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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  Master’s  Doctoral | | |
| Type of course | | | | Obligatory  Elective | | |
| Semester | | | | Autumn Spring | | |
| Year of study | | | | I | | |
| Number of ECTS allocated | | | | 6 | | |
| Name of lecturer/lecturers | | | | Petronijević P. Milutin, Mitrović N. Nebojša | | |
| Teaching mode | | | | Lectures Group tutorials  Individual tutorials  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** | | | | | | |
| Serbian (complete course)  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** | | | | | | |