



# YAŞAR UNIVERSITY GRADUATE SCHOOL

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Graduate Programs Thesis Subjects and Advisor Information for the Prospective Students to be admitted in the Fall Semester of 2021-2022

Name-surname, title	Number of Current Advisorship in MSc Degree (with thesis)	Number of Current Advisorship in MSc Degree (without thesis)	Number of Current Advisorship in PhD Degree	Number of Completed MSc Theses	Number of Completed PhD Theses	Total SCI-Exp, SSCI, A&HCI, ESCI, Scopus, ULAKBİM Publications	SCI-Exp, SSCI, A&HCI, ESCI, Scopus, ULAKBİM Publications In the last 5 years	Total Number of Graduate Courses
Cüneyt GÜZELİŞ, Prof. (PhD)	2	0	1	20	14	50	13	26
	Research Fields	Nonlinear circuits and systems, machine learning, system biology, biomedical signal processing, control, engineering education systems						
	MSc/PhD Degree Subject Proposal 1	Machine learning for artificial nose.						
	MSc/PhD Degree Subject Proposal 2	Biometric systems based on machine learning.						
	MSc/PhD Degree Subject Proposal 3	Analysis of oscillatory dynamics of gene regulatory networks						
	Background Preferences related with the Candidates -if any-	Experience on MATLAB and/or Python.						
	Ongoing Projects Supervised or Ongoing projects involved in as a researcher And scholar opportunities	1) TÜBİTAK-1001 (118E277) Development of the Machine Learning Based Joint Forecasting-Scheduling Method for Massive Access (Coordinator: Assoc. Prof. Dr. Volkan Rodoplu.) (Scholarship is available.) 2) TÜBİTAK-1003 (117E589) Development of a new deep learning environment for humanoid robots (Coordinator: Assoc. Prof. Dr. Ayşegül Uçar.) 3) TÜBİTAK-2244 (119C171) Industry PhD Program, Projects on Artificial Nose, EEG Based Biometric Identification (Coordinator: Prof. Dr. Cüneyt Güzeliş) (3 scholarship positions are available for PhD candidates. International students are eligible.)						

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Mustafa Gündüzalp, Prof. (PhD)	2	-	-	21	4	12	1	6
	Research Fields	Digital systems, embedded microprocessor systems, consumer electronic devices						
	MSc/PhD Degree Subject Proposal 1	Design, Simulation and Realization of Laser Source						
	MSc/PhD Degree Subject Proposal 2	Design, Simulation and Realization of Optical Amplifier.						
	MSc/PhD Degree Subject Proposal 3	IoT systems for Automotive Applications						
	MSc/PhD Degree Subject Proposal 4	Energy Efficiency Optimization in Self Organizing IoT Networks						
MSc/PhD Degree Subject Proposal 5	Battery Management System for Electrical Vehicles.							

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Mustafa SEÇMEN, Prof. (PhD)	3	-	4 (+1 co-advisor)	10	-	21	10	8
	Research Fields	Electromagnetic, antennas, microwave, radar systems						
	MSc/PhD Degree Subject Proposal 1	The Design and Realization of Ultra-Wideband Compact Log-Periodic Antennas for Wireless Communication Applications						
	MSc/PhD Degree Subject Proposal 2	Dual band waveguide mode converter and power divider/combiner for TTC satellite communication applications						
	MSc/PhD Degree Subject Proposal 3	The Design of RFID Antennas and MUX for Integrated RFID Systems at Production Lines						
	Background Preferences related with the Candidates -if any-	Experience on Electromagnetics, Microwaves and/or Antennas						

Ongoing Projects Supervised or Ongoing projects involved in as a researcher And scholar opportunities	TÜBİTAK-1001 (119E265) A Bandwidth Enhanced Circularly Polarized and Omnidirectional Circular Waveguide Antenna For Satellite Telemetry/Telecommand Systems (Director: Prof. Dr. Mustafa Seçmen) (1 scholarship positions are available for graduate students.)
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	Number of Current Advisorship in MA/MSc Degree (with thesis)	Number of Current Advisorship in MA/MSc Degree (without thesis)	Number of Current Advisorship in PhD / Proficiency in Art Degree	Number of Completed MA/MSc Theses	Number of Completed PhD / Proficiency in Art Theses	Total SCI-Exp, SSCI, A&HCI, ESCI, Scopus, ULAKBİM Publications	SCI-Exp, SSCI, A&HCI, ESCI, Scopus, ULAKBİM Publications In the last 5 years	Total Number of Graduate Courses
Burhan Gülbahar, Assoc. Prof. Dr.	-	-	1	4	-	18	14	6
	Research Fields	Quantum computing, quantum information theory, nanoscale computing and communications						
	MA/MSc/PhD/ Proficiency in Art Degree Subject Proposal 1	Complexity theoretical fundamentals of quantum computing with optical multi-plane diffraction						
	MA/MSc/PhD/ Proficiency in Art Degree Subject Proposal 2	Simulation of quantum optical computing with classical and quantum computing machines of remote access						
	MA/MSc/PhD/ Proficiency in Art Degree Subject Proposal 3	Quantum neural networks and applications with multi-plane diffraction						
	Background Preferences related with the Candidates -if any-	Physics, CS or EE students						
	Ongoing Projects Supervised or Ongoing projects involved in as a researcher And scholar opportunities	<p>2 full time PhD Scholarships (3500 TL/month) of 27 Months for each student between 2021-2023 for the Tübitak 1001 Project with the title "Theoretical Fundamentals of Quantum Path Computing, Universal Quantum Computer Models, Proof-of-Concept Simulations and Experiments with Numerical Problem Solving Applications"</p> <p>PI of the Project: Burhan Gulbahar Duration: 2021-2023</p>						

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Volkan RODOPLU, Assoc. Prof. (PhD)	5	-	-	4	8	12	3	3
	Research Fields	Wireless communications and networking, internet of things, protocol design and optimization						
	MSc/PhD Degree Subject Proposal 1	Indoor Positioning						
	MSc/PhD Degree Subject Proposal 2	Li-Fi / Visible Light Communication						
	MSc/PhD Degree Subject Proposal 3	AI and IoT						
	Background Preferences related with the Candidates -if any-	Python/programming; machine learning						
Ongoing Projects Supervised or Ongoing projects involved in as a researcher And scholar opportunities	<p>Coordinator, "Quality of Service for the Internet of Things in Smart Cities via Predictive Networks", Marie Curie Individual Fellowship, 2019 - 2021, funded by the European Commission</p> <p>Coordinator, "Development of the Machine Learning Based Joint Forecasting-Scheduling Method for Massive Access in the Internet of Things", 2018 - 2021, funded by TUBITAK</p> <p>Scholar opportunities: Open positions at the M.S., Ph.D. and post-doc levels.</p>							

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Emrah BIYIK, Assist. Prof. (PhD)	2	-	2	5	-	16	11	3
	Research Fields	Automatic control, optimization, energy systems, electric power grid, energy efficiency in buildings						
	MSc/PhD Degree Subject Proposal 1	Control and optimization of cyber-physical networks for smart energy distribution systems						
	MSc/PhD Degree Subject Proposal 2	Optimal control designs for flexible building loads under demand response programs						
MSc/PhD Degree Subject Proposal 3	Energy management in autonomous multi agent networks							

Ongoing Projects Supervised or Ongoing projects involved in as a researcher And scholar opportunities	In March 2020, a project on “Wind Turbine Maintenance and Service” will be started (funded by Austrian Development Agency). Also, I have been working as a consultant on two industrial projects. Currently, there are no other funded projects with scholarship opportunities.
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Hacer ŞEKERCI ÖZTURA, Assist. Prof. (PhD)	-	-	2	12	1	2	-	3
Research Fields	Power system analysis, power quality, and energy management							
MSc/PhD Degree Subject Proposal 1	Energy management for smart grid with intelligent storage systems.							
MSc/PhD Degree Subject Proposal 2	Intelligent energy management in off-grid smart building with energy interaction.							
MSc/PhD Degree Subject Proposal 3	Demand side management for smart micro-grid.							
Background Preferences related with the Candidates -if any-	Optimal energy management in smart micro-grid by electrical energy storage.							

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Mahir KUTAY, Assist. Prof. (PhD)	7	2	-	1	-	4	1	2
Research Fields	Industrial automation, industrial communication networks, M2M communications, robotics, process control, mechatronic systems							
MSc/PhD Degree Subject Proposal 1	Smart residential energy management system for smart grids							
MSc/PhD Degree Subject Proposal 2	Map-Based Localization Method for Autonomous Vehicles Using 2D-LIDAR							

	MSc/PhD Degree Subject Proposal 3	Fault analysis and hybrid protection scheme for VSC multi-terminal HVDC using Wavelet transform
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Nalan ÖZKURT, Assist. Prof. (PhD)	4	-	3 (+2 co-advisor)	15	1	24	7	-
	Research Fields	Biomedical signal and image processing, embedded systems						
	PhD Subject Proposal	EEG Biometric Identification with Machine Learning Methods						
	MSc Subject Proposal	Moving Object Detection with Deep Learning						
	Ongoing Projects Supervised or Ongoing projects involved in as a researcher And scholar opportunities	<i>TUBITAK 2244 Üniversite-Sanayi Doktora Programı</i>						