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| Course: | | *Mechanics 1* | | | | | | | | |
| Course id:3OUV1O02 | |
| Number of ECTS: 8 | |
| Teacher: | | Dragi M. Radomirović | | | | | | | | |
| Course status: | | Mandatory | | | | | | | | |
| Number of active teaching classes (weekly) | | | | | | | | | | |
| Lectures: 3 | | Practical classes: 3 | | | Other teaching types: | | Study research work: | | Other classes: | |
| Precondition courses | | None/navesti ako ima | | | | | | | | |
| 1. Educational goal   Learning about the basic concepts and principles of statics. | | | | | | | | | | |
| 1. Educational outcomes   Student’s ability in solving statics problems. | | | | | | | | | | |
| 1. Course content  * Fundamentals of statics * Coplanar and non-coplanar concurrent force system (equilibrium and resultant) * System of couples (equilibrium and resultant couple) * Coplanar non concurrent force system (equilibrium and resultant) * System of bodies (free body diagrams and equilibrium conditions) * Structures (plane trusses, methods for solving) * Beams. Internal forces (shear and axial forces, bending moment) * Three-dimensional force systems (moments and couples in three dimensions, equilibrium and simpler equivalent systems) * Dry friction (Coulomb’s law) * Rolling friction * Center of gravity | | | | | | | | | | |
| 1. Teaching methods   Lectures, Practical classes, Consultations. | | | | | | | | | | |
| Knowledge evaluation (maximum 100 points) | | | | | | | | | | |
| Pre-examination obligations | | | Mandatory | Points | | Final exam | | Mandatory | | Points |
| Lecture attendance | | | Yes | 5 | | *Written part of the exam-tasks and theory* | | Yes | | 30 |
| Test | | | Yes | 50 | |  | | | | |
| Exercise attendance | | | Yes | 5 | |
| *Term paper* | | | Yes/No | 10 | |
| Literature | | | | | | | | | | |
| Ord. | Author | | Title | | | Publisher | | | | Year |
|  | Radomirović Dragi | | Mechanics-part 1 (in Serbian) | | | Faculty of Agriculture, Novi Sad | | | | 2001 |
|  | Kovačić Ivana  Zvonko Rakarić | | Collection of Problems in Statics I (in Serbian) | | | Faculty of Technical Sciences, Novi Sad | | | | 2006 |
|  | Kovačić Ivana  Zvonko Rakarić | | Collection of Problems in Statics II (in Serbian) | | | Faculty of Technical Sciences, Novi Sad | | | | 2006 |

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| Znak univerziteta | UNIVERSITY OF NOVI SAD  FACULTY OF AGRICULTURE 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 8 | Znak fakulteta2 |
| Study Programme Accreditation  UNDERGRADUATE ACADEMIC STUDIES *WATER MANAGEMENT* |
| Table 5.2 Course specification | | |