

Construction Project Organization & Execution 01CP0204 (LC)

Objective of the Course:

- To understand the construction organization structure
- To develop plan for the execution of construction project.

Credit Earned: 2
Students learning outcomes:

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

- To understand the various types of the construction organization
- To analyse the effect of organization culture on the project.
- To develop the execution strategy for construction project
- To evaluate the performance of the construction project

Teaching and Examination Scheme

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE (E)	CSE (I)	IA (M)	Viva (V)	Term Work (TW)	
00	00	04	02	00	00	00	25	25	50

Detailed Syllabus:

Sr. No	Topic name	Hours
1	Introduction to project Organization	8
	Modern project management, project management today- An integrative approach, strategic management process, Need of effective portfolio management system, A portfolio management system	
2	Organization Structure & Culture	8
	Project management structures, criteria for the selection of right organization structure, organization culture, implication of organizational culture for organizing project	

Construction Project Management

3	Managing project teams	10
	Stages of the team development model, situational factors affecting team development, building high performance project teams, Project teams pitfalls	
4	Project execution	15
	Defining project, estimating project time & costs, Development of project plans, managing risks, Scheduling resources and costs.	
5	Performance and Progress measurement and Evaluation	15
	Structure of a project monitoring information system, Project control process, Monitoring time performance, development of status report, Control issues of construction project.	

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 effective teaching-learning process

Distribution of Theory for course delivery and evaluation					
Remember	Understand	Apply	Analyze	Evaluate	Create
00%	20%	40%	10%	20%	10%

Instructional Method and Pedagogy

1. Importance and utilization of software in the Civil Engineering sector shall be discussed.
2. The teaching shall be conducted using various teaching aids in computer lab.
3. Attendance in the session is mandatory and shall contain 5% weightage of the internal evaluation scheme.
4. At the end of each session, an assignment based on the content shall be given to the students which shall carry 5% weightage for timely completion and submission of the assigned work.
5. The course includes a practice session, where students shall have an opportunity to carry hands on experience on the software.

Recommended Study Material
Reference Books:

1. Projects- Planning, Analysis, Selection, Financing, Implementation and review, 2019 by Prasanna Chandra, Mac Graw Hill