



## UČNI NAČRT / COURSE SYLLABUS

<b>Predmet / Course</b>	<b>Statistika v praksi/Applied Statistics</b>
<b>Šifra predmeta / Course Code</b>	B12STATIPR-STATPR6-ESD
<b>Nosilec predmeta / Course Coordinator</b>	Prof. dr. Kristijan Breznik, doc. dr. Rado Pezdir
<b>Vrsta predmeta / Type of the course</b>	Obvezni/Compulsory
<b>Jezik / Language</b> - Vaje / Tutorials - Predavanja / Lecture	Slovenski/Slovenian
<b>Študijski program / Programme</b>	Ekonomija v sodobni družbi (1. stopnja) / Economy in Contemporary Society (1st Cycle)
<b>Letnik / Year</b>	2
<b>Pogoji za vključitev / Requirements</b>	/

Predavanja Lectures	Vaje Tutorials	Druge oblike študija Other Type of Study	Samostojno delo Individual work	Ure dela Work hours	ECTS
30	30	0	90	150	6

### Vsebina / Content:

<ol style="list-style-type: none"> <li>Osnove opisne statistike</li> <li>Statistične spremenljivke</li> <li>Verjetnostne porazdelitve</li> <li>Enostavni regresijski model</li> <li>Regresijski model več spremenljivk (multikolinearnost, heteroskedastičnost, avtokorelacija)</li> <li>Neprave spremenljivke</li> <li>Odložene spremenljivke</li> <li>Nelinearni regresijski modeli</li> <li>Panelni podatki in linearni regresijski modeli</li> </ol>	<ol style="list-style-type: none"> <li>Basic descriptive statistics</li> <li>Statistical variables</li> <li>Probability distributions</li> <li>Simple regression model</li> <li>Multiple regression (multicollinearity, heteroscedasticity, autocorrelation)</li> <li>Dummy variables</li> <li>Lagged variables</li> <li>Nonlinear regression models</li> <li>Panel data and linear regression models</li> </ol>
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### Splošne kompetence / General Competencies:

<p><i>Študent bo pridobil znanje in spretnosti na naslednjih splošnih vsebinskih področjih:</i></p> <p>SPL 1: Delo z informacijami, SPL 8: spretnost kritičnega mišljenja</p>	<p><i>Student will acquire knowledge and skills in the following general areas:</i></p> <p>SPL 1: work with data and information, SPL 8: critical thinking</p>
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### Predmetno specifične kompetence / Course Specific Competencies:

<p><i>Študent bo pridobil znanje in spretnosti na naslednjih specifičnih vsebinskih področjih:</i></p> <p>PSP3: Makro in mikroekonomski elementi in vplivi na organizacije. PSP16: Raziskovalna metodologija na vsebinskem področju predmeta PSP17: Matematika in statistika na vsebinskem področju predmeta.</p>	<p><i>Student will acquire knowledge and skills in the following specific areas:</i></p> <p>PSP3: Macro- and microeconomic elements and their impact on an organisation. PSP16: Research methodology in the fields of the course PSP17: Mathematics and statistics in the fields of the course</p>
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### Predvideni študijski izidi / Intended Learning Outcomes:

<p><i>Študent bo dosegel naslednje študijske izide:</i></p> <p>1. razumevanje osnovnih statističnih in ekonometričnih konceptov, 2. razumevanje metodoloških pristopov analize podatkov, 3. sposobnost ocenjevanja ekonomskih in finančnih</p>	<p><i>Student will achieve the following learning outcomes:</i></p> <p>1. understanding of fundamental statistical and econometric concepts, 2. understanding of fundamental methodological approaches of data analysis, 3. ability to estimate economic and financial models,</p>
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modelov na dejanskih podatkih, 4. poznavanje osnov časovnih vrst in analize panelnih podatkov	4. understanding of fundamentals of time series and panel data analysis
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### Oblike in metode poučevanja in učenja / Types and Methods of Teaching and Learning

<b>Oblike dela</b> <i>Types of Teaching and Learning</i>	Frontalna oblika poučevanja. Frontal teaching.
<b>Metode dela</b> <i>Teaching and Learning Methods</i>	Razlaga, Proučevanje primera, Reševanje nalog, Gost iz prakse. Explanation, Case study, Solving Exercise, Guest from practice.

### Načini ocenjevanja v % / Types of Student Assessment

Sprotno ustno ocenjevanje / Oral Assessment	dva kolokvija/two midterms
Sprotno pisno ocenjevanje / Written Assessment / Daljši pisni izdelek /Longer written casework <sup>1</sup>	
Javni nastop s predstavitevijo rezultatov / Presentations <sup>2</sup>	ali/or
Končni pisni izpit / Final written examination/	100% končni pisni izpit/final written exam
Končni ustni izpit / Final oral examination	
Udeležba in sodelovanje / Participation and cooperation	
<b>Lestvica ocenjevanja / Grading scale</b>	

### Temeljna literatura / Literature:

Diez, D., Cetinkaya-Rundel, M., Barr, C. D. (2019). OpenIntro Statistics. 4th Edition. OpenIntro. <a href="https://www.openintro.org/book/os/">https://www.openintro.org/book/os/</a>
D. Gujurati, D. Porter: Basic Econometrics. The McGraw-Hill Series. Peta izdaja. 2009. <a href="https://www.cbpbu.ac.in/">1.pdf (cbpbu.ac.in)</a>

### Reference nosilca / Lecturer's references:

<p><b>Prof. dr. Kristijan Breznik</b></p> <p>BREZNIK, Kristijan, RESTAINO, Marialuisa, VITALE, Maria Prosperina, RAGOZINI, Giancarlo. Analyzing countries' performances within the international student mobility program over time. Annals of operations research. 17. Jun 2023, str. 1-19, ilustr. ISSN 0254-5330. <a href="https://link.springer.com/article/10.1007/s10479-023-05436-w#article-info">https://link.springer.com/article/10.1007/s10479-023-05436-w</a>, DOI: 10.1007/s10479-023-05436-w. [COBISS.SI-ID 158743299]</p> <p>NOVAK, Andrej, BREZNIK, Kristijan, NATEK, Srečko. Managing knowledge to improve performance : the impact of leadership style and knowledge management on organizational performance with moderation effects via PLS-SEM. Journal of the knowledge economy. 2022, vol. , no. , str. [1-30], [in press]. ISSN 1868-7873. <a href="https://link.springer.com/article/10.1007/s13132-022-00957-4#article-info">https://link.springer.com/article/10.1007/s13132-022-00957-4</a>, DOI: 10.1007/s13132-022-00957-4. [COBISS.SI-ID 98148611]</p> <p>MILEKHINA, Antonina, BREZNIK, Kristijan, RESTAINO, Marialuisa. Gender comparison of in-match psychological traits of tennis players : dynamic network analysis : editorial. Statistica applicata. [Print ed.]. 2023, vol. 35, no. 2, str. 1-28, ilustr. ISSN 1125-1964. <a href="https://www.sa-ijas.org/ojs_files_online_first/35_011_203.pdf">https://www.sa-ijas.org/ojs_files_online_first/35_011_203.pdf</a>, DOI: 10.26398/IJAS.0035-011. [COBISS.SI-ID 141973507]</p> <p>LAW, Kris, BREZNIK, Kristijan, IP, Andrew W.H. Using publicized information to determine the sustainable development of 3-PL companies. Journal of global information management. Jan./Mar. 2021, vol. 29, iss. 1, str. 199-216. ISSN 1062-7375. <a href="https://www.igi-global.com/article/using-publicized-information-to-determine-the-sustainable-development-of-3-pl-companies/255844">https://www.igi-global.com/article/using-publicized-information-to-determine-the-sustainable-development-of-3-pl-companies/255844</a>, DOI: 10.4018/JGIM.20210101.0a1. [COBISS.SI-ID 46423299]</p>
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<sup>1</sup> Seminarska ali projektna naloga, raziskovalna naloga ipd.

<sup>2</sup> Plakat, naloga, prispevek

**Doc. dr. Rado Pezdir**

PEZDIR, Rado, ŠUŠTERŠIČ, Janez. Yugoslav companies in Zone A of the free territory of Trieste : the formation of an institutionalized parallel economy controlled by the State Security Service. *Archivio storico italiano*. 2018, anno 176, dis. 2, str. 313-346

MRKAJČ, Mičo, PEZDIR, Rado. Estimating price elasticities of demand for highway transport using high frequency data. *Rivista internazionale di economia dei trasporti*. jun 2008, vol. 35, no 2, str. [217]-230.

MRKAJČ, Mičo, PEZDIR, Rado. Transition and political markets: post-war German versus post-socialist Slovenian reconstruction. *Economic affairs*. Dec. 2007, vol. 27, no. 4, str. 58-64.

MRKAJČ, Mičo, PEZDIR, Rado. R&D investments in Slovenia. *Ekonomický časopis*. 2007, letn. 55, št. 9, str. 873-885.

PEZDIR, Rado. Thirteen years of gradualism - inhibiting transition in Slovenia?. *Post-communist economies*. 2006, vol. 18, no. 1, str. 51-68. ISSN 1463-1377. PEZDIR, Rado. *Slovenska tranzicija od Kardelja do tajkunov*. Ljubljana: Časnik Finance, 2008. 158 str., graf. prikazi, tabele. ISBN 978-961-6541-21-3.

PEZDIR, Rado. *Rešene vaje iz makroekonomije 1*. Celje: Mednarodna fakulteta za družbene in poslovne študije, 2014. 512 str., ilustr. Učbeniki MFDPŠ. ISBN 978-961-6813-26-6. ISSN 2232-6332.

PEZDIR, Rado. *Rešene vaje iz makroekonomije 2*. Celje: Mednarodna fakulteta za družbene in poslovne študije, 2014. 417 str., ilustr. Učbeniki MFDPŠ.

PEZDIR, Rado. *Rešene vaje iz mikroekonomije*. Celje: Mednarodna fakulteta za družbene in poslovne študije, 2013. 355 str.,

PEZDIR, Rado. *Izbrana poglavja iz mikroekonomske analize in matematične ekonomije : študijsko gradivo*. Ljubljana: Mednarodna podiplomska šola Jožefa Stefana, 2009. 91 str.