Name	Examination	Pass/fail exam	Pass/fail exam with a grade	Term project	Course work	Calculation and graphic work	Credits Fact	As sheduled	Work with a teacher	Self study	Control	Year 1 Semester 1 Credits	Year 1 Semester 2 Credits	Year 2 Semester 3 Credits	Year 2 Semester 4 Credits	Code	Assigned department Name
Unit 1.Disciplines(modules)							84	3024	1377.3	1333.95	312.75	27	24	24	9		
Core part							57	2052	933.1	875.65	243.25	22	20	12	3		
Social and humanitarian module	**3**	**114**					**10**	**360**	**155.7**	**169.55**	**34.75**	4		3	3		
Research methodology		1					2	72	32.15	39.85		2				11	Department of Digital systems and automatics
Business foreign language		1					2	72	32.15	39.85		2				45	Department of Foreign languages
Self-management and effective leadership	3						3	108	47.25	26	34.75			3		52	Department of Management
Legal regulation of the IT sphere		4					3	108	44.15	63.85					3	12	Department of Applied informatics
Mathematical module	**12**	**11**			**1**	**1**	**17**	**612**	**257.8**	**284.7**	**69.5**	12	5				
Differential and difference equations		1					3	108	66.15	41.85		3				13	Department of Applied mathematics and information technologies
Modern methods of engineering calculations	1				1		5	180	70.25	75	34.75	5				13	Department of Applied mathematics and information technologies
Discrete models of production systems		1				1	4	144	67.15	76.85		4				13	Department of Applied mathematics and information technologies
Game theory and optimization methods	2						5	180	54.25	91	34.75		5			13	Department of Applied mathematics and information technologies
Module "High-tech information technologies"	**2**	**1**				**2**	**8**	**288**	**138.4**	**114.85**	**34.75**	3	5				
Information technologies in research activities		1					3	108	66.15	41.85		3				13	Department of Applied mathematics and information technologies
Design and development of high-tech software	2					2	5	180	72.25	73	34.75		5			13	Department of Applied mathematics and information technologies
General professional module	**233**	**122**			**3**	**3**	**22**	**792**	**381.2**	**306.55**	**104.25**	3	10	9			
Intelligent control systems		1					3	108	66.15	41.85		3				11	Department of Digital systems and automatics
Modern problems of automation and control	2						5	180	70.25	75	34.75		5			11	Department of Digital systems and automatics
Project management		2					3	108	53.15	54.85			3			11	Department of Digital systems and automatics
Cloud technologies		2					2	72	35.15	36.85			2			13	Department of Applied mathematics and information technologies
Marketing research in the field of mechanical engineering	3				3		5	180	88.25	57	34.75			5		52	Department of Management
Identification of automation objects	3					3	4	144	68.25	41	34.75			4		11	Department of Digital systems and automatics
Part, formed by the educational process participants							27	972	444.2	458.3	69.5	5	4	12	6		
Elective module	**14**	**333**	**2**	**4**		**13**	**27**	**972**	**444.2**	**458.3**	**69.5**	5	4	12	6		
Elective module 1. Information modelling	**14**	**333**	**2**	**4**		**13**	**27**	**972**	**444.2**	**458.3**	**69.5**	5	4	12	6		
Integrated CAD (CAD/CAM/CAE)	1					1	5	180	68.25	77	34.75	5				11	Department of Digital systems and automatics
Information security of automated systems		3					4	144	66.15	77.85				4		14	Department of Digital systems and automatics
Additive technologies and industrial design		3					4	144	66.15	77.85				4		11	Department of Digital systems and automatics
Digital manufacturing and information modeling	4	3	2	4		3	14	504	243.65	225.6	34.75		4	4	6	11	Department of Digital systems and automatics
Elective module 2. Internet of things and embedded systems	**14**	**333**	**2**	**4**		**13**	**27**	**972**	**444.2**	**458.3**	**69.5**	5	4	12	6		
Signal and systems theory	1					1	5	180	68.25	77	34.75	5				13	Department of Applied mathematics and information technologies
Architecture and technologies of the industrial Internet of things		3					4	144	66.15	77.85				4		11	Department of Digital systems and automatics
Local control systems		3					4	144	66.15	77.85				4		11	Department of Digital systems and automatics
Embedded systems design and programming	4	3	2	4		3	14	504	243.65	225.6	34.75		4	4	6	11	Department of Digital systems and automatics
Unit 2.Practical training							27	972	972			3	6	6	12		
Core part							27	972	972			3	6	6	12		
Academic training			**1**				**3**	**108**	**108**			3					
Scientific research work			1				3	108	108			3				11	Department of Digital systems and automatics
Production practice			**2344**				**24**	**864**	**864**				6	6	12		
Technological practice			2				6	216	216				6			11	Department of Digital systems and automatics
Scientific research work			34				9	324	324					6	3	11	Department of Digital systems and automatics
Pre-graduation practice			4				9	324	324						9	11	Department of Digital systems and automatics
Unit 3. State final examination							9	324			324				9		
Preparation for the defense procedure and defense of the final qualification work							9	324			324				9	11	Department of Digital systems and automatics
Elective courses							10	360	160.75	199.25		4	2	2	2		
Foreign language for specific purposes		234					6	216	96.45	119.55			2	2	2	45	Department of Foreign languages
Bridge course in higher mathematics		1					2	72	32.15	39.85		2				13	Department of Applied mathematics and information technologies
Bridge course in information technology		1					2	72	32.15	39.85		2				13	Department of Applied mathematics and information technologies
Complex modules																	
Module 1																	