

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

TRAINING SCHEDULE

Row №	Password of the subject	Name of subjects	Credit number	Code of prerequisite subjects	Code of co-requisite (parallel teaching) subjects	Semester in which the subject is taught (fall or spring)
I academic year						
1.	ES-01	Economics	4			1
2.	SS-01-01	Mathematics for Computer Science 1	5			1
3.	SS-02	Basic Mathematics	0			1
4.	SS-03-01	Calculus 1	5			1
5.	SS-04	Physics	5			1
6.	CPSM-01-01	Digital Electronics I	3			1
7.	CPSM-02	Computer Networking Fundamentals	4			1
8.	CPSM-03-01	Programming I	4			1
9.	SS-05	Electricity	4			2
10.	SS-03-02	Calculus 2	4	Calculus 1, Basic Mathematics SS-02 SS-03-01		2
11.	SS-06	Algorithms and Data Structures	4			2
12.	CPSM-01-02	Digital Electronics II	2	Digital Electronics I. CPSM-01-01		2
13.	CPSM-04	Introduction to Microprocessor Systems	4	Digital Electronics I. CPSM-01-01		2
14.	CPSM-03-02	Programming II	4	Programming I CPSM-03-01		2
15.	CPSM-04	Computer Architectures I	5	Digital Electronics I. CPSM-01-01		2
16.	OTS-03-01	English for Computer Science 1	3			2
II academic year						
1.	ES-02	Management	4			3
2.	ES-05	Soft Skills 1	1			3
3.	SS-07	Probability and Statistics	5	Calculus 2 SS-03-02		3
4.	CPSM-05	Databases	4			3
5.	CPSM-06	Signals and Systems	4	Electricity, Physics SS-04 SS-05		3
6.	CPSM-07	Operating Systems	4	Computer Architectures I CPSM-04		3
7.	CPSM-08	Programming Paradigms and Techniques	5	Programming I. Algorithms and Data Structures CPSM-03-01, SS-06		3
8.	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

9.	OTS-01	Physical Education 1	0			3
10.	OTS-03-02	English for Computer Science 2	3	English for Computer Science 1 OTS-03-01		3
11.	SS-01-02	Mathematics for Computer Science 2	5	Mathematics for Computer Science 1 Calculus 1 SS-01-01, SS-03-01		4
12.	CPSM-10	Database Systems	4	Databases, Programming I CPSM-05 CPSM-03-01		4
13.	CPSM-11	Introduction to Information System Security	3			4
14.	CPSM-12	Linear Control Systems	4	Signals and Systems CPSM-06		4
15.	CPSM-13	Enterprise Resource Planning Systems 1	4	Databases CPSM-05		4
16.	CPSM-14	Visual Programming	5	Programming Paradigms and Techniques CPSM-08		4
17.	CPSM-15	Web Programming 1	5	Programming I. CPSM-03-01,		4
18.	OTS-02	Physical Education 2	0			4
III academic year						
1.	İİSS-01	a) Computer Architectures 2	5	Computer Architectures 1 + 100 cr CPSM-04 +100cr		5
		b) Network Administration 1	5	100 cr		5
		c) Java Applications	5	Programming Paradigms and Techniques + 100 cr CPSM-08+ 100 cr		5
2.	İİSS-02	a) Industrial Robotics	5	Calculus 1 + 100 cr SS-03-01 100 cr		5
		b) Network Security	5	100 cr		5
		c) Server-Side Applications	5	100 cr		5
3.	İİSS-03	a) Electronics	5	Signals and Systems + 100 cr CPSM-06+ 100 cr		5
		b) Network Configuration and Management Computer	5	Networking Fundamentals + 100 cr CPSM-02 + 100 cr		5
		c) Developing Mobile Applications 1	5	100 cr		5
4.	İİSS-04	a) Development of Microcontroller Based	5	Systems Introduction to Microprocessor Systems +100 cr CPSM-04 +100 cr		5
		b) Enterprise Resource Planning Systems 2	5	Enterprise Resource Planning Systems 2 + 100 cr CPSM-13+ 100 cr		5
		c) Introduction to Artificial Intelligence	5	Web Programming 1 + 100 cr CPSM-15 + 100 cr		5
5.	İİSS-05	a) Industrial Information	5	Systems Signals and Systems + 100 cr CPSM-06+ 100 cr		5
		b) Cloud based Services	5	100 cr		5
		c) Web Programming 2	5	Java Applications + 100 cr		5
6.	CPSM-16	Advanced Programming Techniques	5	Programming Paradigms and Techniques CPSM-08		5

7.	CPSM-17	Software Engineering	6	Programming Paradigms and Techniques CPSM-08		6
8.	CPSM-18	IT Project	6	110 cr		6
9.	İİSS-06	a) Introduction to Artificial Intelligence	6	100 cr		6
		b) Introduction to Artificial Intelligence	6	100 cr		6
		c) Cloud based Services	6	100 cr		6
10.	İİSS-07	a) Industrial Image Processing	6	Calculus 2 +100 cr		6
		b) Network Administration 2	6	100 cr		6
		c) Developing Mobile Applications 2	6	Introduction to Artificial Intelligence + 100 cr CPSM-11 +100cr		6
11.	İİSS-08	a) Digital Signal Processing	6	Calculus 2 +100 cr SS-03-02+100 cr		6
		b) Ethical Hacking	6	100 cr		6
		c) Game Development	6	Web Programming 1 + 100 cr CPSM-15 + 100 cr		6
IV academic year						
1.	ES-03	Basics of Law	5			7
2.	ES-04	Business Economics	5			7
3.	OPS-01	Machine Learning	5	1(Introduction to Artificial Intelligence+100 cr)		7
4.	OPS-02	Computer Graphics	5	100 cr		7
5.	OPS-03	Cryptography and Information Security	5	Introduction to Information System Security +100 cr CPSM-11 +100cr		7
6.	İİSS-09	a) Industrial Robotics 2	5	Industrial Robotics 1 + 100 cr		7
		b) IT Service Management	5	100 cr		7
		c) Application Development Using Web Technologies	5	Web Programming 1 CPSM-15		7
7.		Practice	15			8
8.		Final Thesis	15			8