

## Renewable Energy Systems Program

Renewable Energy Systems is an interdisciplinary master's program operating within Sakarya University Institute of Science and the first students were accepted in 2020.



### Mission of the Renewable Energy Systems Program

The mission of the Renewable Energy Systems program is to plan the processes of producing clean energy from renewable energy sources such as solar, wind, hydraulic, geothermal and biomass and to offer them to consumers and develop different strategies; to train staff who have high theoretical and practical skills, can think analytically, work together and are sensitive to the environment.



## Vision of Renewable Energy Systems Program

To train well-equipped individuals who are open to technological developments, and who use their knowledge and experience for the benefit of society by providing international quality education in all areas related to renewable energy.



### Contact

Tel.: +90 264 295 7325  
E-mail: fbe@sakarya.edu.tr  
Address Sakarya University  
Esentepe Campus  
TR-54187 Sakarya / TURKIYE



## Institute of Natural Sciences Renewable Energy Systems *Graduate Studies*



*"Clean energy, Clean environment"*

## Graduation Requirements

Within the scope of the program; in addition to the compulsory courses of Wind and Solar Energy Systems and Scientific Research Techniques and Seminar, there are various elective courses in the field of renewable energy. A student studying in the Renewable Energy Systems Program must first complete a total of 60 ECTS from compulsory and elective courses, each of which is 6 ECTS, listed below. A student who successfully completes the course period is entitled to receive a master's degree in the Renewable Energy Systems Program if the student completes and successfully presents a thesis on the field.

| Code    | Course name                                |
|---------|--|
| YES 501 | Wind and Solar Energy Systems              |
| YES 500 | Scientific Research Techniques and Seminar |
| YES 503 | Optoelectronic Materials                   |
| YES 505 | Biomass and Biofuels                       |
| YES 507 | Geothermal energy                          |
| YES 509 | Renewable Power Plants                     |
| YES 502 | Energy Conversion and Storage Materials    |
| YES 504 | Fundamentals of Solar Panels               |
| YES 506 | Biomass Energy                             |
| YES 508 | Dams                                       |
| YES 510 | Dye Sensitized Solar Cells                 |
| YES 511 | Sustainable Energy and Climate Change      |
| YES 512 | Nano Dyes and Solar Energy                 |



The Renewable Energy Systems program consists of different disciplines. It has a rich academic staff consisting of experts in the field of Information Systems Engineering, Environmental Engineering, Electrical and Electronics Engineering, Physics, Civil Engineering, Chemistry, Mechanical Engineering, Metallurgy and Materials Engineering and these members have been working on various projects.



Graduate students enrolled in the program will have the opportunity to conduct high quality studies in an effective learning environment and under the consultancy of faculty members who have proven their success in these fields.

## Academic staff

Prof.Dr. Davut AVCI  
(Physics Dept.)

Prof.Dr. Hatem AKBULUT  
(Metallurgy and Materials Engineering Dept.)

Prof.Dr. İlkey ŞİŞMAN  
(Chemistry Dept.)

Prof.Dr. Mehmet BAYRAK  
(Electrical Electronics Engineering Dept.)

Prof.Dr. Saim ÖZDEMİR  
(Environmental Engineering Dept.)

Prof.Dr. Uğursoy OLGUN  
(Chemistry Dept.)

Assoc. Prof. Dr. Cenk YAVUZ  
(Electrical Electronics Engineering Dept.)

Assoc. Prof. Dr. Ertan BOL  
(Civil Engineering Dept.)

Assoc. Prof. Dr. İhsan Hakan SELVİ  
(Information Systems Engineering Dept.)

Assoc. Prof. Dr. Mehmet NEBİOĞLU  
(Chemistry Dept.)

Assoc. Prof. Dr. Ünal UYSAL  
(Mechanical Engineering Dept.)

Asst. Prof. Dr. Aliye Suna ERSES YAY  
(Environmental Engineering Dept.)

Asst. Prof. Dr. Cemil YİĞİT  
(Mechanical Engineering Dept.)