

Name	Faculty	Position	Research program title	Research interests	Web page
<b>Mechanical Engineering</b>					
Afshari Ebrahim	Engineering	Associate Professor	Localization and development of renewable energy storage technology	۱- Fuel cell ۲- Electrolyzer ۳- Energy storage	<a href="https://engold.ui.ac.ir/~e.afshari/">https://engold.ui.ac.ir/~e.afshari/</a>
Ahmadikia Hossein	Engineering	Associate professor	Bio heat transfer, Air Pollution Modeling	۱- Solve the fluid flow and energy equations in living tissue numerically and analytically ۲- Modeling air pollution project in micro scale (small areas) and macro scale (city, province and country) with related software	<a href="https://engold.ui.ac.ir/~ahmadikia/">https://engold.ui.ac.ir/~ahmadikia/</a>
Ariaei Alireza	Engineering	Assistant Professor	Identification, Analysis and Control of Vibrational Systems	۱- Dynamics and Control of Structures ۲- Energy Harvesting ۳- Identification and Analysis of Vibrational System	<a href="https://engold.ui.ac.ir/~ariaei/">https://engold.ui.ac.ir/~ariaei/</a>
Baniasadi Ehsan	Engineering	Associate Professor	Localization and development of renewable energy storage technology	۱- Design, fabrication and technology development of thermal and electrochemical energy storage systems ۲- Localization of technical knowledge in solar and geothermal energy harvesting systems ۳- Optimization of energy consumption in buildings and industries	<a href="https://engold.ui.ac.ir/~e.baniasadi/">https://engold.ui.ac.ir/~e.baniasadi/</a>
Beheshti Hamid	Engineering	Associate Professor	Crashworthiness	۱- Development of required laboratory for crash test ۲- Damage Mechanics ۳- Advanced materials, composites, nanocomposites and smart structures	<a href="https://engold.ui.ac.ir/~hamid.beheshti/">https://engold.ui.ac.ir/~hamid.beheshti/</a>
Dastan Alireza	Engineering	Assistant Professor	Numerical simulations of fluid flow, heat transfer and particle dispersion in engineering and biomedical applications	۱- Numerical investigation of human respiratory and urinary systems ۲- Numerical modelling of air pollution dispersion in rural and regional scales ۳- Numerical simulation of industrial ventilation systems, particularly in tunnels	<a href="https://ardastan.ir/">https://ardastan.ir/</a>
Fouladi Nourbakhsh	Engineering	Associate professor	Design and optimization of aircraft and related propulsion systems	۱- Design, fabrication and technology development of thermal and electrochemical energy storage systems ۲- Localization of technical knowledge in solar and geothermal energy harvesting systems ۳- Optimization of energy consumption in buildings and industries	<a href="https://engold.ui.ac.ir/~n.fouladi/index.html">https://engold.ui.ac.ir/~n.fouladi/index.html</a>
Hadian Jazi Shahram	Engineering	Assistant Professor	Control and monitoring of Robotics and mechatronics systems in Human Environment and information processing	۱- Advanced control systems and machine learning. ۲- Design and applying robotic systems in surgery, rehabilitation, navigation and SLAM. ۳- Design and manufacturing systems for logging and processing of daily activities and bio sensors and Design Smart System for fault diagnosis	<a href="https://engold.ui.ac.ir/~s.hadian/+F۱۳.F۲۷">https://engold.ui.ac.ir/~s.hadian/+F۱۳.F۲۷</a>

Haji Aboutalebi Farhad	Engineering	Associate Professor	Investigation and Simulation of Mechanical Behaviour of Materials	<ul style="list-style-type: none"> <li>۱- Damage and Fracture Mechanics</li> <li>۲- Finite Elements Method Modelling</li> <li>۳- Investigation of Bulk and Sheet Metal Forming Processes</li> </ul>	<a href="https://engold.ui.ac.ir/~f.hajiaboutalebi/">https://engold.ui.ac.ir/~f.hajiaboutalebi/</a>
Hasanpour Kourosch	Engineering	Assistant Professor	Predicting fiber reinforced hyperelastic material behavior using their constitutive equations	<ul style="list-style-type: none"> <li>۱- Determination of anisotropic constitutive equation parameters for fiber reinforced hyperelastic materials</li> <li>۲- Using phase field approach to analyze anisotropic materials behavior consisted of two different phases</li> <li>۳- Using fiber reinforced hyperelatic materials for fabrication robotic actuators</li> </ul>	<a href="https://engold.ui.ac.ir/~hasanpour/">https://engold.ui.ac.ir/~hasanpour/</a>
Heidari-Rarani Mohamad	Engineering	Associate Professor	Behaviour and manufacturing of polymer composites	<ul style="list-style-type: none"> <li>۱- Finite element modeling of damage and fracture of polymer matrix composites</li> <li>۲- Technology development of additive manufacturing (۳D printing) of polymers and polymer composites</li> <li>۳- Design, analysis, optimization and fabrication of composite structures</li> </ul>	<a href="https://engold.ui.ac.ir/~m.heidarirarani/">https://engold.ui.ac.ir/~m.heidarirarani/</a>
Karimi Talkhoncheg Fariborz	Engineering	Assistant Professor	Simulation and Optimization of Energy Performance of Equipments	<ul style="list-style-type: none"> <li>۱- Simulation Energy systems</li> <li>۲- Performance of systems and Equipments</li> </ul>	<a href="https://engold.ui.ac.ir/~f.karimi/">https://engold.ui.ac.ir/~f.karimi/</a>
Karimpour Hossien	Engineering	Assistant Professor	Robotics and Autonomous Systems	<ul style="list-style-type: none"> <li>۱- Nonlinear control systems and machine learning.</li> <li>۲- Robotic systems with human interaction, navigation and SLAM.</li> <li>۳- Condition monitoring and smart systems for fault diagnosis</li> </ul>	<a href="https://engold.ui.ac.ir/~h.karimpour/">https://engold.ui.ac.ir/~h.karimpour/</a>
Mahshid Rasoul	Engineering	Assistant Professor	Digital Manufacturing and Modeling	<ul style="list-style-type: none"> <li>۱- Research in field labs and smart factories to develop cyber-physical production systems through digital applications, smart machinery, sensor technology, intelligent robots, and manufacturing concepts</li> <li>۲- Precision machine design</li> <li>۳- Additive manufacturing</li> </ul>	<a href="https://engold.ui.ac.ir/~r.mahshid/">https://engold.ui.ac.ir/~r.mahshid/</a>
Malekzadeh Maryam	Engineering	Associate Professor	Guidance, Navigation and Control of Aerospace Vehicles	<ul style="list-style-type: none"> <li>۱- design and implementation of nonlinear robust controller according to the saturations</li> <li>۲- desing new stand for testing controllers in real environments</li> <li>۳- new search in control, design of spacecraft and robot</li> </ul>	<a href="https://engold.ui.ac.ir/~m.malekzadeh/">https://engold.ui.ac.ir/~m.malekzadeh/</a>
Mortazavi Bak Mahdi	Engineering	Associate Professor	Design, Guidance, Navigation, Test and Control of Dynamic Vehicles	<ul style="list-style-type: none"> <li>۱- Aircraft Guidance, Navigation and Control</li> <li>۲- Multidisciplinary Design Optimization</li> <li>۳- Free Flying Dynamically Similar Model Design and Test</li> </ul>	<a href="http://eng.ui.ac.ir/~ma.mortazavi">http://eng.ui.ac.ir/~ma.mortazavi</a>

Mosharaf-Dehkordi Mehdi	Engineering	Assistant Professor	Development and application of Numerical and analytic methods for modeling of the fluid flow and heat transfer problems	<ul style="list-style-type: none"> <li>۱- Modelling and numerical simulation of fluid flow and heat transfer in living tissues</li> <li>۲- Development and application of numerical methods for simulation of multi-phase fluid flow through free and porous media</li> <li>۳- Application of artificial intelligence methods for prediction of the behavior of the Nano-fluids and multi-phase flow systems</li> </ul>	<a href="https://engold.ui.ac.ir/~m.mosharaf/">https://engold.ui.ac.ir/~m.mosharaf/</a>
Poursina Mehrdad	Engineering	Associate Professor	Power Transmission Systems and Metal Forming	<ul style="list-style-type: none"> <li>۱- Mesh Stiffness Determination of Bevel Gears Using Spherical Involute Curve</li> <li>۲- Output ripple optimization of two-stage cycloidal reducers based on the dynamic model</li> <li>۳- Investigation of Gear Defects</li> </ul>	<a href="https://engold.ui.ac.ir/~poursina/">https://engold.ui.ac.ir/~poursina/</a>
Shahbazi Hamed	Engineering	Assistant Professor	Control and monitoring of Robotics and mechatronics systems in Human Environment and information processing	<ul style="list-style-type: none"> <li>۱- Advanced control systems and machine learning.</li> <li>۲- Design and applying robotic systems in surgery, rehabilitation, navigation and SLAM.</li> <li>۳- Design and manufacturing systems for logging and processing of daily activities and bio sensors and Design Smart System for fault diagnosis</li> </ul>	<a href="https://engold.ui.ac.ir/~shahbazi/">https://engold.ui.ac.ir/~shahbazi/</a>
Torabi Keivan	Engineering	Associate Professor	Control and vibration of mechanical systems	<ul style="list-style-type: none"> <li>۱- Vibrations of mechanical system</li> <li>۲- Vibration control of mechanical systems</li> <li>۳- Dynamic systems control (Robots)</li> </ul>	<a href="https://engold.ui.ac.ir/~k.torabi/">https://engold.ui.ac.ir/~k.torabi/</a>
Ziaei Rad Masoud	Engineering	Associate Professor	High-Computing Numerical Simulation and Experimental Measurement of Turbulent Flow in Various Applications	<ul style="list-style-type: none"> <li>۱- Large Eddy Simulation of Pollution Dispersion in Urban Areas</li> <li>۲- Simulation of Flow and Heat Transfer in Different Applications with Nanofluid as the Working Fluid</li> <li>۳- Applying Computational Fluid Dynamics for Simulation of fluid flow in Renewable Energy Systems</li> </ul>	<a href="https://engold.ui.ac.ir/~m.ziaeirad/">https://engold.ui.ac.ir/~m.ziaeirad/</a>
<b>Industrial Engineering</b>					

Atighehchian Arezoo	Engineering	Assistant Professor	Optimizing the service and manufacturing systems	<ul style="list-style-type: none"> <li>۱- Modeling and optimization of service systems</li> <li>۲- Modeling and optimization of production systems</li> <li>۳- Data science in systems optimization</li> </ul>	<a href="https://aseold.ui.ac.ir/~a.atighehchian">https://aseold.ui.ac.ir/~a.atighehchian</a>
Goli Alireza	Engineering	Assistant professor	Production and service systems optimization	<ul style="list-style-type: none"> <li>۱- Planning and optimization of production systems</li> <li>۲- Planning and optimization of service systems</li> <li>۳- Application of artificial intelligence and data science in decision making</li> </ul>	<a href="https://engold.ui.ac.ir/~goli.a/">https://engold.ui.ac.ir/~goli.a/</a>
Kianfar Kamran	Engineering	Assistant Professor	Optimizing the service and manufacturing systems	<ul style="list-style-type: none"> <li>۱- Planning and optimizing the manufacturing systems</li> <li>۲- Planning and optimizing the service systems</li> <li>۳- Decision making in financial markets</li> </ul>	<a href="https://engold.ui.ac.ir/~k.kianfar">https://engold.ui.ac.ir/~k.kianfar</a>
Taheri Demneh Mohsen	Engineering	Assistant Professor	Futures Studies and Foresight	<ul style="list-style-type: none"> <li>۱- Technology Foresight, the Fourth Industrial Revolution and Digital Transformation</li> <li>۲- Social imagination, social hope and social change</li> <li>۳- Strategic foresight, technological entrepreneurship and innovation</li> </ul>	<a href="https://astold.ui.ac.ir/~m.taheri/">https://astold.ui.ac.ir/~m.taheri/</a>
Zackery Ali	Engineering	Assistant Professor	strategic foresight, futures studies and technology studies	<ul style="list-style-type: none"> <li>۱- Strategic foresight, technology foresight and organizations of future</li> <li>۲- Anticipatory systems, scenario planning and technology studies</li> <li>۳- Futures studies, Images of future and social hope.</li> </ul>	<a href="https://astold.ui.ac.ir/~a.zackery">https://astold.ui.ac.ir/~a.zackery</a>
<b>Chemical Engineering</b>					
Beheshti Masoud	Engineering	Associate Professor	Optimization and modification of processes in order to reduce energy consumption in chemical processes	<ul style="list-style-type: none"> <li>۱- Energy audit of chemical processes</li> <li>۲- Studies in the analysis of diagnosis energy losses in chemical processes</li> <li>۳- Investigation and feasibility study of process optimization in order to reduce energy consumption</li> </ul>	<a href="http://eng.ui.ac.ir/~m.behshti">http://eng.ui.ac.ir/~m.behshti</a>
Farhadian Mehrdad	Engineering	Associate Professor	Development of novel technologies for water and wastewater treatment ,AOP , Environment , Bioremediation	<ul style="list-style-type: none"> <li>۱- Advanced oxidation process in water and wastewater treatment</li> <li>۲- Biological process in water and wastewater treatment</li> <li>۳- Using sensors in identifying of water pollutants</li> </ul>	<a href="https://engold.ui.ac.ir/~m.farhadian/">https://engold.ui.ac.ir/~m.farhadian/</a>

Goshadrou Amir	Engineering	Assistant Professor	Renewable resource recovery and biorefinery	<ul style="list-style-type: none"> <li>۱- Pretreatment, characterization and conversion of biomass into biofuels and value-added product</li> <li>۲- Application of separation techniques for modifying biomass recalcitrance, improving its conversion, removing contaminants and inhibitory compounds, or purifying the products</li> <li>۳- Integration of wastewater recovery and treatment into biorefinery platform for improved process sustainability</li> </ul>	<a href="https://engold.ui.ac.ir/~a.goshadrou/">https://engold.ui.ac.ir/~a.goshadrou/</a>
Hatamipour Mohammad Sadegh	Engineering	Professor	<ul style="list-style-type: none"> <li>۱- Technologies related to sea water desalination</li> <li>Development of CO<sub>2</sub> capture and other air pollutants</li> <li>۳- Energy analysis and optimization</li> </ul>	<ul style="list-style-type: none"> <li>۱- Development of humidification-dehumidification desalination system</li> <li>۲- Development of electrodialysis desalination system in combination with metal-air batteries by use of biocathode and air-cathode</li> <li>۳- Development of chemical and biological methods for CO<sub>2</sub> capture and other air pollutants</li> </ul>	<a href="https://engold.ui.ac.ir/~hatami/">https://engold.ui.ac.ir/~hatami/</a>
Hojjat Mohammad	Engineering	Assistant Professor	Development of novel adsorption systems to reduce carbon dioxide emissions and water extraction	<ul style="list-style-type: none"> <li>۱- Development of novel adsorption systems</li> <li>۲- Reducing carbon dioxide emissions, desalination and water extraction</li> <li>۳- Energy analysis and optimization</li> </ul>	<a href="https://engold.ui.ac.ir/~m.hojjat/">https://engold.ui.ac.ir/~m.hojjat/</a>
Homayoonfal Maryam	Engineering	Assistant Professor	Fabrication and application of composite and nanocomposite membranes for the separation and removal of environmental pollutants	<ul style="list-style-type: none"> <li>۱- Synthesis of nanocomposite membranes with the aim of separating industrial pollutants from contaminated water</li> <li>۲- Application of nanocomposite membranes in photocatalytic and biological reactors</li> <li>۳- Application of composite membranes in the separation of pharmaceutical and petroleum contaminants</li> </ul>	<a href="http://eng.ui.ac.ir/~m.homayoonfal">http://eng.ui.ac.ir/~m.homayoonfal</a>
Khademi Mohammad Hasan	Engineering	Assistant Professor	Modeling, simulation and optimization of chemical reactors	<ul style="list-style-type: none"> <li>۱- Process Intensification</li> <li>۲- Heat Integration and Energy Saving</li> <li>۳- Biomass Gasification</li> </ul>	<a href="https://engold.ui.ac.ir/~m.khademi/">https://engold.ui.ac.ir/~m.khademi/</a>

Moini Jazani Omid	Engineering	Associate Professor	Preparation and assessment of mechanical and thermal properties of high performance epoxy nanocomposite adhesives containing mineral nanoparticles and polymeric toughener (nanocomposites ternary blends)	<p>۱- Preparation and improvement of mechanical and thermal properties of epoxy-based nanocomposite adhesives containing block copolymers, core-shell or waste of polymeric materials and mineral nanoparticles: Relationship between cure kinetics and mechanical properties</p> <p>۲- Preparation and improvement of mechanical and thermal properties of epoxy-based nanocomposite adhesives containing block copolymers, core-shell or wastes of polymeric materials and mineral nanoparticles: Relationship between microstructure and mechanical properties</p> <p>۳- Preparation and improvement of mechanical and thermal properties of epoxy-based nano composite adhesives containing core-shell and block copolymer or waste of polymeric materials and mineral nano particles: Evaluation of toughening mechanism (From the point of view of nanocomposite ternary blend)</p>	<a href="http://eng.ui.ac.ir/~o.moini">http://eng.ui.ac.ir/~o.moini</a>
Molla-Abbasi Payam	Engineering	Assistant Professor	The study and investigation of thermodynamic and morphology of polymer blend nanocomposites	<p>۱- Polymeric food packaging coatings</p> <p>۲- Gas detectors based on smart polymer nanocomposites</p> <p>۳- Polymeric adhesives and sealant</p>	<a href="https://engold.ui.ac.ir/~p.abbasi/">https://engold.ui.ac.ir/~p.abbasi/</a>
Navarchian Amirhossein	Engineering	Professor	Synthesis and Characterization of Polymer Compounds and Nanocomposites with Medical and Environmental Applications	<p>۱- Smart Polymeric Wound Dressing</p> <p>۲- Polymer-based Gas Sensors</p> <p>۳- Self-Healing Composites for Dentistry</p>	<a href="https://engold.ui.ac.ir/~navarchian/">https://engold.ui.ac.ir/~navarchian/</a>
Rahimi Amir	Engineering	Professor	Cutting Edge studies and technology development for AOP applications in removal of Gaseous Pollutants and Wastewater treatment	<p>۱. Technology development for SO<sub>x</sub> and NO<sub>x</sub> removal by AOP in liquid phase</p> <p>۲- Technology development for SO<sub>x</sub> and NO<sub>x</sub> removal by AOP in liquid phase</p> <p>۳- Technology development for wastewater treatment by AOP</p>	<a href="https://engold.ui.ac.ir/~rahimi/">https://engold.ui.ac.ir/~rahimi/</a>
Sari Ataallah	Engineering	Assistant Professor	Experimental and theoretical study of conversion processes of hydrogen and carbon carriers towards added-value chemicals: catalysis- kinetics- and reactor Investigations, Data driven models	<p>۱- Hydrogen and Syngas Production</p> <p>۲- Light Olefin Production</p> <p>۳- Liquid Fuel Production</p>	<a href="http://eng.ui.ac.ir/~a.sari">http://eng.ui.ac.ir/~a.sari</a>

Solaimany Nazar Ali Reza	Engineering	Associate Professor	Development and application of nanomaterials in chemical industries	<ul style="list-style-type: none"> <li>۱- Application of nano photocatalysts for advanced oxidation process in water and wastewater treatment</li> <li>۲- Microfluidic devices application for synthesis of novel drug delivery nanocarriers</li> <li>۳- Application of nanofluidics for convection heat transfer enhancement</li> </ul>	<a href="https://engold.ui.ac.ir/~asolaimany/">https://engold.ui.ac.ir/~asolaimany/</a>
<b>Electrical Engineering</b>					
Ataei Mohammad	Engineering	Professor	Estimation, Stability and Control of System-Theory and Applications	<ul style="list-style-type: none"> <li>۱- Nonlinear Controllers and Observers</li> <li>۲- Stability and Control of Power Converters and Microgrids</li> <li>۳- Hybrid and Network Dynamical Systems</li> </ul>	<a href="https://engold.ui.ac.ir/~ataei">https://engold.ui.ac.ir/~ataei</a>
Edrisi Mehdi	Engineering	Assistant Professor	Estimation, Stability and Control of Systems: Theory and Applications	<ul style="list-style-type: none"> <li>۱- Robotics and Mechatronics</li> <li>۲- Stability and control of power convertres and MicroGrids</li> <li>۳- Networked and nonlinear controllers and observers</li> </ul>	<a href="https://engold.ui.ac.ir/~edrisi">https://engold.ui.ac.ir/~edrisi</a>
Ekramian Mohsen	Engineering	Assistant Professor	Estimation, Stability and Control of Systems: Theory and Applications	<ul style="list-style-type: none"> <li>۱- Nonlinear Controller and Observers -</li> <li>۲- Hybrid and Networked Dynamical Systems -</li> <li>۳- Stability and Control of Power Converters and Microgrids</li> </ul>	<a href="https://engold.ui.ac.ir/~m.ekramian/">https://engold.ui.ac.ir/~m.ekramian/</a>
Forouzan Amir Reza	Engineering	Associate Professor	Interference Cancellation Schemes in multiple-access and multiuser communication systems	<ul style="list-style-type: none"> <li>۱- Interference cancellation in optical communications</li> <li>۲- Multi-user interference cancellation in DSL systems</li> <li>۳- Interference cancellation in cellular wireless communications</li> </ul>	<a href="https://engold.ui.ac.ir/~a.forouzan">https://engold.ui.ac.ir/~a.forouzan</a>
Gholipour Mehdi	Engineering	Associate Professor	stability, Control and operation of microgrids	<ul style="list-style-type: none"> <li>۱- Control and stability of microgrids</li> <li>۲- Power system transients</li> <li>۳- Application of FACTS devices in stability and control of power systems</li> </ul>	<a href="https://engold.ui.ac.ir/~e.gholipour">https://engold.ui.ac.ir/~e.gholipour</a>
Habibi Mehdi	Engineering	Associate Professor	Low power electronic circuits, Smart sensors and analog/digital processing circuits design	<ul style="list-style-type: none"> <li>۱- Design and implementation of interface and readout circuits for sensors and transducers.</li> <li>۲- Design and implemenation of low power energy harvesting circuits for self powered sensor nodes.</li> <li>۳- Design and implementation of low power signal processing circuits for smart sensor nodes.</li> </ul>	<a href="https://engold.ui.ac.ir/~mhabibi">https://engold.ui.ac.ir/~mhabibi</a>

Hooshmand Rahmat Allah	Engineering	Professor	stability, control and operation of microgrids	<ul style="list-style-type: none"> <li>۱- Defense of Cyber-security attacks in smart grids</li> <li>۲- Energy management and planning in micro grids</li> <li>۳- Market operation of micro grids</li> </ul>	<a href="https://engold.ui.ac.ir/~hooshmand_r">https://engold.ui.ac.ir/~hooshmand_r</a>
Kabiri Yahya	Engineering	Assistant Professor	stability, control, and operation of microgrids	<ul style="list-style-type: none"> <li>۱- The smart microgrid planning and operation</li> <li>۲- Electric vehicle (EV) management in microgrids</li> <li>۳- Sustainable microgrids</li> </ul>	<a href="https://engold.ui.ac.ir/~y.kabiri">https://engold.ui.ac.ir/~y.kabiri</a>
Karimi Hamid Reza	Engineering	Assistant Professor	Wave-Matter Interaction	<ul style="list-style-type: none"> <li>۱- Analysis, Design and Manufacturing of Optoelectronic Sensors</li> <li>۲- Optical Scattering from Nanoparticles</li> <li>۳- Wave Propagation in Periodic Structure</li> </ul>	<a href="https://engold.ui.ac.ir/~h.karimi">https://engold.ui.ac.ir/~h.karimi</a>
Kazemi Mohammad	Engineering	Assistant Professor	Image and Video Processing and Hardware Implementation	<ul style="list-style-type: none"> <li>۱- Machine Vision with emphasis on robotic applications</li> <li>۲- Hardware implementation of digital systems using FPGA and ZYNQ</li> <li>۳- Video Compression and Transmission over lossy channels</li> </ul>	<a href="https://engold.ui.ac.ir/~m.kazemi">https://engold.ui.ac.ir/~m.kazemi</a>
Khodabakhshian Amin	Engineering	Professor	Control and stability of power systems at the presence of renewable resources (microgrids)	<ul style="list-style-type: none"> <li>۱- Stability of power systems at the presence of renewable resources</li> <li>۲- Frequency and voltage control of power systems at the presence of renewable resources</li> <li>۳- Restoration and controlled islanding of power systems at the presence of renewable resources</li> </ul>	<a href="https://engold.ui.ac.ir/~aminkh">https://engold.ui.ac.ir/~aminkh</a>
Kiyomarsi Arash	Engineering	Associate Professor	Design, analysis, control and manufacturing of high efficient and robust electrical machines	<ul style="list-style-type: none"> <li>۱- Design, analysis, modeling and manufacturing of electrical machines</li> <li>۲- Control of high efficient electrical machines</li> <li>۳- Wind turbine analysis</li> </ul>	<a href="https://engold.ui.ac.ir/~kiyoumars">https://engold.ui.ac.ir/~kiyoumars</a>
Koofigar Hamid Reza	Engineering	Associate Professor	Estimation, Stability and Control of Systems: Theory and Applications	<ul style="list-style-type: none"> <li>۱- Hybrid and Networked Dynamical Systems</li> <li>۲- Power Converters and Microgrids</li> <li>۳- Nonlinear Controllers and Observers</li> </ul>	<a href="https://engold.ui.ac.ir/~koofigar">https://engold.ui.ac.ir/~koofigar</a>
Madani Seyed Mohammad	Engineering	Associate Professor	Control and Protection of microgrids and electric machines	<ul style="list-style-type: none"> <li>۱- Design and Control of (Hybrid-) Electric Vehicle,</li> <li>۲- Protection and Control of microgrids,</li> <li>۳- Electric Machines and Power Electronics</li> </ul>	<a href="https://engold.ui.ac.ir/~m.madani">https://engold.ui.ac.ir/~m.madani</a>
Mirzaeian Dehkordi Behzad	Engineering	Professor	Design, Manufacture, and Control of High-Efficiency and Robust Electric Machines	<ul style="list-style-type: none"> <li>۱- Control of Electric Machines (Drives)</li> <li>۲- Power Electronics and its Application in Photovoltaic Systems</li> <li>۳- Electric Vehicles</li> </ul>	<a href="https://engold.ui.ac.ir/~mirzaeian">https://engold.ui.ac.ir/~mirzaeian</a>
Mivehchy Mohsen	Engineering	Associate Professor	Radar systems, Design and Improvement	<ul style="list-style-type: none"> <li>۱- Design and improvement of Radar systems</li> <li>۲- Design and implementation of the special components</li> <li>۳- Analysis of the phase noise effects in Radar systems</li> </ul>	<a href="https://engold.ui.ac.ir/~mivehchy">https://engold.ui.ac.ir/~mivehchy</a>



Moallem Payman	Engineering	Professor	Image and Video Processing, and Hardware Implementation	<ul style="list-style-type: none"> <li>۱- Detection, Restoration and Tracking</li> <li>۲- Image Processing using Computational Intelligence Methods</li> <li>۳- Machine Vision in Industrial Applications</li> </ul>	<a href="https://engold.ui.ac.ir/~p_moallem">https://engold.ui.ac.ir/~p_moallem</a>
Motaharifar Mohammad	Engineering	Assistant Professor	Estimation, Stability and Control of Systems: Theory and Applications	<ul style="list-style-type: none"> <li>۱- Nonlinear Controllers and Observers</li> <li>۲- Robotics and Mechatronics</li> <li>۳- Artificial Intelligence and Machine Learning</li> </ul>	<a href="https://engold.ui.ac.ir/~m.motaharifar">https://engold.ui.ac.ir/~m.motaharifar</a>
Niroomand Mehdi	Engineering	Associate Professor	Microgrid Operation, Control and Stability	<ul style="list-style-type: none"> <li>۱- Design of Converters in Photovoltaic application with ancillary services</li> <li>۲- Design of converters for electric vehicles</li> </ul>	<a href="https://engold.ui.ac.ir/~mehdi_niroomand">https://engold.ui.ac.ir/~mehdi_niroomand</a>
Parvaresh Farzad	Engineering	Associate Professor	Applications of Information Theory and Coding	<ul style="list-style-type: none"> <li>۱- Machine learning and distributed computing</li> <li>۲- Storing and Information Retrieval</li> <li>۳- Networks</li> </ul>	<a href="https://engold.ui.ac.ir/~f.parvaresh">https://engold.ui.ac.ir/~f.parvaresh</a>
Sabahi Mohamad Farzan	Engineering	Associate Professor	Intelligent signal & data processing, array processing and electronic warfare	<ul style="list-style-type: none"> <li>۱- Physical layer of cellular networks and communication links</li> <li>۲- Intelligent processing in communication systems, radars and electronic warfare</li> <li>۳- Biomedical signal processing</li> </ul>	<a href="https://engold.ui.ac.ir/~sabahi">https://engold.ui.ac.ir/~sabahi</a>
Saberli Sayed Mohammad	Engineering	Assistant Professor	Communication system design in the presence of Interference	<ul style="list-style-type: none"> <li>۱- Detection and estimation in interference channels</li> <li>۲- Resource allocation in amplitude division multiple access</li> <li>۳- Nonlinear signal processing in multiple access systems</li> </ul>	<a href="https://engold.ui.ac.ir/~sm.saberli">https://engold.ui.ac.ir/~sm.saberli</a>
Sayyaf Negin	Engineering	Assistant Professor	Estimation, Stability and Control of Systems: Theory and Application	<ul style="list-style-type: none"> <li>۱- Fractional Order Systems and Controllers</li> <li>۲- Artificial Intelligence and Machine Learning</li> <li>۳- Nonlinear Controllers and Observers</li> </ul>	<a href="https://engold.ui.ac.ir/~n.sayyaf">https://engold.ui.ac.ir/~n.sayyaf</a>
Shahtalebi Kamal	Engineering	Associate Professor	Data-based analysis in estimation and detection theory	<ul style="list-style-type: none"> <li>۱- Data based model establishment for most applicable estimation and detection cases</li> <li>۲- Role of the NP-hard problems in communication engineering and providing efficient solution methods</li> <li>۳- Generalizing the data based model to alternative fields of research (In particular cryptography and computer networks)</li> </ul>	<a href="https://engold.ui.ac.ir/~shahtalebi">https://engold.ui.ac.ir/~shahtalebi</a>

Zamani Hasan	Engineering	Assistant Professor	Wave-Matter Interaction	<ul style="list-style-type: none"> <li>۱- Analysis, Design, and Manufacturing of Optoelectronic Sensors</li> <li>۲- Optical Scattering from Nanoparticles</li> <li>۳- Wave Propagation in Periodic Structures</li> </ul>	<a href="https://engold.ui.ac.ir/~h.zamani">https://engold.ui.ac.ir/~h.zamani</a>
<b>Biomedical Engineering</b>					
Ebrahimian Mehdi	Engineering	Assistant Professor	Application of biomaterials for diagnosis, treatment, and improvement of the function of tissues and organs	<ul style="list-style-type: none"> <li>۱- Tissue engineering and regenerative medicine</li> <li>۲- Composite biomaterials</li> <li>۳- Design and development of biomedical devices</li> </ul>	<a href="https://engold.ui.ac.ir/~m.ebrahimian">https://engold.ui.ac.ir/~m.ebrahimian</a>
Jamshidi Nima	Engineering	Assistant Professor	Clinical medical engineering of orthopedic implants and prostheses for production and clinical evaluation in humans and animals based on neuromuscular modeling	<ul style="list-style-type: none"> <li>۱- Prostheses and orthoses</li> <li>۲- Neuromusculoskeletal BioMedicine</li> <li>۳- Implants and clinical biomechanics</li> </ul>	<a href="https://engold.ui.ac.ir/~n.jamshidi">https://engold.ui.ac.ir/~n.jamshidi</a>
karimian Alireza	Engineering	Associate Professor	Medical Imaging and Radiotherapy	<ul style="list-style-type: none"> <li>۱- Image processing using artificial intelligence</li> <li>۲- Design and optimization of medical imaging systems</li> <li>۳- Design and optimization of radiotherapy systems</li> </ul>	<a href="https://engold.ui.ac.ir/~karimian/">https://engold.ui.ac.ir/~karimian/</a>
Marateb Hamidreza	Engineering	Associate Professor	cognitive informatics in biomedicine & Healthcare	<ul style="list-style-type: none"> <li>۱- Medical Data Mining</li> <li>۲- Biomedical Signal Processing</li> </ul>	<a href="https://engold.ui.ac.ir/~h.marateb">https://engold.ui.ac.ir/~h.marateb</a>
Mehdikhani Mehdi	Engineering	Assistant Professor	Tissue Engineering and Drug Delivery Applications in It and Pharmacotherapy	<ul style="list-style-type: none"> <li>۱- Tissue engineering-Drug Delivery Systems</li> <li>۲- Pharmacotherapy-Biocompatibility Evaluation of Biomaterials</li> </ul>	<a href="https://engold.ui.ac.ir/~m.mehdikhani">https://engold.ui.ac.ir/~m.mehdikhani</a>
Rabbani Mohsen	Engineering	Assistant Professor	design, simulation and fabrication of biological and bio-inspired micro-structures for detection, repair and healing	<ul style="list-style-type: none"> <li>۱- biosensors</li> <li>۲- MEMS (micro-electro-mechanical systems)</li> <li>۳- Tissue Engineering</li> </ul>	<a href="https://engold.ui.ac.ir/~m.rabbani">https://engold.ui.ac.ir/~m.rabbani</a>

Rasti Javad	Engineering	Assistant Professor	Diagnosis and treatment of physical and cognitive disorders using intelligent equipment and entertaining technologies via biomedical signals and medical image processing	<ul style="list-style-type: none"> <li>۱-Redesign of the traditional therapeutic and educational methods with the help of entertaining technologies</li> <li>۲-Using Virtual/Augmented/Mixed Reality towards physical and cognitive rehabilitation</li> <li>۳-Design of automated medical diagnostic and recognition systems with the help of image processing and machine vision techniques</li> </ul>	<a href="http://jrasti.ir/english.htm/">http://jrasti.ir/english.htm/</a>
Saraf Mohsen	Engineering	Assistant Professor	Design, optimization and fabrication of devices and implantable biomaterials and their biocompatibility	<ul style="list-style-type: none"> <li>۱-Design and optimization of drug delivery systems in the treatment of diseases and modulation or stimulation of the immune system</li> <li>۲- Designing and Fabrication of various types of biosensors and bio-complementary chips in identifying and characterizing biomolecules and biological materials</li> <li>۳- Design and manufacture of artificial organs and medical devices based on advanced biological materials engineering</li> </ul>	<a href="http://eng.ui.ac.ir/~m.saraf">http://eng.ui.ac.ir/~m.saraf</a>
Yazdchi Mohamad Reza	Engineering	Associate Professor	Biomedical signal and medical image processing to achieve automated diagnostic and recognition systems usable in advanced therapeutic and diagnostic devices	<ul style="list-style-type: none"> <li>۱-Electrocardiogram signal processing acquired with external and implantable devices for implementation on wearable, non-portable and implantable devices to achieve automatic patient monitoring devices,</li> <li>۲-EEG signal processing in detection of neurocognitive, neurological, neurodevelopmental disorders and neurodegenerative diseases</li> <li>۳-Medical image processing to achieve automated diagnostic and recognition systems</li> </ul>	<a href="https://engold.ui.ac.ir/~yazdchi/">https://engold.ui.ac.ir/~yazdchi/</a>