

Instructor Information	
Name	Dr. Zayed Al-Hamamre
Room NO.	Che-313
Phone Number	5355000 Ext. 22895
E-mail	z.hamamre@ju.edu.jo
Office Hours	

Course Information	
Course Name	Industrial and hazard waste Management
Credit Hours	3
Class Meeting	

Course Description	
Course Objectives	This course is designed to provide students with the basic theoretical knowledge that pertain to raising the students' knowledge and awareness of the impact of solid and hazardous wastes onto the public health and environment at large and the importance of treating such wastes as well as their utilization
Text Books	1. William C. Blackman Jr. Basic Hazardous Waste Management, CRC Press; 3 edition (June 26, 2001)
References	1. Charles A. Wentz, Hazardous Waste Management, Mcgraw-Hill College; 1St Edition edition (March 1989) 2. Lawrence K. Wang , Yung-Tse Hung, Howard H. Lo, Constantine Yapijakis, Waste Treatment in the Process Industries, CRC Press (October 31, 2005)

Course Assessment		
Projects and Quizzes	10.0%	
1 st exam	20.0%	
2nd exam	20.0%	
Final Exam	50.0%	

Topics
1. Introduction
2. Hazardous waste: concerned about HW, HW characterization, industrial wastes, chemical and physical properties
3. Hazardous waste handling, transportation and storage
4. Management and treatment of Hazardous waste
5. Regulation of Hazardous Waste Management
6. Site Remediation: Site Characterization Guide lines, Project Risk Management for site remediation, Environmental assessment of contaminated site remediation
7. Pollution Prevention
8. Treatment of HW produced from common industries

Expected Course Outcomes

Upon completion of this course, students will be able to:

1. Determine pressures and forces on submerged bodies
2. Analyze flow rates, velocities, energy losses, and momentum fluxes for fluid systems
3. Describe fluid flow phenomena
4. Analyze, design, and evaluate pumping systems and pipeline components

Regulations

I. Attendance:

Attendance of classes is obligatory. Absence must be verified according to the university's regulation, *please take it serious.*

II. Quizzes and homework

All students are required to finish their homework assignments, and submit them on time. Late homework *will not be accepted* under any circumstances. Popup quizzes will be given without any prior notice. You need to come prepared to class. A hand calculator is recommended to be available in every class. In addition to the final exam, there will be one midterm exam. These exams will be challenging and comprehensive during the class

IV. Conduct in classroom:

While in the class room, all cell phones, Laptops need to be turned off.