# BHARATHIDASAN UNIVERSITY TIRUCHIRAPPALLI - 620 024

**Master of Library and Information Science (MLIS)**

**CHOICE BASED CREDIT SYSTEM – LEARNING OUTCOMES BASED CURRICULUM FRAMEWORK (CBCS - LOCF)**

**(Applicable to the candidates admitted from the academic year 2026-27 onwards)**

| Sem. | Part | Courses | Title | Exam Hrs. | Credits | Maximum Marks | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Int. | Ext. | Total |
| I | I | Core Course-I (CC) | Research Methods and Techniques | 3 | 5 | 25 | **75** | 100 |
| | | Core Course-II (CC) | Digital Library and Web Technology | 3 | 5 | 25 | **75** | 100 |
| | | Core Course-III (CC) | Knowledge Management | 3 | 5 | 25 | **75** | 100 |
| | | Core Course-IV (CC) | Information Technology in Libraries : Practice (Automation, Repositories, CMS) | 3 | 5 | 40 | 60 | 100 |
| | | Elective Course – I (EC) | Corporate Information System | 3 | 2 | 25 | 75 | 100 |
| | | Non Major Elective – I (NME) | | 2 | 2 | 25 | 75 | 100 |
| | | **Total** | | | **24** | | | **600** |
| II | II | Core Course-V (CC) | Marketing of Information Products and Services | 3 | 5 | 25 | 75 | 100 |
| | | Core Course-VI (CC) | Scholarly Communication | 3 | 4 | 25 | 75 | 100 |
| | | Project | Project and Dissertation = 80 Marks, viva =20 Marks | 3 | 15 | | | 100 |
| | | Total | | | 24 | | | 300 |
| | | | | | **48** | | | **900** |

**SUMMARY OF CURRICULUM STRUCTURE OF PG PROGRAMMES**

| Sl. No. | Types of the Courses | No. of Courses | No. of Credits | Marks |
|---|---|---|---|---|
| 1. | Core Courses | 6 | 29 | 600 |
| 2. | Elective Courses | 1 | 2 | 100 |
| 3. | Project | 1 | 15 | 100 |
| 4. | Non-Major Elective Courses | 1 | 2 | 100 |
| 5. | **Total** | **9** | **48** | **900** |

# CC. 1: RESEARCH METHODS AND TECHNIQUES

| Credit Distribution | | | Total Credits | Internal Marks | Semester Marks | Total Marks |
|---|---|---|---|---|---|---|
| **L** | **T** | **P** | **L+T+P** | **C1** | **C2** | **C3** |
| 5 | - | - | 5 | 25 | 75 | 100 |

**Objectives**

- To help students learn the basic concepts of research, their types, planning and Methods;
- Make the students become proficient in research methodology, sampling techniques and data collection tools.
- To help the students learn the statistical tools and techniques of analyzing, interpreting and reporting research.
- To Study the referencing and citation manuals and styles
- To enable the students to carry research projects and field survey

**A. Course Outcome (CO)**

After completion of the course, students will become familiar with the basic concepts in Library & Information Science.

| COs | Course Outcome | Level | Level |
|---|---|---|---|
| **CO 1** | Understand the various concepts related to research and its types, objectives of doing research, research process | Understand | K2 |
| **CO 2** | Illustrate the identification of research problems & design. | Apply | K3 |
| **CO 3** | Know the different methods used to conduct research and examine the research method and techniques | Analyze | K4 |
| **CO 4** | Exhibit the skills measurement & scaling techniques as well as the qualitative and quantitative data analysis | skill | K6 |
| **CO 5** | Demonstrate the skills in application of statistics for data analysis and hypothesis testing | Skill | K6 |

**B. Syllabus**

**Unit-I**

Research: Definition, Objectives, Selection, Concepts, Purpose and Types; Research as Scientific Method, Research Process, Literature Review: Process and types; Search Strategies, Selection and Formulation of Research Problems; Sources of Research Problems, Criterion of Good Research

**Unit-II**

Research Design: Definition, Need, Types and Components: Features of Good Research Design, Research Design for Science, Social Science and Humanities; Sampling: Methods and Techniques; Hypothesis: Definition, Types, Formulation and Testing.

**Unit-III**

Types of Data: Primary and Secondary: Structure and Unstructured: Methods and Tools for Data Collection: Survey, Experimental, Case-Study, Questionnaire, Observation, Interview Schedules and Delphi Technique: Literature Review, Government and Commercial databases, ICT Web enabled Data Collection methods Web Scraping.

**Unit-IV**

Analysis of Data: Measures and Scaling Techniques, Multivariate techniques, ANOVA, ANCOVA Presentation of data, Interpretation, Inferences, Tabular, graphical representation; Info graphs- Basics of R, PYTHON, SPSS and SOFA.

**Unit–V**

Report Writing: Components and Mechanics of Research Report; Style manuals Tools; Reference Management Systems, Oral Presentations, Plagiarism Detecting Tools.

**Unit-VI CURRENT CONTOURS (For Continuous Internal Assessment Only):**

Case Studies-Survey-Information Needs: E-resources usage; Research profile compilation-Library website evaluation, Trends in LIS research, AI and SDG.

**Selected Readings:**


1. Busha C H and harter S P. Research Methods in Librarianship. New York: Academic, Publishing House, 1993
2. Fowler F J Jr. Survey Research Methods. New Delhi: Sage, 1993
3. Glazer J D and Powell R R. Qualitative Research in Information Management.
4. Englewood: Libraries Unlimited, 1992
5. Goode Wj and Hatt P K. Methods in Social Science Research. Auckland: McGraw-Hill, 1981
6. Kin Robert K. Case Study Research: Design and Methods. New Delhi: sage Publications, 1989
7. Kraft D H and Royce B R. Operations Research for Libraries and Information Agencies. San Diego, CA: Academic Press, 1991
8. Krishnaswamy O R. Methodology for Research in Social Sciences. Delhi: Himalayan
9. Lancaster F W.If you want to evaluate Your Library. London: LA, 1993
10. Line M B. Library surveys. London: Clive-Bingley, 1967
11. McClure Charles R and Hernon Peter Eds. Library and Information Science Research: Perspectives and Strategies for improvement. NJ, Ablex, 1991
12. Powell R R. Basic Research Methods for Librarians. Norwood., NJ: Ablex1980
13. Simpson I S. How to Interpret Statistical Data. London: LA, 1990
14. Slater M. Research Methods in Library and Information Studies. London: LA, 1990.
15. Stevens R E (Ed).Research Methods in Librarianship. London: Clive-Bingley, 1971Busha, Charles, H. and Harter, Stephen, S. Research Methods in Librarianship. Techniques and Interpretation. Orlando, Academic press, 1980.
16. Charles, H. et.al. Research Methods in Librarianship: Techniques and Interpretations. New Delhi, Sage, 1993.
17. Goode.W.J&Hatt.P.K. Method of Social Research. McGraw Hill. Auckland, 1989
18. Kothari.C.R.. Research methodology: Ed2 Wishwa. New Delhi, 1990.
19. Krishna Kumar: Research methods in library in Social science. Vikas, New Delhi, 1992

20. Krishna Swamy, O.R. Methodology of research in social sciences. Himalaya, Bombay, 1993
21. Line, Maurice.B. Library surveys; An introduction to the use, planning procedure and presentation of survey. Ed2 Clive Bingley, London, 1982.
22. RavichandraRoa, I.K. Quantitative methods in library and information science, Wiley Eastern. New Delhi, 1988.
23. Slatter,Margaret, Ed. Research ,methods in library and information science. London, L.A, 1990.
24. Stevens, Rolland.E. Research methods in librarianship, Clive Bingley, London, 1971.
25. Tabuer, M.F and Stephens, I.R. Ed. Library surveys. Columbia University Press, New York, 1968.
26. Wilson, E.S. Introduction to scientific research McGraw Hill, New Delhi, 1952.
27. Young,P.V.Scientific social surveys and research. Ed4. Prentice Hall of India, New Delhi, 1982
28. John W. Creswell. Research Design: Qualitative, and Mixed methods Approaches. Sage Publications, 2013.
29. Ranjit Kumar. Research Methodology: a step-by-step guide for beginners. 2014. (Google E-Books)

## C. Mapping of COs with POs & PSOs

| Mapping of COs with POs & PSOs | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COs** | **Programme Outcomes** | | | | | **Programme Specific Outcomes** | | | | |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** |
| **CO1** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO2** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 |
| **CO3** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| **CO4** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO5** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |

# CC- 2: DIGITAL LIBRARY AND WEBTECHNOLOGY

| Credit Distribution | | | Total Credits | Internal Marks | Semester Marks | Total Marks |
|---|---|---|---|---|---|---|
| L | T | P | L+T+P | C1 | C2 | C3 |
| 5 | - | - | 5 | 25 | 75 | 100 |

**Objectives:**

- To help students in acquiring knowledge about the concept of Digital Libraries
- To enable the students gain knowledge about the facets in volved in DL design
- To enable the students gaink+6nowledge about DL softwares
- ToenablethestudentsgainknowledgeaboutOnlineandelectronicresourcesandinstitutional repositories

**A. Course Outcome (CO)**

After completion of the course, students will become familiar with the basic concepts in Library & Information Science.

| COs | Course Outcome | Level | Level |
|---|---|---|---|
| **CO 1** | Gained knowledge about the concepts of digital library, its organization, tools for digital information access | Understand | K2 |
| **CO 2** | Acquired knowledge in digital library design, architecture and DL softwares | Understand | K2 |
| **CO 3** | Apply the digital library software for library digital activities | Apply | K3 |
| **CO 4** | Attained knowledge about the Search Engines | Understand | K2 |
| **CO 5** | Demonstrate the skills in searching Web Tools | Skill | K6 |

**B. SYLLABUS**

**Unit-I**

Digital Libraries: Definitions, Concept, Characteristics, functions and Advantages Digital Library Components: Design, Architecture, Protocols, Standards and Interoperability,

**Unit-II**

Digital Library Software: dspace, GSDL and E-Prints. Online Data bases: E-Books, E-Journals, ETD and Course ware and online Publishers

**Unit-III**

Institutional Repository and Digital Achieves - Digital Library Initiatives, Creation of Tamil interface using D-Space, MERLOT-NPOR-SWAYAM

**Unit-IV**

Search Engines**:** Concept of Search Engines; Types of Search Engines (General Search Engines, Meta Search Engines, Intelligent Search Engines, Subject Specific Search Engines); Search Technologies and Strategies; Benefits and Limitations of Search Engines; Design and

Evaluation of Search Engines

**Unit-V**

Web Tools & Services: Email, Discussion Groups, Teleconferences, Video Conferencing, Bulletin Board Service, Remote Login; Search Tools: Search Engines, Subject Directories; Content Enriching Services: Blogs, Wikis, Social Media Websites

**Unit-VI CURRENT CONTOURS (For Continuous Internal Assessment Only):**

Social Networking Sites and Academic Social Networking Sites

**Selected Readings:**


1. Bates, Chris. (2006). Web Programming: Building Internet Applications. 3rd ed. New Delhi: Wiley-India.
2. Crumlish, Christian. (2007). The ABCs of the Internet. New Delhi: BPB Publications.
3. Hartl, Michael and Prochazka, Aurelius. (2007). Rails Space: Building a Social Networking Website with Ruby on Rails. Addison-Wesley Professional.
4. Kalbach, J. (2007). Designing Web Navigation: Optimizing the User Experience. Sebastopol: O'Reilly Media.
5. Miller, Joseph B. (2008). Internet Technologies and Information Services (Library and Information Science Text Series). Libraries Unlimited.
6. Morville, Peter and Rosenfeld, Louis. (2006). Information Architecture for the World Wide Web: Designing Large-Scale Web Sites. 3rd ed. Sebastopol: O'Reilly Media.
7. Nair, R. Raman. (2002). Internet for Information Services. New Delhi: EssEss Publications.
8. Robbins, Jennifer Niederst. (2012). Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics. 4th ed. Sebastopol: O'Reilly Media.
9. Sehgal, R. L. (2000). Internet and Internet for Librarians. New Delhi: EssEss Publications.
10. Russell, Jesse and Cohn, Ronald (eds.). (2012). Web Browser. Book on Demand Ltd.
11. Stallings, William. (2007). Computer Networking with Internet Protocols and Technology. Delhi: Pearson Education.
12. Weinberg, Tamar. (2009). The New Community Rules: Marketing on the Social Web. Sebastopol: O'Reilly Media


**Web Link**

1. http://www.greenstone.org/
2. http://www.dspace.org/
3. http://epress.lib.uh.edu/pr/v8/n3/smit8n3.html
4. http://www.eprints.org/
5. http://moodle.org
6. http://joomla.org
7. http://drupal.org
8. http://scigate.ncsi.iisc.ernet.in/raja/
9. http://www.vidyanidhi.org.in/‘
10. http://www.20search.com/
11. http://en.wikipedia.org/wiki/Web_2.0
12. http://www.oreillynet.com
13. http://en.wikipedia.org/wiki/Web_3.0

14. http://en.wikipedia.org/wiki/Main_Page
15. http://www.lib.berkeley.edu/TeachingLib/Guides/Internet/InvisibleWeb.html
16. http://websearch.about.com

## C. Mapping of COs with POs & PSOs

| Mapping of COs with POs & PSOs | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COs** | **Programme Outcomes** | | | | | **Programme Specific Outcomes** | | | | |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** |
| **CO1** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 |
| **CO2** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 |
| **CO3** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO4** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| **CO5** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 |

## CC- 3.: KNOWLEDGE MANAGEMENT

| Credit Distribution | | | Total Credits | Internal Marks | Semester Marks | Total Marks |
|---|---|---|---|---|---|---|
| L | T | P | L+T+P | C1 | C2 | C3 |
| 5 | - | - | 5 | 25 | 75 | 100 |

**Objectives:**

- To enable the students learn the concepts and types of knowledge management.
- To enable the students to become proficient in the process of knowledge management practices in libraries and documentation centres
- Prepare the students 'self confidence level to become efficient knowledge managers both in traditional and digital tracks.

**A. Course Outcome (CO)**

After completion of the course, students will become familiar with the basic concepts in Library & Information Science.

| CO 1 | Course Outcome | Level | Level |
|---|---|---|---|
| **CO 1** | Explain the concept of knowledge along with categorization of knowledge. | Remember | K1 |
| **CO 2** | Understand the concepts and characteristics of knowledge-based economy | Understand | K2 |
| **CO 3** | Knowledge management strategies and tools in various environments | Apply | K3 |
| **CO 4** | Analyze the KM strategies through various case studies | Analyze | K4 |
| **CO 5** | Assess knowledge needs and map the knowledge sources in an organization | Skill | K6 |

**B. Syllabus**

**Unit–I**

Knowledge: Types, Knowledge Management: Concept and definitions–Need, Types; explicit and tacit Knowledge.

**Unit-II**

Knowledge Creation and Capturing: Knowledge creation model: Capturing tacit/I knowledge Implicit Knowledge

**Unit–III**

Knowledge Codification: Knowledge Mapping, decision trees, decision tables.

**Unit– IV**

Knowledge Management Tools and techniques: Knowledge Portal, e-learning, Community of

Practice, Storytelling.

**Unit–V**

Case studies Corporate and Special Libraries: MS SharePoint, Mind Mapping, Citizen Science.

**Unit-VI CURRENT CONTOURS (For Continuous Internal Assessment Only):**

Case studies-Emerald Management Extra-Fortune 500 companies-Library visits

**Selected Reading:**


1. Michael, E.D. Koenig, Knowledge Management Lessons Learned, New Delhi, EssEssPublications,2008
2. Al-Hawamdeh, Suliman(2003). Knowledge Management: cultivating knowledge professionals. Oxford: Chandos Publ.
3. Arvidsson, Niklas (2000). Knowledge management in the Multinational enterprise.p.176-163. In The Flexible firm: capability management in network organizations/ edited by Julian
4. Holsapple,ClydeW.(ed.)(2003).Handbook on Knowledge Management1: Knowledge Matters. New Delhi: Springer
5. Holsapple, ClydeW.(ed.)(2003).Hand book on Knowledge Management2: Knowledge Directions/(editor). New Delhi: Springer their identification; information seeking behavior


## C. Mapping of COs with POs & PSOs

| Mapping of COs with POs & PSOs | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COs** | **Programme Outcomes** | | | | | **Programme Specific Outcomes** | | | | |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** |
| **CO1** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 |
| **CO2** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 |
| **CO3** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO4** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO5** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 |

## CC- 4: INFORMATION TECHNOLOGY IN LIBRARIES: PRACTICE (AUTOMATION, REPOSITORIES, CMS)

| Credit Distribution | | | Total Credits | Internal Marks | Semester Marks | Total Marks |
|---|---|---|---|---|---|---|
| **L** | **T** | **P** | **L+T+P** | **C1** | **C2** | **C3** |
| - | - | 5 | 5 | 40 | 60 | 100 |

**Objectives**

- Enable the students become proficient in the various ICT applications and practices in Library automation and e- Governance and services delivery.
- Provide Hands –on experience with the following Software‘s:

**A. Course Outcome (CO)**

After completion of the course, students will become familiar with the basic concepts in Library & Information Science.

| COs | Course Outcome | Level | Level |
|---|---|---|---|
| **CO 1** | Gained knowledge about the functions of library automation software. | Understand | K2 |
| **CO 2** | Acquired knowledge in digital library softwares used by Green stone and DSpace | Understand | K2 |
| **CO 3** | Attained knowledge of designing web blog and website for libraries | Analysis | K4 |
| **CO 4** | Apply the mapping tools for metric studies in Library Science | Apply | K3 |
| **CO 5** | Apply the AI Tools for Library Activities | Apply | K3 |

**B. Syllabus**

1: Library Automation Software‘s: KOHA;

2. Digital Library Software‘s: Greenstone and Dspace

3: Web Technologies: Weblog; Website; Mobile Applications

4: Content Management: JOOMLA and DRUPAL

5: Reference Management Software: Mendeley, Zotero

6: Scientometrics Tools: Bibexcel, Histcite, Vos Viewer and Biblioshiny, R Programming (Biblioshiny)

7: AI Tools: Chatgpt, Connected Papers, Canva Resume Maker, Synthesia (Generative AI – Meta AI, Gemini AI)

8: Social Media in Library Professional: Library Thing, Anobii

## C. Mapping of COs with POs & PSOs

| Mapping of COs with POs & PSOs | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COs** | **Programme Outcomes** | | | | | **Programme Specific Outcomes** | | | | |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** |
| **CO1** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| **CO2** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 1 |
| **CO3** | 3 | 2 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 |
| **CO4** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO5** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 |

## EC.1: CORPORATE INFORMATION SYSTEM

| Credit Distribution | | | Total Credits | Internal Marks | Semester Marks | Total Marks |
|---|---|---|---|---|---|---|
| L | T | P | L+T+P | C1 | C2 | C3 |
| 3 | - | - | 3 | 25 | 75 | 100 |

**Objectives:**

- Enable the students to learn the corporate information culture and library related facets.
- Enable the students learn about the procure men to f information and collection building gin business school libraries
- Enable the students learn various social media networks, and communication types and styles
- Enable the students develop online communication skills to handle and promote publishing media both print and digital

**A. Course Outcome (CO)**

After completion of the course, students will become familiar with the basic concepts in Library & Information Science.

| COs | Course Outcome | Level | Level |
|---|---|---|---|
| **CO 1** | Recognize the principles and role of corporate libraries and information centres | Understand | K2 |
| **CO 2** | Identify different sections of corporate libraries and information centres and illustrates their functions. | Understand | K2 |
| **CO 3** | Define the principles of collection development in corporate libraries and information centres. | Apply | K3 |
| **CO 4** | Describe the corporate libraries and information centres services, products and networks. | Analyze | K4 |
| **CO 5** | Identify the Intellectual Property issues for corporate Library centres | Apply | K3 |

**B. Syllabus**

**Unit-I**

Introduction -Definition, Need, Nature and Functions of corporate Libraries and Information centers. Learning resources, Types of corporate Libraries and types of users and their Information need. Business school Libraries case analysis.

**Unit-II**

Collection Development: Objectives and Purpose. Advantage so collection development planning, Implementation and evaluation. Book selection principles and policies, Procedures and problems. Information searching and access. Use of various search techniques

**Unit-III**

Web based Information services, corporate librarian 2.0 Library 4.0, Industry 4.0 and Social networks- Blogs, X, Twitters, Face book, Google buzz etc. for communication.

Information analysis and consolidation. Packaging and delivery.

**Unit-IV**

Corporate communications systems and tools-news letter. Bulletins, preparing for organizing events, Social talks, Conference, News briefs, Press releases, Editing, Reporting. Knowledge management in corporate Libraries. KM Tools

**Unit-V**

Intellectual Property issues; Patents as a source of Industrial Information; Information systems for patents, Information Industry

**Unit-VI CURRENT CONTOURS (For Continuous Internal Assessment Only):**

Case Study-Philips, Samsung, TCS, Infosys

**Selected Readings:**


1. Bopp,RE.,&Smith,L.C.(2011).Reference and Information services: An introduction, 4th Ed..Santa Barbara, Calif.: Libraries Unlimited.
2. Campbell,M.J(1982).Business Information services: Some aspects of structure, organization and problems. London: Clive Bingley
3. Gunningham, N. (2009). Corporate environme
4. 
5. ntal responsibility. Farnham, Surrey, England:Ashgate.
6. Malone,S.A.(2003).How to setup and manage a corporate learning centre,2. Ed. Aldershot, Hampshire, England: Gower.
7. Matarazzo,J.M.(1999).Knowledge and special Libraries.Boston:Butterworth-Heinemann.
8. Mitchell,L. E.(2009). Corporate governance. Farnham, Surrey, England: Ash gate.
9. Moss, R.W(2003). Strauss‘s hand book of business Information: A guide for librarians, students and researchers. 2ndEd. Santa Barbara, Calif.: Libraries Unlimited.
10. Taylor, A. and Farrel,S.(1994).Information management for business. London: ASLIB.
11. Thwaite, J.H.(1990). The Business Information maze: Anessential guide. London: ASLIB.
12. Zaqorsky,J.L(2002).Business Information: Finding and using data in the digital age. McGraw-Hill/Irwin.
13. Bates, M.E., & Basch,R.(2003). Building and running a successful research business: A guide for the independent Information professional. Information Today, Inc.
14. Lavin, M. R., (2004). Business Information: How to Find It, How to Use It. 3rd Ed. Oryx Press.
15. Greasley, A. etal..(2002). Business Information systems: Technology, development and management for the E-Business. Financial Times Management.


## C. Mapping of COs with POs & PSOs

| Mapping with Programme Outcomes | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **COs** | **Programme Outcomes** | | | | | **Programme Specific Outcomes** | | | | |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** |
| **CO1** | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 |
| **CO2** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 |
| **CO3** | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 |
| **CO4** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO5** | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 2 |