Republic of Iraq

Ministry of Higher Education and Scientific Research Supervision and Scientific Evaluation Apparatus



College: Shatt Al-Arab University Department: Civil Engineering Stage: 3rd stage Lecturer name: Mohammed Mustafa Mohammed Nooruldin Ars Academic title: Lecturer

Course Weekly Outline

Name	Mohammed Mustafa Mohammed Nooruldin Ars		
E-mail address	Muhamad.mustafa.muhamad@sa-uc.edu.iq		
Course name	Engineering Management -1		
Course objective	The course aims to introduce the fundamentals of project management with a special focus on the planning phase. This is to pave the way for the student to learn more aspects about project management in the second semester		
	A1- Introduction to project management, the need for project management in the construction industry, organizational impacts and		
	project life cycle, project management processes and integration		
	management.		
	A2- Managing the scope, time and cost of projects.		
Course description	A3- Resource and quality management		
	B - The skills objectives of the course.		
	B1 - Schedule management plan, identifying events and their sequence,		
	estimating event resources and durations, and leveling resources		
	B2 - Apply key project planning and scheduling techniques including		
	CPM, PERT and LOB		
References	A Guide to the project management body of knowledge - PMI		
External sources	A Guide to the project management body of knowledge - PMI		

Course assessment	Lab.	Quizzes and assessment	Mid-term exam	Final exam
		10	30	60
General notes				·

Republic of Iraq

Ministry of Higher Education and Scientific Research Supervision and Scientific Evaluation Apparatus



College: Shatt Al-Arab University Department: Civil Engineering Stage: 3rd stage

Lecturer name: Mohammed Mustafa Mohammed Nooruldin Ars Academic title: Lecturer

Course Weekly Outline

Week No.	Theoretical	Experimental	Aims
1		Introduction to project management	Igineering For water n planning time, and
2		Project planning	d engin and For ed in pla ion tim
3		Project planning	applie alyse <i>i</i> ram use complet
4		Bar chart (Gantt chart)	Teaching undergraduate students how to deal with applied engineering programs such as the EPANET program used to analyse and For water network design, as well as the Microsoft Project program used in planning construction projects, estimating costs and project completion time, and controlling projects.
5		Bar chart (Gantt chart)	
6		network analysis method (arrow method)	
7		network analysis method (Rectangles method)	tte student EPANET Il as the M estimating
8		Critical Path Method (CPM)	graduat as the E as well jects, e cts.
9		How to manage project resources in a (Leveling)	Teaching undergradua programs such as the network design, as wel construction projects, controlling projects.
10		How to manage project resources in a (Scheduling)	Teaching programs programs programs controllin controllin public programs controllin programs control prol programs control prodra prodra prodrams control pro

11	How to solve the diagram in a way (PERT)
12	How to solve the diagram in a way (PERT)
13	How to draw recurring charts LOB method
14	How to draw recurring charts LOB method
15	How to draw recurring charts LOB method