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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Sciences and Mathematics |
| **GENERAL INFORMATION** |
| Study program | **Physics** |
| Study Module (if applicable) |  |
| Course title | Laboratory practicum 4 |
| Level of study | ☒ Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory ☐ Elective |
| Semester  |  ☐ Autumn ☒ Spring |
| Year of study  | II (Second) |
| Number of ECTS allocated | 5 (five) |
| Name of lecturer/lecturers | Suzana Stamenković |
| Teaching mode |  ☐ Lectures ☐Group tutorials ☐ Individual tutorials ☒ Laboratory work ☐ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Students acquire knowledge of optics with the experimental approach. Familiarizing students with some experimental methods in the study of the phenomena of geometrical and wave optics. After completion of the course students should be familiar with the basic principles of optical measurements, should connect acquired knowledge with other physical phenomena and be able to independently apply studied methods of measurement.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| The nature of light and its basic characteristics (wavelength, index of refraction, the speed of light) photometry and photometric quantities, basic laws of geometrical optics (reflection and refraction of light on flat surfaces, reflection and refraction of light on spherical surfaces, optical lenses and some optical instruments), wave optics (interference, diffraction and polarization of light). |
| **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** |  |
| **Practical teaching** | **40** | **Oral examination** | **60** |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |