

Syllabus

Hydraulics lab course

Course No.	12410322
Semester	Fall 24/25
Instructor	Eng. Tawfiq Saleh
Instructor's email	tawifiq.saleh@ptuk.edu.ps
Class time	Sunday 8:00-10:00 am
Classroom	H207
References	Lecture slides and notes
Course objectives	<ul style="list-style-type: none"> • Introduce students to wastewater treatment systems and processes of various types. • Teach students how to use design software for wastewater treatment plants. • Conduct field visits to sewage treatment plants to provide students with practical exposure to operating systems. • Teach students the fundamentals of hydrological design. • Instruct students on how to utilize various software in hydrological design. • Educate students about stormwater drainage systems. • Train students on software related to stormwater drainage systems
Evaluation criteria	Midterm exam: 35% Projects and homework: 20% Final exam: 45%
Course outline	
Chapter 1	Introduction to water and environmental engineering
Chapter 2	Wastewater Treatment Systems
Chapter 3	Design of Wastewater Treatment Plants
Chapter 4	Fundamentals of Hydrological Analysis
Chapter 5	Fundamentals of Stormwater Drainage Analysis and Design
Chapter 6	Environmental impact assessment (EIA) in Palestine