

CURRICULUM OF UNDERGRADUATE PROGRAMS

First Semester

PHYS 101	Physics I
MATH 103	Linear Algebra
MATH 101	Calculus I
CNG 103	Introduction to Programming
TURK 101	Turkish I
CNG 101	Introduction to Computer Engineering
ENG 101	Academic English I
CARP 101	Career Planning

Second Semester

PHYS 102	Physics II
MATH 102	Calculus II
EEE 102	Circuit Theory I
TURK 102	Turkish II
CNG 104	Programming
ENG 102	Academic English II

Third Semester

CNG 201	Data Structures
CNG 203	Object Oriented Programming
CNG 205	Discrete Mathematics
MATH 201	Probability and Statistics
MATH 203	Differential Equations
HIST 101	Atatürk's Principles and History of Turkish Revolution I
OHS 201	Occupational Health And Safety - I
XXXXXX	Social Elective



UNDERGRADUATE CURRICULUM

Fourth Semester

EEE 204	Digital System Design
EEE 206	Microprocessors
CNG 212	Programming Languages
OHS 202	Occupational Health And Safety - II
CNG 244	Operating Systems
HIST 102	Atatürk's Principles and History of Turkish Revolution II

Fifth Semester

CNG 311	Database Systems
CNG 361	Web Programming
CNG 335	Algorithms
CNG 371	Software Engineering
CNG 381	Computer Organization
CNG 301	Summer Practice I

Sixth Semester

CNG 342	Data Communication and Computer Networks
CNG 344	Information Security
CNG 346	Mobile Programming
XXXXXX	Technical Elective
XXXXXX	Technical Elective
CNG 304	Computer Engineering Design I



UNDERGRADUATE CURRICULUM

Seventh Semester

CNG 401	Embedded Systems
CNG 403	Automata Theory
XXXXXX	Technical Elective
XXXXXX	Technical Elective
XXXXXX	Social Elective
CNG 405	Computer Engineering Design Project II
CNG 407	Summer Practice II

Sixth Semester Technic Elective Courses

CNG 352	Introduction to Parallel Programming
CNG 354	Visual Programming
CNG 356	Natural Language Processing
CNG 358	Data Mining
CNG 360	Cyber Security
CNG 362	Cryptology
CNG 364	Fuzzy Logic
CNG 366	Optimization
CNG 368	Biodefense
CNG 370	Bioinformatics
EEE 304	Digital Signal Processing
CNG 372	Internet of Things
CNG 374	Advanced Java Programming
CNG 376	Multimedia Systems
CNG 378	Real-Time Operating System
CNG 380	Distributed Operating System

Seventh Semester Technic Elective

CNG 451	Big Data
CNG 453	High Performance Computing
EEE 413	Robotic Design
CNG 455	R&D and Technology in Defense Industry
CNG 457	Machine Learning
CNG 459	Image Processing
CNG 461	Network Administration
CNG 463	System Administration
CNG 465	Blockchain Technology
CNG 467	Cloud Computing
CNG 469	Computer Graphics
CNG 459	Image Processing
EEE 409	Radar Systems
EEE 411	Electronic Warfare Systems
EEE 411	Electronic Warfare Systems
EEE 415	System Engineering

Eighth Semester

CNG 498	Sectoral Experience
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UNDERGRADUATE CURRICULUM

Social Elective Courses

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

