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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** |