

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, Economy			
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			
Course description	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. 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
		40	10	50
General notes				



Course Weekly Outline

Week No.	Theoretical	Experimental	Aims
1		Introduction to project management	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.
2		Project planning	
3		Project planning	
4		Bar chart (Gantt chart)	
5		Bar chart (Gantt chart)	
6		network analysis method (arrow method)	
7		network analysis method (Rectangles method)	
8		Critical Path Method (CPM)	
9		How to manage project resources in a (Leveling)	
10		How to manage project resources in a (Scheduling)	
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	