College of Engineering





CE 511 Construction Planning and Control				
Credit and Contact hours	3/3 (Lectures), 0 (Tutorials), 0 (Laboratory)			
Required, or Elective	Required for a MSCE degree			
Course Description	This course provides the students an opportunity to study and apply a different planning and scheduling tools and techniques throughout a life cycle of a project.			
Prerequisites or Co-requisites	None			
Course Learning Outcomes	Students completing this course successfully will be able to			
	Course Learning Outcomes	Related Program Outcomes		
	CLO1: Recognize and identify the critical challenges in planning and scheduling of any construction project by using different planning tools and scheduling techniques.	K1		
	CLO2: Apply knowledge, skill, tools, software and techniques in planning and scheduling projects in the field of construction engineering and Management.	S1		
	CLO3: Evaluate the success of construction project in term of scope, time, cost, quality	C2		
Student Outcomes related to this Course	K1 . Recognize advanced engineering knowledge, concepts and techniques to identify, interpret and analyze complex and real-life engineering problems.			
	S1. Provide solution for complex and real-life engineering problems through critical thinking and using modern engineering tools and identify its impact on social and ethical issues.			

Topics Covered		List of Topics	Related CLOs
		ion to Construction Management and a little brief bants and Project Life cycle	CLO2
	2. Chosen and evaluation	on of a project	CLO3
	(PPP) and also the Pr	tion of Project charter and Pre-Project planning roject the Project Definition Index illustration	CLO1
	-	ing Activity Durations and time in contract also n Node, activity on arrow, Precedence scaled diagram	CLO2
		Cost Trade-Offs, Linear Scheduling (LOB) and ng (SIP) and Program Evaluation & Review	CLO2
	6. Review the ideas of Resource Leveling and Allocation, Cash Flow Forecasting, Time Control and Cost Control, Analyze of scheduling and Controlling of Delay		CLO2
	7. Selected Topics (Change Management, Risk Management)		CLO3
Textbook(s) and Other Required Material	 Project Management with Moder J., Phillips, C., and International Project Mana International Case Studies 	d Scheduling (4th Edition) by Jimmie W. Hinze, 2011 th CPM, PERT, and Precedence Diagramming,3rd I Davis, E. agement, Academic Press, 2003, Miner Media, Eng to Bennet Lientz and Kathryn Rea, (ISBN-0-1204499) as of Construction Project Management, Tanta University	d Edition, b Mgt 461, 985-6).
Grading System	Assignments	5%	
	Lecture Attendance	5%	
	Project Work	30%	
	Midterm Exam	20%	
	Final Exam	40%	
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