SYLLABUS for post of Asst. Architect in NDMC

1. **Architecture, Planning, and Design**

   Architectural Graphics; Visual composition in 2D and 3D; Computer application in Architecture and Planning; Anthropometrics; Organization of space; Circulation- horizontal and vertical; Space Standards; Universal design; Building byelaws; Codes and standards;

2. **Construction and Management**

   Project management techniques e.g. PERT, CPM etc., Estimation and Specification; Professional practice and ethics; Form and Structure; Temporary structures for rehabilitation.

3. **Environmental Planning and Design**

   Natural and man-made ecosystem; Ecological principles; Environmental considerations in Planning and design; Environmental pollution- types, causes, controls and abatement strategies.

4. **Urban Design, Landscape and Conservation**

   Historical and modern examples of urban design; Elements of urban built environment - urban form, spaces, structure, pattern, fabric, texture, grain etc.; Concepts and theories of urban design; Principles, tools and techniques of urban design; Public spaces, character, spatial qualities and Sense of Place; Urban design interventions for sustainable development and transportation; Development controls - FAR, densities and building byelaws.; Urban renewal and conservation.

5. **Planning process**

   Salient concepts, theories and principles of urban planning; concepts of cities - Eco-City, Smart City; Concepts and theories by trendsetting planners and designers; Ekistics; Urban sociology; Social, Economic and environmental cost benefit analysis; Methods of non-spatial and spatial data analysis.

6. **Housing**

   Housing typologies; Concepts, principles and examples of neighborhood. Residential densities; Affordable Housing; Real estate valuation;

7. **Services and Infrastructure**

Firefighting Systems; Building Safety and Security systems, water treatment; Water supply and distribution systems, Water harvesting systems. Solar architecture; Thermal, visual, and acoustic comfort in built environments; Natural and Mechanical ventilation in buildings, Air- Conditioning systems

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9. **History and Contemporary Architecture**

Principles of Art and Architecture; World History of Architecture: Influence of Modern art and Design in Architecture; Indian vernacular and traditional Architecture, Works of renowned national and international architects

10. **Building Construction and Structural Systems**

Building construction techniques, methods and details; Building systems and prefabrication of building elements; Principles of Modular Coordination; Construction planning and equipment; Building material characteristics and applications; Principles of strength of materials; Alternative building materials.

11. **Computer Applications in Architecture**

Computer software application in architecture. Use of software like AutoCAD & Sketchup Rendering applications, 2D and 3D modeling