Western Caspian University FACULTY OF INNOVATIVE ENGINEERING 050629 in Mechatronics and Robotics Engineering EMPLOYEE TRAINING PLAN Education Level - bachelor Study Period - 4 years Instruction Language - Azerbaijani, Russian, 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-BO4	Physics	5		
İF-B18	Computer graphic	5		
İF-B20	Civil defense	3		
	Total	27		
	Elective subjects in general subjects			
Code ÜFS-B04	Compulsory Subjects First block	ECTS 3		
	 Philosophy Introduction to multiculturalism <u>Sociology</u> <u>The Constitution of the Republic of Azerbaijan and the bases of law</u> Logic Ethics and aesthetics 			
	Total	3		
	Per semester	30		
	II semestr			
Code	Compulsory Subjects	ECTS		
ÜF-B01	History of Azerbaijan	5		
ÜF-B02.02	Business and academic communication in a foreign language -2	6		
İF-BO2	Mathematical analysis	8		
İF-BO5	Fundamentals of mechatronics and robotics	6		
	Total	25		
	Subjects determined by the higher education institution			
Code	Compulsory Subjects	ECTS		
ATMF-BO1	<i>I block:</i> 1. <u>Multimedia technologies</u> 2.Mechatronics systems	5		
	Total	5		
	Per semester	30		
	III semester	ECTO		
Code ÜF-B02.03	Compulsory Subjects Business and academic communication in a foreign language -3	ECTS 3		
İF-BO3	Applied mathematics	4		
İF-BO6	Theoretical mechanics	6		
İF-BO7	Basics of programming	7		
	Total	20		

	Subjects determined by the higher education instituti	ion
Code	Compulsory Subjects	ECTS
ATMF-BO2	I.Expert systems	4
	2. Inverse geometry and engineering graphics	· · ·
ATMF-BO6	<i>I. Basics of circuitry</i>	6
	2. Built-in microprocessors	
	Total	10
	Per semester	30
	IV semester	
Code	Compulsory Subjects	ECTS
İF-BO8	Theory of machines and mechanisms	6
İF-BO9	Data structure and algorithms	7
İF-B11	Design of mechatronics and robotics systems	8
	Total	21
	Subjects determined by the higher education instituti	
Code	Compulsory Subjects	ECTS
ATMF-BO3	1.Web programming	4
	2. Laser and its use	
ATMF-BO5	1. Engineering mathematics	5
	2. Systematic analysis	
	Total	9
	Per semester	30
	V semester	
Code	Compulsory Subjects	ECTS
İF-B10	Database systems	7
İF-B12	Electronics	6
İF-B13	Control of robots	6
	Total	19
	Subjects determined by the higher education instituti	
Code	Compulsory Subjects	ECTS
ATMF-B07	1. Optical information systems	5
	2.Engineering design systems	5
ATMF-BO8	1. Distributed cloud calculations	6
	2. Corporate information systems	, v
	Total	11
	Per semester	30
	VI semestr	
Code	Fənnin adı	ECTS
İF-B14	Modeling and simulation of dynamic systems	6
İF-B16	Processing of digital signals and images	7
İF-B17	Sensors and actuators	7
	Total	20
	Subjects determined by the higher education instituti	
Code	Compulsory Subjects	ECTS
ATMF -BO9	1. Analytical processing of data	5
ATMIN-DO7	2. Basics of cryptography	5
ATMF-BO11	1. Materials and processes	5
	2. Modern programming languages	
	Total	10
	Per semester	30
	VII semester	
Code	Compulsory Subjects	ECTS
İF-B15 İF-B19	Automatic control theory	6
IF-B19	Flexible production systems	0

	Total	12		
		12		
0.1	Elective subjects in general subjects	ECTO		
Code	Compulsory Subjects	ECTS		
ÜFS-B05	Second block	3		
	 <u>Information technology (by specialty)</u> Information management 			
	3. <u>Politology</u>			
	4. Basics of entrepreneurship and introduction to business			
	Total	3		
	Subjects determined by the higher education institution	5		
ATMF-BO4	1. Means of communication	5		
	2. Internet technologies			
ATMF-BO10	1. Decision making models	5		
	2. Digital electronics			
ATMF-BO12	1. Robotics complexes	5		
	2. Industrial robots			
	Total	15		
	Per semester	30		
	VIII semester			
Code	Compulsory Subjects	ECTS		
	Experience	21		
	Thesis	9		
	Per semester	30		
	Total	240		
	Fall semester			
	Classes start: September 15			
Exam session: from December 29 to February 1				
	Holidays: February 2 to February 15			
	Summer semester			
	Classes start: February 16			
	Exam session: from June 1 to July 5			
	Vacation: duration is determined by the curriculum (6-10 weeks	s)		
	Summer semester			
	Classes start: July 16 to August 20			
	Exam session: August 21-27			