

ARCHITECTURE

Art Appreciation

Understanding Arts, The Techniques of Art, Art History of the Western World, Art History of the Asian World.

Materials & Construction

Rural Materials and Construction, Stone, Bricks and Clay Products, Timber & Allied products, Low Cost Building Technology, Glass, Cement, Concrete (Its ingredients, manufacture & properties), Concrete Construction, Concrete Staircases, Ferrous Metals, Steel Construction, Non Ferrous Metals, Construction Using Non-ferrous Metals, Damp and Water Proofing, Thermal Insulation, Acoustic Insulation, Floor and Wall Coverings, Protective and Decorative Coatings, Vertical Movement Equipments in Buildings, Escalators and Conveyors, Construction Systems Developed By Research Organisation, Foundations, Miscellaneous Structures.

Computer Studio

Introduction to computer aided 2D drafting, Advance computer aided 2D drafting, Productivity tools, Introduction to 3D drafting, 3D rendering and setting.

Architectural Drawing

Free Hand Drawing, Geometrical Drawing, Orthographic Projection, Measured Drawing, Perspective, Sciography.

Architectural Design

Basic Design, Design Studio, Computer Studio.

Mechanics of Structures

Forces and Structural Systems, Analysis of Plane Trusses, Properties of Section, Elastic Properties of Solids, Elastic Constants, Shear Force and Bending Moment, Stresses in Beams, Deflection of Beams, Theory of Columns, Indeterminate Structures.

Theory of Architecture

Scope of Architectural Design, Architectural Space and Mass, Aesthetic Components of Design, Application of Colour in Architecture, Organisation of Forms and Spaces, Character and Style in Buildings, Principles of Composition, Circulation, Works of Contemporary Architects.

Building Services

Fundamentals, Sewage Treatment and Sewerage Systems, Plumbing, Rural Sanitation - Storm Water Drain - Refuse Disposal, Water Quality, Purification and Treatment, Water Distribution, Pumps and Machineries, Electrical Systems, Electrical Installations in Buildings, Principles of Illumination, Lighting Design, Basic Refrigeration Principles, Refrigeration Cycle and Systems Components, Air-conditioning System and Applications, Fire Safety - General Provisions, Fire Detection and Fighting Installations.

Climatology

Climate and Thermal Sensation, Solar Control, Heat Flow through Materials, Air Movement, Shelter Design in Tropics.

Design of Structures

Timber, Steel Sections and Riveted Joints, Welded Joints, Steel Beams, Steel Columns, Properties of Steel and Concrete, Working Stress Design Method, Limit State Design- (Beams, Slabs, Rcc Columns, Staircase), Working Stress Design of Foundation and Retaining Walls, Masonry, Circular Slabs, Flat Slabs, Prestressed Concrete, Sheels and Folded Plates.

Site Planning

Site Analysis, Characteristic Features, Detailed Analysis and Techniques, Environmental Factors.

Architectural Acoustics

Fundamentals, Sound Transmission and Absorption, Noise Control and Sound Absorption, Constructional Measures, Acoustics and Building Design.

Interior Design

History of Interior Design, Elements of Interior Design – (Enclosing Elements, Lighting, Accessories, Interior Landscaping, Furniture Design).

Urban Economics and Sociology

Role of Urban Economics & Sociology, Urban Economics, Building Economics, Urban Renewal and Urbanization, Sociological Concepts and Social Changes, Ecological Processes and Development Impacts.

Professional Practice

Architect and Profession, Architect's Services and Scale of Fees, Architectural Competitions, Legislation, Emerging Areas of Importance, Easements, Tender, Contract, Arbitration.

Human Settlements Planning

Planning Concepts, Urban and Rural Planning, Urban Development Programmes.

Cost Estimating and Budgeting

Estimation, Cost Estimating, Cost Budgeting, Finance and Budgeting, Project Evaluation.

Landscape and Ecology

Plant Materials, Garden Design, Site Planning, Landscaping of Functional Areas.