



- दि.28.01.2025 रोजी सिडको संकेतस्थळावर क्षेत्राधिकारी (वास्तुशास्त्रज्ञ) या पदासाठी प्रसिद्ध केलेल्या जाहिरातीच्या अन्वये व्यावसायिक ज्ञान या विषयासाठीचा अभ्यासक्रम:-

Sr. No.	Subject	Details
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; Principles and design of disaster resistant structures; 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; Sustainable development, goals and strategies; Climate change and built environment; Climate responsive design;
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; heritage conservation; historical public spaces and gardens; Landscape design; Site planning;
5	History and Contemporary Architecture	Principles of Art and Architecture; World History of Architecture: Egyptian, Greco-Roman classical period, Byzantine, Gothic, Renaissance, Baroque-Rococo, etc.; Recent trends in Contemporary Architecture: Art nouveau, Art Deco, Eclecticism, International styles, Post Modernism, Deconstruction in architecture, etc.;

		Influence of Modern art and Design in Architecture; Indian vernacular and traditional Architecture, Oriental Architecture; Works of renowned national and international architects;
6	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; Foundations; Design of structural elements with different materials; Elastic and Limit State design; Structural systems; Principles of Pre-stressing; High Rise and Long Span structures, gravity and lateral load resisting systems;
7	Building Services and Sustainability	Solar architecture; Thermal, visual and acoustic comfort in built environments; Natural and Mechanical ventilation in buildings; Air-Conditioning systems; Sustainable building strategies; Building Performance Simulation and Evaluation; Intelligent Buildings; Water supply; Sewerage and drainage systems; Sanitary fittings and fixtures; Plumbing systems; Principles of internal and external drainage system; Principles of electrification of buildings; Elevators and Escalators - standards and uses;

- दि.28.01.2025 रोजी सिडको संकेतस्थळावर सहयोगी नियोजनकार, उपनियोजनकार व कनिष्ठ नियोजनकार या पदासाठी प्रसिद्ध केलेल्या जाहिरातीच्या अन्वये व्यावसायिक ज्ञान या विषयासाठीचा अभ्यासक्रम:-

Sr. No.	Subject	Details
1	Theories of Planning	<ul style="list-style-type: none"> ➤ Garden City Concept, Geddiian Trio Concept, Concentric zone model, Sector Theory, Multi-nuclei theory, Neighborhood Concept ➤ Central Place Theory by Christaller and Losch
2	Urbanisation, Govt. Schemes and Missions	<ul style="list-style-type: none"> ➤ Atal Mission for Rejuvenation and Urban Transformation, Shyama Prasad Mukherjee Rurban Mission, Pradhan Mantri Awas Yojna, Smart City ➤ National Urban Information System, National Natural Resources Management System, India Urban Observatory, Various schemes for financial assistance, to Municipal Councils under plan schemes
3	Policies in India and Maharashtra	<ul style="list-style-type: none"> ➤ National Urban Transport Policy, National Land-utilisation policy, National Housing Policy National Energy Policy, The Street Vendors Act,2014
4	Various Planning Authorities in Maharashtra	<ul style="list-style-type: none"> ➤ MMRDA, PMRDA, CIDCO, MSRDC, MADC, MIDC-Functions, roles, responsibilities, and projects
5	Regional Plan	<ul style="list-style-type: none"> ➤ Need of Regional Plan, Delineation of Region, Types of Regions, Contents of Regional Plan, Surveys necessary for Regional Plan, Analysis and Projections, ➤ Process of preparation of Regional Plan as per provisions of MR and TP Act, 1966, Relation with State Plan and surroundings, ➤ National Capital Region ➤ Role of Metropolitan Planning Committee, Hill Station Regulations
6	Development Plan	<ul style="list-style-type: none"> ➤ Difference between Structure Plan and Development Plan, ➤ Classification of Towns, Surveys, Analysis and

		<p>Projections, Demographic projections,</p> <ul style="list-style-type: none"> ➤ Public participation in DP, ➤ Implementation and financial aspects, Relation with Regional Plan, Contents of D.P., Planning norms, Modifications to sanctioned DP, Modifications of substantial nature, Notices under section 49 and 127, Process of DP preparation, publication, submission and approval as per provisions of MR and TP Act 1966 ➤ GIS based Development Plans under AMRUT
7	Town Planning Scheme	<ul style="list-style-type: none"> ➤ Concept, Preparation of TP Scheme as per provisions of MR and TP Act, 1966, ➤ Amendments in Act in 2014 with respect to TPS ➤ TPS Rules ➤ Relation with DP, Original Plot, Final Plot, Semi-final plot, Incremental contribution, and rationale for charging it, Contents of TPS, Cost of TPS, Advance possession, ➤ Functions of Arbitrator, Functions of Tribunal of Appeal
8	Local Area Plan	<ul style="list-style-type: none"> ➤ Concept, Objectives, Delineation of LAP boundary, Methodology of preparation, ➤ Case studies in India, ➤ Provision in UDCPR
9	Unified Development Control Regulations	<ul style="list-style-type: none"> ➤ Procedure for obtaining development permission/building permission, Grant/ refusal of permission, deemed permission, Approvals on risk based categorization, Commencement of works, General land development requirements, Land-Use Classification and equivalency of zones, concept of p-line, Ancillary FSI, TDR, AR, Reservation Credit Certificate, Removal of difficulties, Redevelopment of dilapidated/dangerous buildings, housing for EWS/ LIG, Incentive for green buildings , Off – street parking requirements, Affordable housing, Voluntary TP Schemes, Heritage list card, premiums and their payment, Integrated Township, Transit oriented development. ➤ SRA ➤ Urban Renewal Schemes ➤ City Specific Regulations for CIDCO area

10	Development Charges and Appeals	<ul style="list-style-type: none"> ➤ Levy and assessment Development charges, ➤ Applicability of development charges and its exemption ➤ Revocation of permission, Provisions of appeal under section 47 and 126, Actions against unauthorized development
11	Implementation of Projects & Land Sharing	<ul style="list-style-type: none"> ➤ PPP models - BOT, BOO, BOOT, BOLT ➤ Special Purpose vehicles ➤ Land sharing modules, Plans for resettlement and rehabilitation
12	Transportation	<ul style="list-style-type: none"> ➤ Transportation Studies, Origin and Destination, traffic volume survey, modal split, transport System ➤ Public transport, BRT, Metro/ Mono Rail, Intelligent Transport System, and its applications ➤ Comprehensive Mobility Plan, Urban Transport Planning Process
13	Environment	<ul style="list-style-type: none"> ➤ Environment Clearance, Environmental Impact Assessment. ➤ Eco-sensitive zones, Sustainable development SDG goals related to spatial planning, Disaster resilient planning. CRZ Regulations
14	Acts and Rules	<ul style="list-style-type: none"> ➤ Maharashtra Regional Town Planning Act, 1966 and rules there under ➤ Maharashtra Municipal Corporations Act, 1949 ➤ Maharashtra Municipal Councils, Nagar Panchayats and Industrial Townships Act, 1965 ➤ Maharashtra Land Revenue Code, 1966 ➤ Environment Protection Act, 1986 ➤ 73rd and 74th Constitutional Amendment Act ➤ Maharashtra Metropolitan Planning Committees (Constitution and Functions) Act, 1999 and rules thereunder ➤ Maharashtra Metropolitan Region Development Authority Act, 2016 ➤ Real Estate (Regulation and Development) Act, 2016
15	Land Acquisition	<ul style="list-style-type: none"> ➤ Need of compulsory acquisition, ➤ Functions of Land Acquisition officer ➤ Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and

		<p>Resettlement Act, 2013</p> <ul style="list-style-type: none"> ➤ Various other acts in Maharashtra for acquisition and method of estimating compensation under such Acts (MIDC Act, MHADA Act, Highways Act) ➤ Land Acquisition model in CIDCO area
16	Development Models	<ul style="list-style-type: none"> ➤ Entire development under public control (e.g. NTDA in Maharashtra, DDA in Delhi), various public private partnership in developing city (e.g. Gurgaon, Naya Raipur, New Kolkata) , traditional development on master plan /development plan where authority places reservations and realizes the community facilities and amenities, TP scheme model and variants of land pooling land readjustment model where community facilities remain the responsibility of public authorities while it only controls the built space for other land uses.