

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

MASTER OF ARCHITECTURE

SEMESTER – III

MAR-211; URBAN TRANSFORMATION & EXTENSION

OBJECTIVE

- To comprehend the process of urbanization in developing countries.
- To provide understanding on the causes and effects of urbanization.
- To focus on the effect of unplanned urbanization on urban spaces ,land use, infrastructure, society, economy and environment.
- To understand urban process: strategies, tools, policies, planning urban management and governance.

CONTENT

- **URBANIZATION:** Defining urban, the process of urbanization, causes and effects of urbanization, Differences between characteristics of urban areas and urbanization in developing and developed countries, Historic planning principles that paved way for the recent principles (example: the principles of Howard, Mumford), emerging concepts under urban transformation, planning cultures and planning models
- **URBANIZATION AND THE URBAN SPACE :**Urban form and architecture, urban transformation in heritage sites, landscapes, waterfronts, and public spaces
- **URBANIZATION, LAND USE AND INFRASTRUCTURE :**Housing and squatter settlements, commercial and industrial districts, transportation and infrastructure
- **SUSTAINABLE URBANIZATION :**Sustainable development, social inclusion, social justice, urban poverty, gentrification, political economy of urban transformation, financial arrangements in urban transformation, sustainable transformation, green interventions, disaster management.
- **PLANNING PROCESS :**Urban planning process, Actors involved, Planning network and network management, Strategies, Tools and policies. Urban planning process in India.

SUGGESTED BOOKS:

- 1.Vítor Oliveira,“Urban Morphology: An Introduction to the Study of the Physical Form of Cities (The Urban Book Series)” , Springer, 2016Jenks, Compact City: Sustainable urban form in developing countries., E & FN Spon, London 2000

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- 2. Leonhard Schenk, „Designing Cities“, Birkhäuser, 2013
- 3. P. Hall, Urban and regional planning. Rutledge. Taylor and Francis group. London,. 2002
- 4. Peter Hall and Mark Tewdwr-Jones, “Urban and Regional Planning” 2010

MAR-212; M.ARCH DESSERTATION-I

OBJECTIVES

After successful completion of this course, student should be able to:

- Pursue an idea of research with depth of inquiry, criticality and logic and carry out an in-depth investigation of an area of Architecture that he/she is interested in.

CONTENT:

Studio: The student will be guided in their work by their selected / appointed guides throughout the three courses to produce an illustrative, written dissertation. The dissertation calls for a substantial impetus on the quality and quantity of output, besides having a thrust on newer and more relevant areas of research / design and plan intervention / application of planning, design and analytical tools and techniques. The choice of subject, formulation of Design Programme, Site investigation and selection, and finally culmination in the concrete design demonstration shall depend upon many factors such as student's personal interest, circumstances and abilities. A careful check shall be made to see that access is available to relevant buildings and to appropriate libraries, record offices, laboratories and other technical resources. Students are expected to complete the project, with critical remarks and assessment from the counselor.

Following is a list of few Building Types for reference; the student is free to choose any other Architectural topic of their interest.

- Housing Individual or Group Housing Schemes.
- Transportation Projects: Railway stations, City / Interstate Bus Terminus / Domestic and International Air Ports
- Cultural, Educational Projects: Display oriented topics like Museums, Art Galleries, and Theatres for Performing Arts such as Drama, Dance and Music.
- University and College campuses, Libraries etc.
- Sports Recreation and Tourism oriented topics: Stadium, Gymnasium, Swimming Pool, Students Recreation Centers, Clubs, Tourist Resorts, Holiday Homes, Motels, and Conference Centers etc.
- Administrative and Civic Buildings : Private and Government Offices, work centers, Town Halls, Police Headquarters, Law Courts etc.

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- Industrial Projects: Factories, Specialized Production Centers such as Pharmacy Industry, IT Parks and related types of building
- Technical and Specialized topics such as: Hospitals, Clinics, Film and T. V. Studios,

MAR- 213; SEMINAR-II

OBJECTIVES :(1) To equip the students to read and understand concepts, information, experiments, field studies through research papers, essays, books, articles and other sources;

(2) Assist them to understand the arguments/discussion and methodology and form connections with their Studio.

PADAGOGY: Introduces the students to the process of critical enquiry within a specific field or topic by way of reading other works and understanding the arguments, forming coherent connections, writing to communicate hypotheses, supported by valid arguments.

MAR-214; ARCHITECTURAL STUDIO-III

OBJECTIVE:

After the completion of this course, students should be able to:

- Acquire a comprehensive base of knowledge required for the practice of architecture.
- Develop awareness in physical context about implications of limited resources in design decision making.

CONTENT:

Architectural design project of a large magnitude in one of or similar categories of building typology emphasizing on need of Advance construction techniques and Advance Building services like: Projects for High end hospitality, industry, Super specialty hospitals, Airports & mass transportation terminals, Research laboratories, High end IT Park & establishments, High rise buildings, State Secretariat and assembly, etc.

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SUGESSTED BOOKS:

Dennis Sharp Editor “Planning and Architecture”.

- Leggett S Bru Baker C.W.& Cohodes A.” Planning feasible learning places”.
- Town Health “Methods in 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

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- Kothari, C.R., “Research Methodology- Methods and Techniques”, New Age International. 2004
- Ross, R., “Research: An Introduction”, Barnes and Noble Books. 1974

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 consists 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.