

CURRICULUM

Educational and Qualification Degree BACHELOR

Degree course "Automation, Information and Controlling Equipment"

Professional Branch: 5.2 "Electrical Engineering, Electronics and Automation'
 Professional Qualification: AUTOMATION ENGINEER
 Type of Training: FULL-TIME
 Period of Training: 4 YEARS

First academic semester duration - 13 weeks

Second academic semester duration -14 weeks

Duration of the second academic semester of the fourth year -13 weeks

Year	Semester	No number	Subject code	Full name of the subjects (course projects, practical training)	Form of control Examination (E)/ Process of Continuous assessment (PCA)	Teaching hours, weekly		Total hours for the semester	ECTS	
						L	PE			
F I R S T S E C O	F i r s t	1	361101	Mathematics – Part I	E	2	3	65	5.4	
		2	361102	Mathematics – Part II	E	3	A	91	7.5	
		3	351102	Science of Machines and Technical Drawing	E	3	3	78	8.4	
		4	371140	Programming and Computing	PCA	2	4	78	6.4	
		5		Eligible:	PCA	0	4	52	4.3	
			421201	a. English Language						
			421202	b. German Language						
			421203	c. French Language						
		421204	d. Russian Language							
		8	431143	Sport			C 2)			
	Total for the first semester						10	18	364	30
		S E C O	7	361103	Mathematics – Part III	E	3	3	84	7.1
			8	181101	Physics	E	4	3	98	8.2
			9	341101	Theoretical Electrical Engineering – Part I	E	3	2	70	5.3
			10	331120	Methods for Engineering Research	E	2	2	56	4.7
	11			Eligible:	PCA	0	2	28	2.4	
			421201	a. English Language						
			421202	b. German Language						
		421203	c. French Language							

N D		421204	d. Russian Language							
	12	431143	Sport			C2)	(28)			
	13	371151	Practical Training on Programming and Computing	PCA			50	1.7		
	Total for the second semester					12	12	386	30	
Total for the first year					22	30	750	80		
S E C O N D	F I R S T	14	341102	Theoretical Electrical Engineering – Part II	E	3	3	78	6.9	
		15	341105	Electrical Measurements	E	3	2	65	5.8	
		16	281101	Technical Mechanics	E	3	2	65	5.8	
		17	331131	Theory of Automation Management – Part I	E	3	3	78	6.9	
		18	351108	Science of Materials	E	3	1	52	4.6	
		19	431143	Sport			(2)	(26)		
	Total for the first semester					15	11	338	30	
	S E C O N D	D	20	341112	Electromechanical Devices	E	4	2	84	5.7
			21	331132	Theory of Automation Management – Part II	E	3	2	70	4.8
			22	211113	Technology of Mine Production	E	3	1	56	3.8
			23	341106	Semiconducting Elements	E	3	3	84	5.7
			24	331110	Impulse and Digital Circuit Engineering	E	3	2	70	4.7
			25		Eligible:	TO	2	1	42	2.8
				413202	a. Logics					
				413206	b. Culturology					
				413201	c. History of Philosophy					
				413253	d. Philosophical Anthropology					
		26	431143	Sport			(2)	(28)		
		27	331141	Practical Training on Applied Information Technologies and CAD systems	PCA			75	2.5	
Total for the second semester					18	11	481	30		
Total for the second year					33	22	819	60		

T H I R D	F I R S T	28	331111	Identification	E	3	2	65	5.2	
		29	331101	Automation Electrical Drive	E	3	3	78	6.2	
		30	331112	Measurement of Non-electrical Quantities	E	3	2	65	5.1	
		31	331116	Microprocessor Technique	E	3	2	65	5.1	
		32	321118	Information and Communication Technique	E	2	2	52	4.2	
		33	331128	Power Electronics	E	2	2	52	4.2	
	Total for the first semester					16	13	377	30	
	S E C O N D	D	34	331102	Automation of Technological Processes	E	4	2	84	6.1
			35	331117	Optimization of Technological Objects	E	2	2	56	4.0
			36	331133	Technical Devices for Automation	E	3	2	70	5.1
			37	311138	Mining Mechanization – Part I	E	2	2	56	4.1
			38	311139	Mining Mechanization – Part II	E	2	2	56	4.1
			39	331135	Management of Electrical Drive	E	2	2	56	4.1
			40	331142	Practical Training on Technical Devices and Mines Automation	PCA			75	2.5
	Total for the second semester					15	12	453	30	
	Total for the third year					31	25	830	60	

F O U R T H	FIR ST	41	331105	Automation of Mining Static Equipment	E	3	3	78	6.2	
		42	331106	Automation of Mineral Processing Plants	E	3	2	65	5.2	
		43	331115	Computer Systems of Control	E	3	3	78	6.2	
		44	331123	Applied Software	E	2	4	78	6.2	
		45	271119	Economics and Management	PCA	4	2	78	6.2	
	Total for the first semester						15	14	377	30
	SE CO ND	46	261102	Technical Safety	E	2	2	52	4.7	
		47	331107	Automation of Mining and Transport Machines	E	3	2	65	5.9	
		48	321117	Mining Electrical Engineering and Electrical Supply	E	3	2	65	5.9	
		49	171126	Ecology and Environmental Protection	PCA	2	1	39	3.5	
				Diploma Paper					10	
	Total for the second semester						10	7	221	30
	Total for the fourth year						25	21	598	60