



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Elective subjects (Vocational education)</b>			<b>60</b>	<b>1800</b>	<b>1200</b>	<b>600</b>	<b>270</b>	<b>150</b>	<b>180</b>					
29	VTES-B01	I group: 1) Analog and digital measurement devices; 2) Types and detection of defects; 3) Metrology aspect of measurement devices; 4) Human anatomy and physiology; 5) Optic and optoelectronic devices	10	300	225	75	30	15	30				4	5
30	VTES-B02	II group: 1) Analytic devices; 2) Quality control and diagnostics; 3) Applied metrology, calibration; 4) Biomedical electronics, Micro and nano-transducers; 5) Sensors and devices of food technology	9	270	180	90	30	30	30				5	6
31	VTES-B03	III group: 1) Digital signal processing; 2) Fundamentals of non-destructive monitoring; 3) Standardization and certification; 4) Biomedical technical methods and instruments. Introscopy; 5) Fundamentals of PLC	6	180	135	45	30		15	cw			6	3
32	VTES-B04	IV group: 1) Systems modeling and simulation; 2) Non-destructive monitoring and diagnostic devices; 3) PLC and SCADA in process control and monitoring; 4) Biosensors MEMS and BioRobotics; 5) Security system devices	6	180	120	60	30		30				6	4
33	VTES-B05	V group: 1) Automation of measurement processes (Lab View); 2) Design of DCS based systems in technological processes ; 3) Fundamentals of interchangeability; 4) Design of biomedical systems; 5) Customs control and diagnostic systems	7	210	120	90	30	30	30	cw			7	6
34	VTES-B06	VI group: 1) Modern information-measurement systems; 2) Modern non-destructive monitoring systems; 3) Qualimetry and quality management; 4) Biomedical signal processing and analysis; 5) Telemetry and telecontrol devices and systems	8	240	165	75	30	15	30				7	5
35	VTES-B07	VII group: 1) Industrial robots; 2) Java and C++; 3) Probability theory and statistics; 4) Artificial Intelligence (Machine, Deep Learning); 5) Environmental monitoring systems and devices	6	180	120	60	30	15	15				7	4
36	VTES-B08	VIII group: 1) Technical foreign language; 2) Classical and fuzzy logic	3	90	60	30		30					7	2
37	VTES-B09	IX group: HSE	2	60	30	30	30						6	2
38	VTES-B10	X group: Project management	3	90	45	45	30	15					6	3
<b>Total</b>			<b>210</b>	<b>6300</b>	<b>3990</b>	<b>2310</b>	<b>975</b>	<b>825</b>	<b>510</b>					

### III. DURATION OF TRAINING (IN WEEKS)

Education	Theoretical training	Examination session	Practice	Vocation	Total
I	30	10	-	12	52
II	30	10	-	12	52
III	30	10	-	12	52
IV	15	5	20	2	42
<b>Total</b>	<b>105</b>	<b>35</b>	<b>20</b>	<b>38</b>	<b>198</b>

### IV. INDICATORS OF EDUCATIONAL PROCESS

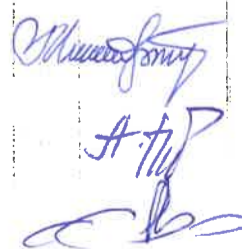
Semester	1	2	3	4	5	6	7	8		Total
								Practice	Preparation and defense of the final work	
Number of credits	28	27	32	33	30	30	30	21	9	240
Number of Exams	5	5	6	6	5	6	5			38
Hours per week	22	22	22	22	22	22	22			

Provided by:

Vice-Rector for Academic Affairs

Dean of the Faculty "Information technology and control"

Head of the Department of "Instrumentation Engineering"



assoc. prof. G.A.Mammadov

assoc. prof. F.H.Agayev

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