

# MINOR PROGRAMME IN Energy Technology

This is a minor programme designed to educate students the important issues of energy technology. In the past decade, energy and environmental issues have alarmed people all over the world. In the coming decades, there will be more challenges and opportunities in this important area. It is therefore necessary to provide students with the fundamental and updated knowledge on energy technology. This minor programme is open to students with interest in science and technology and is hosted by the Department of Mechanical and Automation Engineering. It is aimed at giving the enrolled students a good exposure on the state-of-the-art energy technologies.

## Programme Objectives

- Core knowledge and understanding of energy technology
- Application of relevant knowledge in analyzing and solving energy problems
- Exposure in energy systems design and management
- Ethical values and responsibilities as members of world community for sustainable development

## Minor Programme Requirement

Students are required to complete a minimum of 18 units of courses, with at least 6 units at 3000 or above level, as follows:

### Required Courses (6 units)

EEEN2020 Renewable Energy Technologies  
MAEG2030/ESTR2402 Thermodynamics

### Elective Courses (12 units)

CHEM4280 Chemistry in Biofuel (2 units)  
EEEN2030 Energy and Environmental Economics and Management  
EEEN3020/ESTR3400 Energy Utilization and Human Behavior  
EEEN4010/ESTR4400 Kinetic Energy Harvesting Devices and Systems  
EEEN4020/ESTR4402 Solar Energy and Photovoltaic Technology  
EEEN4030/ESTR4404 Nuclear Energy and Risk Assessment  
EEEN4050/ESTR4422 Energy Storage Devices and Systems  
EEEN4060/ESTR4424 Energy Distribution  
ELEG3207 Introduction to Power Electronics  
MAEG4030/ESTR4412 Heat Transfer  
MAEG4080/ESTR4420 Introduction to Combustion

## Enquiry

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