

## WESTERN CASPIAN UNIVERSITY

**School of High Technologies and Innovative Engineering**  
**050615 Information security**  
**EMPLOYEE TRAINING PLAN**

Education Level –Bachelor

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</a> -1	6
ÜF – B03	Business and academic communication in the Azerbaijani language	4
İF-BO1	<a href="#">Linear algebra and analytical geometry</a>	3
İF-BO7	Introduction to information security	7
İF-B10	<a href="#">Computer architecture</a>	7
İF-B21	<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="#">Azerbaijan History</a>	5
ÜF-B02.02	Business and academic communication in a foreign language -2	6
İF-BO5	Probability theory and mathematical statistics	3
İF-BO6	Physics	5
İF-BO8	Basics of programming	8
Total		27
<i>Elective subjects in general</i>		
Code	Compulsory Subjects	ECTS
ÜFS-B04	1. Philosophy 2. Introduction to multiculturalism 3. <a href="#">Sociology</a> 4. <a href="#">The Constitution of the Republic of Azerbaijan and the bases of law</a> 5. Logic 6. Ethics and aesthetics	3
Total		3
<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
İF-BO2	<a href="#">Mathematical analysis</a>	7
İF-BO9	Operating systems	7
İF-B14	Steganography	6
Total		23
<i>Subjects determined by the higher education institution</i>		
Code	Compulsory Subjects	ECTS
ATMF-BO1	1. <a href="#">Metrology and certification</a>	4

	2. <a href="#">Basics of algorithms</a>	
ATMF-BO2	1. <a href="#">Diagnostics of computers</a> 2. <a href="#">System and application software</a>	3
	Total	7
	<b>Per Semester:</b>	<b>30</b>
<b>IV semester</b>		
Code	Compulsory Subjects	ECTS
IF-BO3	Differential equations	3
IF-BO4	<a href="#">Discrete mathematics</a>	3
IF-B11	Data structure and algorithms	7
IF-B15	Computer graphic	6
IF-B17	Methods and means of information protection (organizational and legal)	5
	Total	24
<b>Subjects determined by the higher education institution</b>		
Code	Compulsory Subjects	ECTS
ATMF-BO3	1. <a href="#">Computer networks</a> 2. Programming technologies	6
	Total	6
	<b>Per Semester:</b>	<b>30</b>
<b>V semester</b>		
Code	Compulsory Subjects	ECTS
IF-B12	<a href="#">Database systems</a>	7
IF-B16	Methods and means of information retrieval	5
IF-B18	Methods and means of information protection (software and hardware)	6
	Total	18
<b>Subjects determined by the higher education institution</b>		
Code	Compulsory Subjects	ECTS
ATMF-BO4	1. Modern programming languages 2. Internet technologies	6
ATMF-BO5	1. <a href="#">Computer modeling</a> 2. Ways to ensure cyber security	6
	Total	12
	<b>Per Semester:</b>	<b>30</b>
<b>VI semester</b>		
Code	Compulsory Subjects	ECTS
IF-B13	Basics of cryptography	8
IF-B19	Risk and incident management	7
	Total	15
<b>Subjects determined by the higher education institution</b>		
Code	Compulsory Subjects	ECTS
ATMF-BO6	1. <a href="#">Distributed data systems</a> 2. <a href="#">Application software packages</a>	5
ATMF-BO7	1. Web programming 2. Design of computer systems	6
ATMF –BO8	1. Security policy 2. Data structure and design	4
	Total	15
	<b>Per Semester:</b>	<b>30</b>
<b>VII semester</b>		
Code	Compulsory Subjects	ECTS
IF-B20	Intelligent data analysis	7
	Total	7

<b><i>Elective subjects in general</i></b>		
Code	Compulsory Subjects	ECTS
ÜFS-B05	1. <a href="#">Information technology (by specialty)</a> 2. Information management 3. <a href="#">Politology</a> 4. Basics of entrepreneurship and introduction to business	3
	Total	3
<b><i>Subjects determined by the higher education institution</i></b>		
ATMF-BO9	1. Systematic analysis 2. Information communication systems	6
ATMF-B10	1. <a href="#">Modern Web programming tools</a> 2. Information security on mobile phones	6
ATMF-B11	1. <a href="#">Theory of automata</a> 2. <a href="#">Cryptographic algorithms in computer systems</a>	4
ATMF-B12	1. <a href="#">Laser and its use</a> 2. Mathematical logic problems	4
	Total	20
	<b>Per Semester:</b>	<b>30</b>
<b>VIII semester</b>		
Code	Compulsory Subjects	ECTS
	Practise	30
	<b>Semestr üzrə:</b>	<b>30</b>
	<b>Total:</b>	<b>240</b>
<b>FALL SEMESTER:</b>		
<b>Lessons Start: September 15 Exam Period:</b> <b>From December 29 To February 1</b> <b>Holidays: February 2 To February 15</b>		
<b>SUMMER SEMESTER:</b>		
<b>Lessons Starts on 16 Feb</b> <b>Exam Period 1 Jun-05 Jul</b> <b>Vocation Period 6-10 Weeks</b>		
<b>SUMMER SEMESTER:</b>		
<b>Lessons Start: July 16 To August 20</b> <b>Exam Period: August 21-27</b>		