

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 Fakhr Eldin Bakr	2
Assistant Lecturer	Romisaa Gamal Mahmoud Abdelrhman	
Assistant Lecturer	SHEROUK SOBHI ABDELSALAM FOU DA	
Assistant Lecturer	Noura Khedr Abdul raheem Ahmed	
Teaching Assistant	Mariam Mohamed Kamal Abdelaziz	
Teaching Assistant	Mohamed Fathy Salem Mohamed	
Teaching Assistant	Mohamed Yahia Mohamed Abdelkader	
Teaching Assistant	Mohamed Osama Mohamed Abbas	
Teaching Assistant	Younna Elsayed Abd Elalem Mohamed Sayed Ahmed	
Teaching Assistant	Nadia Mansour Metwally Ali Mourad	

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.