

GENERAL INFORMATION ABOUT THE PROGRAM

Ankara University is the first university in Turkey providing an Energy Engineering undergraduate program.

Students must earn 240 ACTS credits in total for graduation. Undergraduate students are supposed to complete internship for one semester.

The program is taught in 100% English. The department currently holds one professor, two associate professors, two assistant professors, two lecturers and three research assistants.

1st Year
Fundamental Engineering Courses, Introduction to Energy Engineering, Technical Drawing, Computer Programming, Atatürk Principles and History of Revolution, Development of Reading and Writing Skills in English, Turkish

2nd Year
Engineering Thermodynamics, Probability & Statistics, Mass & Energy Balances, Circuit Analysis, Differential Equations, Fluid Mechanics, Mechanics, Energy and Environment, Numeric Analysis

3rd Year
Heat & Mass Transfer, Electric Power Systems, Control System Analysis, Engineering Laboratory

4th Year
Energy System Design, Energy Laboratory, Graduation Project, Industrial Training

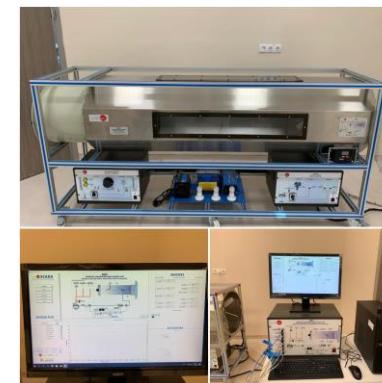


Educational Laboratories

- Chemistry and Physics Laboratories



- Engineering Laboratory
- Energy Laboratory



Departmental Electives

- Energy Conversion Processes I
- Management and Economy in Energy Engineering
- Fossil Fuels and Combustion
- Materials Science
- Entrepreneurship
- Energy Conversion Processes II
- Materials in Energy Technologies
- Measurement & Instrumentation
- Nanoscience and Nanotechnology
- Composite Materials
- Sustainable Energy
- Gas Dynamics
- Energy Storage Devices
- The Fundamentals of Energy in Buildings
- Nuclear Energy
- Harvesting Energy from Lignocellulosic Biomass
- Solar Energy
- Wind Energy
- Renewable Energy Projects

Energy Engineering

The major objective of the program is to raise engineers possessing the following qualifications and capabilities:

- Carrying out projects on energy efficiency and services, plant engineering, alternative energy technologies, existing and novel material production in public and private sectors.
- Being integrated into multidisciplinary and interdisciplinary studies and participating in international research.
- Owning essential and cultural knowledge to perform graduate research.
- Performing and developing national and international projects and aiming lifelong learning.

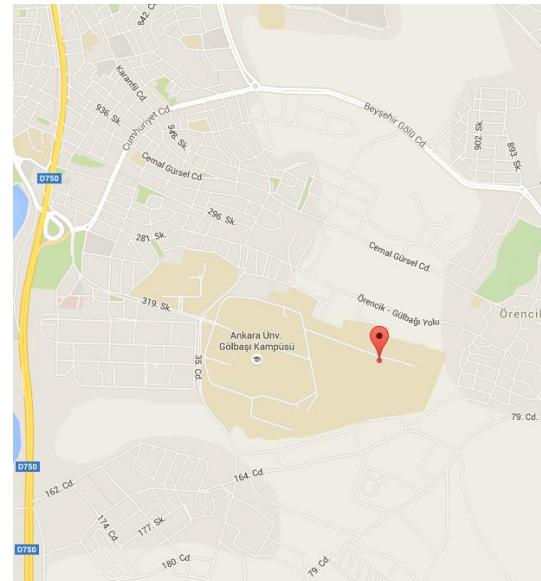


Employment of Graduates

The graduates are expected to work in the research and development departments of the public and private sectors regarding the following fields; energy production and planning, energy services, energy efficiency, alternative energy resources, research and development, selection, improvement and utilization of appropriate energy materials.

The graduates are going to be employed:

- By several ministry departments particularly, Ministry of Energy and Natural Resources and Ministry of Science, Industry and Technology,
- By energy related governmental institutions such as Energy Market Regulatory Authority (EMRA) and Turkish Petroleum Corporation (TPAO),
- By governmental institutions such as Turkish State Railways, Turkish Electricity Transmission Company, Mineral Research & Exploration General Directorate, Petroleum Pipeline Corporation, Turkish Coal Enterprises,
- By thermal, hydroelectric and nuclear power plants where energy production is carried out,
- As researchers and designers in renewable and sustainable energy systems regarding areas such as wind, solar and geothermal energy,
- As design engineers where the energy production is carried out and researchers in R&D companies and universities.



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**ANKARA UNIVERSITY
FACULTY OF ENGINEERING**

"Green energy for clean environment"

**ENERGY ENGINEERING
PROGRAM**



Gölbaşı, Ankara