Research Methodology-Lecture Notes

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Document Content

➤ Topic Explanation
➤ 5 Part A Questions with Answers
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Unit-1 Dr. Gokulakrishnan

Unit-2 ENG23CSE002   HEMATHANMAYA & ENG23CSE007 RAKSHITHA H S

Unit -3 ENG23CSE004 GIRIDHAR S T & ENG23CSE005   JASHWANTH P V

Unit -4 ENG23CSE001 ADITHYA NARAYAN & ENG23CSE003 SHRAVANKUMAR DHANGI

Unit -5 ENG23CSE006 K SAI HARSHA VARDHAN & ENG23CSE008 SUNNY KARMAKAR

UNIT – I: Research Methodology: An Introduction Meaning of Research, Objectives of Research, Motivation in Research, Types of Research, Research Approaches, Significance of Research, Research Methods versus Methodology, Research and Scientific Method, Research Process, Defining the Research Problem: What is a Research Problem? Selecting the Problem, Necessity of Defining the Problem, Technique Involved in Defining a Problem, An Illustration.

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UNIT – II: Research Design Meaning of Research Design, Need for Research Design, Features of a Good Design, Important Concepts Relating to Research Design, Different Research Designs, Basic Principles of Experimental Designs Sampling Design: Census and Sample Survey, Implications of a Sample Design, Steps in Sampling Design, Criteria of Selecting a Sampling Procedure, Characteristics of a Good Sample Design, Different Types of Sample Designs, How to Select a Random Sample? Random Sample from an Infinite Universe Complex Random Sampling Designs

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UNIT – III: Methods of Data Collection Collection of Primary Data, Observation Method Interview Method, Collection of Data through Questionnaires, Collection of Data through Schedules, Difference between Questionnaires and Schedules Some Other Methods of Data Collection, Collection of Secondary Data, Selection of Appropriate Method for Data Collection. Processing and Analysis of Data: Processing Operations, Some Problems in Processing, Elements/Types of Analysis, Statistics in Research, Measures of Central Tendency, Measures of Dispersion, Measures of Asymmetry (Skewness)

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UNIT – IV: Testing Hypothesis What is a Hypothesis? Basic Concepts Concerning Testing of Hypotheses ,Procedure for Hypothesis Testing ,Flow Diagram for Hypothesis Testing , Measuring the Power of a Hypothesis Test ,Tests of Hypotheses ,Important Parametric Tests ,Hypothesis Testing of Means ,Hypothesis Testing for Differences between Means, Hypothesis Testing for Comparing Two Related Samples ,Hypothesis Testing of Proportions ,Hypothesis Testing for Difference between Proportions ,Hypothesis Testing for Comparing a Variance to Some Hypothesized Population Variance, Testing the Equality of Variances of Two Normal Populations, Hypothesis Testing of Correlation Coefficients ,Limitations of the Tests of Hypothesis.

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UNIT – V: Interpretation and Report Writing Meaning of Interpretation, Why Interpretation? Technique of Interpretation: Precaution in Interpretation, Significance of Report Writing Different Steps in Writing Report, Layout of the Research Report, Types of Reports, Oral Presentation, Mechanics of Writing a Research Report, Precautions for Writing Research Reports

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