

"Todor Kableshkov" University of Transport

Faculty: Machinery and Construction Technologies in Transport

Programme: Transportation Civil Engineering

Degree: Bachelor

Mode of study: Part time

Duration of study: 4.0 years

| No | Code | Course | Total contact hours (Hours of lectures and seminars) | ECTS credits |
|---------------------------|------|--|--|-----------------|
| <i>Compulsory courses</i> | | | | |
| 1 | 811 | Mathematics part I | 30 | 7 |
| 2 | 1114 | Physics | 45 | 7 |
| 3 | 301 | Engineering Geodesy | 53 | 7 |
| 4 | 821 | Informatics | 38 | 6 |
| 5 | 703 | Economic History | 23 | 3 |
| 6 | 812 | Mathematics part II | 30 | 7 |
| 7 | 715 | Foreign Language - English, German, French, Russian | 45 | 8 |
| 8 | 911 | Theoretical Mechanics | 45 | 9 |
| 9 | 816 | Mathematics part III | 30 | 6 |
| 10 | 822 | Descriptive Geometry | 30 | 5 |
| 11 | 474 | Soil Mechanics | 30 | 5 |
| 12 | 912 | Strength of Materials | 53 | 7 |
| 13 | 702 | Economics | 23 | 4 |
| 14 | 445 | Foundation Engineering | 45 | 6 |
| 15 | 447 | Building Materials | 38 | 5 |
| 16 | 913 | Structural Mechanics | 60 | 6 |
| 17 | 309 | Design and Construction of Railway Track | 53 | 7 |
| 18 | 339 | Design and Construction of Railway Track - make a project | 0 | 3 |
| 19 | 409 | Hydrology and Hydraulics | 23 | 4 |
| 20 | 342 | Design and Construction of Roads | 53 | 7 |
| 21 | 412 | Building Construction, Water Supply and Sewerage | 30 | 4 |
| 22 | 338 | Superstructure and Maintenance of Railway Track | 53 | 6 |
| 23 | 340 | Design and Construction of Roads - make a project | 0 | 3 |
| 24 | 404 | Reinforced Concrete and Reinforced Concrete Structures | 53 | 8 |
| 25 | 341 | Maintenance of Roads | 30 | 4 |
| 26 | 377 | Safety and Health in the Construction Process Management | 30 | 4 |
| 27 | 475 | Technology and Mechanization of Construction Works | 30 | 5 |
| 28 | 416 | Reinforced Concrete Bridges | 53 | 8 |
| 29 | 305 | Tunnels | 45 | 7 |
| 30 | 318 | Urban Planning, Traffic and Streets | 23 | 4 |
| 31 | 406 | Organization and Management of Construction and Construction Law | 45 | 8 |
| 32 | 448 | Reinforced Concrete Bridges - make a project | 0 | 3 |
| 33 | 403 | Steel Bridges | 45 | 6 |
| 34 | 411 | Steel and Wood Constructions | 30 | 4 |
| 35 | 306 | Stations and Station Facilities | 30 | 4 |

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| 36 | 431 | Maintenance and Reconstruction of Bridges | 23 | 3 |
| 37 | 337 | Road and Track Geometry | 23 | 3 |
| 38 | 360 | Engineering Geodesy - practicum | 23 | 6 |
| 41.2 | 1208 | Chemistry | 23 | 3 |
| | 721 | Political Science | 23 | 3 |
| <i>Elective courses</i> | | | | |
| 40.1 | 693 | Civil Engineering Equipment | 23 | 3 |
| 40.2 | 424 | Management of Construction Firm | 23 | 3 |
| 41.1 | 1111 | Electrical Engineering | 23 | 3 |
| 42.1 | 379 | High-Speed Railway Lines | 23 | 3 |
| 42.2 | 451 | Regulations in Railway Infrastructure | 23 | 3 |
| <i>Optional courses</i> | | | | |
| 43 | 361 | Engineering Construction Drawing | 23 | 3 |
| 44 | 143 | Railway Transport Operation and Safety | 23 | 3 |
| 45 | 419 | Engineering Geology | 23 | 3 |
| 46 | 453 | Computer-aided Design Systems | 23 | 3 |
| 47 | 378 | Assessment of compliance of infrastructure projects | 38 | 5 |