

"Todor Kableshkov" University of Transport

Faculty: Machinery and Construction Technologies in Transport

Programme: Operation of Tunnel Boring Machines

Degree: Master's Degree for Graduates with Bachelor's or Master's Degree

Mode of study: Full time

Duration of study: 1.0 years

| No | Code | Course | Total contact hours (Hours of lectures and seminars) | ECTS credits |
|---------------------------|------|--|--|-----------------|
| <i>Compulsory courses</i> | | | | |
| 1 | 469 | Rock Mechanics | 75 | 6 |
| 2 | 470 | Fundamentals of Geodesy and Geotechnical Measurements | 45 | 4 |
| 3 | 471 | Engineering Geology and Hydrogeology | 45 | 4 |
| 4 | 678 | Dynamics of Material Handling and Construction Machines | 60 | 5 |
| 5 | 695 | Special drives of Construction machines | 75 | 6 |
| 6 | 694 | Special cargo handling machines | 75 | 5 |
| 7 | 683 | Automation of Material Handling and Civil Engineering Equipment | 75 | 5 |
| 8 | 691 | Tunneling machines | 60 | 6 |
| 9 | 6602 | Operation of Tunneling Machines | 60 | 5 |
| 10 | 472 | Tunneling technology | 75 | 5 |
| 11 | 473 | Organization and Safety at Tunneling | 45 | 4 |
| <i>Elective courses</i> | | | | |
| 12.1 | 685 | Reliability of Material Handling and Civil Engineering Equipment | 60 | 5 |
| 12.2 | 6603 | Software for Tunneling Machines | 60 | 5 |
| <i>Optional courses</i> | | | | |