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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of Science and Mathematics | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | Mathematics | | |
| Study Module (if applicable) | | | | Probability, statistics and financial mathematics | | |
| Course title | | | | Queueing Theory | | |
| Level of study | | | | Master’s | | |
| Type of course | | | | Elective | | |
| Semester | | | | Autumn | | |
| Year of study | | | | 2nd | | |
| Number of ECTS allocated | | | | 7,5 | | |
| Name of lecturer/lecturers | | | | Dr Jasmina Đorđević | | |
| Teaching mode | | | | Lectures Group tutorials Individual tutorials  Laboratory work Project work Seminar  Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| Course enables students basic knowledge from queueing theory and provides them a possibility to apply their knowledge in practice. | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Markov queueing models: Poisson input, Servers with Exponential Service Times, Blocked Customers Delayed, Customers Cleared, Finite Customers Places, Finite Server Group.  Non-Markovian queueing models: Imbedded Markov Chain Queueing Models, Systems with Renewal Stream and Exponential Service Times, The M/G/1 Queue with Service in Random Order. | | | | | | |
| **LANGUAGE OF INSTRUCTION** | | | | | | |
| Serbian (complete course) | | | | | | |
| **ASSESSMENT METHODS AND CRITERIA** | | | | | | |
| **Pre exam duties** | **Points** | | **Final exam** | | | **points** |
| **Activity during lectures** |  | | **Written examination** | | | 35 |
| **Practical teaching** |  | | **Oral examination** | | | 35 |
| **Teaching colloquia** | 30 | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |