



20th year

ISTANBUL

OKAN UNIVERSITY



Istanbul Okan University Master's Program in Automotive Mechatronics and Intelligent Vehicles

Program: The automotive sector is in need of engineers that are research oriented, equipped with technical knowledge and experts in their area. To meet this need, Istanbul Okan University Institute of Science has developed a Thesis Master of Science Program titled "Automotive Mechatronics and Intelligent Vehicles". It is well known that almost all of the automotive companies in Turkey are international. During vehicle design, foreign and native engineers cooperate. Thus, in automotive factories and especially in R&D, English is commonly used. This is the reason the program is taught in English. The English Thesis Master of Science Program in Automotive Mechatronics and Intelligent Vehicles accepts applicants who have a B.S. degree in Automotive Engineering, Mechanical Engineering or Energy Engineering. Computer Engineers, Mechatronics Engineers and Electrical and Electronics Engineers can join the program after they have completed the "Scientific Preparation Program" courses. The program contains compulsory and elective courses each of which are 3 credits. Students must successfully complete 21 credits of courses, a seminar course and a Thesis assigned by the adviser.

Curriculum

- Fundamentals of Engineering Mathematics
- Mechatronic Systems Design
- Automotive Mechatronics
- Advanced Modeling and Simulation of Dynamic Systems
- Electric and Hybrid Electric Vehicles
- Automotive Electrics and Electronics
- Advanced Internal Combustion Engines
- Advanced Vehicle Dynamics
- Sensing and Processing
- Theory and Design of Advanced Control Systems
- DSP-Based Electromechanical Motion Control
- Autonomous Vehicles
- Control of Advanced Powertrain Systems
- Vehicle Dynamics Control
- Artificial Intelligence and Adaptive Systems



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