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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Electronic Engineering |
| **GENERAL INFORMATION** |
| Study program  | **Electrical Power Engineering** |
| Study Module (if applicable) |  |
| Course title | Multi-motor Drives |
| Level of study | [ ] Bachelor [x]  Master’s [ ]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | I |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Petronijević P. Milutin, Mitrović N. Nebojša |
| Teaching mode |  [x] Lectures [x] Group tutorials [ ]  Individual tutorials [x] Laboratory work [ ]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *This course introduces students with role and importance of multi-motor drives, static and dynamic characteristics analysis methods in terms of practical applications. Knowledge of basic principles of functioning and structure of multi-motor drives. Depending on category of mechanical coupling of motor shafts complex electromechanical system analysis ability* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| *Core learning objectives for the course can be summarized as follows:- Multi-motor drives: general terms and definitions. - Electrical drive control as part of the multi-motor drives. - Multi-motor drives with rigid mechanical coupling of motor shafts. Gear backlash influence on drive behaviour. - Multi-motor drives with very flexible property of motor shaft mechanical coupling. - Drives with very viscous property of motor shaft mechanical coupling. - Drives without mechanical coupling of motor shafts. - Drives with variable properties of motor shaft mechanical coupling.* |
| **LANGUAGE OF INSTRUCTION** |
| [x] Serbian (complete course) [x]  English (complete course) [ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)[ ] Serbian with English mentoring [ ] Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **5** | **Written examination** | **30** |
| **Practical teaching** | **15** | **Oral examination** | **20** |
| **Teaching colloquia** | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |