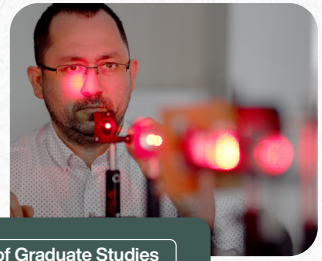
SBTU INSTITUTE OF GRADUATE STUDIES

- In the programs at the Institute of Graduate Studies, more than 30 simulation and application-oriented courses are carried out with engineers with PhD from the defense industry. Currently, a total of 227 students, 172 of whom are MSc and 55 PhD, continue their studies
- In our institute, thesis studies are carried out in the departments of Defense Technologies and Agricultural Sciences, responding to sectoral needs, product-oriented and mostly shaped within the scope of a project. Many of our students have the opportunity to find employment in important defense industry organizations
- In addition, our students have the opportunity to work at the Optical Research Center and Advanced Alloy Manufacturing Center



INNOVATIVE EDUCATION MODEL

- Master's and Doctorate Programs in our institute
  - Computer Engineering (English)
  - Electrical and Electronics Engineering (English)
  - Defence Technologies (interdisciplinary)
  - Plant Production and Technologies
  - Agricultural Science (interdisciplinary)
- In our programs that provide education in English, our students will be offered the opportunity of a English preparatory class
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  In this context, people with academic titles working as experts in the field of defense industry and agriculture teach at our institute. At the same time, these experts also carry out the graduate and doctoral advisory to our students
- Within the scope of our Education programs, we are implementing the industrial advisory system for the first time in Turkey

  In addition to their academic advisors, our students work on their theses together with their industrial advisor. Thus, all the theses conducted at our Institute are industry-oriented and are prepared based on concrete practices that produce solutions for the problems of the sector
- As the output of all these processes, joint projects with the sector are carried out and graduate theses are actually prepared in the field

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DEPARTMENT OF DEFENSE TECHNOLOGIES SUBJECTS

- In the Department of Defense Technologies at our institute, our studies are carried out by our faculty members and students with an interdisciplinary approach
  - Advanced ceramic materials and ceramic additive manufacturing
  - Battery management systems
  - Piezoelectric materials
  - Optics, opto-electronics
  - Energy storage
  - Advanced materials
  - Additive manufacturing
  - Powder metal production
  - Magnetism
  - Fast solidification
  - Surface thermodynamics
  - Explosive materials
  - Machine learning
  - Deep learning
  - Artificial intelligence
  - Image processing
  - Metaverse
  - Cyber security
  - Power electronics
  - Vehicle dynamics
  - Magnetic levitation
  - Robotics
  - Aerodynamic
  - Unmanned aerial vehicles
  - Propulsion systems

SOME THESES CONDUCTED AT OUR INSTITUTE

- High Definition FMCW (Frequency Modulated Continuous Wave) Radar
- Developing a Retractable Wing System for Guided Munitions
- Applicability of Fiber Bragg Grating Based Strain Sensors in Aircraft Wings
- Ballistic Analysis of AlSi10Mg Lattice Structures Manufactured by Additive Manufacturing
- Nanophotonic Antenna Design for Realizing Infrared and CO_2 Laser Camouflage in Defense Industry Applications

DEPARTMENT OF AGRICULTURAL SCIENCES STUDIES

Within the Department of Agricultural Sciences, In order to achieve the concept of Agriculture 4.0, our studies in the following areas with an interdisciplinary approach are carried out by our faculty members and students in our laboratories and in our Agricultural R&D Center of 140 decares

- Molecular-based resistance breeding to biotic and abiotic factors
- Remote sensing
- Artificial intelligence-based early diagnosis models of diseases and pests
- Plant biotechnology
- Plant breeding
- Agronomy, quality, sustainable soil management
- Diagnosis, distribution, density and damage levels of diseases and pests seen in plants and plant products and methods of control

SOME THESES CONDUCTED AT OUR INSTITUTE

- Investigation of the Effects of Some Heavy Metals on the Growth of Sorghum Bicolar L. Moench Plant In Vitro Conditions
- Phenopytic Characterization of Some Cowpea Gene Sources in Sivas Ecological Conditions
- DNA Fingerprinting and Population Structure Research of Gene Sources of Cowpea Plant Using Scot Markers

SBTU Institute of Graduate Studies

Some of Our Courses

Defense Technologies	Agricultural Sciences
Terahertz Technologies	Smart Agriculture
Experimental Aerodynamics	Gene Transfer Techniques in Plants
Metal Additive Manufacturing	Genetic Mapping in Plants
Li-ion Batteries and Applications	Soilless Agriculture Techniques
Rocket Fuels and Combustion	Modern Breeding Techniques in Plants

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