



STUDY PLAN, BSc Level

Field of study: Transport - speciality courses

Specialty: Transport Engineering

| lp                           | Course title                                | the number of hours          |         |         |     |         |         | separation program for semester classes |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
|------------------------------|---|------------------------------|---------|---------|-----|---------|---------|---|------------|-----|---|---|----------------|---------------|----|---|---|-----------------|----|----|---|---|----------------|------|----|----|---|---------------|----|------|----|----|----------------|----|---|------|----|-----------------|----|---|---|------|----|---|----|---|---|------|---|---|---|----|
|                              |   | total                        | lecture | classes | lab | project | seminar | sem. I<br>15 weeks                      |            |     |   |   | II<br>15 weeks |               |    |   |   | III<br>15 weeks |    |    |   |   | IV<br>15 weeks |      |    |    |   | V<br>15 weeks |    |      |    |    | VI<br>15 weeks |    |   |      |    | VII<br>15 weeks |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
|                              |   |                              |         |         |     |         |         | L                                       | C          | Lab | P | S | Le             | C             | L  | P | S | ECTS            | Le | C  | L | P | S              | ECTS | Le | C  | L | P             | S  | ECTS | Le | C  | L              | P  | S | ECTS | Le | C               | L  | P | S | ECTS | Le | C | L  | P | S | ECTS |   |   |   |    |
|                              |   | the number of hours per week |         |         |     |         |         |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| <b>A. Common courses</b>     |   | 1935                         | 975     | 435     | 330 | 165     | 30      | 14                                      | 7          | 2   | 2 | 0 | 30             | 10            | 11 | 1 | 2 | 0               | 30 | 11 | 5 | 7 | 0              | 0    | 30 | 13 | 5 | 6             | 2  | 0    | 30 | 10 | 0              | 0  | 2 | 3    | 0  | 16              | 7  | 0 | 0 | 2    | 5  | 0 | 11 | 0 | 0 | 0    | 0 | 0 |   |    |
| <b>B. Speciality courses</b> |   | MKe                          | 0       | 0       | 0   | 0       | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 1                            | Advanced materials in transport             | 53                           | 30      | 15      | 15  | 0       | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 2                            | Alternative fuels                           | 54                           | 30      | 15      | 15  | 0       | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 3                            | Design of load handling equipment           | 55                           | 30      | 15      | 15  | 0       | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 4                            | Diploma seminar                             | 56                           | 30      | 0       | 0   | 0       | 0       | 30                                      |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 5                            | Electric vehicles                           | 57                           | 30      | 15      | 15  | 0       | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 6                            | Engineer project                            | 58.58a                       | 45      | 0       | 0   | 0       | 45      | 0                                       |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 7                            | External influence of transport             | 59                           | 45      | 30      |     | 15      | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 8                            | Intelligent transport systems               | 60                           | 30      | 15      |     | 15      | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 9                            | Intermodal transport                        | 61                           | 30      | 15      |     | 15      | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 10                           | Practise of risk and reliability analysis   | 62                           | 30      | 15      | 15  | 0       | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 11                           | Professional training                       | 63                           | 0       | 0       | 0   | 0       | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 12                           | Reliability and maintenance of vehicles     | 64                           | 30      | 15      |     | 15      | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 13                           | Road traffic control and management systems | 65                           | 30      | 15      | 15  | 0       | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 14                           | Transport safety management system          | 66                           | 30      | 15      | 15  | 0       | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 15                           | Transport systems design                    | 67                           | 30      | 15      |     | 15      | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| 16                           | Vehicle mechatronics                        | 68                           | 45      | 30      |     | 15      | 0       |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| Total block B                |   | 495                          | 225     | 60      | 75  | 105     | 30      |   |            |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
| Total A+B                    |   | 2430                         | 1200    | 495     | 405 | 270     | 60      | 14                                      | 7          | 2   | 2 | 0 | 30             | 10            | 11 | 1 | 2 | 0               | 30 | 11 | 5 | 7 | 0              | 0    | 30 | 13 | 5 | 6             | 2  | 0    | 30 | 15 | 0              | 2  | 4 | 4    | 0  | 30              | 11 | 0 | 0 | 4    | 7  | 0 | 30 | 6 | 0 | 2    | 1 | 4 | 2 | 30 |
| E - exam                     |   |                              |         |         |     |         |         | h/week                                  | 23         |     |   |   |                | 22            |    |   |   |                 | 23 |    |   |   |                | 24   |    |    |   |               | 25 |      |    |    |                | 22 |   |      |    |                 | 15 |   |   |      |    |   |    |   |   |      |   |   |   |    |
|                              |   |                              |         |         |     |         |         | n. exam                                 | 1          |     |   |   |                | 4             |    |   |   |                 | 3  |    |   |   |                | 4    |    |    |   |               | 3  |      |    |    |                | 3  |   |      |    |                 | 3  |   |   |      |    |   |    |   |   |      |   |   |   |    |
| valid from 01.10.2019        |   |                              |         |         |     |         |         | practice                                | after sem. |     |   |   |                | practice time |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |
|                              |   |                              |         |         |     |         |         |   | VI         |     |   |   |                |               |    |   |   |                 |    |    |   |   |                |      |    |    |   |               |    |      |    |    |                |    |   |      |    |                 |    |   |   |      |    |   |    |   |   |      |   |   |   |    |