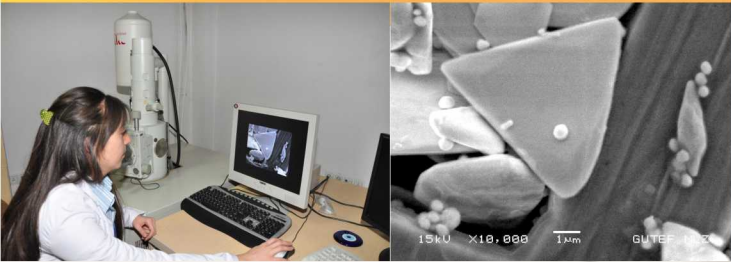


Metallurgical and Materials Engineering is about to design and develop metal, ceramic and polimer based engineering materials and their properties can be adapted to the technical requirements in various industries, beginning from inorganic and organic based synthetic and natural raw materials.

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.



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

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. Mater of Science (Msc), Doctor of Philosophy (PhD) is given.



GAZI UNIVERSITY TECHNOLOGY FACULTY

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GAZI UNIVERSITY FACULTY OF TECHNOLOGY

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.

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

