

AAT¹ Science and Technology University, Faculty of Engineering
Department of Electrical and Electronic Engineering

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Saricam, Adana, 01250, Türkiye

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Research Interests

Electric Load Forecasting, Energy Analytics & Informatics, Renewable Energy, Distributed Generation, Electrical Energy & Power Systems, and Machine Learning.

Positions

AAT Science and Technology University

Department of Electrical and Electronic Engineering

- *Deputy Head of Department* 2024–Present
- *Assistant Professor* 2021–Present
- *Lecturer* 2019–2021
- *FDP² Research Assistant* 2013–2019

Cukurova University

Department of Electrical and Electronic Engineering

- *Adjunct Assistant Professor* 2023–Present
- *FDP Research Assistant (Secondment)* 2013–2017

Rolls-Royce Solutions Energy, Marine, and Defence Inc.

- *Service and Commissioning Engineer* 2012–2013

Sanko Textile Trading Co.

- *Electrical Maintenance Engineer* 2012

Turkish Armed Forces

- *Officer Cadet* 2010–2012

Education

Cukurova University

PhD in Electrical and Electronic Engineering 2015–2019

- Title: Research and Application of Real-Time Short-Term Electrical Energy Consumption Forecasting Using Artificial Intelligence-Based Techniques
- Supervisors: Prof. Ahmet Teke and Dr Hatice Basak Ayana

MSc in Electrical and Electronic Engineering

2012–2015

- Title: Developing a Software Program to Determine the Optimal Capacity Rating of Cogeneration and Trigeneration Plants Driven by Gas Engines for Unlicensed Generation of Electricity
- Supervisors: Prof. Ahmet Teke and Prof. Lutfu Saribulut

BSc in Electrical and Electronic Engineering

2004–2010

- Department of Electrical Engineering, Linköping University (Erasmus) 2007–2008

Publication Metrics

Number of unique visitors for kasimzor.com.tr is greater than 192 per month in the last year.

Source	Citations	h-index	Citation Impact
Google Scholar	424	8	
Scopus	264	8	4.44 (FWCI)
Web of Science	141	6	1.63 (CNCI)

¹AAT: Adana Alparslan Turkes

²FDP: Faculty Development Programme

**Publications in
SCIE and SSCI**

1. Ozdemir, A. C. and **Zor, K.** A Novel Gene Expression Programming Algorithm for Forecasting Carbon Dioxide Emissions in G7 Countries. *Energy*, 2025.
***Under Review**
2. Atalay, B. A. and **Zor, K.** An Innovative Approach for Forecasting the Hydroelectricity Generation by Benchmarking Tree-Based Machine Learning Models. *Renewable and Sustainable Energy Reviews*, 2025.
***Under Review**
3. Cebeci, C. and **Zor, K.** Electricity Demand Forecasting Using Deep Polynomial Neural Networks and Gene Expression Programming during COVID-19 Pandemic. *Applied Sciences*, 15(5):2843, 2025.
DOI: 10.3390/app15052843
4. Tolun, O. C., **Zor, K.**, and Tutsoy, O. A Comprehensive Benchmark of Machine Learning-Based Algorithms for Medium-Term Electric Vehicle Charging Demand Prediction. *Journal of Supercomputing*, 81:475, 2025.
DOI: 10.1007/s11227-025-06975-8
5. Ozdemir, A. C., Bulus, K., and **Zor, K.** Medium- to Long-Term Nickel Price Forecasting Using LSTM and GRU Networks. *Resources Policy*, 78:102906, 2022.
DOI: 10.1016/j.resourpol.2022.102906
6. Celik, O., **Zor, K.**, Tan, A., and Teke, A. A Novel Gene Expression Programming-Based MPPT Technique for PV Micro-Inverter Applications under Fast-Changing Atmospheric Conditions. *Solar Energy*, 239:268–282, 2022.
DOI: 10.1016/j.solener.2022.05.012
7. **Zor, K.**, Celik, O., Timur, O., and Teke, A. Short-Term Building Electrical Energy Consumption Forecasting by Employing Gene Expression Programming and GMDH Networks. *Energies*, 13(5):1102, 2020.
DOI: 10.3390/en13051102
8. Teke, A., **Zor, K.**, and Timur, O. A simple methodology for capacity sizing of cogeneration and trigeneration plants in hospitals: A case study for a university hospital. *Journal of Renewable and Sustainable Energy*, 7(053102):1–15, 2015.
DOI: 10.1063/1.4930064

Book Chapters

1. Tolun, G. G., Tolun, O. C., and **Zor, K.** Prosumer Electricity Demand Forecasting Using AI-Based Algorithms Incorporating Meteorological Data. *Engineering Applications of AI for Demand Forecasting*, Taylor & Francis, 2025.
***Accepted**
2. **Zor, K.** and Celik, O. An Application of Different Approaches to Missing Data for Electric Load Forecasting by Using an Advanced Gene Expression Programming Algorithm. *Advances in Engineering Research*, Nova Science Publishers, New York, 44:223–240, 2021. ISBN: 978-1-53619-950-5

**Publications in
ESCI and Scopus**

1. Tolun, G. G. and **Zor, K.** Forecasting Reactive Power in Electric Distribution Systems by Using Machine Learning-Based Algorithms. *e-Prime - Advances in Electrical Engineering, Electronics and Energy*, 2025.
***Accepted**
2. Timur, O., **Zor, K.**, Celik, O., Teke, A., and Ibrikci, T. Application of Statistical and Artificial Intelligence Techniques for Medium-Term Electrical Energy Forecasting: A Case Study for a Regional Hospital. *Journal of Sustainable Development of Energy, Water and Environment Systems*, 8:520–536, 2020.
DOI: 10.13044/j.sdewes.d7.0306

**International
Conference
Publications**

1. Eker, D., **Zor, K.**, and Ozbek, N. S. A Novel Scheme for Forecasting Electricity Generation of Hydroelectric Power Plants. *Digital Proceedings of the 20th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2025)*, (0226):-, Oct 5–10, 2025. (Dubrovnik, Croatia)
***Abstract Accepted**
2. Tolun, O. C., **Zor, K.**, and Tutsoy, O. A State-of-the-Art Review of Machine Learning Approaches for Electricity Theft Detection in Smart Grids. *Digital Proceedings of the 20th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2025)*, (0900):1-26, Oct 5–10, 2025. (Dubrovnik, Croatia)
***Abstract Accepted**
3. **Zor, K.**, Tolun, G. G., and Şeker Zor, E. Forecasting Electricity Generation of a Geothermal Power Plant Using LSTM and GRU Networks. *7th Global Power, Energy and Communication Conference (GPECOM2025)*, (201):1-6, Jun 11–13, 2025. (Bochum, Germany)
***Accepted**
4. Tolun, O. C., **Zor, K.**, and Tutsoy, O. Short-Term Electric Vehicle Charging Demand Prediction Using Machine Learning-Based Algorithms. *Digital Proceedings of the 1st African Conference on Sustainable Development of Energy, Water and Environment Systems (AFSDEWES2025)*, (0143):1-16, May 27–31, 2025. (Oujda-Saidia, Morocco)
5. Atalay, B. A. and **Zor, K.** Hydroelectric Power Forecasting via Tree-Based Machine Learning Algorithms. *Digital Proceedings of the 19th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2024)*, (0835):1-15, Sep 8–12, 2024. (Rome, Italy)
6. Bozkurt, H., **Zor, K.**, Bulus, K., and Celik, O. Machine Learning-Based Classification for Electricity Theft Detection in Distribution Systems. *Digital Proceedings of the 19th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2024)*, (0858):1-9, Sep 8–12, 2024. (Rome, Italy)
7. Tolun, G. G. and **Zor, K.** Short-Term Reactive Power Forecasting Using Machine Learning-Based Algorithms in Electric Distribution Systems. *Digital Proceedings of the 19th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2024)*, (0546):1-11, Sep 8–12, 2024. (Rome, Italy)
8. Aydin, B., **Zor, K.**, and Disken, G. Very Short-Term Prosumer Electric Load Forecasting Using Deep Learning-Based Techniques. *Proceedings of the 9th International Youth Conference on Energy (IYCE2024)*, Jul 2–6, 2024. (Colmar, France)
DOI: 10.1109/IYCE60333.2024.10634913
9. Tolun, G. G. and **Zor, K.** Very Short-Term Reactive Power Forecasting Using Machine Learning-Based Algorithms. *Proceedings of the 9th International Youth Conference on Energy (IYCE2024)*, Jul 2–6, 2024. (Colmar, France)
DOI: 10.1109/IYCE60333.2024.10634921
10. Aydin, B. and **Zor, K.** A Benchmark of Deep Learning- and Tree-Based Methods for Prosumer Electric Load Forecasting. *Book of Abstracts of the 44th International Symposium on Forecasting (ISF2024)*, (2024):44, Jun 30–Jul 3, 2024. (Dijon, France)
11. **Zor, K.** Prosumer Electric Load Forecasting Using Machine Learning-Based Algorithms. *Book of Abstracts of the 44th International Symposium on Forecasting (ISF2024)*, (2024):5-6, Jun 30–Jul 3, 2024. (Dijon, France)
12. Yorat, E., **Zor, K.**, Ozbek, N. S. and Saribulut, L. Day-Ahead Electricity Price Forecasting Using Artificial Intelligence-Based Algorithms. *2023 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT2023)*, Nov 20–21, 2023. (Sakheer, Bahrain)
DOI: 10.1109/3ICT60104.2023.10391547

13. Tolun, G. G., **Zor, K.**, and Kaplan, Y. A. Daily Global Solar Irradiation Prediction of a University Campus via a Hybrid AI-Based Method. *Digital Proceedings of the 18th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2023)*, (0104):1-14, Sep 24–29, 2023. (Dubrovnik, Croatia)
14. Tolun, O. C., **Zor, K.**, and Tutsoy, O. Electric Vehicle Charging Demand Prediction Using a Novel Machine Learning-Based Technique. *Digital Proceedings of the 18th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2023)*, (0175):1-14, Sep 24–29, 2023. (Dubrovnik, Croatia)
15. **Zor, K.** and Bulus, K. A Benchmark of GRU and LSTM Networks for Short-Term Electric Load Forecasting. *2021 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT2021)*, Sep 29–30, 2021. (Zallaq, Bahrain)
DOI: 10.1109/3ICT53449.2021.9581373
16. **Zor, K.** and Celik, O. Short-Term Nonindustrial Reactive Power Forecasting. *17th International Conference of Young Scientists on Energy and Natural Sciences Issues (CYSENI2021)*, (ISSN: 1822-7554):478–487, Mar 24–28, 2021. (Kaunas, Lithuania)
17. Celik, O. and **Zor, K.** Effects of MPPT Parameters on the Performance of Photovoltaic Inverters. *17th International Conference of Young Scientists on Energy and Natural Sciences Issues (CYSENI2021)*, (ISSN: 1822-7554):72–81, Mar 24–28, 2021. (Kaunas, Lithuania)
18. Cetin Tas, I. and **Zor, K.** A Prediction of Building Electrical Energy Demand by Using ANN and SVM. *17th International Conference of Young Scientists on Energy and Natural Sciences Issues (CYSENI2021)*, (ISSN: 1822-7554):381–389, Mar 24–28, 2021. (Kaunas, Lithuania)
19. **Zor, K.**, Timur, O., Celik, O., Yildirim, H. B., and Teke, A. Very Short-Term Electrical Energy Consumption Forecasting of a Household for the Integration of Smart Grids. *Official Conference Proceedings of the European Conference on Sustainability, Energy & the Environment 2018 (ECSEE2018)*, (ISSN: 2188-1146):1–14, Jul 6–7, 2018. (Brighton, UK)
20. Celik, O., Tan, A., **Zor, K.**, and Teke, A. Optimal Design and Analysis of Single-Stage Flyback PV Micro-Inverter. *Official Conference Proceedings of the European Conference on Sustainability, Energy & the Environment 2018 (ECSEE2018)*, (ISSN: 2188-1146):103–115, Jul 6–7, 2018. (Brighton, UK)
21. Timur, O., **Zor, K.**, Celik, O., and Teke, A. Very Short-Term Internet of Things Based Forecasting of Air Conditioning Loads: A Case Study for a Server Room in a Hospital. *Proceedings of the 2nd International Conference on Theoretical and Applied Computer Science and Engineering (ICTACSE2018)*, (ISBN:978-605-9546-12-6):22–25, Jun 29–30, 2018. (Istanbul, Türkiye)
22. Timur, O., **Zor, K.**, Celik, O., and Teke, A. Development of an Intelligent Energy Measurement Device for Buildings. *Proceedings of the 2nd International Conference on Theoretical and Applied Computer Science and Engineering (ICTACSE2018)*, (ISBN:978-605-9546-12-6):16–21, Jun 29–30, 2018. (Istanbul, Türkiye)
23. **Zor, K.**, Celik, O., Timur, O., Yildirim, H. B., and Teke, A. Simple Approaches to Missing Data for Energy Forecasting Applications. *Proceedings of the 16th International Conference on Clean Energy (ICCE2018)*, (FORC-03):1–4, May 9–11, 2018. (Gazimağusa, Turkish Republic of Northern Cyprus)
24. **Zor, K.**, Timur, O., Celik, O., Yildirim, H. B., and Teke, A. Interpretation of Error Calculation Methods in the Context of Energy Forecasting. *Digital Proceedings of the 12th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2017)*, (0722):1–9, Oct 4–8, 2017. (Dubrovnik, Croatia)
25. Timur, O., **Zor, K.**, Celik, O., Yildirim, H. B., and Teke, A. Design and Implementation of Smart Energy Measurement Plug in Smart Buildings. *Digital Proceedings of the 12th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2017)*, (0732):1–12, Oct 4–8, 2017. (Dubrovnik, Croatia)

26. Celik, O., Tan, A., **Zor, K.**, Timur, O., Yildirim, H. B., and Teke, A. Comparative Investigation of Single-Stage and Multi-Stage Grid-Tie Micro-Inverters. *Digital Proceedings of the 12th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2017)*, (0735):1–6, Oct 4–8, 2017. (Dubrovnik, Croatia)
27. **Zor, K.**, Timur, O., and Teke, A. A State-of-the-Art Review of Artificial Intelligence Techniques for Short-Term Electric Load Forecasting. *Proceedings of the 6th International Youth Conference on Energy (IYCE2017)*, 1–6, Jun 21–24, 2017. (Budapest, Hungary)
DOI: 10.1109/IYCE.2017.8003734
28. **Zor, K.**, Celik, O., and Teke, A. Techno-Economic Analysis of a Grid-Connected Hybrid Biogas/Photovoltaic Power Generation System in the Mediterranean Region. *Official Conference Proceedings of the European Conference on Sustainability, Energy & the Environment 2016 (ECSEE2016)*, (ISSN: 2188-1146):1–10, Jul 7–10, 2016. (Brighton, UK)
29. **Zor, K.**, Teke, A., and Timur, O. Developing a Software Program to Determine the Optimal Capacity Rating of Gas Engine Based Cogeneration and Trigeneration Plants for Unlicensed Generation of Electricity. *Digital Proceedings of the 10th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2015)*, (0695):1–12, Sep 27–Oct 2, 2015. (Dubrovnik, Croatia)
30. **Zor, K.** and Teke, A. Onsite Energy Production with Cogeneration Plants Driven by Reciprocating Gas Engines. *Digital Proceedings of the 1st South East European Conference on Sustainable Development of Energy, Water and Environment Systems (SEE SDEWES 2014)*, (0237):1–9, Jun 29–Jul 3, 2014. (Ohrid, North Macedonia)

Other Journal Publications

1. Atalay, B. A. and **Zor, K.**. Hydroelectric Power Forecasting via XGBoost (Extreme Gradient Boosted Decision Trees). *Cukurova University Journal of the Faculty of Engineering*, 40(1):205–218, 2025.
DOI: 10.21605/cukurovaumfd.1666062
2. Timur, O., **Zor, K.**, Celik, O., and Teke, A. Enhancement of a Low-Cost Intelligent Device for Improving Energy Efficiency in Buildings. *Communications Faculty of Sciences University of Ankara Series A2–A3: Physical Sciences and Engineering*, 60(2):103–128, Nov 2018.
3. Teke, A., Timur, O., and **Zor, K.**. Calculating Payback Periods for Energy Efficiency Improvement Applications at a University Hospital. *Cukurova University Journal of the Faculty of Engineering and Architecture*, 30(1):41–56, Jun 2015.
DOI:10.21605/cukurovaummfd.242803

Other Conference Publications

1. Tolun, G. G., Tolun, O. C., and **Zor, K.** Üreten Tüketici Elektrik Yük Tahminin Makine Öğrenmesi Tabanlı Algoritmalar ile Uygulanması. *National Conference on Electrical, Electronic, and Biomedical Engineering (ELECO2024)*, Nov 28–30, 2024. (Bursa, Türkiye)
2. Buluş, K. and **Zor, K.** A Hybrid Deep Learning Algorithm for Short-Term Electric Load Forecasting. *The 29th IEEE Conference on Signal Processing and Communications Applications (SIU2021)*, 9–11 Jun 2021. (Istanbul, Türkiye)
DOI: 10.1109/SIU53274.2021.9477869
3. **Zor, K.**, Teke, A., Celik, O., and Latran, M. B. Türkiye’de Gaz Motorlu Kojenerasyon ve Trijenerasyon Santralleri ile Elektrik Enerjisi Üretimi. *IV. Elektrik Tesisat Ulusal Kongre ve Sergisi*, (612):189–195, Oct 21–24, 2015. (Izmir, Türkiye)
4. Latran, M. B., Teke, A., and **Zor, K.** Akıllı Eviriciler ile Yenilenebilir Enerji Tabanlı Dağıtık Üretim Sistemlerinin Akıllı Şebekelere Entegrasyonu. *IV. Elektrik Tesisat Ulusal Kongre ve Sergisi*, (612):246–255, Oct 21–24, 2015. (Izmir, Türkiye)
5. **Zor, K.**, Teke, A., and Tümay, M. Biyokütle ve Katı Atıkların Yakıt Olarak Kullanıldığı Gaz Motorlu Kojenerasyon Santralleri ile Yenilenebilir Enerji Üretimi. *VIII. Yenilenebilir Enerji Kaynakları Sempozyumu (YEKSEM 2015)*, (610):91–95, Oct 15–16, 2015. (Adana, Türkiye)

6. **Zor, K.** and Teke, A. Current Status and Operation Modes of Cogeneration and Trigenation Plants Driven by Gas Engines. *Proceedings of the 21st International Energy and Environment Fair and Conference (ICCI 2015)*, 91–94, May 6–8, 2015. (Istanbul, Türkiye)

Reviews for

Computers and Electrical Engineering, Energy and Buildings, Energy Reports, Energy Strategy Reviews, Engineering Applications of Artificial Intelligence, Expert Systems With Applications, IEEE Access, IEEE Canadian Journal of Electrical and Computer Engineering, IEEE Transactions on Smart Grid, IEEE Transactions on Transportation Electrification, IET Generation, Transmission & Distribution, IET Renewable Power Generation, International Journal of Digital Earth, International Journal of Green Energy, International Transactions on Electrical Energy Systems, Journal of Forecasting, Measurement, Network: Computation in Neural Systems, Sustainable Computing: Informatics and Systems, Sustainable Energy Technologies and Assessments, Swarm and Evolutionary Computation, and Turkish Journal of Electrical Engineering & Computer Sciences

Projects

International Projects

- PyPSA³ Project, PyPSA meets Africa and PyPSA Earth, **Western Asia Coordinator**, 2021–2022.

TUBITAK Projects

- Developing a Software to Determine the Optimum Capacity Rating for Unlicensed Electricity Generation in Cogeneration and Trigenation Power Plants Driven by Gas Engines. TUBITAK 3001 Project, Grant Number: 113E769, **Scholar**, 14 Month, Project Budget: ₺32,764.77, 2014–2015.

Scientific Research Projects

- Research and Development of Very Short-Term Electric Load Forecasting Models Using Machine Learning-Based Algorithms for Prosumers. Individual Research Project, Adana Alparslan Turkes Science and Technology University, **Supervisor**, 12 Month, Grant Number: 24103005, Project Budget: ₺65,000.00, 2024–2025.
- Detection of Non-Technical Losses in Electric Distribution System by Using Data Analytics and Machine Learning Methods. Individual Research Project, Adana Alparslan Turkes Science and Technology University, **Supervisor**, 24 Month, Grant Number: 21103013, Project Budget: ₺20,000.00, 2021–2023.
- Implementation of Short-Term Reactive Power Forecasting Using Artificial Intelligence-Based Techniques for a Nonindustrial Large Building Complex. Individual Research Project, Adana Alparslan Turkes Science and Technology University, **Supervisor**, 13 Month, Grant Number: 19103012, Project Budget: ₺25,000.00, 2019–2021.
- Electric Demand Prediction: Data Acquisition, Implementation of ANN and User Interface Design. Individual Research Project, Cukurova University, **Researcher**, 24 Month, Grant Number: FBA-2017-8252, Project Budget: ₺25,990.07, 2017–2019.
- Very Short-Term Forecasting of a Household Electrical Energy Consumption. Individual Research Project, Cukurova University, **Researcher**, 12 Month, Grant Number: FBA-2017-9344, Project Budget: ₺11,999.99, 2017–2018.
- Developing a Software to Determine the Optimum Capacity Rating of Cogeneration and Trigenation Plants Driven by Gas Engines. Scientific Research Project, Cukurova University, **Researcher**, 12 Month, Grant Number: FYL-2014-2351, Project Budget: ₺5,948.01, 2014–2015.

Grants

TUBITAK⁴ 2224-A Grant (\$1,500) 2024
The 44th International Symposium on Forecasting (Dijon, France)

Erasmus+ Staff Mobility Grant (€1,125) 2023
Subject: Microgrids, Host: Prof. Juan C. Vasquez from the Centre for Research on Microgrids (CROM), Department of Energy, Aalborg University, Aalborg, Denmark

Erasmus+ Staff Mobility Grant (€1,538) 2018
Subject: Electric Load Forecasting, Host: Prof. Jethro Browell from Department of Electronic and Electrical Engineering, University of Strathclyde, Glasgow, UK

³PyPSA: Python for Power System Analysis

⁴TUBITAK: The Scientific and Technological Research Council of Turkey

TUBITAK Scholarship (₺5,630)

2014–2015

Project Number: EEEAG-113E769

Erasmus Student Exchange Grant (€3,000)

2007–2008

Department of Electrical Engineering, Linköping Institute of Technology, Linköping University, Linköping, Sweden

**Managed
Theses****Supervisions**

- Atalay, B. A. *Hydroelectric Power Forecasting via Tree-Based Machine Learning Algorithms*. MSc Thesis, Department of Electrical and Electronic Engineering, Institute of Graduate School, Adana Alparslan Turkes Science and Technology University, 2024. (Adana, Türkiye)

Co-Supervisions

- Tolun, O. C. *Electricity Theft Detection in Distribution Systems Using Machine Learning-Based Algorithms*. PhD Thesis, Department of Electrical and Electronic Engineering, Institute of Graduate School, Adana Alparslan Turkes Science and Technology University, 2027. (Adana, Türkiye)
- Abdalla, E. *Deep Learning-Based Daily Solar Irradiation Prediction for Adana Region*. MSc Thesis, Department of Electrical and Electronic Engineering, Institute of Natural and Applied Sciences, Cukurova University, 2023. (Adana, Türkiye)

**Courses
Taught****AAT Science and Technology University****2020–Present****Bachelor**

• EEE ⁵ 105 Introduction to Computer Programming I	2020–2021
• EEE110 Computer Programming	2020–Present
• EEE208 Circuit Theory II	2023–2024
• EEE222 Electrical Circuits Lab II	2023–2024
• EEE225 Engineering Mathematics I (Differential Equations)	2021–2023
• EEE356 Data Analytics	2021–Present
• EEE407 Renewable Energy	2020–Present
• EEE423 Embedded Systems	2023–2024
• EEE435 Machine Learning	2025–Present
• EEE453 Electrical Transmission and Distribution	2020–2022
• EEE483 Introduction to Energy Analytics	2022–2024
• EEE497 Graduation Project	2021–Present
• EEE498 Graduation Project	2020–Present
• ESE ⁶ 208 Circuit Theory II	2023–2024
• ESE222 Electrical Circuits Lab II	2023–2024
• ESE305 Energy Transmission and Distribution	2022–2023
• ESE313 Energy Efficiency	2022–2023

Masters

• EEE-U7000 Special Area Course	2021–Present
• EEE7195 Python for Data Science	2021–Present
• EEE7196 Sustainable Energy	2021–Present
• EEE7199 Energy Analytics	2022–Present
• EEE7200 CCHP Systems	2023–Present

Doctoral

• EEE-U8000 Special Area Course	2024–Present
• EEE8025 Statistical Machine Learning	2025–Present
• EEE8182 Electric Load Forecasting	2023–Present
• EEE8183 Energy Informatics	2022–Present
• EEE8188 Renewables in Electricity Markets	2024–Present
• EEE8189 Digitalisation of Energy Systems	2023–Present

⁵EEE: Department of Electrical and Electronic Engineering⁶ESE: Department of Energy Systems Engineering

Cukurova University**2023–Present****Bachelor**

- EEE113 Introduction to Electrical Engineering

2023–Present

Trainings

- Demand Forecasting with R, Dr Ivan Svetunkov & Dr Kandrika Pritularga, Centre for Marketing Analytics and Forecasting (CMAF), Lancaster University Management School 2024
- Bayesian Forecasting, Prof. Francesco Ravazzolo & Dr Magdalena Ivanovska, 7th Annual Forecasting Summer School, International Institute of Forecasters, Dijon, France 2024
- Design and Planning of Biogas Systems, BESTMER⁷, Solar Energy Institute of Ege University 2015
- Solar Expert Photovoltaics, DGS⁸ 2014
- Managing Responsibility in High Voltage Facilities, Adana Chamber of Electrical Engineers 2012

Memberships

- The International Institute of Forecasters (IIF), Member 2023–Present
- Early Career Forecasters (ECF)
 - Section on Water, Energy and Environment (SWEET)
- UCTEA⁹ Chamber of Electrical Engineers, Member, Adana 2010–2021
- IEEE, Student Member 2007–2019

⁷BESTMER: Biomass Energy Systems and Technologies Application and Research Centre

⁸DGS: Deutsche Gesellschaft für Sonnenenergie

⁹UCTEA: Union of Chambers of Turkish Engineers and Architects