Course Content of Research Methodology for Ph.D. Entrance Pt. Ravishankar Shukla University, Raipur

1. Introduction to Research

Meaning and Importance of Research, Types of Research, Research Design and Stages, Selection and Formulation of Research Problem, Objective(s) and Hypothesis Developing Research Plan – Exploration, Description, Diagnosis, Experimentation, Determining Experimental and Sample Design.

2. Data Collection Method and Sampling Techniques

Sources of Data – Primary and Secondary, Types of Data – Categorical (nominal and ordinal), Numerical (discrete, continuous, ratio and interval), Methods of Data Collection: Survey, Interviews (in-depth or Key Informant interviews), Focus Group Discussion, Observation, Records or Experimental Observations. Probability Sampling, Random, Stratified, Cluster, Systematic Sampling, Non probability Sampling: Convenience Judgement, Snowball, Quota Sampling

3. Data Analysis

Statistical Graphics – Histograms, Frequency Polygon, Ogive, Dotplots, Stemplots, Bar Graphs, Pareto Charts, Pie Charts, Scatterplots, Boxplots Descriptive Analysis – Frequency Distributions, Measures of Central Tendency, Measures of Variation/Dispersion, Skewness and Kurtosis

4. Scientific Writing and Presentation

Structure and Components of Scientific Reports – Types of Report – Technical Reports and Thesis – Significance – Different steps in the preparation – Layout, Structure and Language of Typical Reports – Illustrations and Tables – Bibliography, Use of Software, Referencing and Foot Notes. Preparation of the Project Proposal – Title, Abstract, Introduction – Rationale, Objectives, Methodology – Time frame and Work Plan – Budget and Justification – References and Citation, and literature Survey

5. Research Ethics

Research Ethics Committees/Institutional Review Board – Roles and Importance, Intellectual Property rights – Commercialization, Royalty Reproduction of Published Material – Citation and Acknowledgement, Plagiarism and Plagiarism Software

(Prof. K. K. SHOJH)

(Prof. Acti Pargariha)

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REFERENCE BOOKS FOR RESEARCH METHODOLOGY

1. Research Methodology	Methods and Techniques	by CR Kothari and G
Garg		
New Age International Pul	olishers	

- 2. Research Methodology: A Step By Step Guide For Beginners, by Ranjit Kumar Pearson
- 3. Research Methodology A Hand Book by R P Mishra
- 4. Research Methodology by Richa Verma, S Verma and Kumar Abhishek Booksclinic Publishers