

CV

Name-Surname : Sema Nur IPEK
Date of birth : 24.05.1993
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Title : Instructor
Institution : Istanbul Aydin University

Degree	Department/Program	University	Year
BEng	Electrical and electronics Engineering	Karadeniz Technical University	2015
BSc (Second University)	Labor Economics and Industrial Relations	Anadolu University	2020
MEng	Electrical and electronics Engineering	Dokuz Eylul University	2019
PhD	Electrical Engineering / Electrical Machines and Power Electronics	Yildiz Technical University	Continues.

Publications

Articles published in international peer-reviewed journals

Ipek, S.N., Taskiran, M., Bekiroglu, N. et al. Optimal induction machine parameter estimation method with artificial neural networks. *Electr Eng* (2023). <https://doi.org/10.1007/s00202-023-02049-1>

Ipek, S. N., & Akpınar, E. (2023). Analysis of resonance frequency at six-step induction motor drive with long cable connection in a geothermal plant. *International Journal of Power and Energy Conversion*, 14(1), 24-44. <https://doi.org/10.1504/IJPEC.2023.133598>

Proceedings presented in international scientific meetings and published in the proceedings book

Ipek, S.N., Taskiran, M., Bekiroglu, N., & Aycicek, E. (2023) "Low Error Rate Induction Machine Parameter Estimation with Recurrent Neural Network," *2023 2nd International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI)*, Zarqa, Jordan, pp. 1-6. <https://doi.org/10.1109/EICEEAI60672.2023.10590425>

Ipek, S. ve Akpınar, E. (2019). "Jeotermal ve Denizaltı Petrol Kuyularında Kullanılan Üç Faz Asenkron Motor ve 120 Derece Sürücü İçeren Sistemler için Rezonans Frekansı Tespiti." *International Turkic World Congress on Science and Engineering Book of Proceedings*. 906-920.

Proceedings presented in national scientific meetings and published in the proceedings book

Ipek, S. N., Bekiroglu, N. & Taskiran, M. (2024). "Identification Of Equivalent Circuit Parameters Of Permanent Magnet Synchronous Machine With Cascade-Forward Neural Network." *GradColloquium'24 - Artificial intelligence*, Istanbul.

Projects

- TÜBİTAK TEYDEB 1501- 3192226 Antijam uygulamaları için adaptif patern kontrollü gps anten sistemlerini tasarımı ve geliştirilmesi
- TÜBİTAK TEYDEB 1501- 3200748 Hava ve yer veri terminal antenleri tasarlanması ve geliştirilmesi

Memberships to Scientific and Professional Organizations

TMMOB Chamber of Electrical Engineers

Undergraduate and graduate level courses taught in the last two years

Academic year	Term	Dersin Adı	Weekly Time		Number of Students
			Theoretical	Practice	
2023-2024	Fall	Direct Current Circuits (ADD101)	3	0	198
		Sensors and Transducers (ELK247)	3	0	88
		Power Electronics-I (ELK235)	3	0	96
	Spring	Scada Systems (ELK234)	3	0	86
		Power Electronics-II (ELK232)	3	0	89
		Industrial Applications (ELK242)	2	0	81
2022-2023	Fall	Power Electronics-I (ELK235)	3	0	73
		Basic Electricity (UCT143)	2	0	89
		General Mathematics (AMT103)	3	0	230
	Spring	Power Electronics-II (ELK232)	3	0	88
		Scada Systems (ELK234)	3	0	79
		Mathematics (AMT109)	2	0	237

Other Business Experiences

R&D Project Responsible. NETA Elektronik A.Ş. Jan 2020 - Aug 2021. İstanbul.

QA/QC E&I Engineer. GEMSAN A.Ş. Apr 2017 - Dec 2018. İzmir.

Certificates

Project Management and PMP Training Achievement Certificate (2021) IYTE SEM

Metrology and Calibration Education Participation Certificate (2018) MMO

Operation Responsibility in Electricity HV Facilities Authorization Certificate (2015) EMO

Electricity Under 1 kV and Above 1 kV Grounding Authorization Certificate (2015) EMO

Electricity Internal Facilities Inspection and Reporting Authorization Certificate (2015) EMO

Elevator Inspection License and Control Authorization Certificate (2015) EMO

Elevator Preliminary Project Preparation Authorization Certificate (2015) EMO

Elevator Authorized Service Technical Officer Authorization Certificate (2015) EMO

Electrical Interior Facilities Project Preparation Training Participation Certificate (2015) EMO

Reactive Power Compensation and Harmonics Training Participation Certificate (2015) EMO