 2
Max. Marks: 25+75		Min. Passing Marks:40

Course Outcomes:

After studying the paper, students shall be able to

1. Classify and construct the class numbers for titles using Universal Decimal Classification Scheme.
2. Synthesize class numbers by using the tables and 'add to instructions' of UDC scheme.
3. Use of special features, manual and auxiliary table of Classification Schemes.

UNIT 1

Classification of Documents Representing Compound and Complex Subjects using Universal Decimal Classification, 3rd abridged ed.1961.

Recommended readings

- **Mallinath, Kumbar Niveditha B. (2018). Universal Decimal Classification A Practical Manual for Information Organization. EssEss Publication.** <https://www.meripustak.com/>
- Mokhtar, Umi Asma,. & Yusof, Zawiyah Mohammad. (2017). Classification: Concepts, Principles and Methods-Information, Systems, Context. Chandos. <https://www.elsevier.com/books>

- Satija, M. P. (2011).Dewey decimal classification New Delhi: EssEss Publications.
<https://www.essessreference.com>
- Hunter, Eric J. (2009).Classification Made Simple. Ashgate Publishing.
- Khanna, (2008).UDC (Universal Decimal Classification).Y.K. Publishers.
<https://www.amazon.in/>
- Satyanarayana, V. V. V. Univarsal Decimal Classification. Ess Ess Publications.
<https://www.flipkart.com/>
- <https://egyankosh.ac.in>
- <http://www.nou.ac.in>
- <https://www.researchgate.net>
- <https://guruignou.com>

RESEARCH PROJECT WORK

Objectives: The general objectives of the Research project are to help the students in:

- Making clear understanding of the Research work.
- Chalking out a plan of action.
- Learning and developing research skills.
- Developing ability to apply multi-disciplinary concepts, tools and techniques.
- Solving problems through methods of scientific investigation
- Solving problems of libraries, information centers, knowledge centers and such other organizations;
- Learning and developing techniques of writing research report, presentation, communication and analytical skills;

Within this broad framework, this course will help the students to:

- Identify and formulate research problems;
- Write a good research proposal;
- Identify and use of appropriate research methodology;
- Conduct scientific investigation in a systematic way;
- Collect and analyze data with appropriate tools, techniques, methods in the study of library and information science.
- Write research report

Note: The Work for Paper shall start in the beginning of the first semester for which each student will be allotted a topic for writing the Project Report.

The Project Report will be submitted at the end of second semester on the date to be decided by the department.

