ISTANBUL TECHNICAL UNIVERSITY
Department of Meteorology Engineering

History of ITU

1773
Mühendishane-i Bahr-i Hümayun

1795
Mühendishane-i Berr-i Hümayun

1909
Mühendis ve Mimarlar Mekteb-i Alisi

1914
İlk Mühendis mezunlar

1944
Yüksek Mühendis Mektebi

1970
Ayazağa Main Campus

1974
Bachelor and Master education with 2 levels

2013
240th year

ITU CAMPUSES

Ayazaga Main Campus

Faculty of Civil Engineering
Faculty of Electricity - Electronics
Faculty of Mining
Faculty of Chemistry and Metallurgy
Faculty of Computer and Informatics
Faculty of Arts and Sciences
Faculty of Naval Architecture and Marine Sciences
Faculty of Aeronautics and Astronautics

Energy Institute
Graduate School of Natural and Applied Sciences
Institute of Social Sciences
Institute of Informatics
Eurasia Institute of Earth Sciences
Earthquake Engineering and Disaster Management Institute

Taşkışla Campus

Faculty of Architecture
Social Sciences Institute

Macka Campus

Faculty of Management
School of Foreign Languages
Conservatory

Gümüşsuyu Campus

Faculty of Machinery
Faculty of Textile Technologies and Design

Tuzla Campus

Maritime Faculty

Numbers of ITU

2,174 Academic Members

99 undergraduate programs, 25395 students

179 postgraduate (Master's, PhD) programs, 10132 students

6 Graduate Education and Research Institutes

130000 graduates

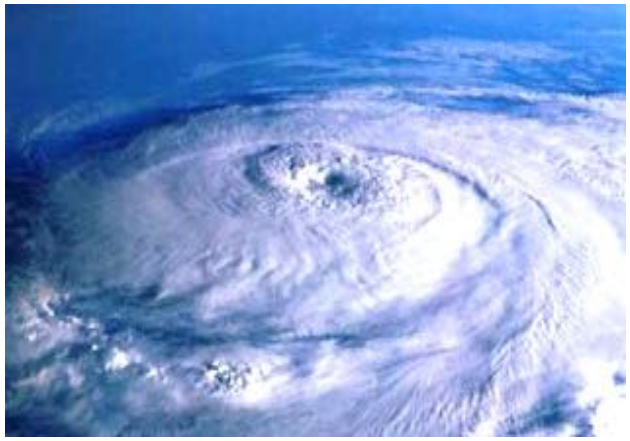
UNIVERSITY	COUNTRY	Number of accredited programs
İstanbul Teknik Üniversitesi	Turkey	*25*

ISTANBUL TECHNICAL UNIVERSITY

DEPARTMENT OF METEOROLOGICAL ENGINEERING

Meteorological Engineering Department is the "first" department in the field of atmospheric sciences and meteorological engineering in Turkey, aiming to train engineers who can work using the most advanced technologies in weather analysis and forecasting, climate change, air pollution, solar and wind energy, hydrology, agro-meteorology, atmospheric physics. .

As an attractive center of excellence sought internationally in the fields of education and research; The main purpose of the department is to understand, explain and predict the atmosphere, atmospheric systems and the events occurring in the atmosphere.



Academic staff

Prof. Dr. Sevinç Asilhan

Prof. Dr. Mikdat Kadıoğlu

Prof. Dr. Zerefşan Kaymaz

Prof. Dr. Kasım Koçak

Prof. Dr. Ş. Sibel Menteş

Prof. Dr. Ahmet D. Şahin

Prof. Dr. Levent Şaylan

Prof. Yurdanur S. Ünal

Prof. Dr. H. Sema Topçu

Prof. Dr. Ali Deniz

Prof. Dr. Hüseyin Toros

Doç. Dr. Barış Önol

Doç. Dr. Ahmet Öztopal

Doç. Dr. Barış Çaldağ

Dr. Ceyhan Kahya

Dr. Deniz Demirhan

Öğr. Gör. Emine Ceren Eyigüler

RA. Dr. Elçin Tan

RA. Dr. Filiz T. Katırcıoğlu

RA. Melek Akın

RA. Nilcan Altınbaş

RA. Deniz H. Diren Üstün

RA. Nida Çiftci

RA. Cemre Sonuç

RA. Ali Osman Mut

RA. Sena Ecem Yakut

RA. M. Barış Kelebek

RA. Pelin Erdemir

Meteorological Engineering Main Courses

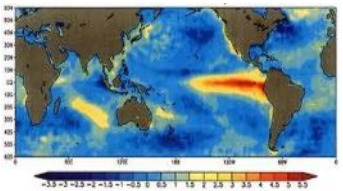
- Introduction to Atmospheric Sciences
- Meteorological Instruments and Observation Procedures
- Hydrology
- Atmospheric Thermodynamics
- Climatology
- Solar and Ground Radiation
- Atmosphere Dynamics
- Weather Analysis and Forecasting
- Data Analysis
- Remote Sensing
- Cloud and Rainfall Physics
- Aviation Meteorology
- Micrometeorology

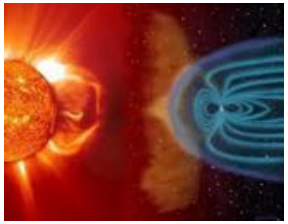
- Graduates receive the title of "Meteorological Engineer".
- If students want and meet the necessary conditions, they can graduate with 2 diplomas by completing the Double Major Program in other engineering departments in ITU.
- If the students meet the necessary conditions for the minor program, they can take the basic courses of an engineering program they want and graduate with a minor certificate.
- Erasmus programme
- Horizontal transfer possibility between programs

DEPARTMENT OF METEOROLOGICAL ENGINEERING

Research Areas

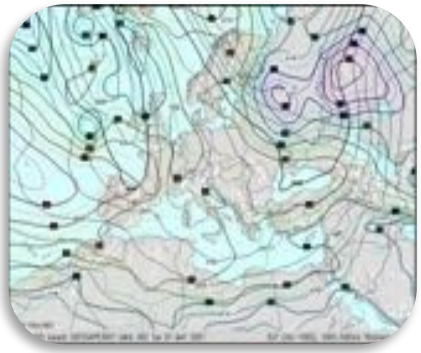
- Agriculture and forest meteorology
- Weather analysis, forecasting and modeling
- Atmospheric radiation and atmospheric boundary layer
- Solar-climate system interaction
- Climate change and climate modeling
- Atmosphere-ocean interaction
- Solar and wind energy
- Micrometeorology - mesometeorology
- Cloud and precipitation physics
- Air pollution and its modeling
- Stratospheric ozone
- Chaos and non-linear dynamics applications
- Hydrology - hydrometeorology
- Water resources, their development and operation
- Flood - storm - avalanche - drought analysis
- Architectural meteorology - urban meteorology
- Biometeorology - medical meteorology
- Flight - sea - satellite meteorology
- Military meteorology
- Upper atmosphere - Ionosphere - Magnetosphere physics

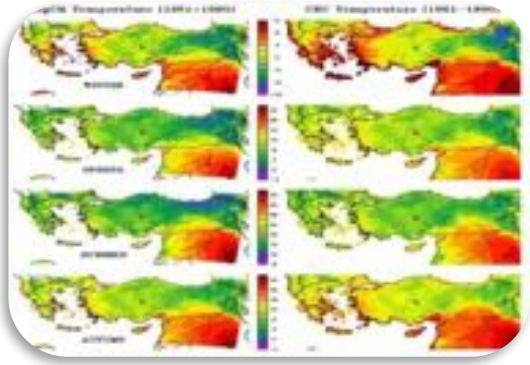



Synoptic Meteorology Laboratory and Briefing Room

- Climate modelling
- Analysis of model results
- Weather forecasting studies





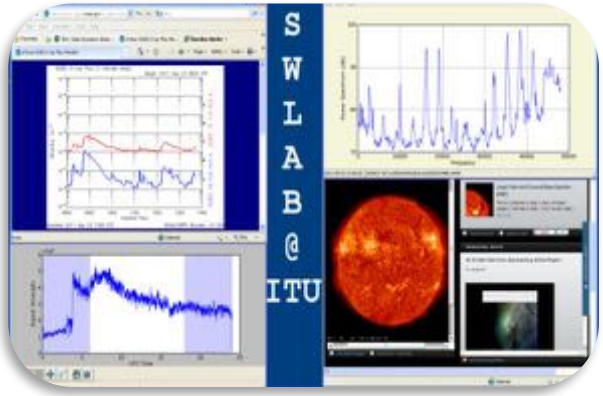
Meteorology Observation Park

Meteorology Instruments and Observation Procedures Laboratory

- Measurement and evaluation of atmospheric parameters
- agricultural meteorology mini-test field

Upper Atmosphere and Space Weather Laboratory

- Measurements of ionospheric parameters,
- earth magnetic field and electric field
- making solar observations



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Thank you !

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