**Syllabus for MPET EXAM 2016-17**

**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 elementsand 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, airconditioning 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.