

## CURRICULUM FOR THE LIFE-LONG LEARNING PROGRAM

### INTERNATIONAL SUMMER SCHOOL 2022: MICROECONOMETRICS IN STATA AND R

<b>(1) OBJECTIVE(S):</b>	<ul style="list-style-type: none"> <li>Strengthening competencies acquired outside study programs, advancing internationalisation, mobility and the international visibility of the Faculty of Economics, Business and Tourism, Split.</li> <li>Enhancing analytical and critical skills relevant for the use of advanced statistical methods and research designs essential for high-quality empirical economic work.</li> <li>Acquiring practical competence of methods used for testing causal relationships in economic and business processes.</li> </ul>			
<b>(2) TARGET GROUP:</b>	Graduate and postgraduate students (social sciences, technical sciences, science related fields and humanities)			
<b>(3) METHODOLOGY:</b>				
1. Lectures	<input checked="" type="checkbox"/> PP slides	<input checked="" type="checkbox"/> Discussion	<input checked="" type="checkbox"/> Q & A	<input checked="" type="checkbox"/> Brainstorming
2. Exercises	<input checked="" type="checkbox"/> Individual	<input checked="" type="checkbox"/> Group-based	<input type="checkbox"/> Case studies	<input type="checkbox"/> ...
3. Written materials	<input checked="" type="checkbox"/> Textbook	<input checked="" type="checkbox"/> PP Handouts	<input type="checkbox"/> Worksheets	<input type="checkbox"/> Questionnaire
4. Equipment	<input checked="" type="checkbox"/> Notebook	<input checked="" type="checkbox"/> LCD projector	<input type="checkbox"/> Flip-chart	<input type="checkbox"/> ...

<b>(4) NUMBER OF CONTACT HOURS:</b>	The program will last for 150 hours – 45 in class hours in the period from June 27, 2022 until July 1, 2022 and 105 hours in preparation for the course and for the preparation of the empirical project.		
<b>(5) NUMBER OF PARTICIPANTS:</b>	30 (optimal)		
<b>(6) CONTENT:</b>	<table> <tr> <th data-bbox="1503 459 1805 571">NUMBER OF CONTACT HOURS</th><th data-bbox="1805 459 2085 571">TEACHING STAFF</th></tr> </table>	NUMBER OF CONTACT HOURS	TEACHING STAFF
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<p><b>Microeconometrics in Stata and R</b></p> <p>→ <i>Introduction of the theme and teaching stuff</i>  <i>Jurica Zrnc – TEACHING THEMES 1.-7.:</i></p> <ul style="list-style-type: none"> <li>○ <i>Causal inference in microeconometrics and evidence-based policy – 1 hour.</i></li> <li>○ <i>Potential outcome framework, experimental and quasi-experimental design – 2 hours.</i></li> <li>○ <i>Overview of Ordinary Least Squares, with the emphasis on the endogeneity – 4 hours.</i></li> <li>○ <i>Matching techniques: propensity score and exact matching – 2 hours.</i></li> <li>○ <i>Instrumental variables: classical and Local average treatment effects approach – 4 hours.</i></li> <li>○ <i>Introduction to Stata – 2 hours.</i></li> <li>○ <i>Applications in Stata – 2 hours.</i></li> </ul> <p><i>dr.sc. Ivan Žilić – TEACHING THEMES 8.-12.:</i></p> <ul style="list-style-type: none"> <li>○ <i>Difference-in-differences: classical 2X2 approach and staggered rollout approach – 4 hours.</i></li> <li>○ <i>Synthetic control methods – 4 hours.</i></li> <li>○ <i>Regression discontinuity (RD): fuzzy and sharp RD – 4 hours.</i></li> <li>○ <i>Introduction to R – 2 hours.</i></li> <li>○ <i>Applications in R – 2 hours.</i></li> </ul> <p><i>izv.prof.dr.sc. Blanka Škrabić Perić – TEACHING THEMES 13.-16.:</i></p> <ul style="list-style-type: none"> <li>○ <i>Overview of static panel data models: fixed and random effects – 2 hours.</i></li> <li>○ <i>Introduction to dynamic panel data models (small n and large t) – 4 hours.</i></li> <li>○ <i>Generalized method of moment (GMM): difference and system GMMs (instrumental variables, endogeneity, and diagnostic tests) – 4 hours.</i></li> <li>○ <i>Applications in Stata – 2 hours.</i></li> </ul>	<p><b>Module I</b></p> <p>The program will last for 150 hours – 45 in class hours in the period from June 27, 2022 until July 1, 2022 and 105 hours in preparation for the course and for the preparation of the empirical project ((if positively evaluated by module leader, the 6 ECTS credits are achieved).</p> <ul style="list-style-type: none"> <li>▪ Associate professor Blanka Škrabić Perić</li> <li>▪ dr.sc. Ivan Žilić</li> <li>▪ Jurica Zrnc</li> </ul>		

→ *Conclusion and evaluation of Module I'*

→ *Chosen lecture methodology*

<i>Lectures</i>	<input checked="" type="checkbox"/> PP slides	<input checked="" type="checkbox"/> Discussion	<input checked="" type="checkbox"/> Q & A	<input type="checkbox"/> Brainstorming
<i>Exercises</i>	<input checked="" type="checkbox"/> Individual	<input checked="" type="checkbox"/> Group-based	<input type="checkbox"/> Case studies	<input type="checkbox"/> ...
<i>Written materials</i>	<input checked="" type="checkbox"/> Textbook	<input checked="" type="checkbox"/> PP Handout	<input type="checkbox"/> Worksheets	<input type="checkbox"/> Questionnaire
<i>Equipment</i>	<input checked="" type="checkbox"/> Notebook	<input checked="" type="checkbox"/> LCD projector	<input type="checkbox"/> Flip-chart	<input type="checkbox"/> ...

**PROJECT MANAGER:**

*doc.dr.sc.Blanka Šimundić*

**MODULE LEADER:**

*izv.prof.dr.sc. Blanka Škrabić Perić*

<sup>1</sup> Evaluacija svakog modula /teme kao i završna evaluacija programa je obavezna. Evaluacijske upitnike koje popunjavaju polaznici pripremaju Voditelji programa. Završni evaluacijski upitnik se prilaže uz Izvedbeni plan kojeg ocjenjuje Povjerenstvo za program cjeloživotnog obrazovanja.

Vrijedi od:

01-12-2021

Oznaka:

QF81-1ec

Stranica:

3 od 4



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<b>Date:</b>	<b>13.12.2021.</b>
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**KLASA:** 602-07/21-02/08  
**URBROJ:** 2181-196-05-04-21-11

**Dostaviti:**

1. CCO

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4 od 4