Department of Mechanical and Energy Engineering

Introduction

The Department of Mechanical and Energy Engineering (MEE) was established in August 2011 with the mission of educating and incubating valuable high-tech human resources to the Mechanical and Energy Engineering related industries. The MEE department aims to explore students' potential in finding and solving the basic scientific and engineering problems in mechanical and energy engineering related areas, and to help the MEE students in fulfilling their career in MEE related industries. The Department has developed a curriculum providing students with a broad base on which to build an engineering career. It is founded on basic sciences including physics, chemistry, and applied mathematics, to which a substructure of engineering science is added including mechanics, materials, electrical circuits and electronics, thermodynamics, fluid mechanics, heat and mass transfer, systems, measurement, and controls. The Department also provides design and manufacturing courses throughout the four years with emphasis on synthesis, production system planning, computer applications, and problem solving, adding coherence to the curriculum as a whole.

Course design

To obtain a B.S. degree in Mechanical and Engineering Engineering, a student has to complete a minimum of 128 units of credit in which 99 units are mandatory. (In general, a one-semester course has 1 to 3 units.)

	Categories	Units
Required	Mechanical and Engineering Engineering	60
	General Education	30
Electives	Three elective programs: Mechanical Academic/ Energy Academic/ Engineering Application Choose one	18
	Others	20
Total	128	

Faculty

We have six professors and three assistant professors in our department. These faculty members are from famous international and national universities. Their research interests cover most of areas in mechanical and energy engineering.

Facility

The department of mechanical and energy engineering is located near the gate of Lantan campus, including five teaching laboratories for undergraduatecourses and individual laboratories for faculties. Well-equipped laboratories are available for research in mechatronics, CAD/CAM, rapid prototyping and reverse engineering, 3D measurement, micro-mechanism, bio-chip, solar energy application, infra-red thermograph, robotics, micro-vibration, micro-thermal/fluids, and heat treatment.

Goal and Mission

The Department hopes to cultivate potential workforces for the energy and precision machinery industries in the Science-Based Industrial Park, and the precision machinery and automation industries in the Chiayi Technology Industrial Park. In addition, we will cooperate with local companies, supply them with training programs and efficient workforces, and eventually, through various cooperative projects, help upgrade industries and boost economic growth. The feature thrust areas of the Department include: microelectro-mechanical system and nano-processing technology, ultra-precision mechanical design, manufacturing and measurement, new energy technology, intelligent control, advanced vehicle engineering, and creative engineering design.

More Infromations

Department welcomesall the students and junior lectureswho are interested in pursuing the higher degrees to join the M.S.program. Department home page: http://www.ncyu.edu.tw/energy/. Application home page: https://admissions.ncyu.edu.tw/fsc/indexfsc.aspx.


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