

WESTERN CASPIAN UNIVERSITY
FACULTY OF INNOVATIVE ENGINEERING
050620 on the specialty of computer engineering
EMPLOYEE TRAINING PLAN

Education Level –Bachelor
Study Period- 4 Years

Instruction Language – Azerbaijani, Russian and English

| I semester | | |
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| 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 | 3 |
| İF-BO7 | Basics of computer engineering | 8 |
| İF-B15 | Basics of electronics | 6 |
| İF-B20 | Civil defense | 3 |
| | Total | 30 |
| | Per Semester: | 30 |
| II semester | | |
| Code | Compulsory Subjects | ECTS |
| ÜF-B01 | History of Azerbaijan | 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. Sociology 4. The Constitution of the Republic of Azerbaijan and the 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-BO2 | Mathematical analysis | 7 |
| İF-BO9 | Data structure and algorithms | 6 |
| İF-B11 | Operating systems | 8 |
| | Total | 24 |
| <i>Subjects determined by the higher education institution</i> | | |
| Code | Compulsory Subjects | ECTS |
| ATMF-BO1 | 1. Application software package 2. Programming technologies | 6 |

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| | Total | 6 |
| | Per Semester: | 30 |
| IV semester | | |
| Code | Compulsory Subjects | ECTS |
| IF-BO3 | Differential equations | 3 |
| IF-BO4 | Discrete mathematics | 3 |
| IF-B13 | Computer architecture | 8 |
| IF-B14 | Theory of periods | 7 |
| | Total | 21 |
| Subjects determined by the higher education institution | | |
| Code | Compulsory Subjects | ECTS |
| ATMF-BO2 | 1. Simulation of systems 2. Algorithmics and programming | 5 |
| ATMF-BO3 | 1. Diagnostics of computers 2. Basics of robotics | 4 |
| | Total | 9 |
| | Per Semester: | 30 |
| V semester | | |
| Code | Compulsory Subjects | ECTS |
| IF-B10 | Database systems | 7 |
| IF-B12 | Computer networks | 8 |
| IF-B18 | Computer graphic | 5 |
| | Total | 20 |
| Subjects determined by the higher education institution | | |
| Code | Compulsory Subjects | ECTS |
| ATMF-BO4 | 1. Management of industrial production 2. Internet technologies | 5 |
| ATMF-BO5 | 1. Materials science 2. Computer modeling | 5 |
| | Total | 10 |
| | Per Semester: | 30 |
| VI semester | | |
| Code | Compulsory Subjects | ECTS |
| IF-B16 | Digital systems | 7 |
| IF-B17 | Security of computer systems | 8 |
| | Total | 15 |
| Subjects determined by the higher education institution | | |
| Code | Compulsory Subjects | ECTS |
| ATMF-BO6 | 1. Electrical engineering 2. Basics of circuitry | 5 |
| ATMF-BO7 | 1. Communication channels 2. Ways to ensure cyber security | 5 |
| ATMF-BO8 | 1. Web programming 2. Design of computer systems | 5 |
| | Total | 15 |
| | Per Semester: | 30 |
| VII semester | | |
| Code | Compulsory Subjects | ECTS |
| IF-B19 | Computer modeling | 7 |
| | Total | 7 |
| Elective subjects in general | | |
| Code | Compulsory Subjects | ECTS |
| ÜFS-B05 | 1. Information technology (by specialty) 2. Information management | 3 |

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| | 3. Politology | |
| | 4. Basics of entrepreneurship and introduction to business | |
| | Total | 3 |
| Subjects determined by the higher education institution | | |
| ATMF -BO9 | 1. Systematic analysis 2. Information and communication systems | 5 |
| ATMF-BO10 | 1. Modern Web programming tools 2. Information security on mobile phones | 5 |
| ATMF-BO11 | 1. Mathematical logic problems 2. Decision making systems | 5 |
| ATMF-BO12 | 1. Cryptographic algorithms in computer systems 2. Laser and its use | 5 |
| | Total | 20 |
| Per Semester: | | 30 |
| VIII semester | | |
| Code | Compulsory Subjects | ECTS |
| | Practice | 30 |
| 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 | | |