

ME402-404-406 Engineering Design
Finalday Presentation Schedule - 19 June Friday 2026

ME402 Mechatronics System Design

Location: D07

Instructor	Project Title and Definition	Students	Time
Prof. Dr. M. İ. Can Dede	Modular Quadruped Legged Robot	Yusuf Ahmet Çevik, Alperen Doğan, Ahmet Can Turan, Efe Keklik, Umut Alp Ayan, Ufuk Serdar Çaybaşı,	09:30-09:55
Prof. Dr. Gökhan Kiper	Design of Pine Seed Extraction and Sorting Machine	Farukcan Bulut, İsmail Ayberk Coşkun, Oğuzhan Tuncer, Nilay Coskun, Egemen Çağlar Türker	09:55-10:20
Prof. Dr. Serhan Özdemir	AI-based Black-box Model Generation and Learning on Vehicle Parking	Yiğitcan Baysal, Cuma Doğan, Baran Can Akyüz, Yetkin Karaçalı,	10:20-10:40

ME404 Thermal-Fluid Systems Design Session 1

Location: Seminar Room

Support: 404 Session 2 Professors

Instructor	Project Title and Definition	Students	Time
Assoc. Prof. Dr. Şenay Mihçin	Design and Development of a Low-Cost Portable Seawater Desalination Device for Emergency and Remote Applications	Görkem Sargut, Alara Gül Görgün, Metehan Bilgin, Kerem Kuruçay, Kaan Balık	09:00-09:25
Assoc. Prof. Dr. Şenay Mihçin	Design and Development of a Low-Cost Portable Seawater Desalination Device for Emergency and Remote Applications	Eren Çelebi, Berke Çiftçi, Süleyman Celleoğlu, Oğuzhan Arık, Anılcan Tekineş	09:25-09:50
Prof. Dr. Erdal Çetkin	Investigation of the Thermal Effects of Preheating Applied to Lithium-Ion Batteries	Cemre Taş, Veysel Eroğlu, Zeynep Günsu Demirel	09:50-10:10
Prof. Dr. Erdal Çetkin	Latent Solar Thermal Energy Storage: The Effect of Phase Change Material Domain	Gamze Uyaroğlu, Eren Meydan	10:10-10:25

ME404 Thermal-Fluid Systems Design Session 2

Location: Seminar Room

Support: 404 Session 1 Professors

Instructor	Project Title and Definition	Students	Time
Assoc. Prof. Dr. Ünver Özkol	Improving Performance Of A Small Underwater Vehicle	Huriye Çaylı, Egehan Özer	10:40-10:55
Assoc. Prof. Dr. Ünver Özkol	Thrust Improvement Of A Drone Propeller and Its Test Setup	Ege Ergen, Ege Cömert, Burak Taner	10:55-11:15
Assoc. Prof. Dr. Ünver Özkol	Thrust Improvement Of A Drone Propeller and Its Test Setup	Berk Mutlu, Mehmet Emir Yiğit	11:15-11:30
Assoc. Prof. Dr. Ünver Özkol	Design of Fighter Aircraft Exterior Geometry with Rapid Iteration using Parametric Modelling Methods	Mehmet Bozkurt, Eren Çakır, Fırat Taşkale, Uğur Sürücü, Kerem Cellat	11:30-11:55
Assoc. Prof. Dr. Ünver Özkol	Design of an Axial Fan for a Heat Exchanger and Its Test Setup	Tayfun Özel, Kaya Gündüz, Kaan Gürsel	11:55-12:15
Assoc. Prof. Dr. Ünver Özkol	Design of an Axial Fan for a Heat Exchanger and Its Test Setup	Denizcan Ağca, Türkay Sueda Yılmaz	12:15-12:30
Dr. Ayşe Korucu	Acoustic Fire Extinguishing	Yasin Berkay Konuk, Cem Okutucu, Ozan Cihan Doğan	12:30-12:50

ME406 Manufacturing and Materials Design Session 1

Location: D03

Support: 402 Professors

Instructor	Project Title and Definition	Students	Time
Dr. Büşra Karaş	Digital Model of Advanced Production Systems	Selay Gülsüm Esti, Mehmet Can Çağan Kaplan, Zeynep Nisa Yıldırım Karaman	09:30-09:50
Dr. Büşra Karaş	Redesign and Mechanical Performance Investigation of an Automotive Brake Caliper Using Topology Optimization and Additive Manufacturing	Furkan Zeybek, Lütfü Can Keyik,	09:50-10:05
Dr. Halil Tetik	Design of a Printhead for Robotic Additive Manufacturing of Continuous Fibre Reinforced Thermoplastic Materials	Şahin Emir Kaplan, Tan Bayraktutan, Ali Bayraktaroğlu, Yusuf Sarıca	10:05-10:25
Dr. Büşra Karaş	Design and Performance Analysis of Additively Manufactured Bionic Cell Shock Absorber Structures	Toprak Göçer, Elmas Ali Adanalı, Mehmet Can Arıkan	10:25-10:45
Dr. Benay Uzer	Design and Experimental Analysis of a Rolling Test Setup	Hikmet Can Tunali, Arda Isbilir, Sefa Onat, Nazmi Eren	11:00-11:20
Dr. Benay Uzer	Development of a Sheet Metal Forming Test Setup	Kasım Can Köse, Onurhan Em, Yusuf Can Atac	11:20-11:40
Dr. Benay Uzer	Extrusion Test Setup for Education	Toygun Tüfenk, Alan Dibiroy, Fatih Sarıca, Orçun Aydın	11:40-12:00

ME406 Manufacturing and Materials Design Session 2

Location: D07

Instructor	Project Title and Definition	Students	Time
Prof. Dr. Mehmet Dördüncü	Strain Data-Driven Shape Sensing for Real-Time Structural Health Monitoring of UAV Wings	Mehmet Ali Tanrıverdi, Ali Efe Tahtacı, Ahmet Kaan Kırmacı	11:00-11:20
Prof. Dr. Alper Taşdemirci	Mechanical Performance Assessment of Molded Paper Pulp as an Eco-friendly Packaging Material	Enes Pala, Ömer Faruk Niğdeli, Yaşar Mert Durmuş	11:20-11:40
Prof. Dr. Mustafa Güden	Miniature Split-Hopkinson Pressure Bar design for hard and soft materials	Cafer Can Heptepe, Tamer Taş, Emir Ceylan, Remzi Miraç Kaya, Yusuf Ziya Başlamışlı	11:40-12:05
Assoc. Prof. Dr. Şenay Mihçin	Hybrid Optimization and Bench Testing of PLA 3D-Printed Hip Stems Combining Cross-Section Geometry and Lattice Infill	İsmail Cem Suakar, Ege Özman, Gülşah Ceylan, Mert Şanlı	12:05-12:25