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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) | Common subject |
| Course title | Physics |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [x]  Autumn [ ] Spring |
| Year of study  | first |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Snežana Golubović, Goran Ristić |
| 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)** |
| *Acquainting the students with the basic principles and laws of physics in order to define the knowledge base for keeping up with and mastering of the course materials in higher years of study. Getting necessary theoretical knowledge, 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 of material point, fluid mechanics, heat and temperature, fundamentals of thermodynamics, mechanical oscillations, mechanical waves, photometry, geometrical optics, physical optics, quantum optics, fundamentals of atomic physics, fundamentals of nuclear physics****Practical classes will be realized through exercise classes - calculation and laboratory exercise classes. Both the calculation exercises (solving concrete problems) and laboratory exercises will allow the students to successfully master the area they will cover in theoretical classes.** |
| **LANGUAGE OF INSTRUCTION** |
| [x] 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** | **20** |
| **Practical teaching** |  | **Oral examination** | **20** |
| **Teaching colloquia** | **30+30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |