

Aims:

- 1) Apply and integrate knowledge and understanding of mathematics, physics, engineering sciences, engineering problem-solving skills in various subjects, and available computer programs to solve real problems in industries, HVAC systems, and power plants to meet desired needs within realistic constraints.
- 2) Identify, formulate and solve basic engineering problems and use appropriate engineering techniques, skills and tools necessary for engineering practice and project management.
- 3) Assess the sustainability and environmental issues related to mechanical energy systems and consider the impacts of engineering solutions on society and the environment.
- 5) Work effectively within multi-disciplinary engineering teams and lead or supervise a group of engineers, technicians and workforce.
- 6) Design, operate and maintain fluid and energy transfer systems, heating, ventilation and air conditioning systems, internal combustion engines and steam engines, verify their performance and solve their basic operational problems.
- 7) Building innovative minds and geniuses, developing their national affiliation, and directing their abilities for this purpose.