College of Engineering



Department of Civil Engineering

CE 512 Construction Management			
Credit and Contact hours	3/3 (Lectures), 0 (Tutorials), 0 (Laboratory)		
Required, or Elective	Required for a MSCE degree		
Course Description	Advanced study and analysis of construction top and upper-middle management responsibilities, on construction management, construction financing, construction safety, inspection and quality control, and disputes and claims. Stresses investigations to improve construction management efficiency and to lower construction costs.		
Prerequisites or Co-requisites	None		
Course Learning Outcomes	Students completing this course successfully will be able to		
	Course Learning Outcomes	Related Program Outcomes	
	CLO1: Acquire the advanced knowledge in construction management field that are related to major real projects	K1	
	CLO2: Apply the broad range of skills and knowledge acquired in the Construction Management curriculum to evaluate, and solve different challenges faced by the industry.	S1	
	CLO3: Analyze and estimate construction project in term of time, cost, quality and success	S1	
	CLO4 : Evaluate the solution of different problems faced by the real-life construction activities	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 pr critical thinking and using modern engineering tools and impact on social and ethical issues.	_	
	C2 . Design novel advanced Civil Engineering systems and experformance and effectiveness for engineering practice a on society.		
Topics Covered	List of Topics	Related CLOs	
	Introduction Project environment	CLO2	
	2. Project Life Cycle and Project Charter	CLO2	
	3. Identifying project activities	CLO3	
	4. Project planning	CLO4	
	5. Estimating cost	CLO3	
	6. Estimating time	CLO3	
	7. Contracting strategies	CLO1	
	8. Selecting, organizing and managing the project team	CLO1	
	9. Procurement and logistics	CLO4	
	10. Project execution – monitoring and control	CLO3	
	11. Safety – risk management – stakeholder relationships	CLO4	
	12. Project close out – claims and disputes – evaluation	CLO1	
Textbook(s) and Other Required Material	 Harris, F., & McCaffer, R. (2013). Modern construction management. John Wiley & Sons. Dainty, A., Moore, D., & Murray, M. (2007). Communication in construction: Theory and practice. Routledge 		
Grading System	Assignments 5%		
	Lecture Attendance 5%		
	Project Work 30%		
	Midterm Exam 20%		
	Final Exam 40%		
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Data of Darian	https://fac.ksu.edu.sa/asmohsen/home		
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