

Syllabus for MPET EXAM 2014

SUBJECT : - Architecture (Department of Architecture & Town Planning)

City planning: Evolution of cities; principles of city planning; types of cities & new towns; planning regulations and building byelaws.

Housing: Concept of housing; neighbourhood concept; site planning principles; housing typology; housing standards; housing infrastructure.

Landscape Design: Principles of landscape design and site planning; landscape elements and materials; environmental considerations in landscape planning.

Computer Aided Design: Application of computers in architecture and planning; understanding elements of computer graphics.

Environmental Studies in Building Science: Components of Ecosystem; ecological principles concerning environment; climate responsive design; energy efficient building design system; 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, balance, form, colour, texture; sense of place and space, division of space; barrier free design; focal point, vista.

History of Architecture: *Indian* – Indus valley and Mughal periods; *European* – Egyptian, Greek, Roman, medieval and renaissance periods- architectural styles;.

Building Services: Water supply, sewerage and drainage systems; sanitary fittings and fixtures; plumbing systems, principles of internal & external drainage systems, air-conditioning systems; fire fighting systems.

Building Construction and Management: Building construction techniques, methods and details; building systems and prefabrication of building elements; principles of modular coordination.

Materials and Structural Systems: Behavioural characteristics of all types of building materials e.g. mud, timber, bamboo, brick, concrete, steel, glass, composites; principles of strength of materials.