Code: AR  Architecture and Planning

City Planning: Evolution of Cities; Principles of City Planning; Types of Cities & New Towns; Planning Regulations and Building Byelaws; Climate Change and Eco-City Concept and other emerging concepts such as urban agriculture TOD, smart city etc; Sustainable Development, disaster resilient urban planning, Inclusive Planning

Housing: Concept of Housing; Neighborhood Concept; Site Planning Principles; Housing Typology; Housing Standards; Housing Infrastructure; Housing Policies, Finance and Management; Housing Programs in India; Affordable Housing and Self Help Housing, Eco-Friendly housing, Age- Friendly housing.

Landscape Design: Principles of Landscape Design and Site Planning; History of Landscape Styles; Landscape Elements and Materials; Plant Characteristics & Planting Design; Environmental Considerations in Landscape Planning.

Computer Aided Design: Application of Computers in Architecture and Planning; Understanding Elements of Hardware and Software; Computer Graphics; Programming Languages C and Visual Basic and Usage of Packages such as AutoCAD, 3D-Studio, 3D Max.

Environmental Studies in Building Science: Components of Ecosystem; Ecological Principles Concerning Environment; Climate Responsive Design; Energy Efficient Building Design, Green Building Concepts and Ratings; Thermal Comfort; Solar Architecture; Principles of Lighting and Styles for Illumination; Basic Principles of Architectural Acoustics; Environment Pollution, Their Control & Abatement.

Visual and Urban Design: Principles of Visual Composition; Proportion, Scale, Rhythm, Symmetry, Harmony, Datum, Balance, Form, Color, Texture; Sense of Place and Space, Division of Space; Barrier Free Design; Theories and concepts of Urban Design, Focal Point, Vista, Image Ability, Visual Survey, Figure-Background Relationship.


Building Construction and Management: Building Construction Techniques, Methods and Details; Building Systems and Prefabrication of Building Elements; Principles of Modular Coordination; Estimation, Specification, Valuation, Professional Practice; Project Management Techniques E.G., PERT, CPM Etc;
Materials and Structural Systems: Behavioral Characteristics of All Types of Building Materials E.G. Mud, Timber, Bamboo, Brick, Concrete, Steel, Glass, FRP, Different Polymers, Composites; Principles of Strength of Materials; Design of Structural Elements in Wood, Steel and RCC; Elastic and Limit State Design; Complex Structural Systems; Principles of Pre-Stressing; Tall Buildings; Principles of Disaster Resistant Structures.

Planning Theory: Regional Planning; Settlement System Planning; History of Human Settlements; Growth of Cities & Metropolises; Principles of Ekistics; Rural-Urban Migration; Urban Conservation; Urban Renewal; Five-Year Plan; Structural and Sectoral Plan, Master Plan, Zonal Plan and Local Area Plan, Planning in rural areas.


Development Administration and Management: Planning Laws; Development Control and Zoning Regulations; URDPFI Guidelines, Laws Relating to Land Acquisition; Development Enforcements, Urban Land Ceiling; Land Management Techniques; Planning and Municipal Administration; Disaster Mitigation Management; 73rd & 74th Constitutional Amendments; Valuation & Taxation; Revenue Resources and Fiscal Management; Public Participation and Role of NGO & CBO; Institutional Networking & Capacity Building. UN –Habitat norms, Urban and regional governance, participatory approach in planning

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