

**LİSANS BİTİRME PROJELERİ TABLOSU ME 491 2023-2024 GÜZ**

<b>Grup No</b>	<b>Öğretim Üyesi</b>	<b>Çalışma Konusu</b>
<b>1</b>	<b>Prof. Dr. Alper KONUKMAN</b>	Development of design and analysis software tools for process systems
<b>2</b>	<b>Prof. Dr. Mehmet Ali ARSLAN</b>	Mechanical Design and Analysis of your choice
<b>3</b>	<b>Doç. Dr. Gamze GEDİZ İLİŞ</b>	Mass flow rate and temperature calculator for industrial pipe lines
		Mass flow modeling of a PV/T panels
		Strength analysis and design of a Vacuum Tank
		Battery cell heat generation and temperature distribution
<b>4</b>	<b>Prof. Dr. Ahmet Sinan ÖKTEM</b>	Numerical and Experimental Investigation and Optimization of Static and Dynamic Behaviors of Nano Particle Reinforced Glass or Carbon Fiber Composites
		Numerical and Experimental Investigation and Optimization of Static and Dynamic Behaviors of Nano Particle Reinforced Natural Fiber Composites
<b>5</b>	<b>Dr. Öğr. Üyesi Recep ÖNLER</b>	Tool path simulation for residual stress and warping reduction in large part production using wire fed directed energy deposition additive manufacturing. -Tel beslemeli doğrudan enerji biriktirme yöntemiyle üretilecek büyük boyutlu parçalarda takım yolunun üretim simülasyonunun yapılması, kalıntı gerilme ve çarpılmaların optimize edilmesi-
		Gimbal design for surface vehicle platform -Suüstü araç platformu için gimbal tasarımı

6	<b>Dr. Öğr. Üyesi Saeed LOTFAN</b>	Dynamics of rotating blades
		Artificial intelligence in mechanical engineering
7	<b>Prof. Dr. Naghdali CHOU PANI</b>	Modeling and analysis of damage and failure of a laminated composite plate
		Modeling and dynamic analysis of pressurized fuel tank with variable shell thickness
		Modeling and analysis of indentation in a thick plate
8	<b>Dr. Öğr. Üyesi Peyman Lahe Motlagh</b>	Topology optimization of battery cooling plate using finite element method
		Utilizing smart structures integrated with piezoelectric patches for energy harvesting applications
		Design of a lightweight electrical car battery pack using finite element based topology optimization
9	<b>Dr. Öğr. Üyesi Belkis Erzincanlı</b>	
10	<b>Dr. Öğr. Üyesi Sedat TOKGÖZ</b>	Flow visualization using smartphones
11	<b>Dr. Öğr. Üyesi Ali EKEN</b>	Comparison of different RANS turbulence models in aerodynamic analysis using OpenFOAM
		Comparison of different RANS turbulence models in aerodynamic analysis using SU2
12	<b>Dr. Öğr. Üyesi Fatih Usta</b>	Manufacturing and testing of three-dimensional lattice structures using different polymer materials

		Quasi-static compression tests and finite element analyses of aluminum profiles
		Vibration analysis of metallic or composite panels
13	<b>Dr. Ogr. Uyesi Seyed Yaser NABAVI CHASHMI</b>	Modeling and Simulation of space-manipulatotrs
		Application of Artificial Intelligence for UAV land site detection
		UAV path planning in urban areas
14	<b>Dr. Öğr. Üyesi Mohammad RAHMANIAN</b>	Vibration and statbility of corrugated cylinders conveying fluid
		Modal and stress analysis of cellular structures by FEA
		Modeling, analysis, and design of metamaterial beams for vibration isolation
15	<b>Dr. Öğr. Üyesi Onur SON</b>	Investigation of vortices and forces on wings via CFD
16	<b>Dr. Öğr. Üyesi Salih Özen ÜNVERDİ</b>	Numerical Modelling and Optimisation of Single Sea Surface Wave Energy Converters and their Arrays
		Practical Design and Analysis of Ofshore Wind and Sea Surface Wave Energy Converting Hybrid Marine Platforms
		Design and Electrical and Thermal Analysis of Building-Integrated Photovoltaic-Thermal (PV-T) Systems for Heating and Cooling Applications