2020-2021 EĞİTİM-ÖĞRETİM YILI BAHAR
YARIYILI PROJE KONULARI

Prof. Dr. Beşir ŞAHİN

BŞ-1 Design of radial fan(Fluid Machinery dersini almış bir öğrenci)
BŞ-2 Design of radial water pump (Fluid Machinery dersini almış Bir kişi)
BŞ-3 Design of diffuser augmented wind turbine (Fluid Machinery ve Fluent derslerini almış Bir kişi)
BŞ-4 Numerical analysis of heat exchangers using Fluent Package program (Fluent derslerini dersini almış üç öğrenci)
BŞ-5 Absorption cooling system design using waste heat (Bir öğrenci)
BŞ-8 Numerical analysis of bluff bodies (Car, fans, pumps etc, Fluent derslerini almış iki kişi)

Prof. Dr. Vebil YILDIRIM
VY-1 Bending analysis of sandwich beams
VY-2 Bending analysis of shafts with coats

Prof. Dr. Kadir AYDIN

KA-1) Design and Manufacture of an Automatic Battery Welding Machine.
KA-2) Design and Manufacture of an Automatic Battery Sorting Machine.
KA-3) Design and Manufacture of a 6 Axis Industrial Robot.
KA-4) Design and Manufacture of an Automatic Vapour Smoothing Machine.
KA-5) Design and Analysis of a Li-Ion Battery Pack.
KA-6) Design of a 5D Printer.
KA-7) Design of a Metal 3D Printer.

Prof. Dr. Naki TÜTÜNCÜ

NT-1 Use of Polymers and Polymer Composites in Mechanical Engineering Applications

NT-2 Mechanics and Mechanical Properties of Biomaterials

Prof. Dr. Melih Bayramoğlu
MB-1. Mold Design for Sand Casting

Prof. Dr. Necdet GEREN

NG-1 Automated pneumatic packaging machine Design
NG-2 Automated pneumatic filling machine Design
NG-3 Automated pneumatic pressing and punching machine Design
NG-4 Energy storage spring designs

Prof. Dr. Abdulkadir EKŞİ

AE-1 Pressure Vessel Design and Analysis With SolidWorks software

AE-2 Design Calculation of a Working Die

AE-3 Sheet Metal Die Design

AE-4 Plastic Injection Mold Design for Food Container.

AE-5 Design and analysis of a Working Die.

Prof. Dr. Orhan BÜYÜKALACA

OBA-1 Effect of rotation speed on the performance of solid desiccant wheel.
OBA-2 Effect of face velocity of process air on the performance of solid desiccant wheel.
OBA-3 Effect of face velocity of regeneration air on the performance of solid desiccant wheel.
OBA-4 Effect of temperature of process air on the performance of solid desiccant wheel.
OBA-5 Effect of temperature of regeneration air on the performance of solid desiccant wheel.
OBA-6 Effect of humidity ratio of process air on the performance of solid desiccant wheel.
OBA-7 Effect of humidity ratio of regeneration air on the performance of solid desiccant wheel.

Prof. Dr. Hüseyin AKILLI
HA-1. Water supply systems in buildings
HA-2. Design and optimization of wind turbine
HA-3. Pipe networks design
HA-4. Design of coal stove
HA-5. Wind tunnel design

Prof. Dr. Hakan YAVUZ

PLEASE NOTE:
Each of the below Project is for two students. Please have at least a friend for the PROJECT TEAM to work together, unless you think you can manage yourself alone.

HY1) Drawing bot using Arduino Uno
HY2) 3 axis force measurement
HY3) CoreXY pen plotter
HY4) Asmograf Pen Plotter
HY5) EEZYxy DRAW BOT
HY6) R-Draw BOT
HY7) CNC Engraving BOT
HY8) Miniature 3 Axis CNC Milling
HY9) Mini PCB Drill
HY10) Miniature OpenScan - 3D Scanner

Dr.Öğr.Üyesi Durmuş Ali BİRCAN

DAB-1 Design of a Smart Wheelchair for ALS patients
DAB-2 Welding Simulations of Aluminum Alloy Joints by FEA
DAB-3 Fatigue Analysis using ANSYS Workbench
DAB-4 Design of Al-Jazari's Elephant Water Clock
DAB-5 Green material selection for sustainability
DAB-6 Industry 4.0 and future technologies

Dr.Öğr.Üyesi M. İlteriş SARIGEÇİLİ

MİS-1. Design of a Robot

MİS-2.Kinematic and Dynamic Analysis of Mechanisms

MİS-3.Applications in Automatic Control

Dr.Öğr.Üyesi Göktürk Memduh ÖZKAN

GMÖ-1 CFD analysis of low Reynolds number airfoils for Mars Exploration*
GMÖ-2 Aerodynamic enhancement of a garbage truck using Computational Fluid Dynamics*
GMÖ-3 Research project on the effect of highway source air pollution to human health and ecosystem: Calculation of pollutant load and design for possible reduction methods.

The students must have been succeeded in the CFD course (MES421) for marked projects.