

Dr. Kai-Uwe SCHMITT

## Trauma Biomechanics

2022 m. pavasario semestras, 2022.04.04-2022.04.15

### Informacija apie paskaitų ciklą

40 val. paskaitų kursas „Traumos biomechanika“

Tikslinė auditorija – I, II ir III pakopos biomechanikos, mechanikos inžinerijos, transporto inžinerijos studentai.

### Paskaitos vyks anglų kalba

### Paskaitų tvarkaraštis

| Diena                                  | Paskaitos tema  | Paskaitos tipas | Val. | Data ir laikas                                   | Aud.           |
|--|---|-----------------|------|--|----------------|
| Pagrindinės žinios                     |   |                 |      |  |                |
| 1                                      | Introduction / Injury models and failure of biological tissue | Paskaita        | 2    | 2022.04.04<br>14 <sup>00</sup> -15 <sup>30</sup> | MR-II<br>2-107 |
|  | Analysing accidents   | Pratybos        | 2    | 2022.04.04<br>15 <sup>30</sup> -17 <sup>00</sup> | MR-II<br>2-107 |
| 2                                      | Head injury   | Paskaitos       | 2    | 2022.04.05<br>9 <sup>00</sup> -10 <sup>30</sup>  | MR-II<br>2-107 |
|  | Sports helmets  | Pratybos        | 2    | 2022.04.05<br>10 <sup>30</sup> -12 <sup>00</sup> | MR-II<br>2-107 |
| 3                                      | Trauma to the spine and thorax                                | Paskaitos       | 2    | 2022.04.06<br>10 <sup>20</sup> -11 <sup>55</sup> | MR-II<br>2-107 |
|  | Concepts of injury prevention                                 | Pratybos        | 2    | 2022.04.06<br>12 <sup>10</sup> -13 <sup>45</sup> | MR-II<br>2-107 |
| 4                                      | Injury to the upper and lower extremities                     | Paskaitos       | 2    | 2022.04.07<br>10 <sup>20</sup> -11 <sup>55</sup> | MR-II<br>2-107 |
|  | Safety applications in sports                                 | Pratybos        | 2    | 2022.04.07<br>12 <sup>10</sup> -13 <sup>45</sup> | MR-II<br>2-107 |
| 5                                      | Experiments in trauma biomechanics                            | Paskaitos       | 1    | 2022.04.08<br>14 <sup>00</sup> -14 <sup>45</sup> | MR-II<br>2-107 |
|  | Experiments in trauma biomechanics                            | Pratybos        | 1    | 2022.04.08<br>14 <sup>45</sup> -15 <sup>30</sup> | MR-II<br>2-107 |
| Traumos biomechanikos specialios temos |   |                 |      |  |                |
| 6                                      | Computer simulations  | Paskaitos       | 2    | 2022.04.11<br>12 <sup>10</sup> -13 <sup>45</sup> | MR-II<br>2-107 |
|  | Student project   | Pratybos        | 2    | 2022.04.11<br>14 <sup>00</sup> -15 <sup>30</sup> | MR-II<br>2-107 |
| 7                                      | Occupant protection   | Paskaitos       | 2    | 2022.04.12<br>9 <sup>00</sup> -10 <sup>30</sup>  | MR-II<br>2-107 |
|  | Student project   | Pratybos        | 2    | 2022.04.12<br>10 <sup>30</sup> -12 <sup>00</sup> | MR-II<br>2-107 |
| 8                                      | Pedestrian Impact   | Paskaitos       | 2    | 2022.04.13<br>10 <sup>20</sup> -11 <sup>55</sup> | MR-II<br>2-106 |
|  | Student project   | Pratybos        | 2    | 2022.04.13<br>12 <sup>10</sup> -13 <sup>45</sup> | MR-II<br>2-107 |
| 9                                      | Experiments in trauma biomechanics                            | Paskaitos       | 2    | 2022.04.14<br>10 <sup>20</sup> -11 <sup>55</sup> | MR-II<br>2-107 |
|  | Exam  | Pratybos        | 2    | 2022.04.14<br>12 <sup>10</sup> -13 <sup>45</sup> | MR-II<br>2-107 |
| 10                                     | Student competition   | Paskaitos       | 2    | 2022.04.15<br>9 <sup>00</sup> -10 <sup>30</sup>  | MR-II<br>2-107 |
|  | Summary /Wrap-up and final discussion                         | Paskaita        | 2    | 2022.04.15<br>10 <sup>30</sup> -12 <sup>00</sup> | MR-II<br>2-107 |

