

The Undergraduate Research Projects to be supported by AdımODTÜ in 2022 *

Project No	Project Title	Research Supervisor(s)	Research Team
J5	Online Test Anxiety Scale	Assoc. Prof. Yonca Toker Gültaş, PhD.	Elif Kaşgöz- Hamza Nalbantoğlu- İlayda Gözel -İrem Tuncel -Yağmur Ekin Demirtaş
J8	Improvement of "Microaggressions toward Female Engineering Students Scale"	Assoc. Prof. Yonca Toker Gültaş, PhD.	Ebrar Beyza Sayar - Eda Nur Deniz- Elif Şule Şanlı- Hande Yağcı - İlçim Yıldız
L7	The Effect of Word Exposure Frequency on Vocabulary Acquisition Through Extensive Reading	Assist. Prof. Xiaoli Yu, PhD.	Özlem Berna Özkasap- İrem Sayındı- Ebrar Sude Özarslan
J3	BADAT Financial Anxiety Scale: Investigation of the Effects of Financial Anxiety and Socioeconomic Status on Burnout and Psychological General Well-Being	Assoc. Prof. Yonca Toker Gültaş, PhD.	Canberk Tunakan - Alara Akcan- Yağmur Budak - Aslı Akay
J7	The Relationship Between Health Anxiety, COVID-19 Related Stress, and Routine Medical Examination Behaviors	Prof. Dr. Özlem Bozo-Özen	İrem Güler - Eylül Ulusoy
J9	Active Exploration of Materials with Partially Restricted Hand Movements	Assist. Prof. N.Dicle Dövençioğlu, PhD.	Betül Ayça Çoşar
J10	Moderating Effect of the Health Literacy in the Relationship Between Fear of Covid-19 and Health-Related Behavior	Prof. Özlem Bozo Özen, PhD.	Rozelin Vurgun - Hüseyin Yalçiner
A7	Design, Optimization and Production of CFRP Monocoque Chassis for Urban Concept Vehicle	Prof. Erhan İlhan Konukseven, PhD.	METU Clean Energy Team (Mustafa Emir Şimşek- Altuğ Aktepe- Abay Tekkol-Serkan Can)
A8	Rotary-Wing UAV for Fire Extinguishing Simulation	Reservation	Esin Sinici- Ahmet Mert Erdaş - Elvin Gültekinöğlü - Ayşe Özay Teke

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A10	METU ROVER	Assoc. Prof. Ahmet Buğra Koku, PhD.	METU ROVER Team
C6	Tracking the NFT Revolution: An ML Model to Predict NFT Prices	<i>Reservation</i>	Badshah Kazmi
J4	How Time Orientation and Place Attachment Affect Coping Behaviors in High Earthquake Risk Areas? The Mediating Role of Risk Perception	Prof. Bengi Öner Özkan, PhD. Erkin Sarı (Res.Ass., Co-supervisor)	Leyla Aydın - Şule Girgin
J15	A Study on the Economic Violence in the Lives of Young Women of Turkey	Prof. F.Umut Beşpınar Akgüner, PhD. Dr. Hilal Arslan	Ayşe Zeynep Zülfikar - Elif Öz
L2	Teacher Candidates' Response to Classroom Problems in Moral Senses with respect to Kohlberg's Theory of Moral Development	Assist. Prof. Elif Öztürk, PhD.	Merve Ceren Berk - Oğuz Akdeniz - İsmail Berkand Gök - Nisanur İçli - Nida Cansüngü
J2	Does Basic Psychological Needs (BPN) Mediate the Influence of Post-COVID Symptoms on Health Behaviors?	Prof. Özlem Bozo Özen, PhD.	Asya Hilal Çebi - İrem Nur Erzincan
E2	Soft Electrothermal Actuators with Integrated Silver Nanowire Network Heaters	Prof. Hüsnü Emrah Ünalın, PhD.	Murathan Çuğunlular - Levent Bal
F7	Determination of Rock Quality Designation (RQD) Index on Core Samples Using Digital Mobile Technologies	Assist. Prof. Ahmet Güneş Yardımcı, PhD.	Mahmut Kadir Armutcu - Can Doğan Seda Dilek Karabacak
H3	Effects of Substituents for Color Purity in Imidazole Based Blue OLED (EFFECT-IM-OLED)	Prof. Ali Çırpan, PhD. Assist. Prof. Şevki Can Cevher	Fatma Elif Demirgezer - Özge Akkaya Eda Alemdar – Mert Can Erer

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K10	Assessing Results of Project on Promoting Integration of Syrian Kids Into the Turkish Education System (PIKTES): A Case Study in Ankara	<i>Reservation</i>	Mete Atalay Ercen
J1	Interaction Between Spirituality, Self-Efficacy, and Stress Level of Cancer Patients in Covid-19 Pandemic	Prof. Özlem Bozo Özen, PhD.	Ayşe Yağmur Toy - İrem Kezik
H4	Chemistry as Lifesaver	Assoc. Prof. Ezel Boyacı, PhD.	Ceylin Ökten
B1	Visual Navigation Methods for a Moon Mission	Assist. Prof. Halil Ersin Söken, PhD.	Adil Shaikh
B2	Understanding the Characteristics of 3D Printed Composite-like Laminates Under Notch Effects with a Surrogate Model	Prof. Demirkan Çöker, PhD.	Erdem Dinler
B7	Custom-Engineered MINC (Multiple Interacting Continua) Model for Fractured Two-Phase Flow Problem	Assist. Prof. Mehmet Onur Doğan, PhD.	Alkım Sarıkış - Atahan Altay-Çınar Turhan
C2	COVID-19 Diagnosis with Deep Learning by Using Chest X-Ray Images	Assoc. Prof. Figen Sevinç Öktem, PhD.	Murat Bayraktar - Emirhan Yılmaz Güney - Mehmet Kurt - Ahmet Alp Güneş - Hasan Oğuzhan Gök- Buket Naz Zeren
C7	Heterogeneous Swarm	<i>Reservation</i>	Mert Güngör - Sait Süt - Emirhan Bayar - Alp Eren Yılmaz - Eren Gökberk Halaçlı
G5	Optimization of FRET Pairs for Membrane Proteins	Assoc. Prof. Çağdaş Devrim Son, PhD.	Hazel Şahin - Zeynep Ilgın Kılıç - İrem Aydın

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C1	ESC (Electronic Speed Controller)	Reservation	Tuana Merdol - Bora Sarıkaya
E1	Antibacterial Properties of Selenium Coated Anodized Ti6Al4Nb for Prosthesis	Assoc. Prof. Batur Ercan, PhD.	Birsen Hoşafcı - Yaşar Kemal Erdoğan
K6	Social Enterprises: Alternative Ways to Generate Social Utility in a Capitalist World	Assoc. Prof. Adil ORAN, PhD.	Nil Aydın
F9	Assessment of the Potentials of Using 'Direct Air Capture' Technology in the Mining Industry	Assist. Prof. Mehmet Onur Gölbaşı, PhD.	Artun Doğan - Mohamed Maady
G6	The Possible Role of YPEL2 in the Formation of Stress Granules	Prof. Mesut Muyan, PhD.	Annageldi Ashyralyev
G2	Behavioral Responses of the Anatolian Honeybee (<i>Apis Mellifera Anatoliaca</i>) to the Presence of Their Migratory Avian Predator European Bee-Eater (<i>Merops Apiaster</i>)	İbrahim Kaan Özgencil (Res.Ass.)	Melisa Soyluer - Semanur Yalçın - Zeynep Fesiha Yavuz - Rânâ Akyazı
C4	Analyzing Usability of Screen and Paper on Reading: An Eye Tracking Study	Prof. Kürşat Çağiltay, PhD.	Görkem Muyan
A2	Fener Research Kit	Prof. Klaus Werner Schmidt, PhD.	Şevval Belkıs Dikkaya - Muhammed Sezer - Metehan İçöz
E4	Investigation of the Forming a Boron Coating on Titanium Alloys by Using Pack Cementation for Implant Applications	Assist. Prof. M. Bilge İmer, PhD	İlayda Katıranıcı - Gaye Topcu - Batuhan Gökçe - Ezgi Eyllen
K8	Exploring Brain Drain Tendency among METU Students: The Aspirations and Reasons	Assist. Prof. Asuman Göksel, PhD.	Alper Tanrıverdi

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G3	Cataloguing the Entomofauna of METU Forest, Campus, and Lake Eymir	Prof. Cemal Can Bilgin, PhD.	Deniz Nazif Taştan - Doğa Altıntop - Beyza Kut - Cem Kanmaz - Beliz Şanal - Ece Çınar - Ahmet Kerem Balıkçı - Hammad Mueen Qari Qazi - Arda Burak Karagöz - Fesiha Yavuz
H2	BetaHUNTER	Assoc. Prof. Ezel Boyacı, PhD.	Enes Çetin - Kübra Kahremanoğlu
H6	Forecasting the Effects of Climate Change on Wildfires and Floods in Turkey	Prof. Ceylan Talu Yozgatlıgil, PhD.	Aybüke Altuntaş - Gözde Akkaya - Gülnaz Çavuşoğlu - Gülin Oğuz
J14	Pregnant Women's Attitude Toward COVID-19 Vaccine	Prof. Özlem Bozo Özen, PhD.	Pınar Kapdı - İlayda Etkin Güler
L3	The Place of Art and Drama in Peace Education and in Raising Awareness of (Non)violence among University Students	Assist. Prof. Pervin Oya Taneri, PhD.	Sema Betül Demirezen - Ali Yıldız-Selin Yegin - Sema Tunç - Kaan Gündemir - Zülal Şimşek
A4	Dogfighter UAV	Reservation	Furkan Çitil- Göktuğ Mete Kesici-Fatma Ceyda Gökçe - Gamze Çelik - Fetullah Ceylan - Shaikh M. Adil - Zafer Doğan Budak - Metehan Atıcı-Ahmet Nacar - Alperen Tekin
A9	SubMETU	Reservation	Mehmet Zahid Kalaycı - Talha Mert Karakoç - Semih Can Çakmaktepe - Doğukan Özoğul - Görkem Otlı - Emre Ant - Hüseyin Kaya- Asiye Özcan - Duru Demiröz - Ece Çınar
G7	The Impact of Extracellular Lipids on Brain Tumor Metabolism	Assoc. Prof. Süleyman Coşkun, PhD. İrem Yücel (Res. Ass.)	Menderes Karakaş Selin Aşçı - Buse Nur Deniz
H1	Molecular Modeling of Cyclodextrin-Pesticide-Host-Guest-Inclusion Complex	Assist. Prof. Erol Yıldırım, PhD.	Meltem Nil Sangar

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B3	Research on Cheap Electric Propulsion Systems for Light Aircraft	Reservation	Emin Tolukan
D3	Fabrication of Strained Shaped Mono-Crystalline Germanium and Applications	Assist. Prof. Selçuk Yerci, PhD.	Deniz Cenk Temel - Doğançan Bor
A5	Object Detection with Self-Made Unmanned Aerial Vehicle	Assist. Prof. H. Ersin Söken, PhD.	Kaan Demirkoparan - Mehmet Kurt - Mustafa Berkay Kılıç- Ege Öztürk Gökay Gülerman - Emre Demir Emirhan Yılmaz Güney- Ebrar Çakmak
G4	Determination of the Effect of Dasatinib on SNAP-25 Phosphorylation	Assist. Prof. Erkan Kiriş, PhD.	İrem Aşutkalıoğlu - Sena Ezgin - Pardis Safanezhad - Zeynep Karaer Dilara Koç - Peri Beşarat
K1	The Effects of Genes on People's Economic Decisions	Assoc. Prof. Pınar Derin Güre, PhD.	Sena Sarıtaş - Dilek Yiğiter - Gizem Kazak
E5	Recycling Surgical Masks and N95/FFP2 Respirators into Battery Separators	Assist. Prof. Çiğdem Toparlı, PhD.	Aleena Nadeem Özge Kuldedeoğlu Seerat Hermain Zehra
E7	Production of Bacterial Cellulose-Based Active Film Using Food Waste to Extend the Shelf Life of Ready-To-Eat Meals	Assist. Prof. L. Nesrin Kahyaoğlu, PhD.	Selin Ulukul - Selen Yılmaz - Ayça Tüysüz - Buse Sönmez - Hatice Elif Varol
F4	Enzymatic Pretreatment of Plastics Using Pancreatin and Lipase Enzymes and its Effect on PET in Wastewater Sludge	Prof. F. Dilek Sanin, PhD.	Göksu Yurtseven - İpek Ayça - Ayşe İzgi Onur - İrem Şimşek Kıymet Eda Sakınmaz Elif Nurhan Güzel
A3	Analysis of the Relationship Between UV Rays and Air Quality Using Model Satellite	Prof. Erhan İlhan Konukseven, PhD.	Batuhan Özkan- Muhammed Burak Aydar - Mehmet Alp Demircioğlu - Ahmet Alptuğ Öztürk - Anıl Berk Aykan- Mustafa Yusuf Aksu

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H7	Sustainability of Metaverse (Sustainverse)	Prof. Ceylan Talu Yozgatlıgil, PhD.	Barina Eviren - Denizcan Bozkurt
D6	Autonomization of an Electric Vehicle	Prof. Erhan İlhan Konukseven, PhD.	Alkım Dömeke - Deniz Avcı - Salih Özen - Humeyra Bodur
F6	The Effect of Freezing and Thawing Cycles on Stability of Underground Hard Rock Snow Storage Caverns	Assist. Prof. A.Güneş Yardımcı, PhD.	Furkan Burak Zoboğlu Berkay Salar- Rauf Berk Yılmaz Veysel Furkan Genç
B4	Sailing Based Windmill	<i>Reservation</i>	Can Özaslangöz
J13	Construction of a Paranoia Scale Controlled for Insecurity	<i>Reservation</i>	Nehir Gökoğlu - Betül Kılıç
J18	Anatolia: 19th Century Project	Prof. Ebru Boyar, PhD and Assist. Prof. Selçuk Dursun, PhD	Enes Yasa - Uras Koçum - Mustafa Kadri Yekeler
L6	A Comparison between Linguistic Perceptions of Spanish and German Speakers: Grammatical Gender in Animal Nouns	<i>Reservation</i>	Beyza Seren - Gülsinem Özlem Süslü
K4	How Did Covid-19 Intensify the Current Inequalities for Women? A Case Study from METU Students	<i>Reservation</i>	Bahar Özel - Özüm Meral - Merve Yılmaz
E8	Optimization of Cellulose Nanofiber Production from Agricultural Hemp Residues/Fiber	Assist. Prof. L.Nesrin Kahyaoğlu, PhD.	İrem Nur Yüksel - İrem Saygı

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A1	Voice Assistant	<i>Reservation</i>	Furkan Can - İbrahim Mete Bingöl- Anıl Kılıç - Pınar Talaş- Elvin Gültekinöglü
F3	Sustainable Water Management at METU Campus	Assoc. Prof. Emre Alp, PhD.	Selin Şipal
D2	"SAFE" Post Earthquake Action System	<i>Reservation</i>	Ata Yalçın
F8	A New Method for In-Situ Stress Measurement while Diamond Core Drilling	Assist. Prof. A.Güneş Yardımcı, PhD.	Khaled Zidan - Berkay Ertürk
G8	An Experiment to Measure the One-way Speed of Light Using Propagation Speed of Light in Different Mediums	<i>Reservation</i>	Aybüke Elalmış - Denizcan Kadem - Hüseyin Berkan Ortakan
L1	Academic Engagement Experiences of METU FLE Students during COVID-19 Online Education Process	Assist. Prof. K. Funda Barutçu Yıldırım, PhD.	Büşra Zeynep Arslan - Erva Bulut - Burcu Özcan - Fadime Ural
F5	Investigation of the Effects of Blasting on Mineral Processing - BlastPro	Assoc. Prof. Mustafa Erkayaoğlu, PhD.	Ahmet Furkan Çalikoğlu - Zeliha Selin Güngör - Mustafa Gürcü - Nail Atacan İnci
L4	P4C (Philosophy for Children) Approach for the Schools in Turkey	Assoc. Prof. Pervin Oya Taneri, PhD.	Beyza Makam
D7	A Robust Position Determining System for UAVs Using Camera	<i>Reservation</i>	Tan Çağatay Acar - Berre Şengül - Aleyna Şener - Anıl Kılıç - Elvin Gültekinöglü
K3	The Effect of State-Owned Enterprises (SOE) on China's Growth: Schumpeterian Framework of Socialism	Assist. Prof. Çınla Akdere, PhD.	Mehmet Agah Caylan
J16	Resilience and Vulnerabilities of Generations During COVID	Assist. Prof. Antoine Dolcerocca, PhD.	Berna Gündoğdu

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E6	Design, Construction and Benchmarking of an Affordable and High-Sensitivity Gas Sensor	Assist. Prof. Necip Berker Üner, PhD.	Elif Ünel
F2	Establishing Industrial Symbiosis between Meat Industry and Biogas Industry via Using Bone Meal as Phosphorus Source in Struvite Precipitation	Assist. Prof. Yasemin Dilşad Yilmazel Tokel, PhD.	Mehmet Yağcı
E9	Ethical Frameworks for Decision Making Processes in Water Resources Management: Operational Optimization of the HPPs Considering Transboundary Relations of the Basins	Prof. Elçin Kentel Erdoğan, PhD.	Sena Melis Kaleli
D8	Meturone High Payload Fixed Wing UAV Project	Prof. Erhan İlhan Konukseven, PhD.	Ahmet Emir Sarıboğa - Esin Sinici-Emirhan Artık
A6	Modeling Rocket Orbit Corresponding to Different Types of Fin Shapes	Prof. Erhan İlhan Konukseven, PhD.	Ahmet Berkil Balcı - Berkay Alp Günden - Ahmet Alptuğ Öztürk- Alp Kaan Kottaş- Berkant Alperen - Ahmed Yalçın İpek - Batuhan Özkan- Muhammed Burak Aydar- Emine Nur Yakın
C5	Metaverse (Metaverse Campus of METU)	<i>Reservation</i>	Çağrı Yıldırım - Bilge Özkan

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