

Skilling the Construction Site Supervision

01CI0709

Objective of the Course:

- To develop a fundamental understanding of the drawings and its interpretations.
- To learn the procedures and methods for planning the shuttering carpentry works.
- To learn the planning and quality control of the concreting works at field.
- To develop a fundamental understanding of the bar bending schedule and its execution.

Credit Earned: 00

Student's learning outcomes:

After successful completion of the course, it is expected that students will be able to,

1. Analyze and interpret construction drawings, specifications and standards for structural execution tasks.
2. Develop plans and allocate resources for shuttering carpentry, concreting and bar bending works.
3. Evaluate and procure approvals, and prepare checklists for shuttering carpentry, concreting and bar bending works.
4. Evaluate and ensure shuttering carpentry, concreting and bar bending works adhere to plans and standards.

Teaching and Examination Scheme

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE (E)	IA (M)	CSE (I)	Viva (V)	Term Work (TW)	
00	00	02	00	00	00	00	50	00	50

Detailed Syllabus

Sr No.	Title of the unit	Number of hours
1	Interpretation of drawings, specifications and standards for structural execution	06
	Interpretation of drawings, specifications and standards for concreting, scaffolding, shuttering carpentry and bar bending and steel fixing operations.	
2	Plan, supervise and monitor execution of system shuttering	08

	carpentry works	
	Plan and allocate resources for shuttering carpentry works, Procure approvals and prepare checklist prior to and after commencement of work, Supervise and ensure execution of system shuttering carpentry works in accordance with agreed work plan.	
3	Plan, supervise and monitor execution of concreting works	08
	Plan and allocate resources for concreting works, Procure approvals and prepare checklist prior to and after commencement of concreting work, Supervise and ensure execution of concreting works in accordance with agreed work plan.	
4	Plan, supervise and monitor execution of bar bending works	08
	Plan and allocate resources for bar bending works, Procure approvals and prepare checklist prior to and after commencement of work, Supervise and ensure execution of bar-bending works in accordance with agreed work plan.	
	Total	30
5	Field Visit	04

Suggested Theory Distribution

The suggested theory distribution as per Bloom's taxonomy is as per follows. This distribution serves as guidelines for teachers and students to achieve an effective teaching-learning process

Distribution of Theory for course delivery and evaluation					
Remember	Understand	Apply	Analyze	Evaluate	Create
5%	10%	30%	30%	15%	10%

Instructional Method and Pedagogy:

1. At the start of course, the course delivery pattern, prerequisite of the subject will be discussed.
2. Laboratories will be taken in the dual mode: within lab as well as on the field.
3. Oral examination will be conducted at the end of the semester as a part of overall evaluation.
4. The course includes a laboratory, where students have an opportunity to build an appreciation for the concepts being taught in lectures.