DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

Ph.D. – Course Work in Library & Information Science
Session 2012-13

Duration: One Semester (Six Months)

S.N.	Title and Paper		F.M.	Pass Marks *
1	Paper – I: Research Methodology		100	40
2	Paper – II: ICT and Computer Literacy		50	20
3	Paper – III: Area of Advanced Studies in Library and Information Science *(a) Contemporary Practices in modern Librarianship* *(b) Information Literacy Applications in LIS* *(c) Advanced Information Resource Management*		100	40
Total			250	100
4	Paper – IV: Seminar	Subject Content 40	100	50 (to qualify)
		Presentation Skill 20		
		Justification of Scope of the Work 10		
		Ability to Answer Question to Asked 20		
		Resources Used 10		

* Minimum pass marks shall be 60% in aggregate

Paper – I
Research Methodology

Unit – I: Fundamentals of Research

- Characteristics of research, Types of research, Steps in research
- Identification, Selection and formulation of research problems, Research questions
- Research Design
- Review of Literature
- Methods for Searching Information

Unit – II: Hypothesis

- Hypothesis: Definition and Types
- Formulation of Hypothesis
- Hypothesis Testing
- Standard Error
- Point and Interval estimates

Unit – III: Sampling Techniques and Collection of Data

- Sampling theory: Types of Sampling, Steps in Sampling
- Sample Size
- Data, Meaning of data, Kinds of data
- Methods of Data Collection
- Data: relevancies, limitations and cautions

Unit – IV: Statistical Methods

- Statistics – basic concepts
- Measures of Central Tendency
- Dispersion, Skewness and Kurtosis in Research
- Important Non-Parametric test: Sign, Run, Kruskal, Wallis test and Mann-Whitney test, etc.
- Important Parametric test: Mean, Proportion, Variance and Correlation, Chi-square test, ANOVA: one-way ant two-way, etc.

Unit – V: Writing Proposal and Report

- Types of documents
- Audience analysis
- Document Design and Information Presentation, Writing Skills
- Presentation of Bibliography and References Contents
- Editing and Final Draft, Evaluating the Final Draft

Paper – II
ICT and Computer Literacy

Unit – I: Introduction to Computer

- Computer: introduction
- Computer Architecture and Storage Devices
- Operating Systems: windows family, Linux, etc.

Unit – II: Introduction to Internet

- Basics of Internet, Search engine and Mata search engines, Internet search techniques
- Internet Protocol: TCP/IP, FTP, HTTP, SMTP, SLIP, Z39.50, Dublin Core or Z39.85
- Internet Security

Unit – III: Study of Electronic Resources

- Web resources, online databases, electronic journals, indexing and abstracting services, Citation index (Web of Science)
- Services Offered by Library Networks
- Network based Library Resources

Unit – IV: Using Word Processor Software

- MS Word, MS EXCEL, MS Power Point, Spreadsheet, etc.

Unit – V: Using Statistical Tools

- Statistical software available for analysis and graphical representation: SPSS, etc.
- Web based statistical analysis tools.

Paper – III
(a) Contemporary Practices in Modern Librarianship

Unit – I: Library Automation and Networking

- Planning of Library Automation: Environment, Infrastructural, Human Resources
- Digital and Virtual libraries

Unit – II: Information Networks

- Network based Information Services
- Library Consortia
- UGC-Infonet, INDEST-AICTE, etc.

Unit – III: Marketing of Information Products and services

- Information as a Commodity and resource
- Concept of Marketing: Market Mix, Market Segmentation and Targeting
- Marketing Research, Marketing Plan

Unit – IV: User Studies and Information Seeking Behaviour

- Information Needs of Users
- Information Seeking Behaviour
- User Studies: Importance, Objectives and Types
- Planning of User Survey
- Methods of User Service

Unit –V: Education for Library and Information Science

- LIS Education and Training: Levels and Courses
- Curriculum Design
- Teaching Education Technology and its use in LIS Education

Paper – III
(b) Information Literacy Applications in LIS

Unit – I: Fundamentals of Information Literacy

- Concept, Need and Objectives
- Areas of Information Literacy
- Standards in Information Literacy
- Role of Institutions in Information Literacy

Unit – II: Information Literacy Programmes

- Scope of Information Literacy Programme
- National Programmes in Information Literacy
- International Programmes in Information Literacy

Unit – III: Methodology of Information Literacy

- Information Literacy Products: Library Brochure. Database Brochure. Web based Access Institutions, Information Bulletin
- Designing of Information Literacy Programme
- Implementation of Information Literacy Programmes

Unit – IV: Application of Information Literacy in Library and Information Centres

- Information Literacy for Users
- Information Literacy for Professionals
- Information Literacy for Research and Development

Unit –V: Trends in Information Literacy

- Web based Information Literacy System
- OPAC Information Literacy System
- Life Long Learning System

Paper – III
(c) Advanced Information Resource Management

Unit – I: Information Management

- Basic concepts and various components of Information Management
- Management of Information Institutions e.g. Libraries, Information Centres, Data Bank, Referral Centres. etc.
- Modern trends of Management. Management of Physical Environment

Unit – II: Planning of Library and Information Centres

- Types of Planning – Steps in Planning of Library and Information Systems
- National Information Policy and National Information System Planning
- Project Planning, Strategic Planning Analysis. Policy Making
- Decision Making Process, Concepts Problems. Aids etc., MBO

Unit – III: Information Resource Management

- The Concept of Information Management (IM)
- Resource Management and Development: Human. Financial and E-Resources
- Information Resources
- IRM System and Services
- IRM Educational Programmes
- Resource Mobilization and Outsourcing
- Disaster Management

Unit – IV: Total Quality Management

- Management of Changes in Libraries
- Mission of the Library and Information Centres in 21st Century
- Total Quality Management (TQM) – concept. definition, Quality Assurance, Standards. Bench Marking and Reengineering
- TQM of Library and Information Services and its implementation Processes and Models Quality Control

Unit –V: Collection Management

- Collection Development Need, Objectives and Functions
- Collection Development Policy
- Document Selection: Philosophy and Principles
- Collection Evaluation

Paper – IV
Seminar

This paper is related to major areas of research in the field of library and information science. Every student has to submit at least three seminar papers during the course work related to the topics given below or the topics suggested by the DRC. The seminar paper will be evaluated by the external examiner.

- Information Seeking Behaviour
- Information Technology and its Application to Libraries
- Evaluation of Electronic Resources
- Information Retrieval Tools
- User Studies
- Collection Development
- Human Resource Development
- Theory of Information
- Library Automation
- Digital Libraries
- Open Source Software (OSS) for Libraries
- Library Consortium
- Meta data and its utility for Libraries
- Knowledge Management
- Web based Library Services
- Information Analysis, Consolidation and Re-packaging

- Information Marketing
- Information Sources and its Services
- Information System and its Services
- Bibliomatrics