



Late Shri. Vishnu Waman Thakur Charitable Trust's

## VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai  
At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

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### CIVIL ENGINEERING DEPARTMENT

**Name of the Course: Recent trends in Civil Engineering**

**AY: 2017-18**

**Course Duration: 30 hrs**

#### Schedule

Date	Pre-Lunch (9am-12pm)	Post-Lunch (1pm-4pm)
26/06/2017	Ramya Raju	Akshay Mistry
27/06/2017	Lissy Jose	Monica More
28/06/2017	Akshay Mistry	Lissy Jose
29/06/2017	Ashish Shetty	Ashish Shetty
30/06/2017	Ramya Raju	Monica More

#### Day 01: Introduction to concrete trends on site

Session 01: Cube casting techniques as per IS codes

W/c ratio proportion as per IS codes and actually used

Session 02: Mix design as per IS codes

Mix design calculations and assumptions

#### Day 02: Construction Management implementation

Session 01: flowchart of construction industry

Role of construction Supervisor

Session 02: Introduction to estimation in construction work

Planning for equipment

#### Day 03: Construction advance equipment's

Session 01: planning and process of equipment and methods

Required planning of equipment's

Session 02: Geotechnical materials, compaction and stabilization

#### Day 04: Water field Technologies

Session 01 & 02: High strength Concrete

#### Day 05: Usage materials testing equipment

Session 01: Compression testing machine

Universal testing machine

Session 02: Abrasion test on aggregate



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### **Report:**

One-week course was conducted by civil engineering faculty in order to provide basic knowledge about recent trends and upcoming methods in civil engineering to final year students. It has helped students to learn and understand the method of using various equipment's for various task on field.

### **Course Objectives:**

1. To understand the knowledge of construction management
2. To learn about various methods in concrete technology
3. To learn how various equipments can be used
4. To learn how material testing equipments can be used
5. To understand water field technologies

### **Course outcomes:**

1. Students will be able to understand how construction management methods can be used in various cases
2. Students will be able to understand various testing methods carried out according to material availability
3. Students will be able to understand where advance equipments can be used
4. Students will be able to operate various material testing equipments
5. Students will be able to analyze various water field technologies