



# UNIVERSITY OF NIŠ

**Course Unit Descriptor**

**Faculty**

Faculty of Mechanical Engineering

## GENERAL INFORMATION

|                              |  |
|------------------------------|--|
| Study Program                | <b>Engineering management</b>  |
| Study Module (if applicable) | -  |
| Course Title                 | Traffic and Transport Engineering  |
| Level of Study               | <input checked="" type="checkbox"/> Bachelor <input type="checkbox"/> Master's <input type="checkbox"/> Doctoral   |
| Type of Course               | <input type="checkbox"/> Obligatory <input checked="" type="checkbox"/> Elective   |
| Semester                     | <input type="checkbox"/> Autumn <input checked="" type="checkbox"/> Spring   |
| Year of Study                | III  |
| Number of ECTS Allocated     | 7  |
| Name of Lecturer/Lecturers   | Dušan S. Stamenković   |
| Teaching Mode                | <input checked="" type="checkbox"/> Lectures <input type="checkbox"/> Group tutorials <input checked="" type="checkbox"/> Individual tutorials<br><input type="checkbox"/> Laboratory work <input type="checkbox"/> Project work <input type="checkbox"/> Seminar<br><input type="checkbox"/> Distance learning <input type="checkbox"/> Blended learning <input type="checkbox"/> Other |

### Purpose and Overview (max. 5 sentences)

*Introduce students to the concept and basic terms, dimensions and characteristics of traffic and transportation. Upon completion of the course each student should be able to define the characteristics performance and specificities of transport system, processes and services and describe the historical development of transport and analyses factors of transport development; define the basic geographical, technological and operational characteristics of different modes of transport, as well as their position in the transport market and the role of ICT; identify relationship between transport and logistics; describe the development trend of modern traffic and transport systems.*

### Syllabus (brief outline and summary of topics, max. 10 sentences)

*1) Basic terms and concepts in traffic and transport engineering; 2) Transport system and subsystems 3) Mobility and accessibility as primary functions of transport system, 4) Basic performance characteristics related to transport and traffic - capacity, reliability, safety, security; 5) History of transportation; 6) Fundamental characteristics of transportation modes (water, rail, road, air and pipeline); 7) Information and communication technologies and transport 8) Transport and logistics; 8) Development trend of modern traffic and transport systems*

### Language of Instruction

Serbian (complete course)       English (complete course)       Other \_\_\_\_\_ (complete course)  
 Serbian with English mentoring       Serbian with other mentoring \_\_\_\_\_

### Assessment Methods and Criteria

| <b>Pre exam Duties</b>  | <b>Points</b> | <b>Final Exam</b>          | <b>Points</b>                                  |
|---|---------------|----------------------------|--|
| <b>Activity during lectures</b>   | <b>25</b>     | <b>Written Examination</b> | <b>20-40 (depending on Teaching Colloquia)</b> |
| <b>Practical teaching</b>   | <b>20</b>     | <b>Oral Examination</b>    | <b>15</b>                                      |
| <b>Teaching colloquia</b>   | <b>20</b>     | <b>Overall Sum</b>         | <b>100</b>                                     |
| <b>*Final examination mark is formed in accordance with the Institutional documents</b> |               |                            |  |