Department of Library & Information Science  
Saurashtra University, Rajkot  
Course Content for Ph D Course Work  
In  
Library & Information Science  
One Semester 4 Credit Course

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[1] Research Methodology

Unit – 1 Basics of Research
  Research: meaning, need, process and Types of Research  
  Identification & formulation of Research Problem  
  Hypothesis: Formulation and Testing  
  Research Design  
  Review of Literature & its importance  
  Research Ethics

Unit – 2 Research Methods
  Historical Research  
  Descriptive Research – Survey Research  
  Experimental Research  
  Delphi method  
  Case Study  
  Scientific Research & its Components

Unit – 3 Data Collection
  Sampling & Types of Samples  
  Questionnaire  
  Interview  
  Observation  
  Content & Citation analysis  
  Scientometrics  
  Qualitative & Quantitative Techniques

Unit – 4 Analysis Interpretations and Presentation of Data
  Data Analysis: Primary data analysis and Secondary data analysis  
  Presentation of data  
  Use of Statistical Packages: SPSS

Unit – 5 Research Reporting
  Structure, style and contents  
  Style manuals: (Chicago, APA, and MLA)  
  Evaluation of research  
  Current trends in LIS research

Unit – 1 Computer Application for Research
Understanding Data processing
MS Office Package [Word, Excel, Access, PowerPoint]
Graphical Presentation of Data
Understanding Multimedia Tools

Unit – 2 Information & Communication Technology [ICT]
Origin and Growth
Information Technology and its components
Communication Technology and its components

Unit – 3 INTERNET
Introduction to Internet
Types of Internet Connectivity
Web Browsers: [i.e. Internet Explorer, Mozilla Firefox, and Google Chrome]
Web Servers and Web Tools
Search Engines [General, Metasearch engines, and Subject specific search engines]
Information Searching Models
Internet based Information Resources and Services
Review of Research Oriented Databases
Use of Internet in LIS Research
Evaluation of Internet sites useful for LIS Research
Internet Security

Unit – 4 Digital Libraries
Digital libraries: Basic Concepts
Digital Collection (e-books, e-journals etc)
Hardware and Software for Digital Library
Open Access resources and Institutional repositories
Content creation for Digital Libraries
Important Digital Library projects in the world and India
Intellectual Property Right (IPR) Issues

Unit – 5 Current Trends in ICT
Web 2.0: concepts, evolution and components
Difference between Web 1.0 & Web 2.0 Applications
Use of Web 2.0 tools for LIS research
Web 3.0 (Semantic Web)

[3] Review of Literature

Review of literature should be relevant to the research area of each candidate individually