

<b>Study program</b>	Joint Doctorate in Sociology of Regional and Local Development		
<b>Course</b>	Quantitative Research Methods		
<b>Status of the course</b>	Compulsory		
<b>Year</b>	1	<b>Semester</b>	2
<b>ECTS credits</b>	6		
<b>Teacher</b>	Dr Zvezdan Penezić, Full Professor		
<b>e-mail</b>	zvjezdan@unizd.hr		
<b>consultation hours</b>	(by appointment)		
<b>Place of teaching</b>	Postgraduate seminar room		
<b>Teaching methods</b>	Presentation, discussion (whole group, pair work, group work)		
<b>Teaching workload Lectures + Seminars + Exercises</b>	8 hours of lectures, 140 hours of individual work and consultations		
<b>Examination methods</b>	Students submit one piece of written work: an original outline of a quantitative research project proposal that falls within the student's PhD focus.		
<b>Learning outcomes</b>	<p>Upon successful completion, students will have the knowledge and skills to:</p> <ol style="list-style-type: none"> <li>1. Understand and evaluate quantitative research articles.</li> <li>2. Design a survey questionnaire and analyse survey data to answer specific research questions with cross-tabulations, t-tests, correlations and ordinary least squares regressions.</li> <li>3. Understand the concept of random sampling and its relationship to statistical inferences.</li> <li>4. Carry out and interpret hypothesis tests for a range of situations, identifying the situation at hand and assessing whether assumptions are met; discuss types of errors, significance, p-values, make appropriate conclusions with regards to decision making</li> <li>5. Use programmes for quantitative data analysis, including interpretation of statistical software output.</li> <li>6. Write survey analysis reports to scientific/professional standards.</li> </ol>		
<b>Course subject</b>	<p>Quantitative Research Methods provides training in the gathering, description and analysis of quantitative information in the social sciences. Students will consider the theoretical underpinnings of survey design. They will learn about the basics of statistical theory and understand which samples do and do not represent populations of interest. The course includes discussions of: data gathering challenges and techniques; sources of data and potential biases; simple linear regression and basic time series; point and interval estimation procedures; concepts in hypothesis testing for comparing two populations, simple and multiple linear regression. Students will learn while designing and conducting their own research project, based on their investigation of survey data. The project will be written up as a research report that meets basic criteria for survey-based publications in sociology.</p>		
<b>Required reading</b>	<p>Clark-Carter, D. (2019). <i>Quantitative psychological research: the complete student's companion</i>. New York: Routledge.  Babbie, E.R. (2014). <i>The Basics of Social Research</i>. Belmont: Wadsworth.</p>		
<b>Additional reading</b>	<p>Neuman, W. L. (2014). <i>Basics of Social Research: Qualitative &amp; Quantitative Approaches</i>. Harlow: Pearson Education.  Irwing, F.P. (2018). <i>The Wiley handbook of psychometric testing: a multidisciplinary reference on survey, scale, and test development</i>. New York: Wiley.  Vannette, D.L. &amp; Krosnick, J.A. (2018). <i>The Palgrave Handbook of Survey Research</i>. Cham: Palgrave Macmillan.</p>		
<b>Internet resources</b>	Relevant scientific data bases and scientific journals.		
<b>Quality assurance</b>	Students evaluate the course through whole-class feedback and also		

	anonymous survey.
<b>Assignments of the credits for colloquia, seminars, exercises, exams</b>	ECTS structure: lectures, supervisions and reading 2 ECTS, written work 4 ECTS points.
<b>Assignments of the final grade</b>	The course has a pass/fail grade. To pass students need to submit written work which shows that the student has read and critically reflected on course material and has successfully translated it into an original quantitative project proposal.
<b>Remarks</b>	<p>Rewriting the works of other students (essays, term papers and other written assignments) represents fraud!</p> <p>Presentation of essays and other written assignments that were written by others as your own and use of sentences, paragraphs and entire text without adequate reference to the original author is plagiarism!</p> <p>Plagiarism and fraud are serious academic offenses that result in failing the course.</p> <p>Originality is checked using Turnitin system and Plagiarism Checker software.</p>