

Specialist degree Program**Study Program: Ground transport and technological means****Duration: 5 years****Language of Training: Russian**

№	Subject	Semester	Hours	Credits
C.1.1.1	History	1	108	3
C.1.1.2	Philosophy	5	108	3
C.1.1.3	Foreign language	1	108	3
C.1.1.3	Foreign language	2	108	3
C.1.1.3	Foreign language	3	72	2
C.1.1.4	Economic theory	3	108	3
C.1.1.5	Marketing	6	72	2
C.1.1.6	Management	6	72	2
C.1.1.7	Economics of enterprise	9	72	2
C.1.1.8	Legal state: history and modernity	2	72	2
C.1.1.9	Organization and planning of production	7	108	3
C.1.1.10	Russian Language & Communication Style	1	72	2
C.1.1.11	Mathematics	1	180	5
C.1.1.11	Mathematics	2	216	6
C.1.1.11	Mathematics	3	180	5
C.1.1.12	Physics	3	252	7
C.1.1.12	Physics	4	216	6
C.1.1.13	Chemistry	1	108	3
C.1.1.14	Ecology	2	72	2
C.1.1.15	Informatics	1	2016	6
C.1.1.16	Theoretical mechanics	2	144	4
C.1.1.16	Theoretical mechanics	3	144	4
C.1.1.17	Life safety	7	108	3
C.1.1.18	Materials science	1	72	2
C.1.1.19	Technology of construction materials	2	144	4
C.1.1.20	Physical culture	1	72	2
C.1.1.21	Engineering graphics (drawing)	1	108	3
C.1.1.22	Descriptive geometry and computer graphics	2	108	3
C.1.1.22	Descriptive geometry	3	72	2

	and computer graphics			
C.1.1.23	Theory of mechanisms and machines	5	144	4
C.1.1.24	Strength of materials	4	2016	6
C.1.1.25	Machine parts and design basics	5	108	3
C.1.1.25	Machine parts and design basics	6	108	3
C.1.1.26	Hydraulics and hydraulic pneumatic drive	6	144	4
C.1.1.26	Hydraulics and hydraulic pneumatic drive	7	108	3
C.1.1.27	Thermodynamics and heat transfer	6	108	3
C.1.1.28	Electrical engineering, electronics and electric drive	5	108	3
C.1.1.29	Metrology, standardization and certification	4	108	3
C.1.1.30	Operational materials	8	72	2
C.1.1.31	Fundamentals of scientific research	8	108	3
C.1.1.32	Reliability of mechanical systems	9	144	4
C.1.1.33	Computer-aided design systems for lifting and transport, construction, and road vehicles and equipment	8	108	3
C.1.1.34	Construction of lifting and transport, construction, road vehicles and equipment	3	72	3
C.1.1.35	Lifting machines and equipment	7	108	3
C.1.1.36	Continuous transport machinery and equipment	7	108	3
C.1.1.37	Construction and road	8	180	5

	machinery and equipment			
C.1.1.38	Structural mechanics and metal constructions of lifting-transport and building-road cars	4	108	3
C.1.1.39	Power plants for lifting and transport, construction, road vehicles and equipment	8	72	2
C.1.1.40	Electrical equipment of lifting and transport, construction, road vehicles and equipment	6	180	5
C.1.1.41	Structural and protective finishing materials	3	72	2
C.1.1.42	Technology of production of lifting and transport, construction, road vehicles and equipment	6	108	3
C.1.1.43	Operation of lifting and transport, construction, road facilities and equipment	9	108	3
C.1.1.44	Design of lifting and transport, construction, road facilities and equipment	9	180	5
C.1.1.45	Theory of lifting and transport, construction, road facilities and equipment	4	108	3
C.1.1.46	Repair and disposal of lifting and transport, construction, road	7	108	3

	vehicles and equipment			
C.1.1.47	Testing of lifting and transport, construction, road vehicles and equipment	9	108	3
C.1.2.1	History of science and technology	2	72	2
C.1.2.2	Philosophy of science and technology	6	72	2
C.1.2.3	Applied vibration theory: theory of construction vibration engineering	7	180	5
C.1.2.4	Technical basics of creating machines	5	216	6
C.1.2.5	Control systems for technological machines	9	216	6
C.1.2.6	Optimization of the organization of construction and road vehicle fleets	8	144	4
C.1.2.7	Introduction to the specialty	1	72	2
C.1.2.8	3D modeling and CAD basics	4	72	2
C.1.3.1.1	Psychology	4	108	3
C.1.3.1.2	Engineering psychology	/4	/108	/3
C.1.3.2.1	Dynamics of lifting and transport, construction, road vehicles and equipment	8	108	5
C.1.3.2.2	Dynamics of drives of lifting and transport, construction, road vehicles and equipment	/8	/180	/5
C.1.3.3.1	Computer design	5	180	5
C.1.3.3.2	Computer graphics	/5	/180	/5
C.1.3.4.1	Basic design of transport and	4	72	2

	technological machines			
C.1.3.4.2	Industrial safety/4	/4	/72	/2
C.1.3.5.1	Complex mechanization of construction works	5	72	2
C.1.3.5.2	Complex mechanization of loading and unloading operations	/5	/72	/2
C.1.3.5.3	Military training	/5	/72	/2
C.1.3.6.1	Foreign language for professional communication	4	72	2
C.1.3.6.2	Technical translation	/4	/72	/2
C.1.3.7.1	Mathematics (special chapters)	5	108	3
C.1.3.7.2	Mathematical methods for processing experimental studies	/5	/108	/3
C.1.3.8.1	Running equipment for lifting and transport, construction and road vehicles	6	144	4
C.1.3.8.2	Organization of maintenance of lifting and transport, construction, road vehicles and equipment	/6	/144	/4
C.1.3.9.1	Work processes of construction and road vehicles and their automation	7	216	6
C.1.3.9.2	Lifting and transport manipulators and robots	/7	/216	/6
C.1.3.10.1	Technological means of production of construction products	8	72	2
C.1.3.10.2	Maintenance of hydraulic equipment for lifting and transport, construction,	/8	/72	/2

	road vehicles and equipment			
C.1.3.11.1	Transport and technological means for construction, repair and maintenance of roads	9	180	5
C.1.3.11.2	Technical supervision of lifting and transport, construction, road facilities and equipment	/9	/180	/5
C.1.3.12.1	Special heads of calculation and design of lifting and road construction vehicles	10	216	6
C.1.3.12.2	Technological means for the elimination of consequences of emergency situations	/10	/216	/6
C.1.3.13.1	Team sports	2	82	
C.1.3.13.1	Team sports	3	82	
C.1.3.13.1	Team sports	4	82	
C.1.3.13.1	Team sports	5	38	
C.1.3.13.1	Team sports	6	44	
C.1.3.13.2	Sports and recreation activities	/2	/82	
C.1.3.13.2	Sports and recreation activities	/3	/82	
C.1.3.13.2	Sports and recreation activities	/4	/82	
C.1.3.13.2	Sports and recreation activities	/5	/38	
C.1.3.13.2	Sports and recreation activities	/6	/44	
C.2.1	1st Training practice	2	108	3
C.2.2	2nd Training practice(technological)	4	108	3
C.2.3	Industrial practice(technological)	6	108	3
C.2.4	Industrial practice (design practice)	8	108	3
C.2.5	Internship	10	648	18

C.2.6	Research work	8	72	2
C.2.6	Research work	9	72	2
C.3	The state final examination (the basic part)		216	6
F.2	Diagnostics and repair of mobile hydraulic systems	9	72	
F.3	Metal structures of lifting machines and equipment: technical inspection and repair	8	72	
	Total		11128	300