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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Pedagogical Faculty in Vranje |
| **GENERAL INFORMATION** |
| Study program  | Technical Education and Informatics |
| Study Module (if applicable) | / |
| Course title | Technical physics |
| Level of study | ☐Bachelor ☒ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory ☐ Elective |
| Semester  |  ☐ Autumn ☒Spring |
| Year of study  | First |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Goran Ristić |
| Teaching mode |  ☒Lectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Introducing the students with the basic principles and laws of physics in the aim of forming the knowledge base necessary for keeping up and mastering of the course materials in higher years of study. Getting necessary theoretical knowledge, and success in finding solutions to given tasks and exercises.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| *Theoretical study will be conducted through lectures, within the following areas: Basic quantities and units of measurement, kinematics and dynamics, fluid mechanics, heat and temperature, fundamentals of thermodynamics, mechanical oscillations, mechanical waves, photometry, geometrical optics, physical optics, quantum optics, fundamentals of atomic and nuclear physics.**Practical classes will be realized through calculation exercise classes. The calculation exercises (solving concrete problems) will allow the students to successfully master the area they will cover in theoretical classes.* |
| **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** |  | **Written examination** | **30** |
| **Practical teaching** |  | **Oral examination** | **30** |
| **Teaching colloquia** | **40** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |