



GAZİ UNIVERSITY

FACULTY OF TECHNOLOGY

APRIL 2014
ANKARA

Gazi University

Faculty of Technology

Rector

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Gazi University

Faculty of Technology

Rector's Welcome

Gazi University was founded by Mustafa Kemal Atatürk, in the capital city, Ankara, in 1926. As being one of the leading universities in Turkey, it is eighty-seven years old and has 21 faculties, 4 colleges, 11 vocational colleges, 1 conservatory and 48 research centers. Gazi University, which educates its students in the fields of education, communication, fine arts, engineering, sports, forestry, medicine, dentistry, literature, economics and banking systems, is the university which has the most faculties and vocational colleges.

Gazi University, which is a brand name both nationally and internationally, is also a dynamic, reformer and high-qualified world university with its campuses in different districts of Ankara, more than seventy-five thousand students and more than four thousand academicians.

Gazi University is a university which thinks scientifically, turns thoughts into knowledge, sets up the life with values and spreads them into the world. Being a student-centered university, our aim is to educate students who are equipped with the most developed knowledge, self-confident, can use the most advanced technology with critical thinking, find solutions to the problems of the community and who are against racism. We all exist because of our students. Our wish is to have high-quality students.

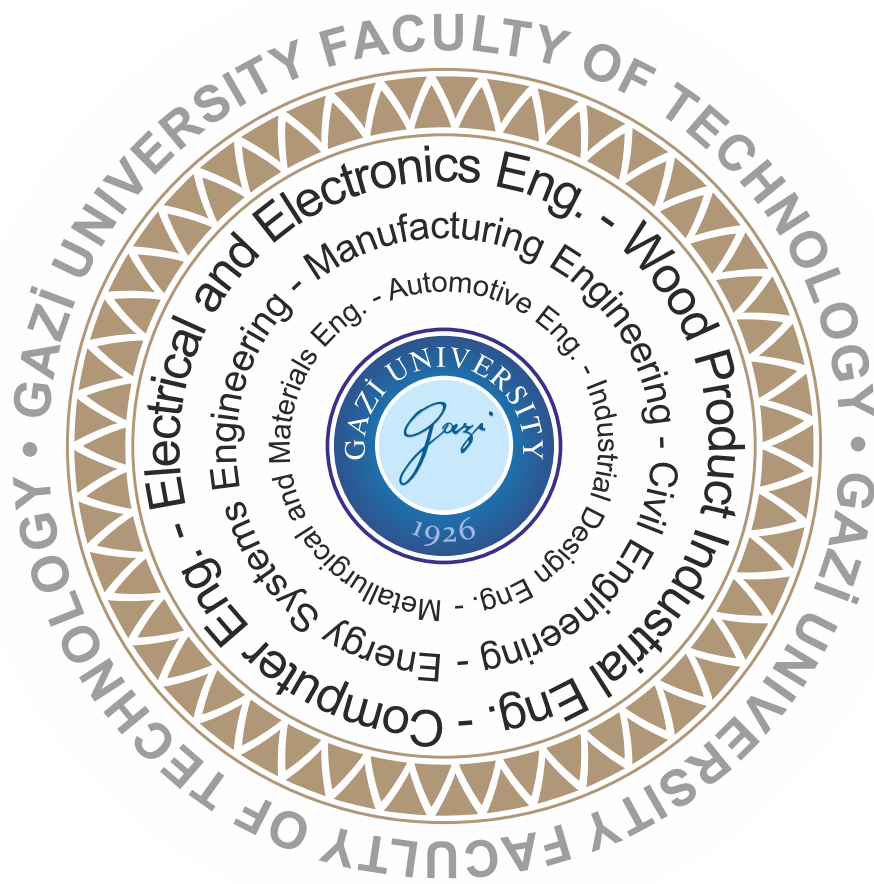
Our university, which is in the heart of the Turkish Republic, in Ankara, endeavors to make our students have the advantages of being in a big city. While the perfect academicians teach the newest and most advanced knowledge, our students will also find the opportunities of finding new hobbies, and develop their esthetic-intellectual skills through our sports facilities and various clubs.

We, as Gazi University, will always be with our students and support them with the help of our academicians and administrative staff.

I congratulate the students who have chosen our university again and wish them a successful life. It is a privilege to be a Gazi Student. May God help you.



Prof. Dr. Süleyman BÜYÜKBERBER
Rector





Gazi University

Faculty of Technology

Dean's Welcome

Faculty of Technology has been established with the council of ministers' decision and published in the Official Gazette No.27405 at 13.11.2009. This faculty is the first and largest its kind in Turkey. The main aim of Faculty of Technology is to service and to guide our country in the field of science and technology.

Our Faculty has nine engineering departments. These departments are Wood Products Industrial Engineering, Computer Engineering, Electrical&Electronic Engineering, Industrial Design Engineering, Energy Systems Engineering, Manufacturing Engineering, Civil Engineering, Metallurgical and Materials Engineering and Automotive Engineering. There are double major and minor programmes in our departments. Also graduate programme educations are being given.

Our mission is; to evaluate applicable engineering terms, ideas and outcomes with scientific methods, to define and analyse complex technical problems and subjects, to make discussion, to improve solutions for investigation and prof to be used at research and education activities. Our main education philosophy is to raise competitive, entrepreneur and social individuals who have scientific and ethical- conscious while considering, observing and announcing of the outcomes. Our vision is to be a faculty that is education (raising) individuals who are contributing, sharing information and experience, unique and inventive, professionally competent, internationally recognized, driven by research, open to new ideas, open to constant improvement and learning, leaders in development process of the country able to work as a team (team players).

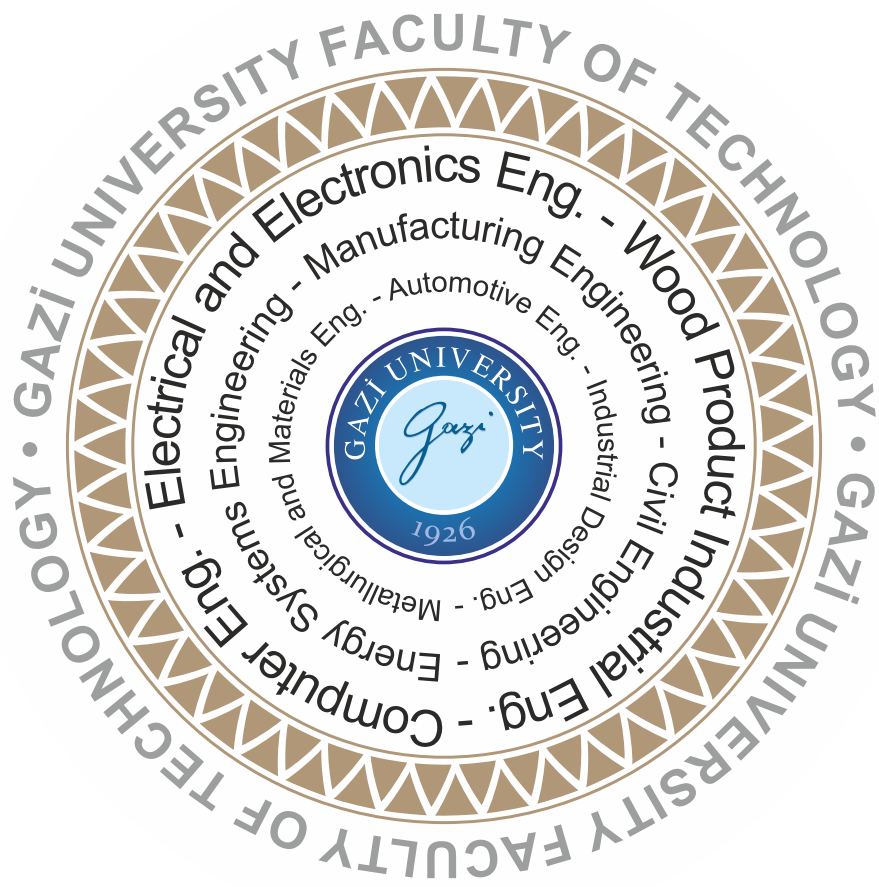
Our faculty is a new engineering faculty. Our purposes is to educate engineers, who have good practice skills, for the industry and sector of our country and in this way, is to accelerate development by combining theoretical knowledge's and practical skills. Our aim is to be a faculty, which can give the best education in engineering field, can carry out intense scientific research, can produce patents, is taken into account engineering and technology fields and has discrepancies. The other aim of the our faculty is also to be the center of the science and technology.

I want to repeat once again my claim that I expressed when I started to deanery position. As of the 2014 when our first students will graduate, it will found a condition that "Alumni preferably should be graduated from Gazi University Faculty of Technology " in engineering job notices given by sector.

For this reason, I congratulate on candidates who prefer our faculty. Moreover, I congratulate upon our instructors and students with my best regards in new academic year.



Prof. Dr. Mustafa İLBAŞ
Dean





Gazi University

Faculty of Technology

Administration



Prof. Dr. Mustafa İLBAŞ
Dean



Prof. Dr. O. Ayhan ERDEM
Vice Dean



Prof. Dr. Adem ACIR
Vice Dean



Ertuğrul YAZGAN
Faculty Secretary



Gazi University

ABOUT THE FACULTY

With the decision of the Council of Ministers published in the Official Gazette No. 27405 dated 13.11.2009, Gazi University Technical Education Faculty was closed and with the same decision Technology Faculty was established. Gazi University Technology Faculty consists of nine departments; namely, Wood Products Industrial Engineering, Computer Engineering, Electric-Electronic Engineering, Industrial Design Engineering, Energy Systems Engineering, Manufacturing Engineering, Civil Engineering, Metallurgical and Materials Engineering and Automotive Engineering. The faculty beginning with six departments; that is, Electric-Electronic Engineering, Energy Systems Engineering, Manufacturing Engineering, Civil Engineering, Metallurgical and Materials Engineering and Automotive Engineering in the academic year of 2010-2011, continues its academic activities with nine departments by taking students to the departments of Wood Products Industrial Engineering and Computer Engineering in the academic year of 2012-2013; and Industrial Design Engineering in the academic year of 2014-2015.



Faculty of Technology

MISSION

Our missions are;

- Evaluating concepts, ideas and data in the field of application-oriented engineering with scientific methods.
- Identifying and analysing complex technical problems and issues.
- Making arguments
- Being in teaching and research activities based on evidences and researches.

To bring up individuals:

- Who have knowledge and skills to perform the design and project works independently
- Who are capable of reading, developing, applying, controlling and inspecting the projects that have been made,
- Who can find solutions to complex situations that might be encountered in the unpredictable fields of knowledge and practice by taking responsibility
- Who can plan and manage activities for the professional development of employers who are responsible for,
- Who are capable of following the knowledge and applications in professional fields and have knowledge of foreign language that is sufficient for communicating with colleagues and computer software and hardware required for working fields.
- Who have self-confidence, cultural background and communication skills.
- Basic education philosophy of the faculty is to bring up entrepreneur, competitive, manager and social individuals having scientific and ethical values in gathering, commentating and publishing of the related data being an

VISION

The faculty continues to bring up qualified graduates and to provide opportunities for Gazi University by making efforts to be the first and leading institute and to reach the leadership in professional fields with advanced and adapted new curriculum.

In this context, our vision is being a faculty that brings up individuals:

- Being participatory, collaborative, competent in terms of profession and having unique aesthetic values,
- Who are reputed by international fields, stand out with their researcher identity, innovator, prone to continuous development, able to access to information, adopted the active learning as a principle,
- Being role model within the country of all kinds in the development process, able to communicate and collaborate effectively with co-workers and eager to learn throughout lifetime.



Gazi University

ACADEMIC STRUCTURE

In departments of the faculty there are total of 186 academic staff, 55 professors, 41 associate professors, 52 assistant professors, 34 research assistants and 4 proficient.

ADMINISTRATIVE STAFF

In Gazi University Technology Faculty, departments have General Administrative Services, Technical Services and Supporter Services in addition to 89 administrative personals serves in there.

PERIOD OF EDUCATION

In Technology Faculty Departments, education time is 8 half years (4 years). Undergraduate degree is given to students who successfully complete four years of education. Education language is Turkish. Faculty students practice industrial training as well as half year workplace training. There are also double major and minor programs possibilities.

SCORE TYPE

Students who have MF4 score are acceptable to our faculty departments.

SOCIAL ACTIVITIES

In addition to canteen, student cafeteria, football field, Turkish folk dances and theatre community there are various research communities contributing to the academic success of students in the faculty.

TECHNICAL CAPACITY

The faculty has 180.000 m² open area and 70.000 m² closed area. There are a large number of workshops, Computer Laboratory, Electric-Electronic-Communication Laboratory, Mechanic and Heat Treatment Test Laboratory, Metallography Laboratory, Hydraulic and Pneumatic Laboratory, CAD/CAM Laboratory, CNC Laboratory, Energy Efficiency, Fluid Mechanics and Heat Systems Laboratories. Additionally there are two internet laboratories and reading rooms.

Faculty of Technology

EMPLOYMENT OPPORTUNITIES

Graduates having professional and ethical responsibility, following-up contemporary and social developments, capable of effective written and verbal communication, inclined to team work, perceiving the need of continuous learning are capable to work in public institutes and private sectors.

Students who completed undergraduate degree can apply graduate and post-graduate programs.





Gazi University

EDUCATION AND INTERNSHIP OPPORTUNITIES

Under the Erasmus student exchange and internship opportunities are available abroad. Also plenty of education opportunities such as technical tours, courses, working groups and seminars are available for the students.

UNDERGRADUATE AND GRADUATE TRANSFER TERMS

Undergraduate transfer from other education institutes to Gazi University Faculty of Technology of the engineering programs is based on operating "Regulation on undergraduate transfer Between Associate Degree and Undergraduate Programs Between Institutions at Higher Education Institutions" and higher education principle. Graduate transfer is also possible for students to faculty of technology.

LIFE IN GAZI

One of the most essential and leader university in Turkey Gazi University is not only a learning and teaching area but also is an attraction center for its social, cultural, arts and sport activities including shelter, scholarship and education opportunities abroad.

LIBRARY

Gazi University Center Library is one of the biggest university library in Turkey for its supporting for learning and teaching activities and to get easy access to information.

Gazi University Center Library contain the following section: almost 200 computer usage capacity for national and international publication scanning, sitting capacity of 1500

people wired- wireless internet system, library section for visually handicapped, music listening, movie watching, VCD, DVD etc. section contain of equipment for visual, audial (multi-media), conference a hall with capacity of 143 sitting, comfort and nice environment of reading section, a separate section for application sources, a private e-library section for online database access and scanning, a thesis section for post graduate and doctorate/associate professorship thesis done at Gazi University, a closed section for art books and valuable works, a separated private working areas for academic stuffs, group working halls, session (seminar) hall and reading hall (room) open until 22:00 during education period.



Faculty of Technology

CAMPUS

Gazi University Faculty of Technology, is located in the Teknikokullar central campus.



TRANSPORTATION

The location of Faculty of Technology at the center of city makes it even easier for the students. Beşevler Ankara station's existence being close to faculty makes transportation easier. Apart from that almost from any part of the city to get to faculty by bus and minibus is easy as well. Also Faculty of Technology location at the centre of the city makes it easier to student to fulfil their needs.



Gazi University

DORMITORY FACILITIES

Dormitories which are within the General Directorate of Credit and Dormitories Institution and many private dormitories located near our faculty. Sabancı Dormitory, Gazi, Mehmet Akif girls' dormitory and many are among them.

HEALTH

Medico which is related to Health, Culture and Sports Department of the university is examined patients from 9:00 to 12:00 a.m. and from 13:00 to 4:00 p.m.

Psychological counseling and guidance unit both corrects students' mental health problems and helps knowing and developing himself or herself, communication skills, adjusting to the university and its environment.

90% of costs of medicine prescription given by Health, Culture and Sports Department of Health services and hospitals and hospital costs are provided by the Student Social Services Unit Treasurer.



Faculty of Technology

NUTRITION

Gazi University gives importance to students' nutrition. Food which is presented with the best price to students, is prepared with dietitian supervision at hygienic conditions at Gazi University cafeteria. Also various menus which is prepared for students with low budget at cafes where is high quality.





Gazi University

FACULTY SOCIAL AND CULTURAL LIFE

Cultural and Scientific Facilities: Technology Faculty is a more prosperous faculty compared to others in terms of various social and cultural activities. Orientation studies, meeting teas for incoming freshmen; commemoration weeks and programs; sports activities has become a tradition since they are organized every year. Moreover, in our faculty, conferences and discussion meetings are organized in which important political, cultural, scientific and social issues of day are tackled. There exist student clubs to which students can join according to their interests.



Faculty of Technology

ADVERTISING ACTIVITIES

With the aim of informing the students that will prefer our faculty advertisement days are organized about the faculty and its departments.



STUDENT CLUBS

There exist student clubs constituted by the faculty students for preparing activities including scientific, technologic, cultural, medical and social subjects.



Gazi University

THE FORMULA-G SPECIAL AWARD TO OUR SOLAR CAR

The Solar Car Project, designed and manufactured by the students of Gazi University Technology Faculty, is coordinated by Prof.Dr.Atilla Koca.

In the Project team, there are four members and twenty students from Automotive Engineering Department . Solar Car is mainly held by the sponsorship of Nurol Holding Corporation. The car will be trained to race at Kocaeli at 15 July 2012. The team name is ŞEMS-İ GAZİ and car name is NUROL.



The sponsorship contract was signed between Gazi University Rector Prof.Dr. Rıza Ayhan and Nurettin Çarmıklı from Nurol Holding Corporation at the date 07.06.2012

Project design is contributed by Faculty of Technology, Department of Automotive Engineering, Department of Metallurgical and Materials Engineering, Department of Woodworks Industrial Engineering and these departments members and students.

Gazi University Technology Faculty Solar Car was awarded by TÜBİTAK in the TÜBİTAK Formula-G competition "private institutions award" in 2012.

Faculty of Technology

ACADEMIC AND SCIENTIFIC ACTIVITIES

Between June 2011- June 2012, 57 international publication indexed in SCI and 4 international conference have been carried out by the members of our faculty. Our faculty members are encouraged to be part of international conferences and scientific publications. At the beginning of the academic year, the successful students of our faculty are awarded at the opening ceremony with the participation of rector.



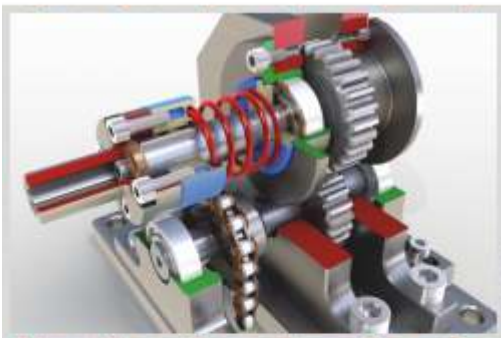


Gazi University

GENERAL VIEW FROM OUR LABORATORY



Faculty of Technology






5th International Conference on Information Security and Cryptology
 ISC Turkey 2016 | ISC Turkey 2008 | ISC Turkey 2007 | ISC Turkey 2009 | Bilim Güvenlik Çalışmaları 2011 | Bilim Habuk Çalışmaları 2013

Siber Güvenlik ve Savunma Cyber Security and Defence
5. Uluslararası Bilgi Güvenliği ve Kriptoloji Konferansı
5th International Conference on Information Security & Cryptology
 17-18 Mayıs/May 2012
 ODTÜ Kültür ve Kongre Merkezi
 NETH Culture and Congress Center
 Ankara-TÜRKİYE



**6^{ncı} INTERNATIONAL
POWDER METALLURGY
CONFERENCE & EXHIBITION**
**ULUSLARARASI
TOZ METALURJİSİ
KONGRESİ ve SERGİSİ**

**Türk Toz Metalurjisi Derneği, Gazi Üniversitesi ve
ODTÜ tarafından ortaklaşa düzenlenen
"6. Uluslararası Toz Metalurjisi Konferansı ve Sergisi"
5-9 Ekim 2011 tarihleri arasında ODTÜ Kültür ve
Kongre Merkezi'nde gerçekleştirildi.**

1996 yılında dünya toz metalurjisi dalında toz metalurjisi dernekleri arasında en geleneksel olarak her yıl bir kere yapılan
Toz Metalurjisi Konferanslarından itibaren 5-9 Ekim 2011 tarihleri arasında Ankara'da gerçekleştirildi. Her geçen konferan-
sistaki katılımcıların sayısı artıyor ve 18 ülkeden 400'den fazla delegasyon katıldığı konferansa bu kez Orta Doğu Teknik Ün-
iversitesi ev sahipliği yaptı. 2008 yılında olan ilk Türk konusundaki kongresine Türk Toz Metalurjisi Derneği Başkanı Mustafa
Prof. Dr. Süreyya Sarıgöz başkanlığında düzenlenen konferansta açılış konuşmasını Prof. Dr. Mehmet Tüfekçi, Türkiye'nin kültürel ve ekonomik
durumunu anlatan bir film ve Prof. Sermin Yılmaz'ın başkanlığında sunulan bir konferansla başladı.

Kongresinin açılış konuşmasını Türk Toz Metalurjisi Dernek Başkanı Prof. Dr. Mehmet Tüfekçi, akşam ve öğleden önce toz
metalurjisi faaliyetlerinin son durumu, derneğin yaptığı çalışmalar, dernek tarafından FTY kapsamında MPM (Metalurjik
Emniyetin ortaklaşa yürütülen Avrupa Birliği Çerçevesi Projesi) ve Ulusal Toz Metalurjisi Araştırma ve Geliştirme Merkezi
kurulması için yapılan alt yapı proje başvurusu ve diğer konulara değindi.

Kongresinin ev sahipliği yapan ODTÜ Rektörü Prof. Dr. Ahmet Acar ile kongreye ve
derneğe desteklerini belirtirken konuşması dinleyen Gazi Üniversitesi Rektörü Prof. Dr.
Zafer Arslan'ın konuşmalarından sonra 36 stand ile yer aldığı kongre
sergisinin açılış yapıldı.

Kongresinin ev sahipliği yapan ODTÜ Rektörü Prof. Dr. Ahmet Acar ile kongreye ve derneğe desteklerini belirtirken konuşması dinleyen Gazi Üniversitesi Rektörü Prof. Dr. Zafer Arslan'ın konuşmalarından sonra 36 stand ile yer aldığı kongre sergisinin açılış yapıldı.

**II. EUROPEAN WORKSHOP on
RENEWABLE ENERGY SYSTEMS**

"A true route to future"

WRES

GAZDAR UNIVERSITATEI



2nd International Conference on
**Nuclear & Renewable
 Energy Resources**
 04-07 July 2010 Eski University, Istanbul, Cumhuriyet Caddesi, Aydinlik, Turkey

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04-07 JULY 2010

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PAPERS**

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Selected papers of **04-07 JULY 2010** Conference:
[04-07 JULY 2010](#)

Faculty of Technology

DEPARTMENTS

Department of Automotive Engineering

Teknikokullar/Yenimahalle
Ankara/TÜRKİYE
0312-2028713

Department of Civil Engineering

Teknikokullar/Yenimahalle
Ankara/TÜRKİYE
0312-2028860

Department of Computer Engineering

Teknikokullar/Yenimahalle
Ankara/TÜRKİYE
0312-2028559

Department of Electrical and Electronics Engineering

Teknikokullar/Yenimahalle
Ankara/TÜRKİYE
0312-2028516

Department of Energy Systems Engineering

Teknikokullar/Yenimahalle
Ankara/TÜRKİYE
0312-2028950

Department of Industrial Design Engineering

Teknikokullar/Yenimahalle
Ankara/TÜRKİYE
0312-2028627

Department of Manufacturing Engineering

Teknikokullar/Yenimahalle
Ankara/TÜRKİYE
0312-2028600

Department of Metallurgical and Materials Engineering

Teknikokullar/Yenimahalle
Ankara/TÜRKİYE
0312-2028750

Department of Wood Product Industrial Engineering

Teknikokullar/Yenimahalle
Ankara/TÜRKİYE
0312-2028820



Automotive Engineering

AUTOMOTIVE ENGINEERING

Automotive; is the name of an industrial sector that includes ground, sea, air and space vehicles. However, the term of automotive is used more often for ground vehicles which are automobiles, busses, lorries, trucks, heavy duty machinery, farm machinery, motorcycles, rail vehicles and military purpose vehicles. Institutions producing vehicle and vehicle components, institutions dealing with the sale and after-sale services of vehicle and vehicle components are named as automotive sector.

Vehicles are formed of some mechanical, electrical, electronic, hydraulic and thermodynamic modulus. One of the most important modulus of a vehicle is the power source. For the current situation most commonly the internal combustion engines are used as the power source however, there are specific vehicles driven by electrical motors as well.



The aim of the automotive engineering program is to provide qualified manpower for automotive sector to work in design, production, testing, approving, selling and after-sale services of vehicles. Automotive engineering program is an interdisciplinary program composed of mechanical, electrical, electronic, material, metallurgy and chemical engineering.



Department Facilities

In Gazi University Automotive engineering department, the education has been initiated in 2010 and will give graduation in 2014. From the quality point of view, the department is one of the most powerful automotive engineering programs in Turkey. In the department there are 9 professors and 4 assistance professors as academic staff. Beside these, there are 6 research students and 2 specialists.

Some of the engineering courses taking part in the curriculum are taught theoretically while the others are being taught practically. The curriculum of the department was prepared regarding the thoughts of industrialists working in automotive sector in Turkey. In the department there are 9 laboratories. Via the practical education carried out in these laboratories, students learn the physical principals of vehicular systems and gain practical experience on the maintenance, preparation, assembly and testing of vehicles and vehicular systems.

One of the 8 terms of education period has been devoted to industrial education. For industrial education students are sent to industrial institutions for a 15 weeks period in 7th or 8th term. For industrial education, 11 protocols have been signed with big companies having adequate production and export capacity. Some of these are MAN (Ankara), TEMSA (Adana), MERCEDES (Aksaray), TOYOTETSU (İzmit), OSCAR (Ankara) HİDROMEK (Ankara). To make protocol with more companies, preparations are undergoing.

Most of courses taught in automotive engineering program aim to improve the analyzing and design capability of the student however, there are also some social course aiming to improve the knowledge of students on labor and business laws, workshop organization, entrepreneurship and business establishment etc.

✦ Automotive Engineering
06500 Teknikokullar Ankara
T. 0312 202 86 39 - 86 46 - 86 48 F. 0312 202 89 47
<http://tf.gazi.edu.tr>

GRADUATE STUDIES

In Automotive Department of Gazi University, beside the graduate education, there is also a Post Graduate Program to prepare the academic staff member and post graduate students. In the department researches are conducted on;

1. Electrical and hybrid vehicles energized with solar radiation,
2. Automotive aerodynamics,
3. Reduction of vehicular vibrations,
4. Automotive suspension and brake systems,
5. Power transmission systems,
6. Alternative fuels,
7. Alternative combustion processes in internal combustion engines,
8. Solar energy and external combustion engine development
9. Electronic control systems of vehicles and engines.

Some of these researches have been supported by the Scientific and Technological and Research Council of Turkey (TÜBİTAK). Results of some researches were published in international journals having high impact factors



EMPLOYMENT FOR AUTOMOTIVE ENGINEERS IN TURKEY

In Turkey the key industry of automotive employs 50 000 persons. The sub-industry of automotive employs 200 000 persons. Beside these 250 000 persons work in distributing and marketing businesses. The total number of automotive industry workers is estimated to be 500 000 persons. This number indicates that, in Turkey, the most advantages engineering branch from the employment point of view is the automotive engineering.

For the current situation, the automotive sector experiences a serious international competition. In the past there was dominantly a price and quality competition. For the current situation however, as well as the price and quality competition, the product variety and customer preferences became important. Because of these, in the oncoming years, the model improvement and brand creating seems to be an important issue for automotive sector in Turkey. All of these problems increase the demand for automotive engineers.





Civil Engineering



OBJECTIVE OF PROGRAMME

Our objectives are to give the fundamental information of civil engineering technologies, to develop the creative thinking, to improve students in research, planning, designing and implementing skills. By this way, graduates will be active to make research, analysis and synthesize of the information gained. They become in good personality for society and environment and those are also capable in terms of social skills.

CIVIL ENGINEERING PROGRAMME

In our department students are gained in terms of theoretical and practical knowledge. With this respect, our skills of graduates differ in technology and implementation from the other engineering programmes. Hence, to improve the students' engineering practice, they have opportunity to have laboratories and workshop activities in the department. Also, they have to take one semester out of the school to train in the prominent construction companies. For this purpose, students are encouraged to take this advantages to work in construction sector by their own preferences with the approval of the department.



 Civil Engineering Department
 06500 Teknikokullar Ankara
 T. 0312 202 88 60 F. 0312 202 89 47
<http://tf.gazi.edu.tr>

EMPLOYMENT AREAS FOR CIVIL ENGINEERING GRADUATES

Graduates can have a work position in construction sites of superstructure and substructure, highway, railway, subway, tunnel, bridge, dam, seawall, irrigation and wastewater treatment structures, concrete production facilities, construction material laboratories, architecture and construction project offices, contracting companies, building audit companies and site investigation companies and the related positions of various state institutions and organizations as well as they can establish their own companies.

VISION OF THE DEPARTMENT

Our vision is science and research related horizons in civil engineering, high quality education, creative activities, service to community and leading international research and scientific collaborations.

IN CIVIL ENGINEERING DEPARTMENT

Soil Mechanics Laboratory
 Mechanics Laboratory
 Construction Material Laboratory
 Concrete Laboratory
 Pavement Laboratory
 Hydraulics Laboratory
 Surveying Laboratory
 Computer Laboratory



WHO MAY PREFER THE PROGRAMME?

Students are admitted from general high schools, vocational high schools and technical high schools which provide related field. Students from vocational high schools are subjected to take one year adjustment programme.

Students who completed vocational and technical high school are subjected to take one year adjustment programme implemented by Turkish Higher Education Institution. This adjustment programme includes Maths, Physics and General Chemistry Lectures.

Double Bachelor Degree and sub-branch programmes are available in our department. There are also possibilities of post graduates programmes in Civil Engineering Department.

Our University which bears the name of Gazi with honor of a part of the first academic institution which trained pioneering technical staff and educators;

CIVIL ENGINEERING DEPARTMENT AT FACULTY OF TECHNOLOGY

Our tasks are acting with the responsibility of being the first educate individuals, being researchers inquisitive, able to thinking critically and respect to human values and contribute life-long learning of society development process.





Computer Engineering



Computer engineering is a discipline that integrates several fields of engineering, mathematics and computer science to develop both computer hardware and software. Computer engineering generates the easiest and fastest technical solutions to facilitate the daily life with using computers. The analysis, design, development, and maintenance of system that includes both software and hardware components are the essential scopes in computer engineering. The four year Computer Engineering Degree course focuses the theory and principle of engineering, and mathematics. Theoretical knowledge is used to design computer and computer-based systems and to develop software on digital systems by students.

Our students take core courses about the principle of the computer science, computer hardware and architecture, several programming languages, data structures and algorithms, operating systems, and communication networks. Elective courses are offered to specialize in the areas of computer system design, artificial intelligence, network systems and security, software engineering, and latest web technologies. We apply problem solution oriented education and training to prepare the students for the work life. Courses involve intense project and experimental studies that are closely related with industrial needs.

FACILITIES OF LABORATORIES AND RESEARCH

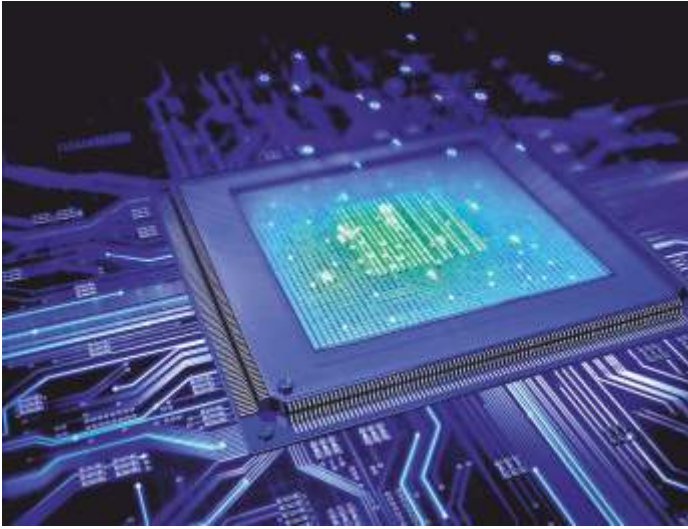
Computer Engineering Department has ten well-equipped laboratories for applied-research and course training. These include digital design, microprocessors, computer hardware, control systems and robotics, electrical and electronic circuits, web design and four computer systems laboratories. Our students can access all laboratories to study at any time. All computers are connected to internet and each other via fiber optic spine network.

SPECIALTY AREAS OF COMPUTER ENGINEERING

- Computer Systems, Architecture, Parallel Processing
- Computer Networks, Communications, Mobile Systems
- Computational Science And Engineering
- Signal, Image and Speech Processing
- Robotics
- Embedded Systems
- Programming Language and Operating Systems
- Biomedical Informatics and Application
- Cloud Computing Applications
- Artificial Intelligence Applications



 Computer Engineering
 06500 Teknikokullar Ankara
 T. 0312 202 85 59 F. 0312 202 89 47
<http://tf.gazi.edu.tr>



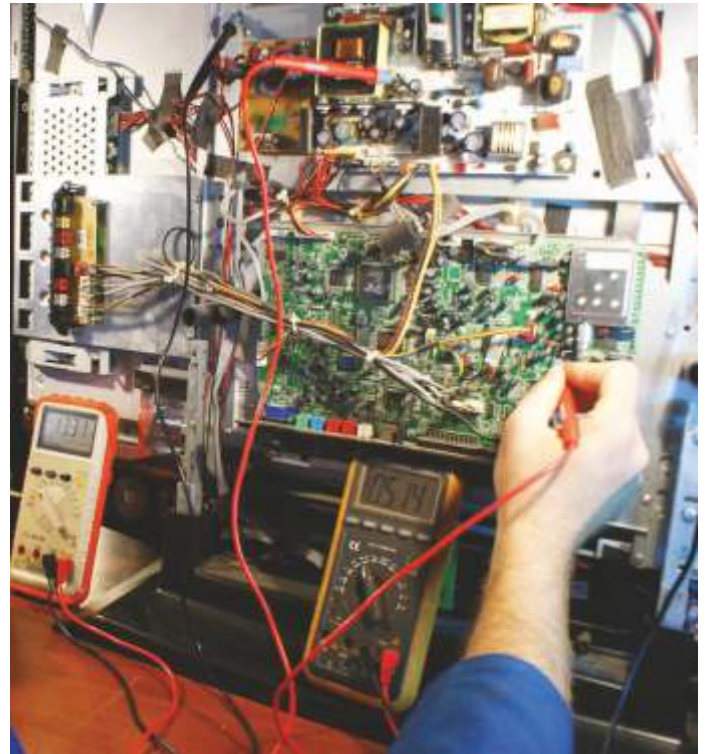
WORK OPPORTUNITIES

Today, computer technology is related to several fields such as mainly communications, health, education, economy, defense, banking, and etc. Hence, there are many work opportunities and choices in different areas that connect with computers for computer engineers. Graduates can work in the computer centers of different public or private companies and research centers. They can be involved in the process from the design and implementation stage of software or the evaluation stage to testing and maintenance, or any single stage of the software projects of any type of business. With sufficient career experience and the right qualifications, our graduates can also oversee projects and be employed in management roles. They can also pursue an academic study and get master's degree or PhD for their careers.



OUR MISSION

The mission of the Computer Engineering Department is to prepare our students to become socially and ethically conscious engineers that are equipped with the adequate theoretical, practical, leadership and teamwork skills that they can use to creatively design, implement, and maintain the computer software, hardware and information systems, in today's technology.



PROGRAM DURATION

The duration of the program is eight terms, which takes four years. If students fulfill the requirements of the program, they can be granted the degree of Bachelor of Science in Computer Engineering. The official language of instruction is Turkish. Addition to industrial internship, students take workplace training in one semester during their education. Students have also opportunities to register to double and minor programs.



Electrical and Electronics Engineering



ELECTRICAL AND ELECTRONICS ENGINEERING

Electrical and Electronics Engineering that subjects the principles of engineering science in the field, is a department aims to give theoretical and applied electricity and electronics training at undergraduate, graduate and Ph. D. levels.

In this regard, main goal of our department is to train engineers who have capability of analysis and application and who can pursue up to date science and technology in the field of electrical and electronics in our country and in the world. Accordance with this objective, as benefited from laboratories facilities available in our department, sector's whole facilities are also utilized for performing scientific and technological innovations that will contribute to service our country and all humanity.



STUDENTS ACCEPTANCE TO DEPARTMENT

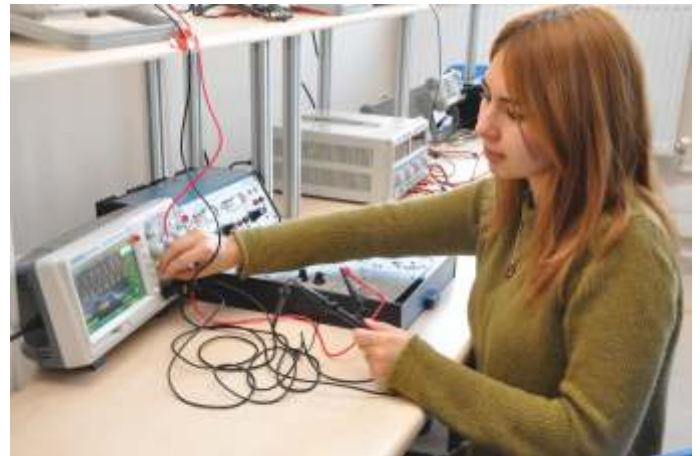
Electrical and Electronics Engineering Department accepts students from general high schools and vocational and technical education institutions. The one-year preparatory training is applied to students graduated from vocational high schools. Students who have score in quantitative are admitted to our department.

INTERNSHIP AND WORKPLACE TRAINING OPPORTUNITIES

Workplace training at 7 or 8 semester is an application within the framework of university-industry collaboration that aimed to teach students workplace etiquette and discipline, and increase application skills in the field of students who received theoretical and practical knowledge at lessons until this period.

Our students, In addition to the 72-day summer internships, have the opportunity to study under the name of "a job training" for a semester in the public or private sector companies who created R & D and training infrastructure.

Under this program, protocols have been signed with many national and international companies and workplace training is underway. The negotiation sare continuing with other companies.



WORK AREAS AND BUSINESS OPPORTUNITIES

Electrical and Electronics Engineering is one of the most popular profession. There are a wide range of work branches and job opportunities for the graduates. Some of these work areas are as listed below:

- Power Plants
- Power Generation, Transmission ,Distribution Systems
- Electrical Machines, Automatic Control Systems
- Electronic Design, Maintenance and Repair
- Medical Electronics
- Telecommunication (Satellite Communication Systems ,GSM Technologies, fixed telephone and radio) Systems
- Broadcasting (Radio, TV, IPTV, Web TV)
- Information Technology
- Information and Cyber Security Systems
- Defense Industry
- Electronic Security Systems

✦ Electrical and Electronic Engineering
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DEPARTMENT FACILITIES

Department of Electrical and Electronics Engineering have 6 professors, 8 associate professors, 8 assistant Professors and 5 research assistants, total of 29 academic staff.

Miscellaneous Laboratories:

Türk Telekom Communication laboratory

Electronics Laboratory

Microprocessor Laboratory

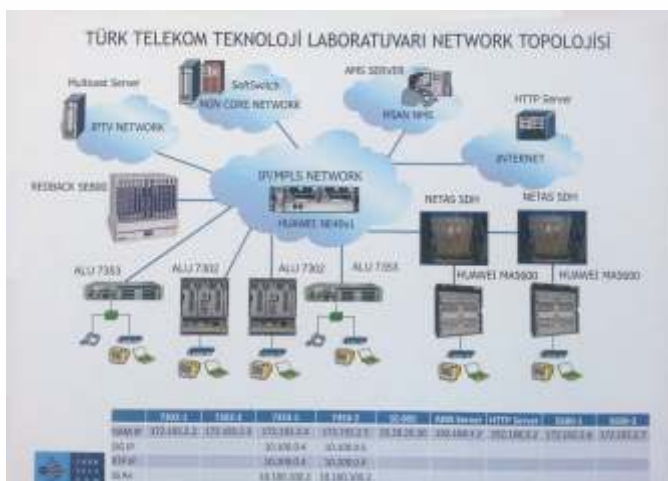
Control Systems Laboratory

Power Electronics Laboratory

Computer Laboratory

Electric Machines Laboratory

The purpose of these labs is to provide professional training and at the same time to participate actively in applied and theoretical research. Among these labs, Türk Telekom Communication Laboratory is one of the most important communication labs in Turkey. Türk Telekom Communication Laboratory includes all the devices and systems used in the communication industry. This means a huge cooperation between Gazi University and Türk Telekom.



DURATION AND LANGUAGE OF EDUCATION

Duration of education and training in various departments of the Faculty of Technology is 8 semesters (4 year). Students are given to an undergraduate degree who complete the four-year educational program successfully. The language of instruction is Turkish.

Our students of the Faculty of Electrical and Electronics Engineering, in addition to industry internships, 1 semester of 8 semester academic year take place as the job training. In the department of Electrical and Electronics Engineering, double major and minor education is maintained. Bachelor's degree students have the opportunity to graduate education.

Electrical and Electronics Engineering





Energy Systems Engineering

DEPARTMENT OF ENERGY SYSTEMS ENGINEERING

It is a discipline, which focuses on producing any kind of high quality, low cost and environmentally friendly energy. It is also responsible from planning, development and execution phases of bringing the energy to the consumers and economical consumption of the energy in addition to developing strategies regarding these phases.

Main objective of Department of Energy Systems Engineering is to raise educate engineers, who can question things and have research abilities, can use all technological tools effectively, focus on high quality, can function in international companies, have a broad vision and who have leadership characteristics.

Also the department participates in ERASMUS program for students and staff. The department is an active participant of the Mevlana program, too.



Engineers received education in the Department of Energy Systems Engineering aims to be the leading engineer, who design and manufacture energy systems, has high practice skill, learn for life and competent in solving problems by taking into account the main principles of energy technologies and learning and teaching techniques, with regard to design of a system and making of its calculation, manufacturing of the appropriate systems and maintenance and renewal of this system.



Faculty of Technology was established by council of ministers decision published in the Official Gazette No. 27405 dated 11.13.2009. Students in Faculty of Technology receive education "WORKPLACE EDUCATION" to improve his/her practical skills and to be attuned to workplace in senior class. For this reason, the students of Faculty of Technology spend 7 of 8 semesters of academic year semester at the school and first semester in the workplace. Furthermore, they receive education industry internship training during 72 working days in summer terms.

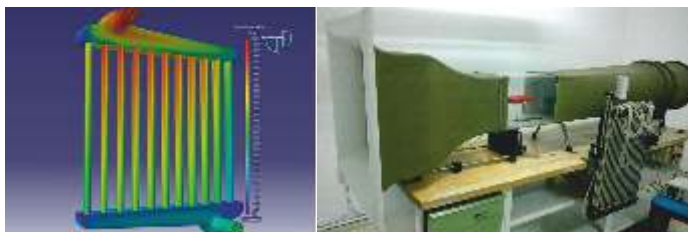


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PROGRAM DURATION

Education and training duration in various departments of the Faculty of Technology is 8 semesters (4 years).

The language of education is Turkish. Our Faculty of Energy Systems Engineering students, have industry internships and also workplace training which takes one semester during their 8 semester period.



Due to becoming a new engineering branch both in Turkey and in the world; our department takes over a significant role to solve energy problems of our country. Moreover, this programme is a charming one for students studying other engineering are as to do sub-branch or double major.

Some corporation is given below where alumni can work:

- The Ministry of National Education
- All Areas About Energy Systems and Technologies in Private Sector and Public
- Mechanical Installation Applications (Heating, Cooling, Ventilation, Air Conditioning and also Plumbing)
- Energy Generation Power Plants (Thermic, Hydraulic, Wind, Geothermal and so on)
- The Ministry of Energy and Natural Sources
- Energy Market Regulatory Authority (EMRA)
- General Directorate of Petroleum Affairs
- Mineral Research and Exploration Institute
- National Boron Research Institute
- General Directorate of Renewable Energy
- Electric Generation Company
- Turkish Electricity Transmission Company
- Turkish Electricity Distribution Company
- General Directorate of State Hydraulic Works
- General Directorate of Turkish Coal
- Turkish Petroleum Corporation
- Petroleum Pipeline Corporation
- Turkish Petroleum Refineries Corporation
- Turkish Atomic Energy Authority
- General Directorate of Turkish Electromechanics Industry
- UN Hydrogen Institute
- Turkish Hard Coal Authority
- Turkish State Railways

GRADUATE EDUCATIONS

There are master and doctorate programmes in our department. Some of the studies conducted in our graduate programmes are as follow:

- Fossil Fuels
- Renewable Energy Resources
- Nuclear Energy
- Energy Efficiency
- Heating, Cooling and Ventilation - Air Conditioning Systems etc.



Industrial Design Engineering



INDUSTRIAL DESIGN ENGINEERING

Design is the process that includes all activities for the development of products which cover social requirements or demands. Design can be considered based on various aspects or views. The Department of Industrial Design Engineering covers both visual and aesthetics aspects of design (i.e. artistic side of design) and engineering aspect of design (i.e. technological, functional, manufacturability, durability sides of design). The department has an education program which integrates and applies both aspects of design (engineering and aesthetics). A design engineer graduated from such a program will consider strength and manufacturability while making very creative / innovative designs. Therefore, this kind of designers can be demanded and employed by various industrial firms.

The Department of Industrial Design Engineering has very experienced academic staffs and modern CAD / design laboratories, and provides practical work experiences in industrial firms. Thus, we provide an engineering education at high quality level. It is also possible to have degrees of Bsc, MSc and PhD in the department.



ACCEPTANCE OF STUDENTS

The Department of Industrial Design Engineering accepts students coming from both general high schools and vocational high schools. A student coming from vocational high schools must attend an orientation education course during the first year period. The acceptance of students to the department depends on MF-4 point type of general examination. A student who is graduated from the department may have the title of Industrial Design Engineer.



EMPLOYMENT CHANCE OF GRADUATES

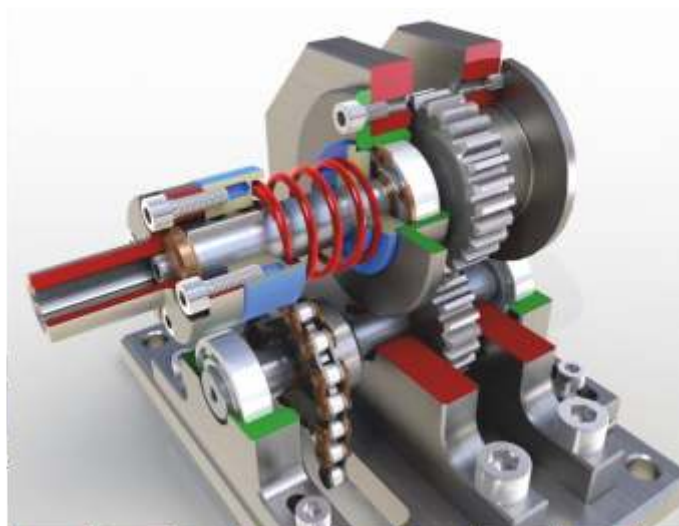
Industrial Design Engineering may be one of the most popular professions of nowadays and future times. An engineer graduated from this program can be employed in many different industrial organizations, including:

- Automotive and its sub-industries
- Aviation and marine industries
- Machine and equipment industries
- Furniture industry
- Glass and ceramic industry
- Defence industry
- Die and casting industries
- Production industries of biomedical and medical materials
- Production industries of public transportation vehicles
- Plastic Technology
- Quality control and investigation firms etc
- Industrial Design Engineers can generally be employed in many fields of industrial firms and R&D centers such as defence, machinery, electronics, aviation, space, automotive, furniture, medicine, biomedical, and so on.

✦ Head of Dep. of Industrial Design Engineering
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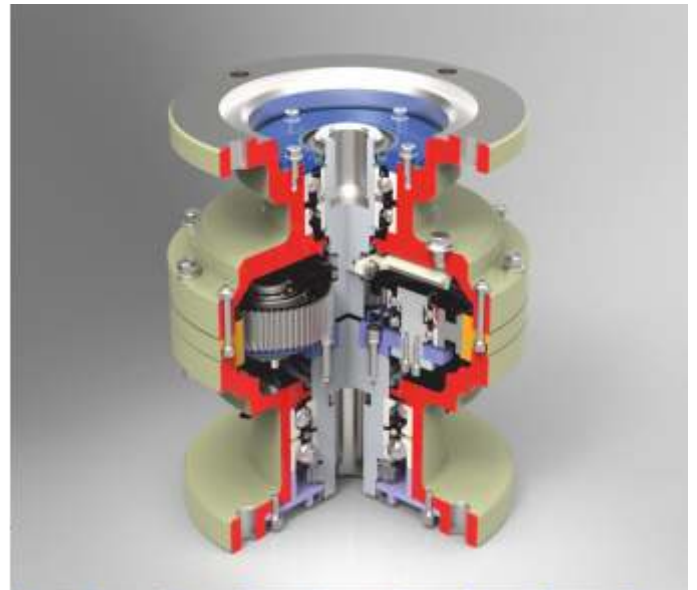
EDUCATION PERIOD

The education period of Technology Faculty, as well as its departments, is 8 semesters (4 years). After successfully completing 4 educational years, a student can have a BSc degree in the field of engineering. Education language is Turkish. Students attending the Department of Industrial Design, in addition to job training during the summer, must work at industrial organisations during a full term period. If they want, they can also do a double major program and a sub-branch undergraduate program. It is also possible to have postgraduate opportunities when they complete an undergraduate program.



The Department of Industrial Design Engineering, locates in the central campus of Gazi University. Students living at different places of the city can arrive in the campus by any type of public transport vehicles. Moreover, there are many state and public student dormitories nearby.

Our department can provide sufficient education opportunities which cover industrial requirements and has a high quality level in industrial design. Therefore, students graduated from the department can easily get jobs and also earn high salaries.



The gained basic knowledge and abilities by a design engineer, after graduating this program, can be summarised as:

GAINED PROPERTIES	Good	Excellent
Technical drawing		✓
The use of CAD programs		✓
The use of CAE programs		✓
Manufacturing and materials knowledge	✓	
Basic engineering knowledge		✓
Basic design knowledge		✓
Creative thinking		✓
Systematic thinking		✓
Design capability		✓
Projectpreparation ability		✓
Entrepreneurship	✓	



Manufacturing Engineering

DEPARTMENT OF MANUFACTURING ENGINEERING

Manufacturing contains the whole processes from mining to final product. The stuents of our department who will be responsible at any stage in this process are educated. Many workplaces in machine manufacturing sector needed technical staff who have experience in the field of manufacturing and can use the modern technologies such as CAD (Computer Aided Design), CAM (Computer Aided Manufacturing), CAE (Computer Aided Engineerineering) and CNC in solving problems. For this purpose, our students in the department of Manufacturing Engineering at the Technology Faculty are educated pratice oriented in the laboratories containing convectional machine tools and CAD, CAM, CNC. Laboratories.



In the department of manufacturing engineering, mathematics, statics, dynamics, strength of the material, machine elements, thermodynamics and fluid mechanics courses are based on the basic engineering sciences and practice-based engineering education are given.

Because of the our students get practical training with manufacturing systems and machine tools in the practise workshop and laboratories and learn convectional and modern manufacturing technologies, when they start to work in industry after graduation, they will be able to adapt to manufacturing process of the company and take responsibilities in a short time. Graduates from the Department of Manufacturing Engineering is given "Manufacturing Engineer" titlle.



DURATION OF EDUCATION

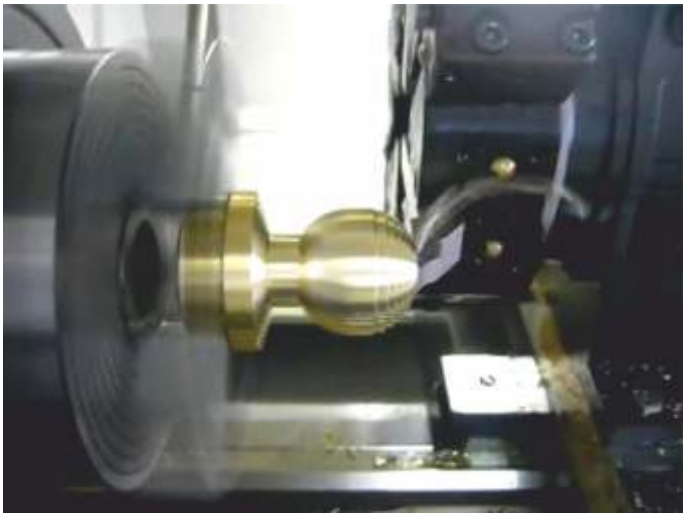
The duration of education in our department is 8 semesters (four years). A bachelor's degree in manufacturing Engineering is given to the students who complete the four year program. The language of education is Turkish. Beside the industrial internship, our senior students are required to recieve one semester of workplace training in relevant sector. Furthermore, Department of Manufacturing engineering has gaduate programs for bachelor's degree graduates.



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WORKING AREA

- Manufacturing Manager, Manufacturing Supervisor, Manufacturing Engineer,
- Desing Manager, Desing Supervisor, Desing Engineer,
- CAD Specialists, CAM specialist,
- CNC Programmer,
- System designer in automation sector.



Manufacturing Engineering undergraduate program strengths are;

- Experienced academic staff
- Applied engineering education
- Laboratory, machine tools, software and hardware facilities
- Classic and modern manufacturing methods applications
- Applied CAD, CAM and CNC training
- Enough measurement, test and experiment laboratories and equipment.

Our department has laboratory facilities that are used undergraduate education and graduate research studies.

1. CNC R & D Laboratory
2. CAD / CAM Laboratories
3. Hydraulics and Pneumatics Laboratory
4. Manufacturing Laboratory
5. Computer Laboratory
6. Measurement and Control Laboratory
7. Sheet Metal Forming Laboratory
8. Plastic Moulding Application Laboratory
9. Material Characterization Laboratory



GRADUATE STUDIES

In Manufacturing Engineering Department of Gazi University, beside the under graduate education, there is also a Post Graduate Program under prepare the academic staff member and post graduate students.





Metallurgical and Materials Engineering

PERSONAL QUALIFICATIONS OF APPLICANT STUDENTS FOR METALLURGY AND MATERIALS ENGINEERING

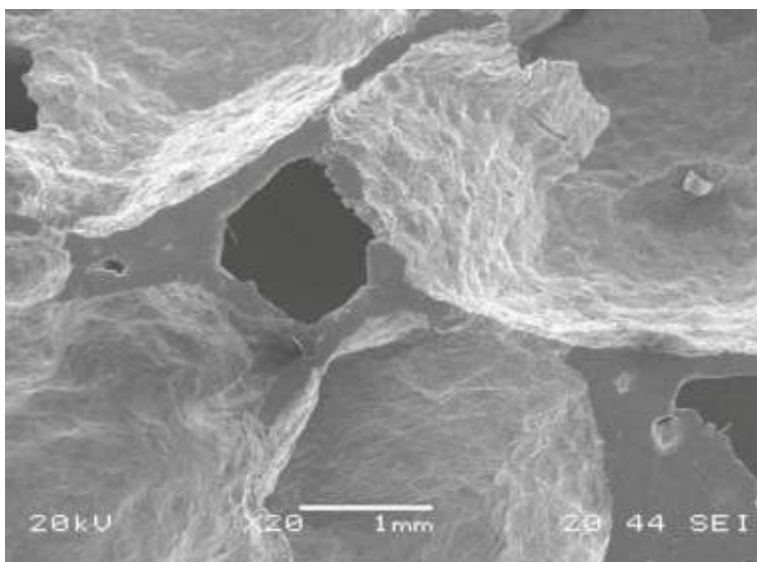
- Interested in new technologies
- Application skills

GAINED SKILLS AND BEHAVIORS

- Analytical thinking skills
- Engineering approach
- Mathematical ability to Express
- Research and learning ability
- Learning to learn skill
- Software project development ability
- Team work and management techniques comply
- Ability to use effective communication techniques
- Improve the ability of written expression
- To have professional conduct and ethical values

OUR GOALS ARE

- To educate students who have a strong background in basic engineering subjects ,mathematics, physics, chemistry, physical chemistry and electrochemistry
- To have knowledge about modern engineering techniques and equipment necessary for the application
- Knowledge about scientific and engineering principles underlying the four major elements of the field; structure, properties, processing and performance related to material systems
- Knowledge about methods and technologies for production of metallic and non-metallic engineering materials from natural and secondary sources and their forming, processing, preservation and surface treatment processes.
- Professional and ethical responsibilities, ability to follow and comment about modern and social developments, capability of effective written and verbal communication, team work spirit and perception of continuous learning requirement.



Metallurgical and Materials Engineering
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BUSINESS FACILITIES

- Iron and steel industry
- Non-ferrous Metal Production Industry (Copper, Aluminium Industry)
- Glass, Refractories and Ceramic Industries
- Casting Industry
- Defense Industry
- Machinery Manufacturing Industry
- Automotive and Auto Parts Industry
- Aircraft and Ship Manufacturing Industry
- Welded Production
- Metal Forming and Processing Industry
- Surface Treatment and Coating Industry
- Electrical and Electronics Industries
- White Goods Manufacturing Industry
- Magnetic Materials Manufacturing Industry
- Biomedical Materials Manufacturing Industry
- Energy Sector
- Polymer Materials Manufacturing Industry
- Quality Control and Surveillance Company
- R & D Companies and Universities

Metallurgical and Materials Engineering is about to design and develop metal, ceramic and polimer based engineering materials and their properties can be adapted to the technical requirements in various industries, beginning from inorganic and organic based synthetic and natural raw materials.

In our department, academic activities are supported by practices in relevant laboratories. Technical visits provide opportunities to students to become familiar with industry.

In the scope of postgraduate applications, academicians of future are trained for higher education by publishing various papers with BAP, DPT, TUBITAK and European Union projects.



EDUCATION PERIOD

Gazi University, Department of Metallurgical and Materials Engineering training period is eight semesters (four years). Training language is Turkish. In addition to industry internship application students get workplace training in the relevant sector in one semester of the education period. At this department, together with the possibility of a double major and minor, postgraduate education. Master of Science (Msc), Doctor of Philosophy (PhD) is given.

LABORATORIES

- Mechanical Testing Laboratory
- Metallography Laboratory
- Heat Treatment Laboratory
- Non-Destructive Testing Laboratory
- Scanning Electron Microscope Laboratory
- Ceramic Laboratory
- Materials Laboratory
- Oxy-Gas and Electric Arc Welding Laboratory
- Special Welding Applications Laboratory
- Pressure Die Casting Laboratory
- Chemical Analysis Laboratory
- Powder Metallurgy Laboratory
- Mechanical Metallurgy Laboratory



Wood Products Industrial Engineering



WOOD PRODUCTS INDUSTRIAL ENGINEERING

Wood or wood-based materials or their composites within a structure using the design and manufacture considered a product of the desired quality standards, specified period of time and limited cost for the manufacturing system design, operation and control the sub-system using the main optimization system for starting up is an engineering discipline.

WOOD PRODUCTS INDUSTRIAL ENGINEER

Graduates, from the Faculty of Technology "Wood Products Industrial Engineering Department with the Law No. 5531 dated 29.06.2006" and Union of Chambers of Turkish Engineers and Architects, registered to the Chamber of Forest Engineering, has the ability to sign in the sector.

WOOD PRODUCTS INDUSTRIAL ENGINEER ACTIVITY AREAS

Wood Products Industrial Engineers, who has the authorization as an engineer, particularly public institutions, including the private sector for production workshops and factories, all kinds of wood and wood-based materials manufacturing businesses of all sizes in design, project, production, quality control, R & D and marketing areas in the field will be equipped. In general, graduates will be able to work act as engineers, researchers, marketing engineers in the furniture factories, municipalities, National Productivity Center, DPT (State Planning Organization) and TSE (Turkish Standards Institute), and TPE (Turkish Patent Institute), DMO (State Supply Office), KOSGEP.

WOOD PRODUCTS INDUSTRIAL ENGINEERING EDUCATION

The period of Wood Products Industrial Engineering Education covers four years and eight. Our students take industry training practices for one semester term of eight semi-annual terms on the job training in the related sectors. Engineering and business courses are given in WPIE with the direction to the wood product processing and marketing industries. Overall, the topics of wood, wood derivatives, establishment of processing industries, administration, operation, production, standardization of processed wood products and quality controls are given during the course.

THE PROGRAM'S MAIN OBJECTIVES

Mission:

- To train industrial engineers according to the expectation of the 21st Century with the abilities of versatile and comprehensive knowledge and technology, open to innovation, scientific national and cultural values equipped with wood and wood products industry.
- To contribute the development of technology in wood products industry in parallel to contemporary developments sighted national and international acceptance and dissemination of knowledge.
- To be effective in the competitiveness of the wood products industrial sectors globally and make the necessary infrastructure work.
- To educate entrepreneurs and managers with the ability to think analytically for the wood products industry to produce and production facilities plan.

Vision:

- To be competitive both national and inter-national platforms with scientific develop-ments related to the field.
- To bring strong position for the leader of our country in the world with undergraduate and postgraduate education activities in global aspects.
- To corporate culture and our country with quality education that best in their field of engineering, scientific and managerial skills to be part leading to the acquisition.
- To increase the competitiveness of our country's wood products sector and contribute towards creating integration with the world.



WOOD PRODUCTS INDUSTRIAL ENGINEER WORKING AREAS

Wood Products Industrial Engineering graduates in all industries functioning wood products design, planning, production, quality control and marketing are working in the fields. Wood products industrial engineer are eligible to work in wood products industry in the production and planning, especially the design of products and drawings, wood related products in the area feasibility report, factories and workshops, establishment, operation, treated wood products, standardization, quality control and marketing.

 Wood Product Industrial Engineering Department
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WORKING AREAS

- Graduate education R & D activities,
- High level of sectoral planners, managers,
- Furniture design and manufacturing industry,
- Timber manufacturing and trading companies,
- Wood flooring and paneling manufacturing industry,
- Wood joinery industry,
- Wood glue industry,
- Coating production and processing industry,
- Plywood, chipboard and fiberboard manufacturing and operating industry,
- Wooden cottage industries: building wooden houses,
- Wooden construction elements manufacturing industry,
- Historical and cultural production and restoration of wooden artifacts,
- Interior design companies,
- Wood caravan manufacturing,
- Automotive industry (internal),
- Aircraft supply industry (interior and furniture),
- Wooden yacht and ship manufacturing industry,
- Adhesive for chemical suppliers, varnish, impregnation of the industry,
- Walls, floors, stairs and roof design and manufacturing industries,
- Wood processing plants and machinery manufacturer,
- Feasibility reports preparation, installation and operation,
- Wood products related standardization and quality control procedures,
- Consultancy sector,
- Professional and trade organizations, are employed in the public service, and engineering firms.

LABORATORIES

CAD / CAM laboratories,
 Finishing laboratories,
 Furniture, testing laboratories,
 Wood anatomy labs,
 Combustion testing laboratories,
 Furniture upholstery labs,
 Heat treatment laboratories,
 UV laboratory,
 Physical and mechanical wood technology laboratory,
 Tech lab.

DEPARTMENT OPPORTUNITIES

5 professors, 2 associate professors, three assistant professors and lecturers including four technicians are on duty in the wood products industrial engineering department. The department has wireless internet connection. Every spring period determined by the will of the department is organized technical excursions to industrial organizations. In addition, students from different communities, various activities by establishing regulations are allowed. Sporting activities with student's eager on behalf of the department are participating in such activities.

Also the department participates in ERASMUS program for students and staff. The department is an active participant of the Mevlana program, too.

Department of Infrastructure

Wood Products Industrial Engineering within the undergraduate / graduate education and research activities that are used for CAD / CAM labs, finishing laboratories, furniture, testing laboratories, wood anatomy labs, combustion testing laboratories, furniture upholstery labs, thermal processing lab, UV laboratory, physical and mechanical wood technology laboratory application workshop, design studio, and seminar halls.

EXISTING PHYSICAL INFRASTRUCTURE

Wood Products Industrial engineering department has education classrooms, workshops and laboratory infrastructure. The department covered a total area of 1,650 m² and is completely separated existing classes that are used by the program, workshop and laboratory space.



Technology Faculty Academic Staff Buildings





Technology Faculty New Building Groundbreaking Ceremony



Rector, Prof. Dr. Süleyman BÜYÜKBERBER



Dean, Prof. Dr. Mustafa İLBAŞ

