

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
Professor	Waleed Abdelmonem Zein Elsheshtawy	1
Associate Professor	Ahmed Shawky Mohammed Ghareeb	1
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Teaching Assistant	Mohamed Mahmoud Yassin Ahmed Ismail	
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Teaching Assistant	Asmaa Abdelfattah Alsayed Abdelfattah	
Teaching Assistant	Abdallah Sobhy Mahmoud Hussein	
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Teaching Assistant	Youssef Hany Abdelwahed Abdelghany Nour	
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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.