

Syllabus : Ph.D. Entrance Exam for Architecture

Research Methodology :

Research objective: Theory Building versus Design Application

Literature review

Logical argument formation – Deductive and Inductive Logic

Research design for systematic inquiry

- Research Paradigm
- Research Questions
- Hypothesis

Research methods

- Historical research
 - Determinative Evidence
 - Inferential Evidence
 - Recollective Evidence
- Qualitative research
 - Ethnography
 - Phenomenology
 - Grounded Theory Approach
 - Integrated approach
 - Case studies
- Experimental research (Action research)
- Simulation research
- Correlational research (Quantitative)

Tools and tactics

- Data collection
 - Surveys
 - Interviews
 - Visual Observation
 - Documenting Artefacts
 - Spatial and visual mapping
 - Activity Mapping
 - 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