

050604 - Device Engineering

Nº	Name of the Subject	Planned Semester for Teaching the Subject
	General Subjects	
1	Azerbaijani History	P-1
2	Professional and Academic Communication in Azerbaijani	P-1
3	Professional and Academic Communication in Foreign Language - 1	P-1
4	Professional and Academic Communication in Foreign Language - 2	Y-1
5	Professional and Academic Communication in Foreign Language - 3	P-2
6	Professional and Academic Communication in Foreign Language - 4	Y-2
	Elective Courses: (General Subjects)	
7	Philosophy	P-2
	Sociology	
	Constitution of the Republic of Azerbaijan and Fundamentals of Law	
	Logic	
	Ethics and Aesthetics	
	Introduction to Multiculturalism	
8	Information Technologies (Specialization)	P-3
	Management of Information	
	Fundamentals of Entrepreneurship and Introduction to Business	
	Political Science	
	The professional training subjects of the specialization (program).	
9	Linear Algebra and Analytical Geometry	P-1
10	Mathematical Analysis-1	Y-1
11	Mathematical Analysis-2	P-2
12	Applied Mathematics	Y-2
13	Fundamentals of Physics	Y-1
14	Applied Physics	P-2
15	Chemistry	P-1
16	Fundamentals of Hardware and Software for Computer Systems	P-1
17	Engineering Graphics and Design	Y-1
18	Electrical Engineering	Y-1
19	Mechanical Engineering	Y-2
20	Electronics and Circuit Design	Y-2
21	Computer-Based Device Engineering	Y-2
22	Quality Control and Metrology	P-2
23	Measurement Technologies	P-3

24	Industrial Equipment	P-4
25	Material Science	Y-1
26	Microprocessors and Microcontrollers	Y-3
27	Fundamentals of Instrumentation Technology	P-3
28	Automated Design Systems for Devices	Y-3
29	Physical Principles of Information Acquisition, Modern Sensors, and Transducers	Y-3
30	Civil Defense	P-4
	Selected Subjects for Professional Preparation:	
31	Technical Foreign Language	P-3
	Foreign Language for Engineers	
	Specialized Foreign Language	
32	Project Management	P-3
	Modern Management Approaches	
	Development Management	
	Organizational Theory	
33	Biomechanics	P-2
	BioMedical Devices, Systems, and Complexes	
	Optoelectronic Devices	
34	Automated Design Systems for Device Manufacturing Processes	P-4
	Customs Control Methods and Devices for Gas, Oil Products, and Radioactive Metals	
	Control Devices for Artworks and Antiques	
35	Laser Technology and Engineering	P-4
	Fundamentals of Measurement Techniques	
	Control Methods and Devices for Documents, Securities, and Currency	
36	Device Technology	P-3
	Design of Device Systems	
	Customs Control Methods and Devices for Metals, Ores, Particles, and Sprouts	
37	BioMedical Instruments	Y-2
	Analysis Systems for Electrophysiological Signals	
	BioMedical Signals, their Processing, and Analysis	
38	Technological Equipment and Tools	Y-3
	Manufacturing Technology of Device Components	
	Technical Tools for Import-Export System	
39	Biophysics and Mutual Interaction of Bioobjects with Physical Fields	Y-3
	Safety and Reliability of Medical Equipment	
	Computerized BioMedical Devices	

40	Assembly and Testing Technologies in Device Manufacturing	P-4
	Agile Manufacturing Systems in Device Manufacturing	
	Project Planning in Device Manufacturing Areas	