

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet: Metode triangulacije
Course title: Methods of Triangulation

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Sociologija in psihosocialne študije, tretja stopnja	Sociologija	Prvi	Prvi
Sociology and Psychosocial Studies, 3rd level	Sociology	First	First

Vrsta predmeta / Course type

Obvezen / Mandatory

Univerzitetna koda predmeta / University course code:

MT / MT

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
10	30	0	0	0	410	15

Nosilec predmeta / Lecturer:

Red. prof. dr. Matej Makarovič / Prof. Matej Makarovič, Ph.D
 Red. prof. dr. Borut Rončević / Prof. Borut Rončević, Ph.D
 Izr. prof. dr. Tea Golob / Assoc. Prof. Tea Golob, Ph.D
 Izr. prof. dr. Zoran Levanjić / Assoc. prof. Zoran Levanjić, Ph.D
 (nosilci so v vlogi koordinatorja, ker pri izvajanju predmeta sodeluje več visokošolskih učiteljev / the lecturers play the role of coordinators since several lecturers participate in the course)

**Jeziki /
Languages:**

**Predavanja /
Lectures:** slovenski, angleški (tudi za seminar) /
Slovenian, English (also for the seminars)
Vaje / Tutorials: /

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:

Vpis v 1. letnik doktorskega študija.

Prerequisites:

Enrolment in the first year of doctoral study.

Vsebina:

V okviru predmeta je delo usmerjeno k nadgradnji že pridobljenega metodološkega znanja na podlagi povezovanja in kombinacije različnih metod in tehnik zbiranja in obdelave podatkov. Poleg predstavitve širšega metodološkega okvira pristopov k triangulaciji se izvaja tudi samostojno raziskovalno delo študentov z uporabo metodološke triangulacije (mešani metodološki pristop), predvsem v okviru razširjene raziskovalne naloge.

Vključeni so naslednji tematski vidiki:

- interpretativna in pozitivistična paradigma;
- post-pozitivizem kot nova epistemološka sinteza;
- obnovitev in nadgradnja predhodnih raziskovalnih znanj (predempirične raziskovalne faze, pregled ključnih metod kvantitativne analize, pregled ključnih metod zbiranja in analize kvalitativnih podatkov);
- kombinacija kvalitativnih in kvantitativnih metod;
- analiza mehkih množic;
- problemi vzorčenja pri kvantitativnih, kvalitativnih in mešanih metodah;
- metodološki problemi mednarodnih primerjalnih raziskav;
- osnove in uporaba analize socialnih omrežij;
- povezava nacionalnih študij primera in mednarodnih, makro-regionalnih (EU) in globalnih raziskav.

Content (Syllabus outline):

Within the course, the work is oriented toward the upgrading of the already achieved methodological knowledge based on the connections between different methods and techniques of data collection and analysis. Besides the presentation of the broader methodological framework of triangulation approaches autonomous research work of students is implemented applying triangulation (mixed methods approach), especially within the extended research paper.

The following thematic aspects are included:

- interpretative and positivist paradigm;
- post-positivism as a new epistemological synthesis;
- refreshing and upgrading of the previous research knowledge (pre-empirical research phases, overview of the key methods of quantitative analysis, overview of the key methods of collecting and analysing qualitative data);
- combination of qualitative and quantitative methods;
- fuzzy sets analysis;
- the issues of sampling in quantitative, qualitative and mixed methods;
- methodological problems of crossnational comparative research;
- basics and applications of social network analysis;
- connecting national case studies with crossnational, macro-regional (EU) and global studies research.

Temeljna literatura in viri / Foundational literature and sources:

Cresswell, J. (2021): *A Concise Introduction to Mixed Methods Research*, 2nd Edition. Los Angeles, London, New Delhi, Singapore: Sage Publications.

Rončević, Borut; Makarovič, Matej; Tomšič, Matevž; Cepoi, Victor (2018): Methodological solutions for comparative research on transformations. V: Vihalemm, Peeter (ur.), Masso, Anu (ur.), Opermann, Signe (ur.). *The Routledge International Handbook of European Social Transformations*, Abingdon; New York: Routledge.

Tashakkori, Abbas M.; Johnson, Robert Burke; Teddlie, Charles B. (2020): *Foundations of Mixed Methods Research: Integrating Quantitative and Qualitative Approaches in the Social and Behavioral Sciences*, 2nd Edition. Sage Publications.

Menczer, Filippo, Santo Fortunato and Clayton A. Davis (2020): *A First Course in Network Science*, 1st Edition. Cambridge University Press.

Ragin, C. (2008): *Redesigning Social Inquiry: Fuzzy Sets and Beyond*. Chicago, London: Chicago University Press.

Dodatni najnovejši viri po izbiri predavateljev / Additional most recent sources selected by the lecturers.

Cilji in kompetence:

Pridobitev poglobljenega znanja, ki omogoča:

- samostojno izvirno znanstveno in raziskovalno delo na področju sociologije.

Pridobitev spretnosti, potrebnih za:

- načrtovanje, vodenje in izvajanje najzahtevnejših znanstveno raziskovalnih projektov;
- posredovanje rezultatov raziskav znanstvenikom in odločevalcem.

Pridobitev splošnih kompetenc:

- sposobnost avtonomnega identificiranja danega raziskovalnega problema, njegove analize ter možnih rešitev;
- sposobnost obvladanja standardnih metod, postopkov in procesov raziskovalnega dela na področju sociologije in psihosocialnih študij;
- sposobnost samostojnega raziskovalno-razvojnega dela za ustvarjanje, interpretiranje

Objectives and competences:

Acquisition of in-depth knowledge that enables:

- autonomous original scientific and research work in the field of sociology.

Acquisition of skills, necessary for:

- planning, leading and implementing the most demanding scientific-research projects;
- communication of results of research to scientists and decision-makers.

Acquisition of general competences:

- the ability to identify autonomously the given research problem, its analysis and possible solutions;
- the ability to master standard methods, procedures and processes of research work in the field of sociology and psychosocial studies;
- the ability of autonomous research-developmental work to create, interpret and

in iskanje odgovorov na abstraktna in najbolj kompleksna vprašanja v znanosti in stroki;

- poznavanje pomena kakovosti in prizadevanje za kakovost strokovnega dela skozi avtonomnost, (samo)kritičnost, (samo)refleksivnost in (samo)evalviranje v strokovnem delu;
- sposobnost prenosa znanja med stroko in znanostjo v kritičnem dialogu;
- zavezanost profesionalni etiki, ki vključuje visoko razvito zmožnost odgovornega presojanja posledic uporabe novega znanja v različnih kontekstih;
- sposobnost predstavitve pridobljenih znanstvenih izsledkov v obliki publikacij v mednarodni znanstveni periodiki.

Pridobitev predmetno specifičnih kompetenc:

- sposobnost za avtonomno reševanje konkretnih raziskovalnih problemov, vključno z najbolj kompleksnimi vprašanji, na različnih področjih sociologije in njej sorodnih disciplin;
- razvoj veščin in spretnosti v uporabi znanja na raziskovalnem področju sociologije ter sorodnih disciplin;
- sposobnost inovativne uporabe in samostojnega kombiniranja raziskovalnih empiričnih socioloških metod ter metod njenih sorodnih disciplin (metode triangulacije);
- sposobnost operacionalizacije abstraktnih teoretskih konceptov na visoki ravni zahtevnosti;
- sposobnost priprave in izvedbe komparativnega raziskovanja in sodelovanja v timih, ki izvajajo komparativne raziskave;
- sposobnost vzorčenja na področju kvalitativnih, kvantitativnih in mešanih raziskovalnih pristopov;
- obvladovanje najzahtevnejših metodoloških izzivov.

search for answers to the abstract and most complex questions in science and practical expertise;

- the familiarity with the significance of quality assurance and striving for quality of expert work by the means of autonomy, (self)critique, (self)reflectivity and (self)evaluation in the expert work;
- the ability to transfer knowledge between expertise and science in a critical dialogue;
- the commitment to professional ethics, which includes a highly developed ability to evaluate responsibly the consequences of the application of new knowledge in various contexts;
- the ability to present the gained scientific findings in the form of publications in the international scientific journals.

Acquisition of course-specific competences:

- the ability to solve autonomously specific research problems, including the most complex issues, in various fields of sociology and related disciplines;
- development of abilities and skills to apply knowledge for research in the field of sociology and related disciplines;
- ability to apply innovatively and combine autonomously various research empirical sociological methods and methods of related disciplines (methods of triangulation);
- the ability to operationalise abstract theoretical concepts at the advanced level;
- ability to prepare and carry out comparative research and to participate in teams conducting comparative research;
- the capacity of sampling in the field of qualitative, quantitative and mixed research methods;
- mastering of the most demanding methodological challenges.

Predvideni študijski rezultati:

Intended learning outcomes:

Znanje in razumevanje:**Študent/študentka:**

- demonstrira obvladovanje ključnih raziskovalnih metod, ki so relevantne za preučevanje kompleksnih problemov s področja sociologije;
- demonstrira poznavanje najnovejših pristopov k kombiniranju metod kvalitativne in kvantitativne analize;
- izraža sposobnost samostojnega raziskovalnega dela na področju sociologije;
- je sposoben/sposobna prezentacije svojih raziskovalnih rezultatov na znanstvenih srečanjih ali v znanstvenih publikacijah;
- je sposoben/sposobna artikulacije ključnih vprašanj in problemov v sodobnih družboslovnih metodoloških razpravah.

Knowledge and understanding:**The student:**

- demonstrates his/her mastering of the key research methods relevant to study complex problems in the field of sociology;
- demonstrates her/his understanding of the most recent approaches toward combining methods of qualitative and quantitative analysis;
- indicates the ability of autonomous research work in the field of sociology;
- is capable of the presentation of her/his research results in scientific meetings or scientific publications;
- is capable to articulate key questions and issues in contemporary methodological discussions in social science.

Metode poučevanja in učenja:

- *predavanja* z aktivno udeležbo doktorandov (razlaga, diskusija, vprašanja, primeri, reševanje problemov);
- *seminarsko delo* (refleksija izkušenj, projektno delo, timsko delo, metode kritičnega mišljenja, diskusija, sporočanje povratne informacije, dodatna razlaga);
- *uporaba spletne učilnice* oziroma drugih sodobnih IKT orodij;
- *individualno delo študentov* (samostojen študij literature, priprava razširjene raziskovalne naloge).

Learning and teaching methods:

- *lectures* with active participation of doctoral students (explanations, discussion, cases, problem-solving);
- *seminar work* (reflecting experience, project work, team work, methods of critical thinking, discussions, reporting feedback information, additional explanations);
- *use of online classroom* or other contemporary ICT tools;
- *individual students' research work* (independent study of literature, preparing the extended research paper).

Delež (v %) /

Weight (in %)

Načini ocenjevanja:**Assessment:**

Način (pisni izpit, ustno izpraševanje, naloge, projekt):

Type (examination, oral, coursework, project):

Razširjena raziskovalna naloga (cca. 5000 besed), ki se lahko poteguje za

100 %

Extended research paper (cca. 5000 words) able to compete for publication

<p>objavo v mednarodni recenzirani reviji/ monografiji ali za prezentacijo na mednarodni znanstveni konferenci/ delavnici.</p> <p>Ocenjevalna lestvica – skladno s Pravilnikom o preverjanju in ocenjevanju znanja na FUDŠ.</p>		<p>in an international peer reviewed journal/monograph or for the presentation at the international scientific conference/workshop.</p> <p>The grading scale is harmonized with the SASS Rules for verification and evaluation of knowledge.</p>
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Reference nosilca / Lecturer's references:

- GOLOB, Tea, MAKAROVIC, Matej, REK, Mateja. Meta-reflexivity for resilience against disinformation = Meta-reflexividad para la resiliencia contra la desinformación. *Comunicar*, ISSN 1134-3478, 2021, str. 1-10.
- GOLOB, Tea, MAKAROVIC, Matej. From consciousness to behaviour: individual, social, and environmental responsibility among Slovenian youth. *Socijalna ekologija: časopis za ekološko misao i sociološka istraživanja okoline*, ISSN 1330-0113, 2021, vol. 30, no. 1, str. 27-43.
- GOLOB, Tea, MAKAROVIC, Matej. Reflexivity and structural positions: the effects of generation, gender and education. *Social sciences*, ISSN 2076-0760, 2019, vol. 8, no. 9, str. 1-23.
- RONČEVIĆ, Borut, MAKAROVIC, Matej, TOMŠIČ, Matevž, CEPOI, Victor. Methodological solutions for comparative research on transformations. V: VIHALEMM, Peeter (ur.), MASSO, Anu (ur.), OPERMANN, Signe (ur.). *The Routledge International Handbook of European Social Transformations*, (Routledge international handbooks). Abingdon; New York: Routledge. 2018.
- MAKAROVIC, Matej, MIKULAN KILDI, Janja. Towards a model explaining the political (in)stability and variety of regimes in the post-Soviet region. *Comparative sociology*, ISSN 1569-1322, 2017, vol. 16, iss. 1, str. 66-101.
- RONČEVIĆ, Borut. Cultural political economy of Europe 2020: Jean Monnet chair CPE 2020 and its impact. *Research in social change*, ISSN 1855-4202, 2019, vol. 11, iss. 2, str. 5-13.
- RONČEVIĆ, Borut. Technology and innovations in regional development for Europe 2020: Jean Monnet Centre of Excellence TIR 2020 for smart, inclusive and sustainable growth. *Research in social change*, ISSN 1855-4202, Sep. 2020, vol. 12, iss. 3, str. 5-14.
- RONČEVIĆ, Borut, BESEDNJAK VALIČ, Tamara. How to think about regional development agencies as a sociologist. *The social sciences*, ISSN 1993-6125, 2019, vol. 14, iss. 9, str. 326-33.
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(ur.), OPERMANN, Signe (ur.). *The Routledge International Handbook of European Social Transformations*, (Routledge international handbooks), 2018. Abingdon; New York: Routledge.

- CRNKIĆ, Aladin, POVH, Janez, JAĆIMOVIĆ, Vladimir, LEVNAJIĆ, Zoran. Collective dynamics of phase-repulsive oscillator solves graph coloring problem. *Chaos*. 2020, vol. 30, str. 033128-1-033128-10, ilustr. ISSN 1054-1500.
- ZORKO, Albert, FRÜHWIRTH, Matthias, GOSWAMI, Nandu, MOSER, Maximilian, LEVNAJIĆ, Zoran. Heart rhythm analyzed via shapelets distinguishes sleep from awake. *Frontiers in physiology*. 2020, vol. 10, str. 1-16.
- GRAU LEGUIA, Marc, LEVNAJIĆ, Zoran, TODOROVSKI, Ljupčo, ŽENKO, Bernard. Reconstructing dynamical networks via feature ranking. *Chaos*. 2019, vol. 29, no. 9, str. 09310-1-093107-15. ISSN 1054-1500.
- GROTE, Vincent, LEVNAJIĆ, Zoran, PUFF, Henry, OHLAND, Tanja, GOSWAMI, Nandu, FRÜHWIRTH, Matthias, MOSER, Maximilian. Dynamics of vagal activity due to surgery and subsequent rehabilitation. *Frontiers in neuroscience*. 2019, vol. 13, no. 1116, str. 1-12. ISSN 1662-453X.
- LEGUIA, Marc Grau, MARTÍNEZ, Cristina G. B., MALVESTIO, Irene, TAUSTE CAMPO, Adrià, ROCAMORA, Rodrigo, LEVNAJIĆ, Zoran, ANDRZEJAK, Ralph G. Inferring directed networks using a rank-based connectivity measure. *Physical review. E*. 2019, vol. 99, iss. 1, str. 012319-1-012319-10. ISSN 2470-0045.
- GUAZZINI, Andrea, STEFANELLI, Federica, IMBIMBO, Enrico, VILONE, Daniele, BAGNOLI, Franco, LEVNAJIĆ, Zoran. Humans best judge how much to cooperate when facing hard problems in large groups. *Scientific reports*. 2019, vol. 9, art. no. 5497, str. 1-9.