Malatya Turgut Özal Üniversitesi

Faculty of Engineering and Natural Sciences

Department of Electrical and Electronics Engineering

Elektrik Elektronik Mühendisliği

1.Semester Course Plan				
Course Code	**Course Name**	**T+A+L**	**Compulsory/Elective**	**ECTS**
EEM109-2024	Fundamentals of EEE I	3+0+0	Compulsory	4
EEM111-2024	Algorithms and Programming-I	2+2+0	Compulsory	4
İNG101-2020	English I	3+0+0	Compulsory	3
TBF001-2020	General Physics I	4+0+0	Compulsory	5
TBF003-2020	General Physics Laboratory I	0+0+2	Compulsory	2
TBM001-2020	Mathematics I	4+0+0	Compulsory	6
TBM003-2020	Linear Algebra	3+0+0	Compulsory	4
TDB101-2020	Turkish Language I	2+0+0	Compulsory	2
			Total ECTS	**30**

2.Semester Course Plan				
Course Code	**Course Name**	**T+A+L**	**Compulsory/Elective**	**ECTS**
EEM108-2024	Fundamentals of EEE II	3+2+0	Compulsory	4
EEM110-2024	EEE and Ethics	2+0+0	Compulsory	2
İNG102-2020	English II	3+0+0	Compulsory	3
TBF002-2020	General Physics II	4+0+0	Compulsory	5
TBF004-2020	General Physics Laboratory II	0+0+2	Compulsory	2
TBK001-2020	General Chemistry	3+0+0	Compulsory	4
TBK002-2020	General Chemistry Laboratory	0+0+2	Compulsory	2
TBM002-2020	Mathematics II	4+0+0	Compulsory	6
TDB102-2020	Turkish Language II	2+0+0	Compulsory	2
			Total ECTS	**30**

3.Semester Course Plan				
Course Code	**Course Name**	**T+A+L**	**Compulsory/Elective**	**ECTS**
AİİT201-2020	Principles of Atatürk and History of Revolution I	2+0+0	Compulsory	2
EEM201-2024	Circuit Theory	3+0+0	Compulsory	5
EEM203-2024	Occupational Health and Safety	2+0+0	Compulsory	3
EEM205-2024	Measurement Techniques and Sensors	2+2+0	Compulsory	4
EEM207-2024	Electromagnetic Field Theory	3+0+0	Compulsory	5
EEM209-2024	Engineering Software	2+2+0	Compulsory	5
EEM211-2024	Differential Equations	4+0+0	Compulsory	6
PDF003-2023	FORMATION COURSE GROUP	-	Elective	4
PDF251-2023	Introduction to Education	3+0+0	Elective	4
			Total ECTS	**34**

4.Semester Course Plan				
Course Code	**Course Name**	**T+A+L**	**Compulsory/Elective**	**ECTS**
AİİT202-2020	Principles of Atatürk and History of Revolution- II	2+0+0	Compulsory	2
EEM202-2024	Circuit Analysis	3+0+0	Compulsory	5
EEM204-2024	Probability and Statistics	3+0+0	Compulsory	4
EEM206-2024	Computer Aided Technical Drawing	2+2+0	Compulsory	4
EEM208-2024	Technical English	3+0+0	Compulsory	4
EEM210-2024	Electronics I	3+2+0	Compulsory	5
EEM212-2024	Signals and Systems	3+0+0	Compulsory	4
EEM001-2024	ELECTIVE COURSE GROUP I (SOCIAL)	-	Elective	2
EEM252-2024	Engineering Economics	2+0+0	Elective	2
EEM254-2020	Entrepreneurship	2+0+0	Elective	2
EEM256-2020	Production Management	2+0+0	Elective	2
EEM258-2020	Intellectual and Industrial Property	2+0+0	Elective	2
EEM260-2024	Labor Law	2+0+0	Elective	2
PDF004-2023	FORMATION COURSE GROUP	-	Elective	4
PDF252-2023	Education psychology	3+0+0	Elective	4
			Total ECTS	**34**

5.Semester Course Plan				
Course Code	**Course Name**	**T+A+L**	**Compulsory/Elective**	**ECTS**
EEM301-2024	Professional Practice I	0+0+0	Compulsory	5
EEM303-2024	Numerical Analysis	3+0+0	Compulsory	3

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EEM305-2024	Electronics II	3+2+0	Compulsory	5
EEM307-2024	Electrical Machines I	3+0+0	Compulsory	5
EEM309-2024	Automatic Control Systems	3+2+0	Compulsory	5
EEM311-2024	Digital Circuits	3+2+0	Compulsory	5
PDF005-2023	FORMATION COURSE GROUP	-	Elective	4
PDF351-2023	Teaching Principles and Methods	3+0+0	Elective	4
PDF353-2023	Teaching Technologies	2+0+0	Elective	3
MTH109-2025	End-to-End Foreign Trade with Mikro Fly ERP	2+0+0	Elective	2
USD139-2021	Community Service Practices	2+0+0	Elective	2
USD188-2025	French	2+0+0	Elective	2
			Total ECTS	**32**

6.Semester Course Plan				
Course Code	**Course Name**	**T+A+L**	**Compulsory/Elective**	**ECTS**
EEM302-2024	Power Systems	3+0+0	Compulsory	5
EEM304-2024	Microprocessors	2+2+0	Compulsory	5
EEM306-2024	Power Electronics	3+0+0	Compulsory	4
EEM308-2024	Electrical Machines II	3+2+0	Compulsory	5
EEM310-2024	Analog Communication	3+0+0	Compulsory	4
EEM002-2024	ELECTIVE COURSE GROUP II (TECHNİHAL)	-	Elective	5
EEM352-2024	Electromechanical Energy Conversion	3+0+0	Elective	5
EEM354-2024	Statics and Strength	3+0+0	Elective	5
EEM356-2024	Material Science	3+0+0	Elective	5
EEM358-2024	Mechatronics Systems	3+0+0	Elective	5
EEM360-2024	Generation of Electrical Energy	3+0+0	Elective	5
PDF006-2023	FORMATION COURSE GROUP	-	Elective	4
PDF352-2023	Measurement and Evaluation in Education	3+0+0	Elective	4
PDF354-2023	Classroom Management	2+0+0	Elective	3
MTH109-2025	End-to-End Foreign Trade with Mikro Fly ERP	2+0+0	Elective	2
USD139-2021	Community Service Practices	2+0+0	Elective	2
USD188-2025	French	2+0+0	Elective	2
			Total ECTS	**32**

7.Semester Course Plan				
Course Code	**Course Name**	**T+A+L**	**Compulsory/Elective**	**ECTS**
EEM401-2024	Graduation Project	0+2+0	Compulsory	5
EEM003-2024	ELECTIVE COURSE GROUP III (TECHNİHAL)	-	Elective	25
EEM451-2024	Industrial Electronics	3+0+0	Elective	5
EEM453-2024	Introduction to Artificial Intelligence	3+0+0	Elective	5
EEM455-2024	Nonlinear Control Systems	3+0+0	Elective	5
EEM457-2024	Industrial Robotics	3+0+0	Elective	5
EEM459-2024	Illumination Techniques and Indoor Installation	3+0+0	Elective	5
EEM461-2024	High Voltage Techniques	3+0+0	Elective	5
EEM463-2024	Digital Control	3+0+0	Elective	5
EEM465-2024	Renewable Energy Systems	3+0+0	Elective	5
EEM467-2024	Image Processing Techniques	3+0+0	Elective	5
EEM469-2024	Smart Grids	3+0+0	Elective	5
EEM471-2024	Industrial Control Systems	2+2+0	Elective	5
PDF007-2023	FORMATION COURSE GROUP	-	Elective	4
PDF451-2023	Guidance and Special Education	3+0+0	Elective	4
PDF452-2023	Teaching Practice	1+8+0	Elective	10
PDF453-2023	Special teaching methods	3+0+0	Elective	4
			Total ECTS	**34**

8.Semester Course Plan				
Course Code	**Course Name**	**T+A+L**	**Compulsory/Elective**	**ECTS**
EEM402-2024	Professional Practice II	0+0+0	Compulsory	5
EEM004-2024	ELECTIVE COURSE GROUP IV (TECHNİHAL)	-	Elective	5
EEM452-2024	Internet of Things	3+0+0	Elective	5
EEM454-2024	Medical Electronics	3+0+0	Elective	5
EEM456-2024	Embedded Systems	3+0+0	Elective	5
EEM458-2024	Digital Communication	3+0+0	Elective	5
EEM460-2024	Protection in Electrical Installations	3+0+0	Elective	5
EEM462-2024	Electric Drive Systems	3+0+0	Elective	5
EEM464-2024	Biomedical Data Processing	3+0+0	Elective	5
EEM466-2024	Electric Power Transmission and Distribution	3+0+0	Elective	5
EEM468-2024	Robotics	3+0+0	Elective	5
EEM470-2024	Filter Design	3+0+0	Elective	5
EEM472-2024	Digital Signal Processing	3+0+0	Elective	5

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EEM044-2024	VOCATIONAL TRAINING GROUP IN BUSINESS	-	Elective	25
EEM500-2024	Vocational Training in Business	5+20+0	Elective	25
			Total ECTS	**35**

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