

Faculty of Engineering & Technology
Properties of Matter and Thermodynamics

Information :

Course Code : EMP121

Level : Undergraduate

Course Hours : 4.00- Hours

Department : Faculty of Engineering & Technology

Instructor Information :

Title	Name	Office hours
Lecturer	MOHAMED EHAB AHMED FAKHERELDIN BAKR	3
Lecturer	AHMED MOHAMED ALI ASHOUR AHMED	2
Assistant Lecturer	Alaa Mohamed Yossry Abdo	
Assistant Lecturer	Reham Milad Kamel Samaan	
Assistant Lecturer	Nada El Said Abdallah Hassan Salem	
Teaching Assistant	Noura Abdeltawab Mohamed Abdelhamid Elgindy	
Teaching Assistant	Mohamed Fathy Salem Mohamed	
Teaching Assistant	Riham Hamza Mostafa Saada	
Teaching Assistant	Osama Ahmed Ibrahim Mohamed Montaser	
Teaching Assistant	Mariam Mohamed Kamal Abdelaziz	
Teaching Assistant	Reham Ahmed Ali Soliman	

Description :

Properties of Matter: Units and dimensions, Energy of a system, Elastic Properties of materials, Hydrostatics, Hydrodynamics and viscosity, applications of hydrodynamics. Waves: types, properties, and applications. Heat and thermodynamics: Temperature, thermal expansion of solids and liquids, Heat and internal energy, specific heat and calorimetry, latent heat, work and heat in thermodynamic processes, first law of thermodynamics including some applications, energy transfer mechanisms.