

Undergraduate Program of Vehicle and Energy Engineering

Contact Information

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Introduction

Founded in 2017 while enrolled in the first class in 2018, the Undergraduate Program of Vehicle and Energy Engineering aims to provide quality education in vehicle and energy engineering fields that are well-grounded in fundamental principles and practical applications.

To offer competitive career development for students, our department strives to integrate innovative technologies and practical applications in class. We focus on three main research areas: advanced vehicles, green energies, energy technologies, and intelligent power systems. Currently, the department consists of seven full-time faculty members and 102 undergraduate students.



Instructional Objectives

The primary research and development directions of this program include:

- (1) Advanced vehicles: hybrid electric vehicles, autonomous vehicles, electric vehicles, engine vehicles, and their key components;
- (2) Green energies and energy technologies: renewable energies (solar energy, wind energy, hydrogen energy, biomass energy), green constructions, refrigeration and air-conditioning;
- (3) Intelligent power systems: micro-grid, power electronics, artificial intelligent (AI) systems, etc..

Feature of the Curriculum

Special Topics (I),(II), as elective courses, aim to prepare students for the rapidly changing industry that requires interdisciplinary skills by customized research project.

Training for Professional Techniques (I),(II), as elective courses, aims to encourage students to gain infield experiences and professional skills to meet industrial technology requirements.

Career Prospects

Graduated students from our program are expected to have decent infield skills and knowledge and an international outlook, particularly suitable for developing a career in the vehicle and energy industry or pursuing a Master/Doctoral degree.

Degree Requirements

