MINISTRY OF EDUCATION OF THE REPUBLIC OF AZERBAIJAN

FORM 1

NAKHCHIVAN STATE UNIVERSITY

I confirm:
Rector of Nakhchivan State University,
E. Isayev

"___" "____________" 2025 year

Code and name of specialization (specialization):
6006028 – Computer engineering specialty
Study period 4 years (8 semesters) Full-time – 240 credits

Curriculum

(for undergraduate level)

I GRAPHIC OF THE EDUCATIONAL PROCESS

Academic years	September				29.IX - 5.X	October			27.X - 2.XI	November				December				29.XII- 4.I	January			26.I- 1.II	February			23. II- 1.III	March				30.III - 5.IV	April			27.IV - 3.V	May				June				29.VI - 5.VII	July			27. -1.VIII	August			
	1 7	8 14	15 21	22 28		6 12	13 19	20 26		3 9	10 16	17 23	24 30	1 7	8 14	15 21	22 28		5 11	12 18	19 25		2 8	9 15	16 22		2 8	9 15	16 22	23 29		6 12	13 19	20 26		4 10	11 17	18 24	25 31	1 7	8 14	15 21	22 28		6 12	13 19	20 26		2 8	9 15	16 22	23 31
I	.	.																::	::	::	::	::	=	=																::	::	::	::	::	=	=	=	=	=	=	=	=
II	=	=																::	::	::	::	::	=	=																::	::	::	::	::	=	=	=	=	=	=	=	=
III	=	=																::	::	::	::	::	=	=																::	::	::	::	::	=	=	=	=	=	=	=	=
IV	=	=																::	::	::	::	::	=	=	X	X	X	X	X	X	X	X	X	X	//	//	//	//	//	//	//	//	//	//								

Courses	Theoretical training	Works practice	Iindustrial experience	Holiday	Before the state exam	sum
I	30	10		10		50
II	30	10		12		52
III	30	10		12		52
IV	15	5	15	4		44
Cəm	105	35	15	38		198

CONVENTIONAL MARKS:

THEORETICAL TRAINING	EXAMINATION SESSION	PRACTICE	FINAL STATE CERTIFICATION	HOLIDAY
	::	X	//	=

II. PLAN OF THE EDUCATIONAL PROCESS

Row №			Cr	To			Including				

	Password of the subject	Name of subjects			Hours outside the auditorium	Auditorium hours	Lecture	Seminar exercise	Laboratory	Code of prerequisite subjects	Code of co-requisite (parallel teaching) subjects	Semester in which the subject is taught (fall or spring)	Weekly course load
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	ES-00	**Economic and Human Skills**	**19**	**570**	**350**	**220**	**114**	**106**					
1	ES-01	Economics	4	120	74	46	24	22				1	3
2	ES-02	Management	4	120	74	46	30	16				3	3
3	ES-03	Basics of Law	5	150	92	58	30	28				7	3
4	ES-04	Business Economics	5	150	92	58	30	28				7	3
5	ES-05	Soft Skills 1	1	30	18	12		12				3	0.5
	SS-0	**Science**	**37**	**1110**	**682**	**456**	**210**	**202**	**44**				
1	SS-01-01	Mathematics for Computer Science 1	5	150	92	58	30	28				1	3
2	SS-02	Basic Mathematics	0			28		28				1	3
3	SS-03-01	**Calculus 1**	5	150	92	58	30	28				1	**3**
4	SS-04	Physics	5	150	92	58	30	28				1	3
5	SS-05	Electricity	4	120	74	46	30	16				2	3
5.1	SS-03-02	Calculus 2	4	120	74	46	30	16		Calculus 1, Basic Mathematics SS-02, SS-03-01		2	3
	SS-06	Algorithms and Data Structures	4	120	74	46	30		16			2	3
1	SS-07	Probability and Statistics	5	150	92	58	30	28		Calculus 2 SS-03-02		3	3
	SS-01-02	Mathematics for Computer Science 2	5	150	92	58		30	28	Mathematics for Computer Science 1 Calculus 1 SS-01-01, SS-03-01		4	4
2	CPSM-00	**Courses of the professional core material**	**85**	**2550**	**1568**	**982**	**512**	**84**	**386**				
3	CPSM-01-01	Digital Electronics 1	3	90	56	34	18	16				1	2
4	CPSM-02	Computer Networking Fundamentals	4	120	74	46	24		22			1	3

5	CPSM-03-01	Programming 1	4	120	74	46	24		22			1	3
3.1	CPSM-01-02	Digital Electronics II.	2	60	36	24			24	Digital Electronics I. CPSM-01-01		2	2
6	CPSM-04	Introduction to Microprocessor Systems	4	120	74	46	24	22		Digital Electronics I. CPSM-01-01		2	3
4.1	CPSM-03-02	Programming II.	4	120	74	46	24		22	Programming I CPSM-03-01		2	3
7	CPSM-04	Computer Architectures I.	5	150	92	58	30		28	Digital Electronics I. CPSM-01-01		2	3
8	CPSM-05	Databases	4	120	74	46	24		22			3	3
9	CPSM-06	Signals and Systems	4	120	74	46	24	22		Electricity, Physics SS-04 SS-05		3	3
10	CPSM-07	Operating Systems	4	120	74	46	24		22	Computer Architectures I CPSM-04		3	3
11	CPSM-08	Programming Paradigms and Techniques	5	150	92	58	30		28	Programming I. Algorithms and Data Structures CPSM-03-01, SS-06		3	3
12	CPSM-09	Comprehensive Exam in Programming Prerequisites:	0							Programming 1, Programming 2, Algorithms and Data Structures Parallel condition: Programming Paradigms and Techniques CPSM-03-01, CPSM-03-02 SS-06 CPSM-08		3	

13	CPSM-10	Database Systems	4	120	74	46	24		22	Databases, Programming I. CPSM-05 CPSM-03-01,		4	3
14	CPSM-11	Introduction to Information System Security	3	90	56	34	34					4	2
14	CPSM-12	Linear Control Systems	4	120	74	46	24	22		Signals and Systems CPSM-06		4	3
15	CPSM-13	Enterpise Resource Planning Systems 1	4	120	74	46	24		22	Databases CPSM-05		4	3
16	CPSM-14	Visual Programming	5	150	92	58	30		28	Programming Paradigms and Techniques CPSM-08		4	3
17	CPSM-15	Web Programming 1	5	150	92	58	30		28	Programming I. CPSM-03-01,		4	3
18	CPSM-16	Advanced Programming Techniques	5	150	92	58	30		28	Programming Paradigms and Techniques CPSM-08		5	3
19	CPSM-17	Software Engineering	6	180	112	68	34		34	Programming Paradigms and Techniques CPSM-08		6	4
20	CPSM-18	IT Project	6	180	112	68	34		34	110 cr		6	4
	OTS-00	Other courses	**6**	**180**	**112**	**96**		**96**					
1	OTS-01	Physical Education 1	**0**			28		28				3	2
2	OTS-02	Physical Education 2	**0**			28		28				4	2

3	OTS-03-01	English for Computer Science 1	**3**	90	56	34		34				2	2
3.1	OTS-03-02	English for Computer Science 2	**3**	90	56	34		34		English for Computer Science 1 OTS-03-01		3	2
	OPS-00	**Optional courses**	**15**	**450**	**276**	**174**	**90**		**84**				
1	OPS-01	Machine Learning	**5**	150	92	58	30		28	1**(Introduction to Artificial Intelligence+ 100 cr)**		7	4
2	OPS-02	Computer Graphics	**5**	150	92	58	30		28	100 cr		7	4
3	OPS-03	Cryptography and Information Security	**5**	150	92	58	30		28	**Introduction to Information System Security +100 cr** CPSM-11 +100cr		7	4
	İİSS-00	**Industrial Informatics Specialization**	**48**	**1440**	**888**	**552**	**282**		**270**				
1	İİSS-01	a) Computer Architectures 2	5	150	92	58	30		28	Computer Architectures 1 + 100 cr CPSM-04 +100cr		5	4
		b) Network Administration 1	5	150	92	58	30		28	100 cr			4
		c) Java Applications	5	150	92	58	30		28	Programming Paradigms and Techniques + 100 cr CPSM-08+			4
2	İİSS-02	a) Industrial Robotics	5	150	92	58	30		28	Calculus 1 + 100 cr SS-03-01 100 cr			4

		b) Network Security	5	150	92	58	30		28	100 cr		5	4
		c) Server-Side Applications	5	150	92	58	30		28	100 cr			4
3	İİSS-03	a) Electronics	5	150	92	58	30		28	Signals and Systems + 100 cr CPSM-06+ 100 cr		5	3
		b) Network Configuration and Management Computer	5	150	92	58	30		28	Networking Fundamentals + 100 cr CPSM-02 + 100 cr			3
		c) Developing Mobile Applications 1	5	150	92	58	30		28	100 cr			3
4	İİSS-04	a) Development of Microcontroller Based	5	150	92	58	30		28	Systems Introduction to Microprocessor Systems +100 cr CPSM-04 +100 cr		5	4
		b) Enterpise Resource Planning Systems 2	5	150	92	58	30		28	Enterpise Resource Planning Systems 2 + 100 cr CPSM-13+ 100 cr			4
		c) Introduction to Artificial Intelligence	5							Web Programming 1 + 100 cr CPSM-15 + 100 cr			4
5	İİSS-05	a) Industrial Information	5	150	92	58	30		28	Systems Signals and Systems + 100 cr CPSM-06+ 100 cr			4

		b) Cloud based Services	5	150	92	58	30		28	100 cr		5	4
		c) Web Programming 2	5	180	112	68	34		34	Java Applications + 100 cr			4
6	İİSS-06	a) Introduction to Artificial Intelligence	6	180	112	68	34		34	100 cr		6	4
		b) Introduction to Artificial Intelligence	6	180	112	68	34		34	100 cr			4
		c) Cloud based Services	6	180	112	68	34		34	100 cr			4
7	İİSS-07	a) Industrial Image Processing	6	180	112	68	34		34	Calculus 2 +100 cr		6	5
		b) Network Administration 2	6	180	112	68	34		34	100 cr			5
		c) Developing Mobile Applications 2	6	180	112	68	34		34	Introduction to Artificial Intelligence + 100 cr CPSM-11 +100cr			5
8	İİSS-08	a) Digital Signal Processing	6	180	112	68	34		34	Calculus 2 +100 cr SS-03-02+100 cr		6	5
		b) Ethical Hacking	6	180	112	68	34		34	100 cr			5
		c) Game Development	6	180	112	68	34		34	Web Programming 1 + 100 cr CPSM-15 + 100 cr			5
9	İİSS-09	a) Industrial Robotics 2	5	150	92	58	30		28	Industrial Robotics 1 + 100 cr		7	4
		b) IT Service Management	5	150	92	58	30		28	100 cr			4

		c) Application Development Using Web Technologies	5	150	92	58	30		28	Web Programming 1 CPSM-15			4
		Total	**210**	**6300**	**3876**	**2480**	**1208**	**488**	**784**				
1		Practice	15									8	
1		Final Thesis	15									8	
			30										
		Total sum	**240**										

The duration of the internship is 1.5 credits

III TRAINING INFORMATION

Academic year	Theoretical training	Exam session	Practice	The final state certification	Holiday
I	30 weeks	10 weeks			10 weeks
II	30 weeks	10 weeks			12 weeks
III	30 weeks	10 weeks			12 weeks
IV	15 weeks	5 weeks	10 weeks (15 credits)		4 weeks
Total:	105 weeks	35 weeks	10 weeks (15 credits)		38 weeks

Offers:
Vice-rector for education and training:

Dean of the Faculty of Architecture and Engineering: **J. Zeynalov**

Head of the Chair Electronics and information technologies: