

Nirma University

Institute of Architecture and Planning

PhD Programme

PhD Entrance Test Syllabus

(July 2023)

Research Methodology

Research objective: Theory Building versus Design Application

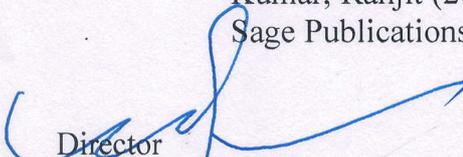
Literature review

Logical argument formation - Deductive and Inductive Logic

- 1) Research design for systematic inquiry
 - Research paradigm
 - Research Questions
 - Hypothesis
- 2) Research methods
 - Historical Research
 - Determinative Evidence
 - Inferential Evidence
 - Recollective Evidence
 - Qualitative research
 - Ethnography
 - Phenomenology
 - Grounded theory Approach
 - Integrated Approach
 - Case studies
 - o Experimental research (Action research)
 - o Simulation research
 - o Correlational research (quantitative)
- 3) Tools and tactics
 - Data collection
 - Surveys
 - Interviews
 - Visual Observation
 - Archives
 - Data collation and analysis
 - Coding
 - Analysis (including Software use)
 - Reporting/ presenting research outcome

★ References:

- Groat, Linda & Wang, David (2013) Architectural Research Methods; Wiley publications
- Kumar, Ranjit (2010) Research Methodology: a step-by-step guide for beginners,. Sage Publications


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