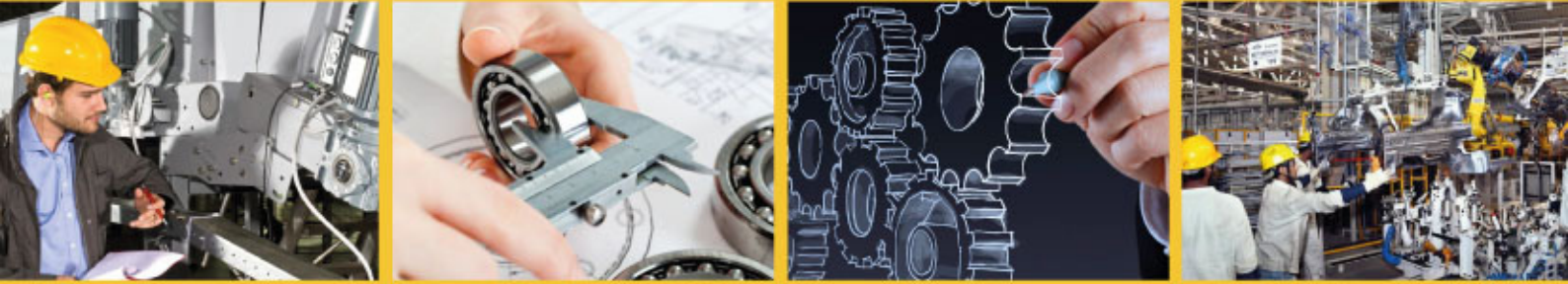




ARAB INSTITUTE

المعهد العربي للمحاسبين والقانونيين



Mechanical Engineering Professional Diploma

Course Description

The purpose of this course is to introduce the student to the field of mechanical engineering through an exposition of its disciplines, including structural analysis, mechanism design, fluid flows, and thermal systems.



ROYAL INSTITUTE
FOR CHARTERED ENGINEERS
Certification Issued By

Mechanical Engineering Professional Diploma



COURSE OUTCOME:

- an ability to apply knowledge of mathematics, science, & engineering
- an ability to function on multidisciplinary teams
- an ability to identify, formulate, and solve engineering problems
- an understanding of professional and ethical responsibility
- an ability to communicate effectively
- a recognition of the need for, and an ability to engage in life-long learning
- a knowledge of contemporary issues
- an ability to model and design in the thermal systems area
- an ability to model and design in the mechanical systems area
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

COURSE OUTLINE:

- Engineering Graphics and CAD
- Fundamentals Fluid Mechanics
- Materials
- Mechatronics
- Heat Transfer
- Fundamental Kinematics and Dynamics of Machines
- Mechanics of Materials
- Mechanical Engineering Thermodynamics
- Machine Component Design
- Fluid Mechanics
- Design Method and Application
- Mechatronics Design Laboratory
- Control Systems
- Gas Dynamics
- Vibrations and Machine Dynamics

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