

# RAJIV GANDHI PROUDYOGIKI VISHWA VIDYALAYA, BHOPAL (M.P.)

## MASTER OF ARCHITECTURE

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### SEMESTER – IV

#### MAR-221; RESEARCH STRATEGIES

##### OBJECTIVE:

- To train students in research design and methods.

##### CONTENT:

- Research in architecture and planning-its importance, purpose and scope in the professional and academic fields; common and exclusive areas of research in architecture and planning.
- Overview of architectural and design research techniques in areas such as architectural technology, environment and behavior, design methods, architectural theory, design programming; Post-occupancy evaluation; Users' participation.
- Overview of planning research areas that contributes to the shaping of neighborhoods, communities, settlements and regions as well as infrastructure provisions and sustainable development
- Research sequence and methods; Problem identification, formulation of hypothesis, objectives and methodology; Literature survey and preparation of bibliography and sources of data.
- Qualitative, interpretative, correlation, analytical, experimental and quasi-experimental, modeling and simulation research methods; Case- studies.
- Field surveys- physical, architectural, land use, environmental, organizational and household surveys; Preparation of schedules, questionnaires and other data sheets; Pilot surveys; Formulation of database.
- Techniques and methods of analyzing architectural data, establishing correlations and interrelationships; Environmental network analysis and conclusions; Forecasting and modeling and validation.
- Evaluation and appraisal of architectural and planning projects; Techniques of writing thesis, project and master plan reports, research papers for publication; Presentation techniques

##### SUGGESTED BOOKS:

- Knight, A. And Ruddock,L., “Advanced Research Methods in Built Environment”, John Wiley & Sons. 2008
- Groat, L. And Wang D., “Architectural Research Methods”, John Wiley & Sons. 2002
- Gibbs, J.P., “ Urban Research Methods”, (rev.ed.) Von Nostrand. 1988
- Khanzode, V.V., “Research Methodology -Techniques and Trends”, APH Publishing. 1995
- Kothari, C.R., “Research Methodology- Methods and Techniques”, New Age International. 2004
- Ross, R., “Research: An Introduction”, Barnes and Noble Books. 1974

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### MAR-222; DISSERTATION-II

#### OBJECTIVE:

- To do the live design project in any subject related to architecture and submit it in the form of report

#### CONTENT:

- Architecture thesis will consist of two parts:
  - Research oriented towards establishing a strong theoretical background for the chosen subject.
  - Application to an Architecture Planning or Architecture Design proposal with appropriate details.

#### APPROACH:

- Professional communication skill shall be evaluated periodically through communication skill by judgment at the time of presentation by the concerned student.