

## Faculty of Engineering & Technology

## **Fluid Mechanics**

Information :

Course Code :	MEC241	Level :	Undergraduate	Course Hours :	3.00- Hours
Department : Structural Engineering & Construction Management					
Instructor Information :					
Title		Name			Office hours
Lecturer		Zakaria Mosta	afa Abdo Salim Marouf		2

Christopher Nashaat Najib Benjamin

## **Description :**

**Teaching Assistant** 

Basic properties of fluids and fundamental concepts. Statics of fluids; pressure, pressure measurement devices, hydrostatic forces and buoyancy. Fluid kinematics. Basic equations of fluid flow; conservation of mass, fluid momentum and energy, Bernoulli's equation, energy equation and applications. Internal flow; laminar and turbulent flow in ducts and pipes and their applications. External flow; lift and drag forces. Basics of dimensional analysis and dynamic similarity.