

The University of Jordan School of Engineering



Department	Course Name	Course Number	Semester			
Mechanical Engineering	Design of Sanitary Systems	0904467				
2019 Course Catalog Description						
Basic definitions, Water sources, water quality and treatment, drinking water quality. Basic fluid mechanics principles, building cold water supply systems and design, building hot water supply systems and design. Valves in water supply systems and selection, plumbing materials, plumbing fixtures. Building soil and waste drainage systems (internal and external), traps, clean-outs, interceptors, and back water valves, indirect waste piping and special wastes, drainage systems design, vents and venting, design of storm water drains, building fire fighting systems.						
Instructors						
Name	E-mail	Sec	Office Hours		Lecture Time	
Text Books						
	Text book 1			Text book 2		
Title	Handouts					
Author(s)						
Publisher, Year, Edition						
References						
Books	1. Hall, F. “Plumbing: Cold water supplies, drainage and Sanitation, Third edition, Longman Scientific & Technical, 1994. 2. F. Hall, " Water Installation and Drainage Systems, The construction press 3. F. Hall, " Design Calculations for Plumbing and Heating Engineers, " Longman 4. F. Hall, " Plumbing Technology, " 2 nd Ed., <i>Longman Scientific and Technical</i> 5. Jordan Codes					
Journals	Jordanian codes related to mechanical services to buildings					
Internet links						
Prerequisites						
Prerequisites by topic	-					
Prerequisites by course	Fluid Mechanics (1) 0904361					
Co-requisites by course	-					
Prerequisite for	-					
Topics Covered						
Week	Topics				Chapter in Text	Sections
1-2	- The importance of sanitary systems in buildings - The water supply sources & Water quality					
3-4	- Cold water supply systems, Water storage requirements - Appropriate pipe sizing methods					
5-8	Valves and piping systems, Materials & construction					
9-11	- Soil and waste drainage systems, Vent system, Septic systems - Internal and external systems: materials, layouts, components - Design and installation of drainage systems.					

