

**WESTERN CASPIAN UNIVERSITY**

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

**Education Level – Bachelors**

**Study Period- 4 Years**

**Instruction Language – Azerbaijani, Russian and English**

I semester		
Code	Compulsory Subjects	ECTS
ÜF-B02.01	<a href="#">Business and academic communication in a foreign language -1</a>	6
ÜF – B05	Business and academic communication in the Azerbaijani language	4
İPF-B01	<a href="#">Linear algebra and analytical geometry</a>	4
İPF-B05	Physics	8
İPF-B07	Inverse geometry and engineering	5
İPF-B24	<a href="#">Civil Defense</a>	3
	Total	30
	<b>Per Semester:</b>	<b>30</b>
II semester		
Code	Compulsory Subjects	ECTS
ÜF-B01	<a href="#">Azərbaycan History</a>	5
ÜF – B02.02	Business and academic communication in a foreign language -2	6
İPF-B02	<a href="#">Mathematical analysis</a>	8
İPF-B06	Introduction to the specialty	4
	Total	23
Elective subjects in general		
Code	Compulsory Subjects	ECTS
ÜFS-B06	1. Ethics and aesthetics 2. Logic 3. Introduction to multiculturalism 4. <a href="#">Sociology</a> 5. Philosophy 6. <a href="#">Constitution of the Republic of Azerbaijan and bases of law</a>	3
	Total	3
Subjects determined by the higher education institution		
Code	Compulsory Subjects	ECTS
İPFS-BO1	1. <a href="#">Multimedia technologies</a> 2. Mechatronics systems	4
	Total	5
	<b>Per Semester:</b>	<b>30</b>
III semester		
Code	Compulsory Subjects	ECTS
ÜF – B02.03	Business and academic communication in a foreign language -3	3
İPF-B03	Applied mathematics	4
İPF-B04	<a href="#">Chemistry</a>	5
İPF-B09	Theoretical mechanics	6
İPF-B13	Computer graphic	3

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

VII semester		
Code	Compulsory Subjects	ECTS
İPF-B08	<a href="#">Materials science</a>	4
İPF-B15	Machine production technology	7
İPF-B20	Life safety	4
Total		15
Elective subjects in general		
Code	Compulsory Subjects	ECTS
ÜFS-B07	<a href="#">Information technologies</a>	3
Total		3
Subjects determined by the higher education institution		
İPFS-B10	1. Decision making models 2. Digital electronics	6
İPFS-B12	1. Robotics complexes 2. Industrial robots	6
Total		12
<b>Per Semester:</b>		<b>30</b>
VIII semester		
Code	Compulsory Subjects	ECTS
	Practise	21
	Thesis	9
<b>Per Semester:</b>		<b>30</b>
<b>Total</b>		<b>240</b>
<b>FALL SEMESTER:</b>		
<b>Lessons Start: September 15</b> <b>Exam Period: From December 29 To February 1</b> <b>Holidays: February 2 To February 15</b>		
<b>SUMMER SEMESTER:</b>		
<b>Lessons Start: September 15</b> <b>Exam Period: From December 29 To February 1</b> <b>Holidays: February 2 To February 15</b>		
<b>SUMMRT SEMESTER:</b>		
<b>Lessons Start: July 16 To August 20</b> <b>Exam Period: August 21-27</b>		