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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of Economics | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | **Economics** | | |
| Study Module (if applicable) | | | | Tourism Management | | |
| Course title | | | | Mathematic Methods in Economics | | |
| Level of study | | | | Bachelor  Master’s  Doctoral | | |
| Type of course | | | | Obligatory  Elective | | |
| Semester | | | | Autumn Spring | | |
| Year of study | | | | First | | |
| Number of ECTS allocated | | | | 5 | | |
| Name of lecturer/lecturers | | | | Nebojša Stojković | | |
| Teaching mode | | | | Lectures Group tutorials  Individual tutorials  Laboratory work  Project work  Seminar  Distance learning  Blended learning  Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| *The aim of this course is that the student knows the basic quantitative methods and the application of the same in the economics using appropriate software packages.*  *After mastering the content of this course the student can independently apply*  *quantitative methods in economics.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| *2. Introduction to network planning*  *3. Analysis of resources and costs*  *4. Monitoring and control of the project*  *5. Introduction to Microsft Project*  *6. The realisation of the project*  *7. Dynamic programming*  *8. Software for linear programming PCx, LINDO, MARPLEX*  *9. The software package MATHEMATICA*  *10. The financial and actuarial mathematics in Excel*  *11. Decision Theory, AHP methods and software tools for application* | | | | | | |
| **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** | **20** | | **Written examination** | | |  |
| **Practical teaching** | **40** | | **Oral examination** | | | **20** |
| **Teaching colloquia** | **20** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |