

**Ph. D Course Work**  
**Faculty of Interdisciplinary Studies**  
**Module-1: RESEARCH METHODOLOGY**

Teaching scheme  
Lectures: 05 Hrs/week  
Credits: 05

Examination Scheme  
Theory: 80 Marks  
Internal Assessment: 20  
Duration: 3 Hrs

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**Theory:**

**Objectives**

- To understand importance of research in the concerned subject
- To know application of types and tools of research in the concerned subject
- To develop skill in research work in the concerned subject

**Unit I Research Process&Design strategies in Research**

1.1 Research Process

- 1.1.1 Meaning, objectives and areas of research in the concerned subject
- 1.1.2 Identification of research problem

- Selection and formulation of research problem
- Specifying objectives
- Formulating hypothesis
- Deciding variables

1.2 Research Design Strategies

- 1.2.1 Descriptive studies
- 1.2.2 Analytical studies
- 1.2.3 Experimental studies

- Randomized control trials
- Non randomized or Non- experimental trials

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## Unit II Sampling Design

- 2.1 Census and sample survey
- 2.2 Characteristics of good sample design
- 2.3 Implications of sample design
- 2.4 Sampling Techniques
  - 2.4.1 Probability or random sampling
  - 2.4.2 Non-probability sampling

## Unit III Measurement scales, Research tools and Data Collection

- 3.1 Measurement scales, scaling techniques, scale construction techniques
- 3.2 Research tools, types of tools; Questionnaire, interview schedule Observation, Construction of Questionnaire/ Schedule
- 3.3 Types of data
  - 3.3.1 Primary data and Secondary data
  - 3.3.2 Qualitative and Quantitative data

## Unit IV Statistical Analysis

- 4.1 Application of parametric tests
- 4.2 Application of Non parametric tests
- 4.3 Use of computer for data analysis – Knowledge of different types of software for statistical analysis: SPSS and EXCEL.

## Unit V Scientific Writing of Research report:

- 5.1 Scientific writing techniques of the thesis
  - Norms, format, language and technical rules
- 5.2 Bibliography, Referencing, Style of Referencing and Appendix.
- 5.3 Ethics of qualitative research and quality of researcher.
- 5.4 Research papers: Norms of writing research papers and articles in National and International Journals.

## References:

1. Arvind Chandra and T. P. Sexena; Style Manual for writing: Thesis, Dissertation and Papers in social sciences, New Delhi Metropolitan Book Co.pvt Ltd
2. Bryman A. And Cramer D (1994) Quantitative Data analysis for Social Scientist
3. Best John W and Kahn James B. 1989 Research in Education, New Delhi, Prentice Hall of India Private Limited
4. Kerlinger, Foundation of Educational Research
5. Kothari C. R. 1996 Research Methodology-Methods and Techniques, New Delhi. VishwaPrakashan
6. K. Sing, (1986) Techniques and Methods of Social Survey Research and Statistics, Prakashan Kendra, Lucknow.
7. Ingle P.O. (2012) Scientific and Technical Report Writing.
8. Kothari C. R. (2004) Research Methodology : Methods and Techniques, New Age International (P) Limited.



**Ph. D. COURSEWORK**

**Syllabus for Module-2 : ICT (Information and Communication Technology ) Skills**

**(Syllabus for the faculties of Science and Technology, Commerce and Management,  
Humanities, Inter-disciplinary Studies**

Teaching scheme  
Term Work: 04 Hrs/week  
Credits : 02

Examination Scheme  
Term Work: 50 Marks

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**Course objectives:**

- To learn and acquire the skills using ICT tools..
- To learn the basics of Information Technology.
- To learn and acquire the word processing skills.
- To learn and acquire the spreadsheet processing skills.
- To learn and acquire the presentation skills using ICT tools.
- To learn and acquire the internet searching using ICT tools.

**Unit I :INTRODUCTION**

IT (Information Technology),ICT (Information and Communication Technology)

CT (Computer Technology) Characteristics of a Computer, Limitations of a Computer Different Types of Computers, Different Types of Personal Computers (PCs) . Main parts of a Computer system : Processing Devices, Memory Devices, Input Devices, Output Devices, Storage Devices. Categories of Software, Application Software. Computer Network: Basic hardware and terminology in networks, Classifications of Computer Networks, The Internet, The Intranet and Extranet.

**Unit II :INTRODUCTION TO OPERATING SYSTEM & WORD  
PROCESSING SOFTWARE**

*(Latest Versions of the Operating System/ Word Processing Software are Recommended)*

Installing Windows, Basic Operations in Windows, Interface, Introduction to Windows File System, Storing and Managing Data, Windows User Accounts, The System Settings. Adjusting the Computers Settings. Introduction to MS Office. Word Processing with MS-Word : basic operations- Editing, Proofing, and Formatting text, paragraphs and pages, Printing the documents. Working with tables, images. Mail merge. Working with Charts, Equations, Symbols.

**Unit III : INTRODUCTION TO SPREADSHEET SOFTWARE**

*(Latest Version of the Spreadsheet Software is Recommended)*

Introduction to MS Excel and its User Interface. Working with workbooks, work sheets. Data Entry techniques. Defining data set as a Table. Setting, Previewing, and Printing under MS-Excel. Performing Calculations on Data. Working with Excel Formulas, Functions and Charts. Sorting/ Filtering data.



**Unit IV : INTRODUCTION TO PRESENTATION SOFTWARE**

*(Latest Version of the Presentation Software is Recommended)*

Working with MS PowerPoint. Presentation Basics. Adding more components to the slides, Formatting Presentations, backgrounds and layout. Applying Themes. Using Slide Master. Working with Graphics, Images and Clips. Working with Multimedia. Inserting Sound and Narration. Delivering Presentations. Animating Objects. Adding Action effects. Live Presentation. Using Custom Shows. Saving/Protecting the Presentation. Printing the slides.

**Unit V : INTRODUCTION TO THE INTERNET**

The Internet: an introduction, Meaning and benefits of the Internet? The history of the Internet, Differences between Internet and World Wide Web. Connecting to the Internet. Web Browsers. User Interfaces of Web Browsers. Browser Customization. Search Engines. E-mail: Basic Concepts and terminologies. Using emails. Security and risk in Internet.

E-commerce. E-learning. E-Government. E-entertainment. Top Ten Future Trends- The Internet by 2020.

**Reference Books:**

1. Shirish Chavan "Rapidex Computer Course", Unicorn Books.
2. Alexis Leon & Mathews Leon , " Fundamentals of Information Technology", Vikas Publishing.
3. Peter Norton "Introduction to Computers" , 6th International Edition (McGraw Hill)
4. Williams Sawyer, "Using Information Technology: A Practical Introduction to Computer & Communications" 6th International Edition (McGraw Hill).
5. Sarah E. Hutchinson and Stacey C. Sawyer, "Computers, Communications & information: A user's introduction", MacGraw Hill.

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**Ph. D. COURSEWORK**

**Syllabus for Module-2 : ICT (Information and Communication Technology ) Skills**

(Syllabus for the Subject – Law)

**Faculty of Humanities**

Teaching scheme  
Lectures: 04 Hrs/week  
Credits :02

Examination Scheme  
Internal Assessment-50 (Practical)  
Duration: 3 Hrs

**Course objectives:**

The course has an objective to expose the scholar with ICT technology and its mechanism, use, application to the field of Legal Research. The Computer is a useful tool for management and manipulation, retrieval, depository for information and storage of data. Internet technology helps accessing the data, uploading, sharing and linkage. It further helps to generate opinion, platform for data collection, cost effect and resourceful.

This Module aimed at to develop the skill of scholar for optimum use of ICT for the purpose of research.  
The board area for this module will be as follows –



**Unit I :**

Technology as a tool to accelerate Legal research.  
Search Engines for retrieving information, Databases and access to legal data and transactional legal documents

**Unit II :**

Use of computer for data management and data manipulation.  
Various software helpful for data presentation, tabulation, and arrangement in accordance with variable.

**Unit III :**

Social media as an instrument for seeking opinion, response, access to public opinion  
Citation methods for Internet material and References mechanism for Internet material

**Unit IV :**

Different tools for collecting data via network e.g. Interview through 'skype'  
Access to various databases of legal material and its arrangements and mapping

**Unit V :**

Use of ICT for scheduling, planning, time management and accelerating progress of research  
Various issues with respect to the internet material other than 'literary work' and its use for the purpose of research

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**Ph. D. COURSEWORK**

**Module-3 : Recent Trends in the Subject**

**(For all Faculties)**

Teaching scheme  
Term Work: 04 Hrs/week  
Credits : 02

Examination Scheme  
Term Work: 50 Marks

Historical Development in Subject/Research Area, Growth and Development in Subject/Research Area, Contributors in Subject/Research Area, Institutions in Subject/Research Area. (डॉ. धारकर)

Trends in Subject/Research Area, Changing Perspective in Subject/Research Area, International Trends in Subject/Research Area , Current State in Subject/Research Area. (डॉ. वातकर)

World Literature in Subject/Research Area, Print Information Resources, Electronic Information Resources , Selection of Information Sources. (डॉ. सामुंडे) 16

Scope and Objectives of Subject/Research Area, Scope of Subject/Research Area, Objectives of Subject/Research Area , Assumptions and Propositions in Subject/Research Area. (डॉ. वस)

**References :**

List of References /Books /Monograms/ Handbooks/Encyclopaedia/Resources shall be provided by the Research Centre.



**Ph. D. COURSEWORK**

**Module-4 : Review of Literature**

**(For all Faculties)**

Teaching scheme  
Term Work: 04 Hrs/week  
Credits : 02

Examination Scheme  
Term Work: 50 Marks

A literature review is a search and evaluation of the available literature in your given subject or chosen topic area. This is two credit course is meant to give the instructions to research scholars how to select the research problem in specific area. A literature review can be acting as the first stage of research projects. A literature review is a critical and in depth evaluation of previous research. It is a summary and synopsis of a particular area of research, allowing anybody reading the paper to establish why you are pursuing this particular research. A literature review expands on the reasons behind selecting a particular research question. A literature review should avoid the temptation of stressing the importance of a particular research program it is better to organize the review around ideas and individual points.

**Expectations:**

Research scholars shall submit the literature review which included the following parameters;

- Research scholar should classify a research region,
- Formulate research area,
- Decide the place/region where research perform/Research process,
- Diagnose the research problem,
- Historical background of research topic,
- Surveys of existing research reports on selected research topic,
- Utility/impact of selected research topic finding,
- Future scope of selected research topic,
- Research Design/Plan etc.

**While conducting a Literature Review Consider the following Points:**

- Evaluation of the credibility of sources is one of the most difficult aspects of a literature review, especially with the ease of finding information on the internet.
- Search engine does not distinguish or judge the quality of results. This is why it is still good practice to begin research in an academic library. Any journals found there can be regarded as safe and credible. The easiest way is to scan the work, using the abstract and introduction.
- Check into the credentials of any source which you rely on heavily for the literature review. The reputation of the University or organization is one of the factor.

**Literature Review Writing Format:** As a general rule for writing a literature review,

- Each paragraph should address one point, and
- Present all of the available evidence,
- Evaluate all of the available evidence
- From all possible differing points of view
- Formulate the research problem and future scope.



**Ph. D. COURSEWORK**

**Module-5 : Seminar**

**(For all Faculties)**

Teaching scheme  
Term Work: 01 Hr/week  
Credits : 01

Examination Scheme  
Term Work: 50 Marks

This one credit course is meant to give scholars practice speaking in front of an audience and to explore topics of the chosen field in detail. Scholars will do the research on relevant topics and organize presentations for faculty and other scholars. The topics may be any aspect of the related domain and must be approved by the supervisor in advance

**Expectations:**

Attendance at each seminar is mandatory for all scholars enrolled. In addition, scholars are expected to attend all other seminars in the research center, such as invited guest speakers. It is expected that scholars will actively participate by asking questions of the speaker. The effort by scholars to meet these expectations will be considered in the determination of the final grade.

The scholar should strive for professionalism in all aspects of this class. Whereas most scholars choose to use PowerPoint to present their seminar, overheads, 35-mm slides or the chalkboard are also acceptable media for visual aids.

Each scholar shall give 20-minute presentations. The seminar should cover several (3-4, or more) related papers in a given area. The topic may be in an area closely related to the proposed research. The scholar should be thoroughly familiar with the literature on the chosen topic. The seminar should be organized into a cohesive presentation.

Scholars shall submit a detailed outline (1 – 1.5 pages) of the presentation and also a brief abstract (one or two paragraphs; **250 words max.**) describing the presentation.

The final grade shall be determined by several factors: the quality and content of the seminars, improvement from the first to the last, participation in the class as a whole, and ability to meet scheduled deadlines.

**Proposal Seminar Delivery Format:**

- Introduction of the scholar/supervisor
- Introduction and background information on the topic. What relevant research has been performed previously?
- State the problem(s) that remain unanswered.
- Clearly state the objectives and give the specific hypotheses needs to test.
- Describe the methodology to test the proposed hypotheses. Give reasons why chosen these methods over other approaches.
- Present any data collected thus far.
- Describe what remains to be done, and what is expected to find.
- Explain the significance of the findings (or potential future findings).