UNDERGRADUATE CURRICULUM

First Semester

EEE 103	Algorithms and Programming I
PHYS 101	Physics I
MATH 101	Calculus I
MATH 103	Linear Algebra
EEE 101	Introduction to Electrical-Electronics Engineering
ENG 101	Academic English I
TURK 101	Turkish I
CARP 101	Career Planning

Second Semester

EEE 104	Algorithms and Programming II
PHYS 102	Physics II
MATH 102	Calculus II
EEE 102	Circuit Theory I
EEE 106	Materials Science and Semiconductors
ENG 102	Academic English II
TURK 102	Turkish II

Third Semester

EEE 203	Circuit Theory II
EEE 205	Signals and Systems
MAT 203	Differential Equations
EEE 201	Electronics I
STT 201	Probability and Statistics
HIST 101	Ataturk's Principles and History of Turkish Revolution I
OHS 201	Occupational Health And Safety–I
SOC XXX	Social Elective I

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Fourth Semester

EEE 202	Electronics II
EEE 204	Digital System Design
EEE 206	Microprocessors
OHS 202	Occupational Health And Safety-II
EEE 208	Defense Technologies
EEE 210	Advanced Programming
HIST 102	Ataturk's Principles and History of Revolution II

Fifth Semester

EEE 3XXX	Technical Elective I
EEE 3XXX	Technical Elective II
EEE 3XXX	Technical Elective III
EEE 3XXX	Technical Elective IV
EEE 301	Numerical Analysis for Engineers
EEE 303	Engineering Electromagnetics
EEE 300	Summer Internship I

Sixth Semester

EEE 3XXX	Technical Elective V
EEE 3XXX	Technical Elective VI
EEE 3XXX	Technical Elective VII
EEE 3XXX	Technical Elective VIII
EEE 3XXX	Technical Elective Course**
EEE 390	Engineering Design I

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Seventh Semester

EEE 4XXX	Technical Elective IX
EEE 4XXX	Technical Elective X
EEE 4XXX	Technical Elective XI
EEE 4XXX	Technical Elective XII
SOC XXX	Social Elective II
EEE 491	Engineering Design II
EEE 400	Summer Intership II

Eighth Semester

EEE498	Sectoral Experience

Fifth Semester Elective Courses

EEE305	Electromagnetic Waves
EEE307	Antenna Design
EEM309	Programmable Logic Controller
EEM311	Control Systems
EEE313	Electromechanical Energy Conversions
EEE315	Renewable Energy
EEE317	Geometrical Optics
EEE319	Photonics & Opto-electronic Systems
EEE321	Electrical Energy Generation
EEE323	Electrical Plants

Sixth Semester Elective Courses

EEE302	Communication Systems
EEE304	Digital Signal Processing
EEE306	Electrical Machines
EEE308	Power Electronics
EEE310	Network Technologies
EEE312	Electrical Energy Transmission
EEE314	Electrical Energy Distribution
CNG372	Internet of Things
CNG356	Natural Language Processing
CNG358	Data Mining
CNG364	Fuzzy Logic
CNG366	Optimization

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Seventh Semester Elective Courses

EEE401	Power Systems
EEE403	High Voltage Technique
EEE405	Sensor Design
EEE407	Photoelectric Sensors and LiDAR
EEE409	Radar Systems
EEE411	Electronic Warfare Systems
EEE413	Robotic Design
EEE415	System Engineering
EEE417	Electrical Installation Design
EEE419	Illumination Basics
EEE421	Power System Protection
EEE423	Power Quality
CNG401	Embedded Systems
CNG457	Machine Learning
CNG459	Image Processing
CNG465	Blockchain Technology
CNG467	Cloud Computing

Social Elective Courses

SOC 101	Introduction to Business
SOC 102	Current Topics in Psychology
SOC 103	Guitar I
SOC 104	Special Topics in Economics, Industry and Development
SOC 105	Foreign Languages: Basic French
SOC 106	Foreign Languages: Basic German
SOC 107	Foreign Languages: Basic Spanish
SOC 108	History of War
SOC 109	Media Literacy
SOC 110	Communication Skills
SOC 111	Basic Photography
SOC 112	Personal Development
SOC 113	Creative Thinking Methods
SOC 114	Effective Public Speaking
SOC 115	Speed Reading
SOC 116	Public Relations
SOC 117	Business Law and Ethics
SOC 118	WEB Design
SOC 119	Entrepreneurship and Business Plan Preparation
SOC 120	History of Science
SOC 199	Volunteering Studies