

# **PROPOSED SYLLABUS BASED ON PREVIOUS**

## **PSC EXAMS ( ITI LEVEL)**

### **BASIC ENGINEERING DRAWING:**

Drawing instruments, equipment and materials Lettering, dimensioning and scale Plane geometrical construction Conic section and projection

### **SURVEYING:**

Conventional surveying Introduction and terms used in chain, compass, plane table and leveling survey Principle of leveling, Type of leveling, Reduction of levels Contouring ,Theodolite survey Modern and advanced surveying instruments

### **BUILDING MATERIALS AND CONSTRUCTION:**

Stone, Brick, Tiles, Cement, Lime and filler materials Plane cement Concrete, Reinforced cement concrete Timber Foundation, Masonry, Roofing, Flooring Building finishes and services Temporary structural treatment for building construction

### **BUILDING DRAWING AND ESTIMATING:**

Building rules and byelaws Estimation, Rules and methods of measurements of work Rate analysis and valuation

## **HYDRAULICS AND IRRIGATION:**

Terms used in Irrigation Storage and diversion head works Reservoir, dam, canals, Cross drainage work Properties of fluid Measurement of pressure Type of Hydraulic energy

## **AUTOCAD:**

Introduction to AutoCAD Basic commands Drawing toolbar and modifying toolbar Plotting and printing

## **UNITS AND MENSURATION**

Units of measurements, measurement of perimeter and area of triangles polygons and circles , volume of solids.

## **APPLIED MECHANICS**

Simple machines:-load and efforts, mechanical advantage, velocity ratio, efficiency, work power and energy, Simple stress and strain, friction, shear force and bending moment, speed and velocity.

**NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.**