

# DEPARTMENT OF LIBRARY SCIENCE

## COURSE CURRICULUM & MARKING SCHEME

### M.Lib. & I.Sc.

### Semester - II

SESSION : 2022-23



ESTD: 1958

**GOVT. V.Y.T. PG AUTONOMOUS COLLEGE,  
DURG, 491001 (C.G.)**

(Former Name – Govt. Arts & Science College, Durg)

NAAC Accredited Grade A<sup>+</sup>, College with CPE - Phase III (UGC), STAR COLLEGE (DBT)

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**Second Semester**  
**Core Course – C6**  
**Information Technology : Basics & Applications**  
**TM 100 (Internal Assessment 20+ Theory 80) (Credit 4)**

**UNIT-II Information Technology**

- Definition, need, scope and objectives.
- Historical background of computers.
- Generation of computers.
- Architecture CPU, Input/output devices .
- Hardware and software.
- Operating system- Ms-windows, UNIX, MS-DOS.

**UNIT-II Networking and Internet-Basic features and tools**

- Types of networks-LAN, WAN, MAN.
- Local Area Networks; LAN Topologies, Network Hardware- Network interface card, hubs/switches.
- Gateways/Bridges, routes, modem.
- Network Protocols- TCP/IP, Net-BUI, IPX
- Connectivity- Dialup, Leased lines, Microwave, ISDN.
- Digital Subscriber Lines (DSL).
- E-mail-Protocols- Telnet, FTP, DTTP. Web browsers, Web servers, Search Engines, Keta Search,
- Web design- SGML, HTML, DHTML and XML.

**UNIT-III Data Base Management System**

- Models- Hierarchical, Network, Relational and object oriented.
- Software KOHA, SOUL.
- Structure Query Language. Artificial Intelligence.
- Digital libraries- definition, characteristics & attributes,
- Storage media formats- DVD.

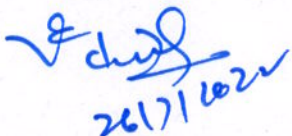
**UNIT-IV Library Automation**

- Planning and implementation of library automation.
- Automation of in- house operations- Acquisitions, Cataloguing, Circulation, OPAC Bar-coding.
- Open source software.
- Minimum requirement for different softwares.

**Core Course – C7**  
**Research Methods & Statistical Techniques**  
**TM 100 (Internal Assessment 20+ Theory 80) (Credit 4)**

**UNIT-1 Research- 0.8 Credits**

- Research: Concept, Meaning, need and process of research.
- Types of Research- Fundamental and Applied.

  
26/7/2022



• Research Design- Types of research design, Identification and formulation of problem, Hypotheses.

#### **UNIT-2 Research methods and Data analysis and Interpretation**

• Research Methods- Scientific, Historical, Descriptive, Survey and case study methods, Experimental method and Delphi Method.

• Research techniques & Tools- Questionnaire, Schedule interview, Observation and sampling techniques.

• Descriptive Statistics- Measures of central tendencies- Mean, Median, Mode.

• Tabulation and generalization.

• Standard Deviation and Correlation.

• Testing of hypotheses.

#### **UNIT-3 Bibliometrics, Informetrics & Scientometrics**

• Bibliometrics, Informetrics & Scientometrics: Concept definition and their scope

• Bibliometrics laws- Bradford, Zipf, Lotka.

• Content analysis,

• Sociometry.

• Citation studies- Citation-nature and definition, Citation-theory and analysis.

#### **UNIT-4 Research reporting- Designing research proposal**

• Structure, Style, Contents & Guidelines for Research reporting.

• Standards for citing bibliographical references (Like Chicago manual, MLA & Indian standards)

• Current trends in library and information science research.

#### **Core Course – C8**

##### **Information Processing and Retrieval(Practical II)**

**TM 100(Internal Assessment 20+ Theory 80) (Credit 4)**

Cataloguing of simple titles of books and periodicals according and AACR-2

- Personal authorship
- Corporate authorship
- Cataloguing of Periodicals

#### **References**

1. An Introduction to AACR-2, Krishan Kumar, Vikas Publication
2. Manual Of Cataloguing Practice ( CCC AND AACR-2), N.S.Saukin, Dinesh Kumar Gupta, Sanjeev Sharma, Vijendra Singh, Y.K.Publishers
3. Kriyatmak Anuvarg Suchikran, Dr.S.K.Verma, Central Book House, Sadar Bazar Raipur
4. Practical AACR-2, Dr.S.K.Verma, Central Book House, Sadar Bazar Raipur

#### **Core Course – C9**

##### **Information Technology For Libraries(Practical)**

**TM 100(Internal Assessment 20+ Theory 80) (Credit 4)**



**Objectives:**

- To give practical training in the use of library automation software
- To familiarize students with open source library software
- To familiarize the students with various operating systems
- To familiarize the students about information technology and its application to Library and Information work
- To give basic knowledge about the software aspects and library automation packages

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

- Able to understand and work on experience with IT products and services
- Have the knowledge of working with computer hardware, software
- Be trained to work with library automation and management tool
- Overall knowledge of library automation and the parts of its operations using different types of software
- Gain knowledge of both system software and application software related to library automation and management.

**Unit 1: Integrated Library Management Software**

- Integrated Library Software packages: SOUL/ Koha
- Modules such as Acquisitions, Cataloguing, Circulation, Serial Control, Administration and OPAC
- Installation of ILMS Software

**Unit 2: Digital Library Software**

- Overview of Digital Library Software: D-Space, Greenstone, e-prints,
- Creation of Digital Repository through D-Space and/or Greenstone

**Unit 3: Web designing**

- Creation of web page using HTML
- Creation of blogs

**Unit 4: Content Management Software**

- Function and use of any Content Management Software: Joomla / Drupal / Wordpress

**Note : This is only a broad outline, the coverage of topics in this paper will be elaborated by the concerned teacher.**

**Reading List :**

- 1 CHOWDHURY (GG) and CHOWDHURY (Sudatta): Searching CD-ROM and Online Information Sources (2000) Library Association, London.
- 2 CHOWDHURY (G G) and CHOWDHURY (Sudatta): Organizing Information - from the shelf to the web (2007), Facet Publishing, London.
- 3 COOPER (Michael D): Design of Library Automation Systems: File Structures, Data Structures and Tools (1996), John Wiley, New York.
- 4 INFLIBNET: Software for University Libraries User Manual (2003), INFLIBNET, Ahmedabad.
- 5 NEELAMEGHAN (A) and LALITHA (SK): Tutor +: A Learning and Teaching Package on Hypertext Link Commands in WINISIS (2001), Sarada Ranganathan Endowment for Library Science, Bangalore.
- 6 NEGUS (Christopher): Linux Bible. (2005), John Wiley, New York.
- 7 SIMPSON (Alan): Windows XP Bible. (2004), John Wiley, New York.
- 8 UNESCO. CDS/ISIS for windows: reference manual (vol.5, 2004), UNESCO, Paris.
- 9 WALKENBACH (John): et al. Office 2007 Bible (2007) John Wiley, New York.
- 10 WINSHIP (Ian) and McNAB (Alison): The Student's Guide to the Internet (2000), Library Association, London.



**Ability Enhancement Compulsory Course - AECC1**  
**Information Analysis, Repackaging and Consolidation**  
**TM 100(Internal Assessment 20 + Project 80 ) (Credit 2)**

**Objectives:**

- To know about the repackaging, consolidation and analysis of information and their use and importance,
- This paper focuses to enhanced the ability of the students to know difference tools and products of IAR and how to prepare and used in practical cynario

**Learning Outcomes :**

**After studying this paper, students shall be able to:**

- highlight the impediments and difficulties associated with fruitful use of existing information
- explain the concepts of information consolidation and repackaging
- trace the origins of the concepts of information consolidation and repackaging
- assess the need for such service and explain the processes involved in information consolidation
- discuss how the concept of appropriate or consolidated information developed in conjunction with the concept of appropriate technology and technology transfer
- assess the value and benefits of consolidated information to different user communities or groups

**Unit 1: Repackaging and Consolidation**

- Packaging and Re-Packaging: Concept, Need, Purpose and Criteria
- Content Analysis
- Information Intermediaries

**Unit 2: Information Analysis and Consolidation Centre's**


- Genesis of Information Analysis and Consolidation(IAC) centre's
- IAC Centre's in India

**Unit 3: Tools for IAR**

- Indexes, Abstracts, Reviews, Digests, Markets Surveys
- Different Types of Abstracts

**Unit 4: Information Products**

- Nature Concept and Type
- Information Newsletter, House Bulletin, In-House communications,
- Trade Reports, Technical Digest, and Trend Reports, state-of- the –art- reports
- Electronic Content Creation



**Reading List :**

- 1 Alberico, Ralph and Micco Mary. (1990). Expert Systems for reference and information retrieval. West port : Meckler.
- 2 Austin, D. Precs, (1984). A manual of concept analysis and subject indexing. 2nd ed.
- 3 Baeza-Yates, R. A. and Ribeiro-Neto, B. (2010). Modern Information Retrieval (2nd ed.).Reading, Massachusetts: Addison-Wesley.
- 4 Barbara Allan. (2002). E-learning and Teaching in library and Information Services. London : Facet Publishing.
- 5 Bikowitz, W. R. (2000). Knowledge Management. Delhi: PHI.
- 6 Chowdhruy, G. G. (2003). Introduction to Modern Information Retrieval. 2nd edn. London, Facet Publishing.
- 7 Cleaveland, D. B., Cleveland, A. D. (1988). Introduction to Indexing and Abstracting. 1983. Crawford, Marshall Jean. Information broking: a new career in information work. London: LA.
- 8 Ford, Nigel. (1991). Expert Systems and artificial intelligence : An information manager's guide London: LA.
- 9 James Dearnley and John Feather (2001).The Wired World: An introduction to the theory and practice of the information society. London : Facet Publishing.
- 10 Jean Atchison & Alan Gilchrist. (1972). Thesaurus construction: a practical manual. London: Aslib.





**Skill Enhancement Course – SEC1**  
**TM 100(Internal Assessment 20 + Practical 80) (Credit-02)**  
**sLeadership and Personality Development**

Unit I: Leadership: Definition and meaning, Importance, Leadership and Management, Leader vs Library and Information centers Manager, Essential qualities of an effective leader  
Old and New Concepts of Leadership.

Unit II: Theories of Leadership: Trait theory, Behavioral theories, Contingency theory  
Ethics for good librarianships. Functions and Duties of Leader (Librarian/ Information officer).  
Principal of Leadership, Barriers of Leadership.

Unit III: Types of Leaders, Leadership styles: Traditional, Transactional, Transformational,  
Inspirational and servant leadership and Emerging issues in leadership: Emotional Intelligence and  
leadership, Trust as a factor, Gender and Leadership

Unit IV: Personality: Concept and Definition, Determinants of personality, Personality traits,  
Personality characteristics in organizations: Self evaluation, Locus of control, Self-efficacy, Self-  
esteem, Self-monitoring: Positive and negative Impact.

Unit V: Social development and librarianship. Language development and speech development.  
Moral Development. Helping behavior. Good manners and etiquettes. Public relation

Book Reference:

1. Organisational Behaviour , M.Parikh and R.Gupta , TataMcGraw Hill Education Private Limited
2. Organisational Behavior, D. Nelson, J.C Quick and P. Khandelwal, Cengage Publication.
3. मानव विकास का मनोविज्ञान. महेश भार्गव एवं बीनू भार्गव. एच.पी. भार्गव बुक हाउस. आगरा 2008
4. सामाजिक मनोविज्ञान. एम. के. सोलंकी. एसबीपीडी पब्लिसिंग हाउस आगरा. 2016.
5. Library Organization. Krishna Kumar. Vikas Publishing House. 1987.

**Discipline Specific Elective – DSE1**  
**Academic Information System**  
**TM 100(Theory 80+InternalAssessment20) (Credit 4)**

**Objectives:**

- To encourage life-long learning among students to make them more knowledgeable in academic library system.
- To understand the concept, importance, functions, services and different types of academic libraries;
- To know the background of development of higher education in India.

**Learning Outcomes :**

**After studying this paper, students shall be able to:**

- Define the basic objectives of academic libraries
- Identify the differences in school, college and university libraries
- Explain the services and extension activities of academic libraries
- Understanding the historical development of higher education in India;
- Gain the knowledge of library finance and infrastructure

**Unit 1: Academic Libraries:**

- Meaning, definition, importance, functions, services and types of academic libraries;
- Users of academic libraries: types of users and their needs.

**Unit 2: Higher Education and Libraries:**

- History and development of higher education in India
- Role of UGC in the development of higher education
- Monitoring / accreditation agencies in India - NAAC, NBA.

Role of knowledge commission in higher education

**Unit 3: Library Finance and Infrastructure:**

- Academic library finance and budgeting.
- Human resource management;
- Library buildings and equipments.

**Unit 4: Planning and management of higher education**

- Structure and organization of higher education in India.
- Curriculum planning for higher education ;
- Universities and its structure

**Unit 5: Collection Development in Academic Libraries:**

- Types and character of academic library collection.
- Acquisition of documents: selection, policy, and procedures, maintenance.
- Problems of collection development





**Reading List :**

- 1 Adisheshaiah, M. S. (1992). Role of the library in the university. University News. 30(35),13.
- 2 Applegate, Rachel (2010). Managing the small college library. Englewood, CO: Libraries Unlimited.
- 3 Bhatta, R.K. (1995). History and development of libraries in India, New Delhi: Mittal. Brophy, P. (2005). The academic library. 2nd rev. ed. London: Facet publishing. Budd, J. (1998). The academic library: its context, its purposes, and its operation. Englewood, CO: Libraries Unlimited.
- 4 Cohen, L. B. (2008). Library 2.0 initiatives in academic libraries. Chicago: ALA. Page 36 of 73
- 5 Dale, P., Beard, J. & Holland, M. (2011). University libraries and digital learning environments. Aldershot (GB): Ashgate Publishing..
- 6 Datta, N. (1986). Academic Status for University and College Libraries in India. Delhi: IBB.

**Discipline Specific Elective – DSE2**  
**Agricultural Information System**  
**TM 100(Theory 80+InternalAssessment20) (Credit 4)**

To know how the information system runs in an agricultural institutional environment.

**Learning Outcomes :**

**After studying this paper, students shall be able to:**

Get to know the structure of agriculture Education and Agriculture Libraries, Information Source and Services in Agriculture, Agriculture Information System and Networks

**Unit 1: Agriculture Education and Agriculture Libraries**

- Growth and development of Agriculture education and research in India
- Role of Library in Agricultural education, research and Extension
- Development of Agriculture Library in India

**Unit 2: Information Source and Services in Agriculture**

- Specialized Collection and Information Sources
- Information Service and products in Agricultural Science and Technology with Special reference to India
- Agriculture Information Centers-National and International

**Unit 3: Organization and Management of Resources**

- General Principle of Information Management
- Information Organization, Processing and Dissemination
- Developing need based and on Demand Specialized Services

**Unit 4: Information Needs**

- Identifying special need of Agricultural faculty & research Staff
- User Studies of Local Agriculture Libraries

**Unit 5: Agriculture Information System and Networks**

- Current Trends in agricultural System and Networks
- Resource Sharing and Networking in Agricultural Libraries in India
- International Agricultural Database
- Professional Associations.

**Reading List :**

- 1 ALANCHARD (J R) and FARREL (Lois). Guide to sources for Agricultural and Biological Research. 1981. University of California Press; Bareley .p.735.
- 2 ALL INDIA Seminar on Agricultural Librarianship and Documentation Papers.1977. Ludhiana.
- 3 BANERJEE (S R) and MOITRA (S). Agricultural Documentation Services in India. ICAR Library; New Delhi.
- 4 BURKETT (J). Agricultural Research Index. 6th ed. Hariow, Longman.1978. pp.13-15.
- 5 DESMUKH(P P). Indian Council of Agricultural Research (Delhi). Agricultural University Libraries committee. Final Report. 1969. ICAR; New Delhi.
- 6 FAO: E-Agriculture in Action: Drones for Agriculture. 2018
- 7 FAO: The State of Food Security & Nutrition in the World. 2017
- 8 FAO:E –Agriculture Strategy Guide.2016 Free E-Learning Course materials of GODAN LILLEY (G P). Information sources in agricultural and Food Science. 1981.Butterworth;London.





**Discipline Specific Elective – DSE3**  
**Industrial Information System**  
**TM 100(Theory 80+Internal Assessment20) (Credit 4)**

**Objectives:**

To know how the information system runs in Industrial Information System.

**Learning Outcomes :**

**After studying this paper, students shall be able to:**

Get to know the structure of Industrial Information Resource Collections, Organizations and Management of Industrial Information, 5Industrial Information System and Network.

**Unit 1: Growth and Development of Industries& Industrialization Libraries**

- Industrial Growth in India
- Type of Industries: Government and Non-Government.
- Role of Libraries and Information Center in Industries
- Categories of Industrial Libraries

**Unit 2: Industrial Information Resource Collections**

- Tread Literature
- Patents
- Standards
- Technical Reports Bulletins

**Unit 3: Organizations and Management of Industrial Information**

- Special Classification Scheme and Indexing System
- Planning and Designing Specialized information services and Products
- System approach to Planning and Design and Implementation
- Managing personal Skills and Finance

**Unit 4: Information needs and Services of Industrial Libraries**

- Special Classification Schemes and Indexing System
- Case Studies and field Experience of local Industries
- Preparation of Report of an Industrial Library Survey (Local)
- Marketing of Information
- Computerized Information Service

**Unit 5: Industrial Information System and Network**

- Industrial Information Centers and Networks National and International (SENDOC)
- Structure and their services
- Industrial Databases
- Resource Sharing and Networking of Industrial Information Centers in India



**Reading List :**

1 BURKETT (Jack). Industrial and related library and information services in the United Kingdom, 3rd Ed.1972.The Library Association; London.

2 CARTER (L F), ed, etc. National documents handling systems for Science and Technology.1967.John Wiley;New York.

3 DRTC: Rendering of names of Corporate bodies subject analysis with special references to Social Science. Documentation systems for industry. DRTC Annual Seminar,8 .DRTC,Bangalore, DRTC, 1970, pp 201-418.

4 EVANS (G E): Management techniques for libraries.1976. Academic Press; New York.

5 GOPINATH (M A) and SEETARAMA (S). Industrial Information systems and services. DRTC Annual Seminar ,17.DRTC, Bangalore, 1979.

6 GROGAN (D).Science and technology: an introduction to the literature. 4th ed. 1982. Clive Bingley; London.

7 HAMBURG (M). Library planning and decision making system. 1974.

8 HUGHTON (Bernard). Technical information sources. 2nd ed , London, Clive Bingley, 1972.

9 JACKSON (E B) and JACKSON (R L). Industrial information systems: a manual for higher management and their information officer/Librarian Associates. 1978.Dowen Huchenson and Ross; .Strousberg.

10 MANLEY (Marian C). Library services to business: its place in the small city.1946.American Library Association; Chicago.

11 NEELAMEGHAN (A). Guide lines for policy on information manpower development.1978.UNESCO; Paris.

12 RAVICHANDRARAO (I K). Planning and costing of a local abstracting Periodical. Annual Seminar DRTC,11.1974.

13 SEETARAMA(S). Budgeting in special libraries. Annual seminar DRTC, 11.1974

14 SINGER (T E R), Ed. Information and communication practice in industry.1958.Reinhold; New York





