

WESTERN CASPIAN UNIVERSITY
School of High Technologies and Innovative Engineering

050604 Device engineering
Programme

Education Level- Bachelor
Study Period- 4 Years

Instruction Language – Azerbaijani, Russian and English

I semester		
Code	Compulsory subjects	ECTS
ÜF-B02.01	Business and academic communication in a foreign language -1	6
ÜF – B03	Business and academic communication in the Azerbaijani language	4
İF-BO1	Linear algebra and analytical geometry	4
İF-BO7	Basics of hardware and software of computer systems	7
İF-BO8	Engineering graphics and design	4
Total		25
Subjects determined by the higher education institution		
Code	Compulsory Subjects	ECTS
ATMF-BO1	1. Multimedia technologies 2. Mechatronics systems	5
Total		5
Per Semester:		30
II semester		
Code	Compulsory Subjects	ECTS
ÜF-B01	Azərbaycan History	5
ÜF-B02.02	Business and academic communication in a foreign language -2	6
İF-BO2	Mathematical analysis	8
İF-B18	Basics of device technology	5
İF-B21	Civil Defense	3
Total		27
Elective subjects in general		
Code	Compulsory Subjects	ECTS
ÜFS-B04	1. Philosophy 2. Introduction to multiculturalism 3. Sociology 4. Constitution of the Republic of Azerbaijan and bases of law 5. Logic 6. Ethics and aesthetics	3
Total		3
Per Semester:		30
III semester		
Code	Compulsory Subjects	ECTS
ÜF-B02.03	Business and academic communication in a foreign language -3	3
İF-BO3	Applied mathematics	4
İF-BO4	Basics of physics	5
İF-B19	Automated device design systems	6

IF-B20	Physical bases of information retrieval, modern sensors and converters	6
Total		24
Subjects determined by the higher education institution		
Code	Compulsory Subjects	ECTS
ATMF-BO2	1. Descriptive geometry and engineering graphics 2. Expert systems	6
Total		6
Per Semester:		30
IV semester		
Code	Compulsory Subjects	ECTS
IF-BO5	Applied physics	7
IF-BO6	Chemistry	6
IF-B17	Microprocessors and microcontrollers	6
Total		19
Subjects determined by the higher education institution		
Code	Compulsory Subjects	ECTS
ATMF-BO3	1. Web programming 2. Laser and its use	6
ATMF-BO4	1. Engineering mathematics 2. Systematic analysis	5
Total		11
Per Semester:		30
V semester		
Code	Compulsory Subjects	ECTS
IF-BO9	Electrical engineering	7
IF-B10	Mechanical engineering	6
IF-B12	Computer-based device engineering	6
Total		19
Subjects determined by the higher education institution		
Code	Compulsory Subjects	ECTS
ATMF-BO5	1. Distributed cloud computing 2. Corporate information systems	5
ATMF-BO6	1. Optical information systems 2. Engineering design systems	6
Total		11
Per Semester:		30
VI semester		
Code	Compulsory Subjects	ECTS
IF-B11	Electrical engineering and circuitry	6
IF-B13	Quality control and metrology	7
IF-B14	Measurement technologies	6
Total		19
Subjects determined by the higher education institution		
Code	Compulsory Subjects	ECTS
ATMF-BO7	1. Analytical data processing 2. Basics of cryptography	6
ATMF-BO8	1. Materials and processes 2. Modern programming languages	5
Total		11
Per Semester:		30
VII semester		
Code	Compulsory Subjects	ECTS
IF-B15	Industrial devices	6

IF-B16	Materials science	6
Total		12
Elective subjects in general		
Code	Compulsory Subjects	ECTS
ÜFS-B05	1. Information technology (by specialty) 2. Information management 3. Palitology 4. Basics of entrepreneurship and introduction to business	3
Total		3
Subjects determined by the higher education institution		
ATMF -BO9	1. Decision making models 2. Digital electronics	5
ATMF-BO10	1. Materials and processes 2. Modern programming languages	5
ATMF-BO11	1. Robotics complexes 2. Industrial robots	5
Total		15
Per Semester:		30
VIII semester		
Code	Compulsory Subjects	ECTS
	Practise	21
	Thesis	9
Per Semester:		30
Total		240
FALL SEMESTER:		
Lessons Start: September 15 Exam Period: From December 29 To February 1 Holidays: February 2 To February 15		
SUMMER SEMESTER:		
Lessons Starts on 16 Feb Exam Period 1 Jun-05 Jul Vocation Period 6-10 Weeks		
SUMMER SEMESTER:		
Lessons Start: July 16 To August 20 Exam Period: August 21-27		