

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	5
Assistant Lecturer	Ahmed Abdelfattah Abdelaziz Abdelfattah	
Assistant Lecturer	REHAM MILAD KAMEL SAMAAAN	
Assistant Lecturer	Nada El Said Abdallah Hassan Salem	
Assistant Lecturer	Mohamed Yahia Mohamed Abdelkader	
Assistant Lecturer	YOUSSEF ELSAYED ABDELHAFEZ KANDIEL	
Teaching Assistant	Akram Rabie Hamed Ragheb Tobar	
Teaching Assistant	Mohamed Fathy Salem Mohamed	

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.