## WESTERN CASPIAN UNIVERSITY

## School of High Technologies and Innovative Engineering 050628 Major in Mechanical Engineering Programme

## Education Level – Bachelors Study Period- 4 Years

 ${\bf Instruction\ Language-Azerbaijani, Russian\ and\ English}$ 

	I semester	
Code	Compulsory Subjects	ECTS
ÜF-B02.01	Business and academic communication in a foreign	6
	language -1	
ÜF – B05	Business and academic communication in the	4
	Azerbaijani language	
İPF-B01	Linear algebra and analytical geometry	4
İPF-B05	Physics	8
İPF-B07	Inverse geometry and engineering	5
İPF-B24	Civil Defense	3
	Total	30
	Per Semester:	30
	II semester	
Code	Compulsory Subjects	ECTS
ÜF-B01	Azərbaijan History	5
ÜF – B02.02	Business and academic communication in a foreign	6
	language -2	
İPF-B02	Mathematical analysis	8
İPF-B06	Introduction to the specialty	4
	Total	23
	Elective subjects in general	
Code	Compulsory Subjects	ECTS
ÜFS-B06	1. Ethics and aesthetics	3
	2. Logic	
	3. Introduction to multiculturalism	
	4. Sociology	
	5. Philosophy	
	6. Constitution of the Republic of Azerbaijan and bases of law	
	Total	3
	Total	3
	Subjects determined by the higher education institution	
Code	Subjects determined by the higher education institution Compulsory Subjects	
Code	Compulsory Subjects	ECTS
Code İPFS-BO1	Compulsory Subjects  1. Multimedia technologies	
	Compulsory Subjects  1. Multimedia technologies 2. Mechatronics systems	ECTS
	Compulsory Subjects  1. Multimedia technologies 2. Mechatronics systems  Total	ECTS 4 5
	Compulsory Subjects  1. Multimedia technologies 2. Mechatronics systems	ECTS 4
	Compulsory Subjects  1. Multimedia technologies 2. Mechatronics systems  Total  Per Semester:  III semester	ECTS 4 5
İPFS-BO1  Code	Compulsory Subjects  1. Multimedia technologies 2. Mechatronics systems  Total  Per Semester:  III semester  Compulsory Subjects	ECTS 4 5 30
İPFS-BO1	Compulsory Subjects  1. Multimedia technologies 2. Mechatronics systems  Total  Per Semester:  III semester	ECTS 4 5 30 ECTS
İPFS-BO1  Code	Compulsory Subjects  1. Multimedia technologies 2. Mechatronics systems  Total  Per Semester:  III semester  Compulsory Subjects  Business and academic communication in a foreign	ECTS 4 5 30 ECTS

İPF-B09	Theoretical mechanics	6
İPF-B13	Computer graphic	3
111-013	Total	21
	Subjects determined by the higher education institution	
Code	Compulsory Subjects	ECTS
İPFS-BO2	1. Expert systems	5
	2. Descriptive geometry and engineering graphics	-
İPFS-BO3	1. Introduction to robotics	4
	Total	9
	Per Semester:	30
	IV semester	
Code	Compulsory Subjects	ECTS
İPF-B11	Theory of machines and mechanisms	7
İPF-B14	Basics of electrical engineering and electronics	4
İPF-B21	Metrology and certification	5
İPF-B22	Flow mechanics	5
	Total	21
	Subjects determined by the higher education instituti	
Code	Compulsory Subjects	ECTS
İPFS-BO4	1.Web programming	5
<u> </u>	2. Laser and its use	<u> </u>
İPFS-BO5	1. Communication methods	4
	2. Internet technologies  Total	9
	Per Semester:	30
	V semester	30
Code	Compulsory Subjects	ECTS
İPF-B10	The resistance of materials	6
İPF-B16	Basics of automation	4
İPF-B18	Basics of automation  Basics of programming	5
İPF-B23	Engineer economy	4
H1 B23	Total	19
	Subjects determined by the higher education institution	
Code	Compulsory Subjects	ECTS
İPFS-B06	1. Engineering mathematics	6
	2. Systematic analysis	-
İPFS-B07	1. Basics of circuitry	5
	2. Built-in microprocessors	
	Total	11
	Per Semester:	30
	VI semester	
Code	Compulsory Subjects	ECTS
İPF-B12	Materials technology	4
İPF-B17	Machine design	7
İPF-B19	Thermodynamics	4
	Total	. 15
0.1	Subjects determined by the higher education institution	
Code	Compulsory Subjects	ECTS
İPFS-B08	1. Distributed cloud computing	5
İPFS-B09	Corporate information systems     Analytical data processing	5
H I D-D07	2. Basics of cryptography	J
İPFS-B11	1. Materials and processes	5
	A	-

2. Modern programming languages	
Total	15
Per Semester:	30
VII semester	
Compulsory Subjects	ECTS
Materials science	4
Machine production technology	7
Life safety	4
Total	15
Elective subjects in general	
Compulsory Subjects	ECTS
Information technologies	3
Total	3
Subjects determined by the higher education institut	ion
Decision making models     Digital electronics	6
Robotics complexes     Industrial robots	6
Total	12
Per Semester:	30
VIII semester	
Compulsory Subjects	ECTS
Practise	21
Thesis	9
	30
	240
Exam Period: From December 29 To February 1 Holidays: February 2 To February 15	
SUMMER SEMESTER:	
Lessons Start: September 15 Exam Period: From December 29 To February 1 Holidays: February 2 To February 15	
SUMMRT SEMESTER: Lessons Start: July 16 To August 20 Even Period: August 21, 27	
	Total Per Semester: VII semester Compulsory Subjects Materials science Machine production technology Life safety  Total  Elective subjects in general Compulsory Subjects Information technologies  Total  Subjects determined by the higher education institut 1. Decision making models 2. Digital electronics 1. Robotics complexes 2. Industrial robots  Total  Per Semester: VIII semester  Compulsory Subjects Practise Thesis  Per Semester: Total  FALL SEMESTER: Lessons Start: September 15 Exam Period: From December 29 To February 1 Holidays: February 2 To February 15 Exam Period: From December 29 To February 1 Holidays: February 2 To February 1 Holidays: February 2 To February 15 SUMMER SEMESTER: