

IK Gujral Punjab Technical University Jalandhar

PhD Entrance Test 2020-21

Syllabus of Research Methodology

Research: Meaning, definition and scope, Steps in Research: defining the research problem, review of literature, hypothesis formulation, panel study, data collection, presentation, analysis and interpretation of data and presentation of results.

Research Design: Meaning, Types – Descriptive, Diagnostic, Exploratory, and Experimental.

Data Interpretation: Sources, acquisition and interpretation of data; quantitative and qualitative data; graphical representation and mapping of data, classification, tabulation, depiction of data.

Statistics in research : Percentages, Frequency distribution, Averages, Measures of Central tendency, Arithmetic mean, Median, Mode, Geometric Mean, Harmonic Mean, Dispersion, Range, Mean Deviation, Standard deviation, Root mean square deviation, Variance, Moments