ERASMUS+

EU programme for education, training, youth and sport

# Incoming student mobility

UNIOS University Unit: SCHOOL OF APPLIED MATHEMATICS AND INFORMATICS

COURSES OFFERED IN FOREIGN LANGUAGE
FOR ERASMUS+ INDIVIDUAL INCOMING STUDENTS

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| Department or Chair within the UNIOS Unit | School of Applied Mathematics and Informatics |

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| Study program | Graduate university study programme in mathematics (Master level)<br>Branches:<br>• Financial Mathematics and Statistics<br>• Mathematics and Computer Science |

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| Study level | Graduate (master) |

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| Course title | Decision Theory |
| Course code (if any) | M048 |
| Language of instruction | English |
| Brief course description | Syllabus.<br>1. Introduction: basic terms, the process of decision making.<br>2. Decision making under uncertainty. Table of decision making, basic criteria for analysis in case of uncertainty. Expected value. Tree of decision making.<br>3. Multiple-criteria decision analysis, relations, preference relation. Methods which use referent points. Methods for determining weighted criterions, method of eigenvector, method of entropy, Hierarchical decision making (AHP method).<br>4. Group decision making, methods for group decision making. |
| Form of teaching | |
| Form of assessment | The exam consists of a written and an oral part, and it can be taken after the completion of lectures and seminar papers. Students can take mid-term exams during the semester. Acceptable mid-term exam scores replace the written examination. Students can do their homework and thus improve their final grade. |
| Number of ECTS | 4 |

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| Class hours per week | 1+0+1 |
| Minimum number of students | |
| Period of realization | Summer semester |
| Lecturer | Dragana Jankov Maširević |