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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | **Faculty of Electronic Engineering** |
| **GENERAL INFORMATION** |
| Study program  | Electrical Engineering and Computing |
| Study Module (if applicable) | Electrical Power Engineering |
| Course title | Electric Power Plants |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [x]  Autumn [ ] Spring |
| Year of study  | 4th  |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Korunović M. Lidija |
| Teaching mode |  [x] Lectures [x] Group tutorials [ ]  Individual tutorials [ ] Laboratory work [ ]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Introduce the ways of electric power energy generation to the students. Introduce different types of electric power plants and their elements. The students will be familiar with operation modes of electric power plants and understand the role of these plants in electric power systems.  |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Energy resources in the World and in Serbia. Hydro power plants: hydraulic energy and power of the water, hydraulic turbines, types of hydro power plants and elements of hydro power plants. Thermal power plants: basic terms of thermodynamics, elements of thermal power plants and steam turbines. Nuclear power plants. Thermal power plants with gas turbines. Economic indicators of electric power plants. Solar electric power sources. Photovoltaic systems. Wind generators. Integration of wind generators into network.  |
| **LANGUAGE OF INSTRUCTION** |
| [x] Serbian (complete course) [ ]  English (complete course) [ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)[x] Serbian with English mentoring [ ] Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** |  | **Written examination** | **40** |
| **Practical teaching** |  | **Oral examination** | **20** |
| **Teaching colloquia** | **40** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |