**Information about lectures**

40 hours course on “Trauma Biomechanics”

Target auditorium – I, II and III study cycle students from biomechanics, mechanical engineering and transport engineering.

Lectures – fundamental theory, concepts, knowledge

Exercise – focus on practical aspects of knowledge application

Seminar – exchange of information and discussions about topics of interests

**Schedule of the lectures**

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| **Nr.** | **Lecture topic** | **Type** | **Duration** | **Date and time** | **Room** |
| Pagrindinės žinios |
| 1 | Introduction / Injury models and failure of biological tissue | Lecture | 2 | 2018.03.191020-1155 | MR-II, 2-107 |
| Analysing accidents | Practice | 2 | 2018.03.191210-1345 | MR-II, 2-107 |
| 2 | Head injury | Lecture | 2 | 2018.03.20900-1035 | MR-II, 2-107 |
| Sports helmets  | Practice | 2 | 2018.03.201040-1215 | MR-II, 2-107 |
| 3 | Trauma to the spine and thorax | Lecture | 2 | 2018.03.211020-1155 | MR-II, 2-107 |
| Concepts of injury prevention | Practice | 2 | 2018.03.211210-1345 | MR-II, 2-107 |
| 4 | Injury to the upper and lower extremities | Lecture | 2 | 2018.03.22830-1005 | MR-II, 2-107 |
| Safety applications in sports | Practice | 2 | 2018.03.221020-1155 | MR-II, 2-107 |
| 5 | Experiments in trauma biomechanics | Lecture | 2 | 2018.03.231345-1520 | MR-II, 2-107 |
| Experiments in trauma biomechanics | Practice | 2 | 2018.03.231520-1705 | MR-II, 2-107 |
| Traumos biomechanikos specialios temos |
| 6 | Computer simulations | Lecture | 2 | 2018.03.261020-1155 | MR-II, 2-107 |
| Student project | Practice | 2 | 2018.03.261210-1345 | MR-II, 2-107 |
| 7 | Occupant protection  | Lecture | 2 | 2018.03.27900-1035 | MR-II, 2-107 |
| Student project | Practice | 2 | 2018.03.271040-1215 | MR-II, 2-107 |
| 8 | Pedestrian Impact | Lecture | 2 | 2018.03.281020-1155 | MR-II, 2-107 |
| Student project | Practice | 2 | 2018.03.281210-1345 | MR-II, 2-107 |
| 9 | Trauma in children and elderly | Lecture | 2 | 2018.03.29830-1005 | MR-II, 2-107 |
| Exam  | Practice | 2 | 2018.03.291020-1155 | MR-II, 2-107 |
| 10 | Student competition | Lecture | 2 | 2018.03.30830-1005 | MR-II, 2-107 |
| Summary /Wrap-up and final discussion | Practice | 2 | 2018.03.301020-1155 | MR-II, 2-107 |