

SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY) PhD ENTRANCE TEST

The Syllabus of Research Methodology

1. General
 - Overview of Research: Meaning, purpose, significance of ethical conduct in research, Classification of Research based on its purpose (Basic, Applied, Evaluation and Action Research) • Scientific Thinking: Types of reasoning, Critical Thinking, Importance of existing knowledgebase (research literature) • Elements of Research: Concepts, Constructs, Definitions – Theoretical and Operational, Theory, Literature Review and its importance, Models, research questions and objectives, research design and methodology.
2. Quantitative Research Methods: Variables, Conjecture, Hypothesis, Measurement, Types of data and scales, Sample, Sampling techniques, Probability, Probability Distributions, Hypothesis Testing, Level of Significance and Confidence Interval, t-test, ANOVA, Correlation, Regression Analysis
3. • Qualitative Research Method: Types of approaches – Narrative, phenomenological, grounded theory, ethnographic, case study, Data Sources: Interviews, Focus groups, observations, approaches to analysis of qualitative data –coding, content analysis