



Course Weekly Outline

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Course name	Computer applications-1			
Course objective	Teaching undergraduate students how to deal with applied engineering programs such as the EPANET program used to analyze 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.			
Course description	<p>A- Cognitive objectives</p> <p>A1- Learn about engineering programs and their types</p> <p>A2- Know the sources of obtaining programs</p> <p>A3- Know the basics of engineering programs</p> <p>B- Skill objectives specific to the course.</p> <p>B1- Learn to choose the appropriate program</p> <p>B2- Know how to provide the information required to feed the program</p> <p>B3- Know how to open the program and enter information</p> <p>B4- Learn to conduct analysis and obtain results</p>			
References	Epanet Program Guide MS Project Program Guide			
External sources	Epanet Program Guide MS Project Program Guide			
Course assessment	Lab.	Quizzes and assessment	Mid-term exam	Final exam
	30	10		60
General notes				



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Week No.	Theoretical	Experimental	Aims
1		Engineering Programs	A1- Learn about engineering programs and their types A2- Know the sources of obtaining programs A3- Know the basics of engineering programs
2		Epanet Basics	
3		Learn to Draw Water Network Components	
4		How to Determine Contract Levels, Tanks, and Pipe Diameters	
5		Enter Pump Information	
6		Conduct Network Analysis	
7		How to Review Results	
8		How to Enter Time-Variable Information	
9		How to Conduct Analysis and Display Results	
10		Definition of MS-Project Program	
11		Introduction to the Program	
12		Learn to Break Down the Project into Sub-Activities	
13		Learn to Enter Activity Names and Time for Each Activity	
14		Learn How to Link Activities with Time Relationships	
15		Learn the Critical Path Method	