ODLAR YURDU UNIVERSITY

2024/2025 Academic Year

CURRICULUM SCHEDULE

Specialty: 050615 - Information Security

No.	Subject Name	Credit	Semester	Total Hours
1.	Business and Academic Communication in a Foreign Language - 1	8	1	/90
2.	Business and Academic Communication in Azerbaijani Language	4	1	30/15
3.	Mathematical Analysis	6	1	30/30
4.	Fundamentals of Information Security	6	1	45/30
5.	Fundamentals of Programming	6	1	15/15/30
	Total	**30 credits**		**22**
6.	Business and Academic Communication in a Foreign Language - 2	7	2	/90
7.	History of Azerbaijan	5	2	30/15
8.	Linear Algebra	6	2	30/30
9.	Fundamentals of Networking	6	2	15/30/30
10.	Fundamentals of Cybersecurity	6	2	15/15/30
	Total	**30 credits**		**22**
11.	Discrete Mathematics	5	3	30/30
12.	Network Security	5	3	15/15/30
13.	Operating Systems	5	3	30/30
14.	Subjects Determined by the University: * Algorithm Design and Analysis * Software Engineering * Social Engineering	6	3	30/30
15.	Subjects Determined by the University: * Web Programming * Programming for Mobile Devices * Digital Transformation	6	3	30/30

No.	Subject Name	Credit	Semester	Total Hours
16.	Elective Subject: * Psychology * Fundamentals of Entrepreneurship and Introduction to Business * Sociology	3	3	15/15
	Total	**30 credits**		**22**
17.	Subjects Determined by the University: * Cyber Attack Tools and Methods * Coding Theory * Applied Statistics and Data Analytics	5	4	/15/30
18.	Probability Theory	5	4	30/15
19.	Web Security	5	4	30/30
20.	Legal Aspects of Information Security and Cybersecurity	5	4	30/30
21.	Subjects Determined by the University: * System Programming * Data Structures and Algorithms * Corporate Network (Information) Systems Security	5	4	30/30
22.	Subjects Determined by the University: * Cloud Technologies * Security of Mobile and Wireless Devices * System Design	5	4	30/30
	Total	**30 credits**		**22**
23.	Cloud Security	5	5	30/30
24.	Information Security Management Systems	5	5	30/30
25.	Database Security	5	5	30/30
26.	Civil Defense	3	5	30/
27.	Subjects Determined by the University: * Data Mining * Social Network Analysis * Mathematical Logic	6	5	30/30
28.	Subjects Determined by the University: * Parallel and Distributed Computing * Blockchain Technologies * Fundamentals of Digital Image and Video Processing	6	5	30/30
	Total	**30 credits**		**22**

No.	Subject Name	Credit	Semester	Total Hours
29.	Fundamentals of Cryptography	5	6	30/30
30.	Fundamentals of Penetration Testing	8	6	15/30/30
31.	Fundamentals of Electronics and IoT Security	5	6	30/15/15
32.	Subjects Determined by the University: * Malware Analysis * Security Equipment * Computer Graphics	7	6	45/30
33.	Subjects Determined by the University: * Machine Learning * Neural Networks * Graph Theory	5	6	30/30
	Total	**30 credits**		**22**
34.	Elective Subject: * Engineering Ethics * Critical Thinking * Education and Career Planning	3	7	15/15
35.	Secure Programming	5	7	30/30
36.	Security of Industrial Control Systems	5	7	30/30
37.	Fundamentals of Digital Forensics	8	7	60/30
38.	Subjects Determined by the University: * Security of Electronic Commerce Systems * Data Communication * Software Project Management	5	7	30/15
39.	Subjects Determined by the University: * Artificial Intelligence * Fuzzy Logic and Decision Making * Fundamentals of Data Center Operations	4	7	30/15
	Total	**30 credits**		**22**
40.	Internship	30	8	
	Total	**30 credits**		