

# **Swami Rama Himalayan University**

## **Ph.D. Syllabus for Entrance Examination**

### **Research Methodology**

#### **Unit I**

Introduction of Research, Nature and purpose of scientific enquiry, Parameters of research, Problem Definition, Definition of construct and variables, Research Process, Steps in Research Process.

#### **Unit II**

Research Design, Concepts and Type of research design, Design of research on the basis of application—pure and applied, Design of research on the basis of Techniques/Methodology -Exploratory and, Descriptive, Descriptive Research – Qualitative and Quantitative, Quantitative – Field studies, Field experiments and laboratory experiments, Design of research on the basis of area of research – research in Social sciences and, Physical sciences,

#### **Unit III**

Measures of Central Tendency: Mean, Median and Mode

#### **Unit IV**

##### **Reading Comprehension**

Meaning of individual words and sentences

Meaning of paragraphs and larger bodies of text

Drawing conclusions from the information provided

Reasoning from incomplete data to infer missing information

#### **Unit V**

##### **Reasoning- Mathematical, Logical and Analytical**

Number Series; Letter Series; Codes, Relationships; Classification, Understanding the Structure of Argument, Evaluating and distinguishing Deductive and Inductive Reasoning, Verbal Analogies; Word Analogy – Applied Analogy, Verbal Classification, Reasoning Logical Diagrams: Simple Diagrammatic Relationship, Multi-Diagrammatic Relationship, Venn diagram; Analytical Reasoning