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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 | Electro Chemical methods in environmental chemistry |
| Level of study | ☐Bachelor **☐** Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory **☐** Elective |
| Semester  |  ☐ Autumn **☐**Spring |
| Year of study  | 2st |
| Number of ECTS allocated | 4 |
| Name of lecturer/lecturers | Milan Mitic |
| Teaching mode |  **☐**Lectures ☐Group tutorials ☐ Individual tutorials **☐**Laboratory work ☐ Project work **☐** Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *The purpose of this course is a basic knowledge and experience in the field of electro-chemical methods and work on experiment with real samples from environment.*  |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Comparison of electrochemical methods in terms of basic analytic characterization (detection limit, sensitivity)Selection of a suitable electrochemical methods for the analysis of environmental samples. Advantages and disadvantages of electrochemical methods in the analysis of environmental samples.Development and validation of electrochemical methods in the analysis of environmental samples.Conductometric method in the analysis of environmental samples. Polarography, [Voltammetry](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwjsldnfu-XLAhXE8nIKHUdrAVQQFggkMAA&url=https%3A%2F%2Fen.wikipedia.org%2Fwiki%2FVoltammetry&usg=AFQjCNGwhZgcaF0Ony9KR0go5mnbDJDVJQ&bvm=bv.117868183,d.bGQ). |
| **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** | **5** | **Written examination** |  |
| **Practical teaching** | **15** | **Oral examination** | **40** |
| **Teaching colloquia** | **40** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |