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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of Science and Mathematics | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | **Chemistry** | | |
| Study Module (if applicable) | | | | / | | |
| Course title | | | | H-327 Colourimetry | | |
| Level of study | | | | ☐Bachelor ☐ Master’s X Doctoral | | |
| Type of course | | | | ☐ Obligatory X Elective | | |
| Semester | | | | ☐ Autumn XSpring | | |
| Year of study | | | | Second | | |
| Number of ECTS allocated | | | | 8 | | |
| Name of lecturer/lecturers | | | | Prof. dr Milena N. Miljkovic | | |
| Teaching mode | | | | XLectures ☐Group tutorials ☐ Individual tutorials  ☐Laboratory work ☐ Project work X Seminar  ☐Distance learning ☐ Blended learning ☐ Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| *Acquiring of knowledge for objective evaluation of colour as a psychophysical event; possibility of application of knowledge for recipe making and quality control of dyes using spectrophotometer. Subject provides to students fundamental and advanced knowledge necessary for the development of metrical programmes and systems in use for the numerical evaluation of dyes; training for recipes making of corrections of uneven dyeing for different groups of dyes and appropriate substrates.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| **1. Colour as a natural phenomena; 2. Light, colour, constitution; 3. Conventional theories; 4. Modern theories of the colour; 5. Reactive basics of dye syntheses; 6. Classification of dyes; 7. Nomenclature of dyes; 8. Psychophysics of colours; 9. The occurrence of colour at the molecular level; 10. Dimensions of colours; 11. Numerical evaluation of dyes; 12. CIE chromaticity diagrams; 13. Metametrics; 14. Application of dye metrics in chemical industry; 15. Measurement technique.** | | | | | | |
| **LANGUAGE OF INSTRUCTION** | | | | | | |
| XSerbian (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** | **10** | | **Written examination** | | | **70** |
| **Practical teaching** | **/** | | **Oral examination** | | | **20** |
| **Teaching colloquia** | **/** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |