



*Mechanical Engineering Department
Graduate Studies*

Master of Science Program

Introduction

The Mechanical Engineering department (ME) started the Master of Science program in Mechanical Engineering in the year 1400 A.H. (1980 AD). The department has more than twenty-nine highly qualified and experienced faculty staff members who conduct scientific research, in addition to teaching and other academic activities in the department. The department possesses a number of laboratories and a workshop serving various educational and research objectives. These laboratories are: Vibrations and Noise Lab., Metallurgy and Materials Lab., Fluid Mechanics Lab., Heat Transfer Lab., Energy and Environmental Lab., Refrigeration and Air Conditioning Lab., Mechanics of Machines Lab. and Automatic Control Lab.

Objectives

The M. Sc. program is designed to cope with the modern worldwide trends and developments in Mechanical Engineering. The main goal is to enrich the student's knowledge in the fundamental principles and to help him to develop the ability to define and solve engineering problems. This advanced program should help in providing the Kingdom with the highly qualified mechanical engineers needed for the development of the country.

Tracks and Specializations

The Mechanical Engineering Department offers the following four choices of specialization fields.

1. Thermal Engineering
2. Fluid Engineering
3. Dynamics and Control Engineering
4. Solid Mechanics and Materials Engineering

Degree Requirements

A candidate for the Master of Science degree in mechanical engineering is required to complete a minimum of 24 units of course work, in addition to a thesis in the related specialization.

Courses- Description: