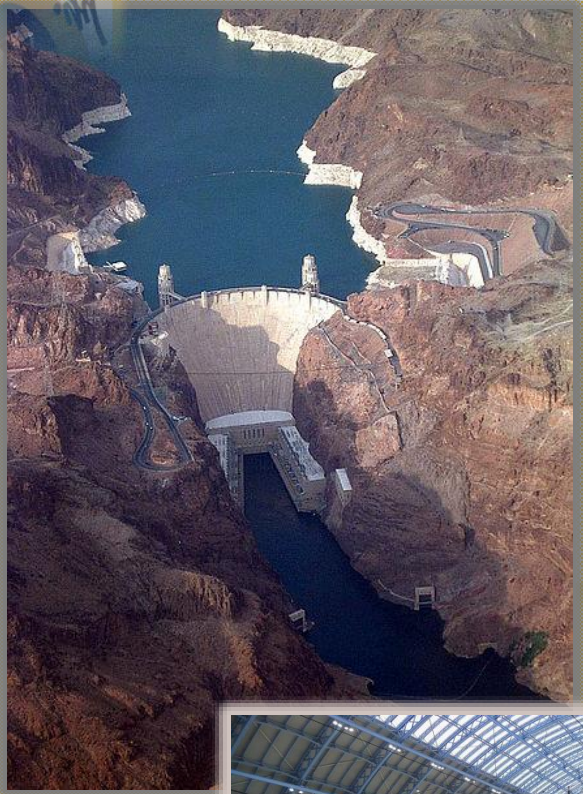


AFYON KOCATEPE UNIVERSITY  
FACULTY OF ENGINEERING  
DEPARTMENT OF  
CIVIL ENGINEERING



# What is Civil Engineering?

- ⇒ **Civil Engineering;** it is the most basic branch of engineering related to the planning, design, construction and control of all kinds of structures using the fundamental principles of physics and mathematics.
- ⇒ The student who graduates from civil engineering is given the title of "Civil Engineer".
- ⇒ Regardless of the expertise and field of work, the civil engineer is responsible for ensuring the durability of the building she/he will construct.
- ⇒ In addition, the civil engineer calculates supplies and labor, their costs, selects and purchases materials, prepares work plan, controls and supervises the construction phases.

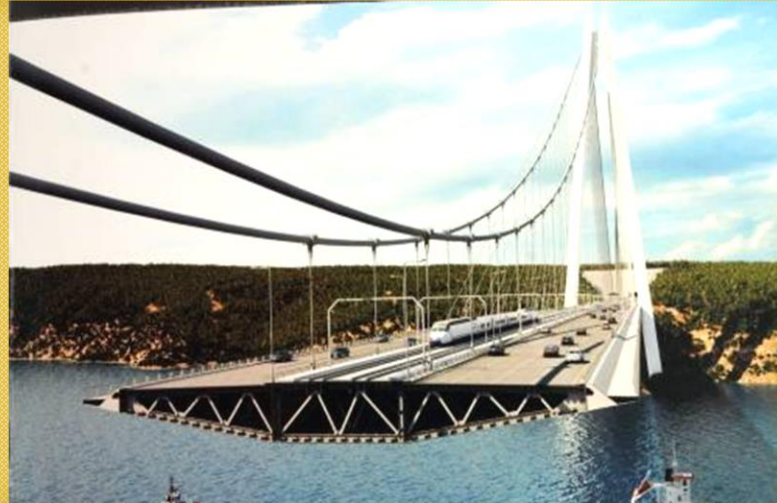


# Brief History

- ❑ Civil engineering has been an element of life since the beginning of human existence. Civil engineering, the first examples of which were found in Ancient Egypt and Mesopotamia between 4000-2000 BC, is the oldest basic engineering branch after military engineering and can be considered as the mother of engineering.
- ❑ The word “civil engineering” was first used in the 18th century for distinguishing non-military engineering studies from military engineering.
- ❑ Civil engineering is the primary of the founding engineering fields.



Due to civil engineering involves a wide area, there is a need to specialize in various sub-branches. The main ones of these areas are; structural engineering, geotechnical, transportation engineering, water resources engineering, construction materials science etc.



Work environments of civil engineers are office, construction site, laboratory, terrain, etc.

Although a significant part of civil engineering is performed at the construction site, some of it takes place mostly in the office. For this reason, some civil engineers work in the office, some in the construction site, and most of them in both areas.

Civil Engineer carries out these works in cooperation and solidarity with close professionals (Architect, Electrical Eng., Mechanical Eng., Geomatic Eng.).





Civil Engineers work in the fields of planning, project designing, construction and inspection of service and industrial structures such as **all kinds of buildings, dams, airports, bridges, roads, ports, sewer systems, water networks, tunnels, railways, high-speed train projects, metro.**



# AKU-Dept. of Civil Engineering

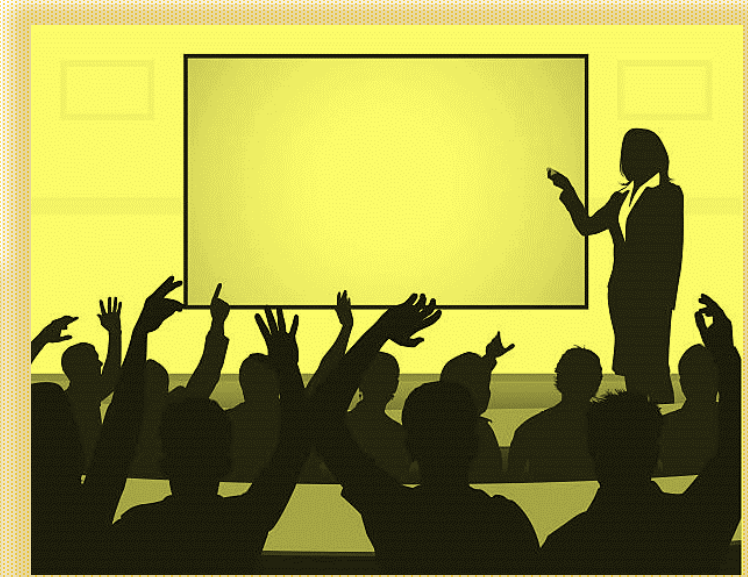
AKU Civil Engineering Department was established in 2002 within the Faculty of Engineering and started to accept students to the formal education program as of the 2011-2012 academic year.

## CONTACT

Address : ANS Campus, Fac. of Engineering, 03300, Afyonkarahisar  
Tel : 0 (272) 228 14 23  
Fax : 0 (272) 228 14 22  
E-posta : [insaatmuh@aku.edu.tr](mailto:insaatmuh@aku.edu.tr)  
Web Page : [insaat.aku.edu.tr](http://insaat.aku.edu.tr)



## Dept. of Civil Engineering Academic Staff



Title	Number of Academist
Prof. Dr.	5
Assoc. Prof. Dr.	3
Asst. Prof. Dr.	5
Lect. Dr.	1
Res. Asst. Dr.	1
Res. Asst.	5



# Dept. of Civil Engineering

## Our Academic Members



Prof. Dr.  
İsmail Demir  
*Chair*



Prof. Dr.  
Hüseyin Akbulut



Prof. Dr.  
İsmail Zorluer



Prof. Dr.  
Tayfun Uygunoğlu



Prof. Dr.  
Yılmaz İçağa



Assoc. Prof. Dr.  
Cahit Güner



Assoc. Prof. Dr.  
Gökhan Görhan  
*Vice Dean*



Assoc. Prof. Dr.  
Gökhan Kürklü



Asst. Prof. Dr.  
Ahmet Raif Boğa  
*Vice Chair*



Asst. Prof. Dr.  
Veli Başaran  
*Vice Chair*



Asst. Prof. Dr.  
Murat Hiçyılmaz



Asst. Prof. Dr.  
Murat Kilit



Asst. Prof. Dr.  
Süleyman Gücek



Lect. Dr.  
Pelin Sertyeşilişik



Res. Asst. Dr.  
Emin Taş



Res. Asst.  
Burak Enis Korkmaz



Res. Asst.  
Erhan Kahraman



Res. Asst.  
Saliha Çifci



Res. Asst.  
Şerife Gökçe Ak



Res. Asst.  
Şule Yarcı



**Afyon Kocatepe University**



**Faculty of Engineering**

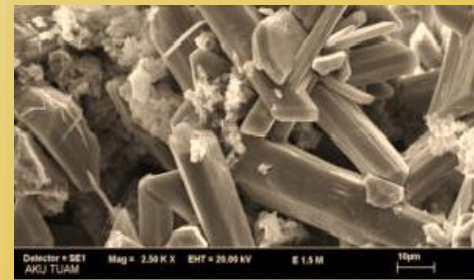


**Laboratory of Civil Engineering**

The academic staff of our department are grouped under six divisions, namely the Division of Transportation, Division of Hydraulics, Division of Construction Materials, Division of Structural Engineering, Division of Geotechnics, and the Division of Construction Management. And studies are ongoing to establish laboratories for all Divisions.

## Laboratories of Civil Engineering

- ❑ Lab of Construction Materials
- ❑ Lab of Structural Eng.
- ❑ Lab of Transportation
- ❑ Lab of Geotechnics
- ❑ Lab of Hydraulics
- ❑ Lab of Earthquake Resistant Design and Research



Technical and engineering services in the field of Civil Engineering are offered within the scope of revenue assets.

# Laboratory Devices and Equipments

## Lab of Structural Eng.

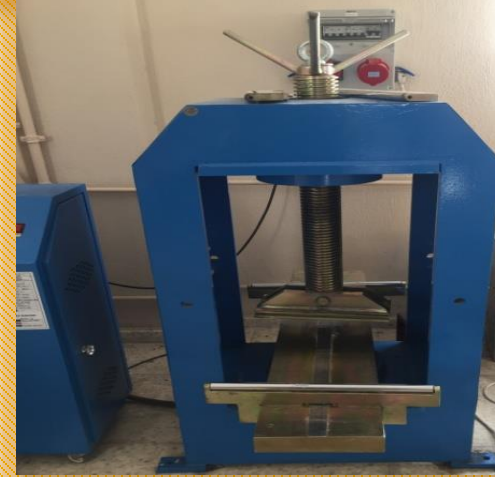
## Lab of Construction Materials



**Los Angeles  
Abrasion Machine**



**Concrete Compression Testing (200 Tons)  
and Flexure Testing (20 Tons) Machine**



**Concrete Compression and  
Bending Testing Machine**



**Concrete Compression  
Testing Machine**



**Steel Tensile Testing Machine**



**Wide Disc Abrasion Testing Machine**



**Polymer Tensile Testing  
Machine**



**Methylene Blue Test Set**

# Laboratory Devices and Equipments

## Lab of Transportation



**Automatic Marshall  
Stability Test  
Machine**



**Sieve Shaker**



**Brookfield  
Viscosimeter**



**Semi-automatic Digital  
Bitumen Penetrometer**



**Softening Point  
Test Device**

## Lab of Geotechnics



**Permeability Test Set**



**Automatic Soil Compactor**



**Liquid Limit Device  
(Casagrande)**



**Consolidation Test  
Apparatus**



Scenes of our Labs



# TÜBİTAK (The Scientific and Technological Research Council Of Turkey) Projects (Completed)

- Investigation of the use of fly ash in the production of construction bricks (2008)
- Determination of usage parameters of industrial wastes with high SiO<sub>2</sub> content in aerated concrete block production (2011)
- Determination of thermal performance of mortar phase in self-consolidating concretes containing different types of mineral admixtures (2012)
- Aerated concrete production from diatomite with atmospheric steam curing method (2014)
- Foamed concrete block production from marble waste (2016)
- Optimization of thermal curing process and development of mixture design methodology in the geopolymer materials production containing metakaolin and fly ash (2016)
- Investigation of concrete component and size effect on electrical curing method (2018)

# Student Exchange Programs

With the ERASMUS+, Farabi and Mevlana exchange programs, both national and international exchanges can be carried out. The universities with which we have bilateral agreements on the basis of departments are as follows.

1	UNIVERSITA DI BOLOGNA	<a href="http://corsi.unibo.it/civileLM/Pagine/default.aspx">http://corsi.unibo.it/civileLM/Pagine/default.aspx</a>	ITALY
2	GDANSK UNIVERSITY OF TECHNOLOGY	<a href="http://wilis.pg.edu.pl/en">http://wilis.pg.edu.pl/en</a>	POLAND
3	PANSTWOWA WYZSZA SZKOLA ZAWODOW IM. BRONISLAWA MARKIEWICZA W JAROSLAWIU	<a href="http://www.pwszjar.edu.pl/">http://www.pwszjar.edu.pl/</a>	POLAND
4	UNIVERSITY OF MARIBOR	<a href="https://www.um.si/Strani/default.aspx">https://www.um.si/Strani/default.aspx</a>	SLOVENIA
5	VILNIUS UNIVERSITY	<a href="http://www.vu.lt/en/">http://www.vu.lt/en/</a>	LITHUANIA
6	CZESTOCHOWA UNIVERSITY OF TECHNOLOGY	<a href="http://www.pcz.pl/en/">http://www.pcz.pl/en/</a>	POLAND
7	UNIVERSITY OF GRANADA, SCHOOL OF CIVIL ENGINEERING Language of education: Spanish B1	<a href="https://www.ugr.university/pages/prospective_students/undergraduatestudents/undergraduate-programmes/civil_engineering">https://www.ugr.university/pages/prospective_students/undergraduatestudents/undergraduate-programmes/civil_engineering</a>	SPAIN
8	UNIVERSITY OF NAPLES FEDERICO II	<a href="http://www.dist.unina.it/en_GB/il-dipartimento/presentazione">http://www.dist.unina.it/en_GB/il-dipartimento/presentazione</a>	ITALY
9	JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK Language of education: English (It will start in Jan 2023)	<a href="http://www.gfos.unios.hr/">http://www.gfos.unios.hr/</a>	CROATIA



# IN-DEPARTMENT ACTIVITIES

As Afyon Kocatepe University Civil Engineering Department, technical and cultural trips, participation in fairs, social events, etc. organizations are made.



## TECHNICAL VISITS





# TECHNICAL TRIPS AND COMPETITIONS





# SOCIAL EVENTS



# SEMINARS





**GRADUATION  
CEREMONY**



## EMPLOYMENT OPPORTUNITIES

Alumni of civil engineering departments of universities can be employed in the public and private sectors. Graduates from the relevant departments of technical fields can pursue academic career by completing master and PhD degrees. They also set up their own businesses.

# İNŞAAT MÜHENDİSLİĞİ

Civil Engineers work in institutions and organizations like Ministries of Environment, Urbanization and Climate Change, Agriculture and Forestry, Energy and Natural Resources, Transport and Infrastructure and General Directorates of State Hydraulic Works and Highways, Provincial Private Administrations, Municipalities, TUBITAK, SPO Agencies, Consulting Firms, Land, Air and Naval Forces Commands and State Economic Enterprises etc. Some of them work independently as contractors, while some of them have capital.

The background of the image shows several rolled-up blueprints or technical drawings, secured with yellow rubber bands. In the foreground, a black calculator is visible, along with some other office supplies like a pen and a small container. The overall scene is a workspace for engineering or architecture.

*Dear Candidates,*

We would like to state that we will be pleased to see you as students in our Civil Engineering Department.

Thanks for your attention...

Thanks for your attention...