

COURSE STRUCTURE

2025-10105 Computer Engineering (EN) Bachelor

1					
No	Course code	Title	Th	Pr	Ects
1	COMP 167	Fundamentals of computer engineering	2	2+2	8
2	XXX XXX	[NAE] Foreign language II	0	6+0	5
3	XXX XXX	[NAE] Foreign language I	0	6+0	5
4	XXX XXX	[AE] Area elective course I #1	1	1+0	3
5	XXX XXX	[NAE] Non area elective course I #2	2	0+0	3
6	XXX XXX	[AE] Area elective course II #3	2	2+0	6
Subtotal: 30					

2					
No	Course code	Title	Th	Pr	Ects
1	TRX 111	History of Azerbaijan	2	2+0	5
2	AZD 140	Official and Academic Communication in the Azerbaijani language	0	2+0	4
3	IT 128	Fundamentals of programming-1	2	2+0	4
4	PHYS 202	Phyisics	2	2+0	5
5	XXX XXX	[AE] Area elective course III #4	2	2+0	7
6	XXX XXX	[NAE] Foreign language III	0	6+0	5
Subtotal: 30					

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Nº	Course code	Title	Th	Pr	Ects
1	IT 227	Fundamentals of programming-2	2	2+0	4
2	MATH 284	Mathematical analysis	3	2+0	7
3	MATH 136	Linear algebra and analytic geometry	2	1+0	3
4	COMP 232	Data Structures and Algorithms	2	2+0	6
5	EE 306	Circuit Theory	2	2+1	7
6	XXX XXX	[NAE] Non area elective course II #5	2	0+0	3

Subtotal: 30

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Nº	Course code	Title	Th	Pr	Ects
1	COMP 240	Computer Architecture	3	1+2	8
2	EE 228	Basics of Electronics	2	0+2	6
3	COMP 344	Computer Graphics	2	2+0	5
4	XXX XXX	[AE] Area elective course V #7	2	2+0	5
5	XXX XXX	[AE] Area elective course IV #6	2	2+0	6

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	MM 120	Civil Defence	3	0+0	3
2	MATH 235	Differential equations	2	1+0	3
3	COMP 383	Operating systems	2	2+2	8
4	XXX XXX	[AE] Area elective course VII #9	2	2+0	6
5	XXX XXX	[AE] Area elective course VI #8	2	2+0	5
6	XXX XXX	[AE] Area elective course VIII #10	2	2+0	5

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	COMP 381	Database systems	2	2+1	7
2	COMP 229	Digital Systems	3	0+2	7
3	COMP 333	Computer networks	2	2+2	8
4	MATH 275	Discrete mathematics	2	1+0	3
5	XXX XXX	[AE] Area elective course IX #11	2	2+0	5

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	COMP 421	Computer modeling	3	2+0	7
2	COMP 427	Security of computer systems	4	2+0	8
3	MINF 461	Probability theory and mathematical statistics	2	1+0	3
4	XXX XXX	[AE] Area elective course X #12	2	2+0	6
5	XXX XXX	[AE] Area elective course XI #13	2	2+0	6

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	COMP 480	Internship	0	0+0	30

Subtotal: 30

Total ECTS credits: **240**

AE - Area Elective Courses

№	Course code	Title	Th	Pr	Ects
1	ECON 156	Engineering economics	1	1+0	3
2	BA 250	Fundamentals of management	1	1+0	3
3	CS 111	Mathematical programming	2	2+0	6
4	COMP 154	Web systems and technologies	2	2+0	6
5	COMP 242	Computer Aided Design	2	2+0	7
6	COMP 178	Graphic design	2	2+0	7
7	IT 453	Artificial intelligence	2	2+0	6
8	COMP 248	Robotics	2	2+0	6

9	IT 230	Object Oriented Programming	2	2+0	5	
10	COMP 254	Simulation of systems	2	2+0	5	
11	COMP 339	Embedded systems	2	2+0	5	
12	COMP 203	Theory of formal languages and self-acting	2	2+0	5	
13	IT 317	Modern Programming Languages- 1	2	2+0	6	
14	IT 319	Mobile application development- 1	2	2+0	6	
15	IT 325	Machine Learning	2	2+0	5	
16	COMP 413	Data Mining and Storing	2	2+0	5	
17	IT 348	Modern Programming Languages- 2	2	2+0	5	
18	IT 350	Modern Programming Languages- 2	2	2+0	5	
19	COMP 328	Internet Technologies	2	2+0	6	
20	COMP 435	System programming	2	2+0	6	
21	IT 447	Database programming	2	2+0	6	
22	IT 487	Data analytics and information management	2	2+0	6	

<u>NAE - Non-Area Elective Courses</u>						
No	Course code	Title	Th	Pr	Ects	
1	LAW 112	Constitution of the Republic of Azerbaijan and fundamentals of law	2	0+0	3	
2	PHIL 140	Philosophy	2	0+0	3	
3	SOC 111	Sociology	2	0+0	3	
4	SOC 185	Ethics and aesthetics	2	0+0	3	
5	SOC 155	Introduction to Multiculturalism	2	0+0	3	
6	PHIL 150	Logic	2	0+0	3	
7	IT 255	Information technologies	2	0+0	3	
8	BA 248	Principles of Entrepreneurship and Introduction to Business	2	0+0	3	
9	PLT 101	Political science	2	0+0	3	
10	IT 251	Information management	2	0+0	3	
11	ENG 040	English for business and academic communication-3 (for academic purposes)	0	6+0	5	
12	ENG 015	English for business and academic communication-1 (reading- writing)	0	6+0	5	
13	ENG 025	English for business and academic communication-2 (listening comprehension)	0	6+0	5	

