

SRI KRISHNADEVARAYA UNIVERSITY::ANANTAPUR
DEPARTMENT OF GEOGRAPHY
M.PHIL/PH.D - GEOGRAPHY

PAPER – I GENERAL RESESRCH METHODOLOGY

SYLLABUS

I. Preliminaries in Scientific Research.

1. Research : Needs and Relevance
2. Research : Definition and classification
3. Methods of Scientific and Social Research
4. Research Design and its components
5. Geographic Research : Scope and sequences

II. Identifying a Research Problem

1. Criteria for selecting a Research Problem
2. Sources for selecting a Research Problem
3. Determining the Study Area
4. Hypothesis : Development and Structure
 - (a) Conditions for Hypothesis
 - (b) Sources of Hypothesis
 - (c) Method of Hypothesis Formulation
 - (d) Method of Explanation

III. Colleting and Analyzing the Geographical Data

1. Types and Sources of Data
2. Methods of Data Collection – Experiments, Surveys, Questionnaires and Interviews – Guiding Principles for Framing Questions
3. Sampling Procedures Non-Random and Random Point, Line and Area Sampling.
4. Statistical and Cartographic Compilations
 - (a) Measures of Dispersion
 - (b) Correlation and Regression Analysis
 - (c) Testing the Hypothesis
 - (d) Computer Cartography

IV Remote Sensing and GIS

1. Elements of Remote Sensing and Types of Remote Sensing Products
2. Principles and Elements of Visual interpretation.