

Transport

List of subjects in particular semesters

1st semester

1	Foreign language (English/German)
2	Information technology
3	Mathematical analysis
4	Materials science
5	Physics
6	Fundamentals of management
7	Introduction to CAD
8	Introduction to technology
9	Engineering graphics
10	Fundamentals of philosophy/Fundamentals of sociology
11	Library training
12	Health and safety at work training
13	Physical education

2nd semester

1	Foreign language (English/German)
2	Mathematics - algebra
3	Physics
4	Fundamentals of technology
5	Technical mechanics
6	Business communication/Methodology of sciences
7	Fundamentals of metrology
8	Operational research
9	Engineering graphics and CAD
10	Physical education
11	Industrial traineeship

3rd semester

1	Foreign language (English/German)
2	Technical mechanics
3	Fundamentals of machine construction
4	Transport systems with land transport infrastructure management systems
5	Organization and management in transport
6	Fundamentals of technical operation
7	Transport infrastructure
8	Transport economics
9	Ergonomics
10	Fundamentals of traffic engineering

4th semester

1	Logistics
2	Means of transport and their powertrains
3	Rail transport infrastructure
4	Fundamentals of railroad design
5	Consumables
6	Hoisting and hauling equipment
7	Electrical and electronic equipment of means of transport
8	Optimization methods in transport
9	Simulation techniques
10	Computing
11	Microeconomics
12	Professional traineeship (1.5 months)

5th semester

1	Traction piston internal combustion engines
2	Economic analysis in transport
3	IT systems in transport
4	Forwarding and logistics services
5	International transport logistics
6	Organization and technology of car transport
7	Buildings and equipment for handling transport
8	Fundamentals of engineering facility design
9	Automatic control and industrial robotics
10	Technology of loading and storage
11	Electrical engineering and electronics
12	Maintenance and operation of engineering facilities

6th semester

1	Combustion and hybrid powertrains/Theory of conventional powertrains
2	Diagnostics of means of transport
3	Recycling of means of transport
4	Chemical technologies in environmental protection
5	Load on the environment by means of transport
6	Automation of transport and storage processes
7	Intelligent transport systems
8	Warehouse management
9	Urban and regional transport systems
10	International transport
11	Elements of telecommunications
12	Intellectual property protection
13	Interim work
14	Pre-diploma seminar
15	Professional traineeship (1.5 months)

7th semester

1	Satellite navigation systems
2	Intermodal transport
3	Legal issues in transport
4	Transport safety
5	Vehicle safety systems
6	Marketing in transport
7	Diploma seminar
8	Industrial traineeship
9	Diploma thesis preparation