# Diploma, Anna University-UG, PG., HSC & SSLC

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# CN5211 ADVANCED CONSTRUCTION ENGINEERING AND COMPUTING TECHNIQUES LABORATORY

**DETAILED SYLLABUS** 

## (A) ADVANCED CONSTRUCTION ENGINEERING LABORATORY

#### **OBJECTIVES**

This course provides a thorough knowledge of material selection through the material testing based on specification.

#### LIST OF EXPERIMENTS

- 1. Mix design of concrete as per IS, ACI & BS methods for high performance concrete.
- 2. Flow Characteristics of Self Compacting concrete.
- 3. Effect of minerals and chemical admixtures in concrete at fresh and hardened state with relevance to workability, strength and durability.
- 4. NDT on hardened concrete UPV, Rebound hammer and core test.
- 5. Permeability tests on hardened concrete Demonstration

## (B) ADVANCED COMPUTING TECHNIQUES LABORATORY

### **OBJECTIVES**

This course gives an exposure to students in utilizing the sophisticated spread sheets programs, estimation software and other package programs.

## LIST OF EXPERIMENTS

- 1. Quantity takeoff, Preparation and delivery of the bid or proposal of an engineering construction project.
- 2. Design of a simple equipment information system for a construction project.
- 3. Scheduling of a small construction project using Primavera scheduling systems including reports and tracking.
- 4. Scheduling of a small construction project using tools like MS project scheduling systems including reports and tracking.
- 5. Simulation models for project risk analysis.