# School of Social Sciences
# Devi Ahilya University, Indore

# Syllabus 2017-18

## Ph.D. Course Work

## Geography

# Scheme

| S. No. | Paper Code | Paper Name | Credit |
|--------|-----------|-----------|--------|
| 1. | 001 | Research Methodology | 4 credits |
| 2. | 002 | Review of Published Research in the relevant field | 3 credits |
| 3. | 003 | Computer Applications | 3 credits |
| 4. | 004 | Advance course in the relevant subject: Advanced Cartographic Techniques in Geography | 3 credits |
| 5. | 005 | Comprehensive Viva-Voce | 3 credits |

## Paper I: Research Methodology

### UNIT I
Definition, Concept, Types, Importance, Formulation of Research problem, Research process, Research design, Data collection tools, Primary and Secondary data.

### UNIT II
Qualitative and Quantitative research, Measurements of Scales in Social Sciences.

### UNIT III
Sampling Vs Census, Types of samples, Probability and Non Probability methods, Importance of sampling in Social Science, Sample size, Sampling Error.

### UNIT IV
Hypothesis, testing of hypothesis, process, types of hypothesis, Sampling distribution, standard errors, test of significance for small and large samples- parametric and non parametric tests.

### UNIT V
Application of Statistical techniques in Research, Measures of central Tendency, Dispersion, Simple correlation, Simple Regression, Normal Distribution, Skewness

### UNIT VI
Diagrammatic and Graphical presentation
Report Writing, Research Proposal, Ethics in Research and Presentation Techniques

*Note: Subject wise Research Methodology will be taught with Respective Papers.

## Paper II : Review of Published Research in the relevant field

# Paper III– Computer Applications

## Introduction

What is Computer?, Computer Block Diagram, Generations, Languages, Characteristics of a Computer, Benefits, Types of a Computer, Configuration of a Computer System, Hardware & Software, Operating System & it's Functions, Input Devices, Out Put Devices, Memory, Number System,Binary, Decimal, Octal, Hexadecimal, Complier, Interpreter, Introduction of Computer Networks, Network Models, Introduction of Database, Role of Computer in Social Science Research & Word Processor.

## MS-Word

Basics:- New, Open Save, Save As, Cut, Copy, interface, Paste, Paste Special, Format Printer Operations, Style, Size, Font, Subscript, Superscript.
Insert:-Hyperlink, Header, Footer, Page Number, Table, Chart.
Page Layout:-Page Setup, Margins, Orientation, Watermark, Indent, Spacing.
References:-Footnote, Endnote, Citations & Bibliography, Captions.
Mailings:-Mail Merge, Review:-Spelling & Grammar, Thesaurus, Comment, Compare, Protect Document, View:-Document Views, Show/Hide, Zoom, Windows

## MS-Excel

Basic:- Cell, Worksheet, Workbook, interface, spreadsheet, rearranging workbook, New, open, save, save As, Cut, Copy, Paste, Paste Special, Size Font, Find, Replace, page Setup, page security, Printing options, Page setting, Orientation, Size Wrap text, Merging of cells and columns, sorting, formulas, filtering, tables, charts, working with functions.

## MS PowerPoint

Basic:- New, open, save save As, Cut Copy, interface, Paste, Paste Special, Size, Font, Numbering & Bullets, Margin, Find, Replace, Slides, Slides Layout, Designs, Slide Setup
Animation: - Different types of animations apply on the Slides, text, objects, Different custom animations, Entrance, Emphasis, exit, motion path. Set Slides Navigations on mouse click, automatic, manual.
Slide Show: - Slide show, Custom Slide show, Slide sorter.

## SPSS

SPSS Introduction, Windows:-Data Editor, Output Viewer, Syntax Editor, Script Window, Method of Preparing Data Sheet and Entering Data, SPSS Importance in Research.

## Internet & ICT

Introduction: - Browsers, WWW, Mail accessing and sending mail along with attachments, Mailing interface.
Utility: - Browsing, URL searching, downloading & uploading from/to sites, Domain Name Systems, Search Engine.
Introduction to ICT, ICT infrastructure, Applications of ICT in various countries, Service Providers of ICT

S. Dixit

## Paper IV: Advanced Cartographic Techniques in Geography

### Unit 1

Meaning, nature and scope of Cartography

### Unit 2

Geographical data: Nature, Types Sources etc.

### Unit 3

Types of Cartographic methods and its applications

### Unit 4

Methods to convert geographical data to cartographic techniques

### Unit 5

Applications of GIS & Remote sensing