

## Incoming student mobility

UNIOS University Unit: SCHOOL OF APPLIED MATHEMATICS AND INFORMATICS

COURSES OFFERED IN FOREIGN LANGUAGE  
FOR ERASMUS+ INDIVIDUAL INCOMING STUDENTS

Department or Chair within the UNIOS Unit	School of Applied Mathematics and Informatics
Study program	Graduate university study programme in mathematics (Master level) Branches: <ul style="list-style-type: none"> <li>Financial Mathematics and Statistics</li> </ul>
Study level	Graduate (master)
Course title	Current Topics in Statistics
Course code (if any)	M126
Language of instruction	English
Brief course description	<p>Syllabus.</p> <p>Each year, several topical topics are selected that are considered from the aspect of application in other sciences. Topics are selected from the list below or new ones are defined.</p> <ol style="list-style-type: none"> <li>1. Bayesian statistical inference and applications.</li> <li>2. Methods of resampling and application (Jackknife, Bootstrap).</li> <li>3. High-dimensional statistics</li> <li>4. Survival analysis</li> <li>5. Restricted estimation</li> <li>6. Multi-equation regression models (instrumental variable, two-phase least squares method)</li> <li>7. Panel data analysis</li> <li>8. Non-parametric methods in regression</li> <li>9. Nonlinear Econometric Models</li> </ol>
Form of teaching	
Form of assessment	Lectures and seminars are obligatory. During the course, statistical software will be used (e.g. R). The final exam is oral, and it is taken after the lectures have been completed, the exercises completed, the minimum number of credits at the midterm examinations, and the completed and defended seminar work. Student may write homework during the course to improve their final grade.

## ERASMUS+

EU programme for education, training, youth and sport

Number of ECTS	5
Class hours per week	2+0+2
Minimum number of students	
Period of realization	Summer semester
Lecturer	Ivan Papić