

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 |
|---------------------|---|--------------|
| Associate Professor | Borham Mohamed Taher El adorously Ali eldin | 1 |
| Lecturer | MOHAMED EHAB AHMED FAKHERELDIN BAKR | 5 |
| Assistant Lecturer | Ahmed Abdelfattah Abdelaziz Abdelfattah | |
| Assistant Lecturer | REHAM MILAD KAMEL SAMAAN | |
| Assistant Lecturer | Nada El Said Abdallah Hassan Salem | |
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| Assistant Lecturer | Nada El Said Abdallah Hassan Salem | |
| Assistant Lecturer | Ahmed Abdelfattah Abdelaziz Abdelfattah | |
| Assistant Lecturer | Mohamed Yahia Mohamed Abdelkader | |
| Assistant Lecturer | YOUSSEF ELSAYED ABDELHAFEZ KANDIEL | |
| Assistant Lecturer | YOUSSEF ELSAYED ABDELHAFEZ KANDIEL | |
| Teaching Assistant | Akram Rabie Hamed Ragheb Tobar | |
| Teaching Assistant | Mohamed Fathy Salem Mohamed | |
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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.

