



## School of Social Sciences Devi Ahilya University, Indore

# Syllabus 2018

Ph.D. / M. Phil.- Course Work

Military Science

Dhawal  
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## 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: Advance Study of Military Science	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

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## **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 & its Functions, Input Devices, Out Put Devices, Memory, Number System, Binary, Decimal, Octal, Hexadecimal, Compiler, 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. Dinesh  
20/05/2024

## **Paper IV: Advance Study of Military Science**

### **Unit-I**

- Relevance and impact of Science and Technology on the Modern Warfare and Pollution of Modern Armament and Tactics.
- Scientific and Technological development and their effects on Tactics, Command and control
- Civil and Defence Technology.
- Role of Research and Development in Modern Wars.
- Defence Industries and Technology.
- Defence Production and Defence Protection.

### **Unit-II**

- Nuclear Weapons and their impact on Tactics, Command and Control.
- Spread of Nuclear Weapons and the security of the world.
- Chemical and Biological Weapons, Air Cushioned Vehicles and their role.
- Guidance and Propulsion.
- Effects of Science in Diminution of human sufferings and world problems.
- Arms Aid and Arms Trade and Its effect on World Security.

### **Unit-III**

- Military applications of RADAR, LASER-Rays, Electronics and Computer
- Remote-Sensing and its applications in the field of Defence and Security
- Satellite and its Military use, Satellite Applications in the Battle-Field
- War and Environment
- Global Positioning System (GPS), C412SR and C51
- Precision Guided Munitions (PGMs)/Smart-Weapons, Remote Control Vehicles (RCVs)
- Computer and Decision Making in the Battle-Field
- Use of Drone in Modern Warfare and Unmanned Aerial Vehicles (UAVs)
- Information Warfare/Cyber Warfare and Space Warfare
- Automation in defence

### **Unit-IV Study of Disputes**

- Japan-China Dispute
- North Korea and South Korea Dispute
- China and Vietnam Dispute
- Arab- Israel Dispute
- Indo-Pak Dispute
- China-India Dispute
- Doklam Dispute and its impact

S.Dinal

Kalyan

## **Unit -V**

- International Terrorism
- International Terrorist Organization and their effect on the World-Peace and Security
- Pre evolution of Islamic State of Iraq and Syria (ISIS) and its threat to the Global peace
- Terrorism in India and International Terrorism
- Maoism in India and Nepal and its effects
- Insurgency in India in North-East Region, Conflict, Co-Operation and changes
- Naxalism in India and its effects
- World Security Scenario and Indian Philosophy

*S.Dixit*