

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Metodologija znanstvenega raziskovanja
Course title:	Scientific Research Methodology

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Edukacija in menedžment v zdravstvu – 3. stopnja, doktorski program	/	I.	I.
Education and Management in Health Care- 3rd cycle	/	I st	I st

Vrsta predmeta / Course type Obvezni/obligatory

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
45	45	0	0	0	160	10

Nosilec predmeta / Lecturer: izr. prof. dr. Nadja Plazar, doc. dr. Nevenka Kregar Velikonja

Jeziki / Languages:	Predavanja / Lectures:	slovenski/Slovenian
	Vaje / Tutorial:	slovenski/Slovenian

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti: Vpis v študijski program.	Prerequisites: Enrolment in the study programme.
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- Vsebina:**
- Struktura raziskovalnih problemov.
 - Spremenljivke in njihovo merjenje.
 - Laboratorijski in naravni eksperiment.
 - Načrtovanje eksperimenta.
 - Anketna metoda. Struktura in oblika vprašanj, razpored vprašanj. Uporabnost anketne metode, obdelava in interpretacija rezultatov.
 - Merske karakteristike merilnih instrumentov, ocenjevalne lestvice.
 - Faktorska in komponentna analiza z rotacijami.
 - Diskriminativna analiza.
 - Cilji raziskovanja in osnovne hipoteze.
 - Možnosti generalizacije dobljenih rezultatov.
 - Posredovanje in diskusija o dobljenih rezultatih.

- Content (Syllabus outline):**
- Structure of research problems.
 - Variables and their measurement.
 - Laboratory and natural experiment-
 - Planning the experiment.
 - The survey method. Structure and forms of questions, distribution of questions. Applicability of the survey method, processing and interpreting results.
 - Characteristics of measurement instruments, assessment scales.
 - Factor and component analysis with rotations,
 - Discriminative analysis.
 - Research objectives and basic hypotheses.

- Oblikovanje sklepov in kritična opredelitev do lastnih rezultatov.

- Possibility of generalisation of the obtained results.
- Presentation and discussion of the obtained results.
- Formation of conclusions and critical attitude towards own results.

Temeljni literatura in viri / Readings:

- Munhall, P. L. (2007). Nursing research: a qualitative perspective. London: Jones and Bartlett Publishers.
- Polit, D. F. in Beck Tatano, C. (2004). Nursing research: principle and methods. Philadelphia: Lippincott Williams & Wilkins.
- Young-Brockopp, D. in Hastings-Tolsma, M. T. (2003). Fundamentals of Nursing Research. London: Jones and Bartlett Publishers.
- Ferguson, G. A. (2005). Statistical analysis in psychology and education. New York: McGraw-Hill.
- Momirović, K. (1986). Metode, algoritmi i programi za analizu kvantitativnih i kvalitativnih promena. Zagreb: Fakulteta za fizičku kulturu, Institut za kineziologiju.
- Fulgosi, A. (1988). Faktorska analiza. Zagreb: Školska knjiga.
- Ksirsagar, A. M. (1972). Multivariate Analysis. New York: Marcel Dekker.

Cilji in kompetence:

- obvladovaje temeljnega znanja s področja metodologije raziskovalnega dela ter njegova interdisciplinarna uporaba,
- obvladovanje raziskovalnih metod, tehnik in postopkov,
- usposobljenost za načrtovanje, organizacijo in izvajanje raziskovalnega dela,
- usposobljenost za reševanje konkretnih problemov kliničnega okolja z uporabo raziskovalne metodologije (kritična analiza, razvoj teorij ...),
- poznavanje in uporaba ustreznih merilnih instrumentov, ocenjevalnih lestvic in drugih merskih karakteristik.
- uporaba informacijske in komunikacijske tehnologije kot vira informacij, komunikacijskega sredstva, orodja pri raziskovalnem delu,
- obvladovanje izbranih raziskovalnih orodij za reševanje problemov v zdravstvu,
- implementacija znanstvenih dognanj v prakso.

Objectives and competences:

- a thorough knowledge of the research methodology (methods, procedures, processes, technologies), and its interdisciplinary application,
- mastering research methods, techniques and procedures,
- being qualified for planning, organisation, and implementation of research,
- being qualified for solving concrete problems of the clinical environment by using the relevant research methodology (critical analysis, theory development, etc.),
- knowledge and application of measurement instruments, assessment scales and other measurement characteristics,
- usage of ICT as a source of information, communication medium, and tool for research work,
- mastering the selected research tools for solving problems in health care,
- implementation of findings into practice.

Predvideni študijski rezultati:

Študent:

- razume strukturo raziskovalnih problemov,
- pozna spremenljivke in njihovo merjenje,
- pozna značilnosti laboratorijskega in naravnega eksperimenta,
- zasnuje načrt eksperimenta/raziskave in ga/jo izvede,
- postavi cilje raziskovanja, raziskovalna vprašanja in hipoteze
- pozna, razume, izbere in uporablja ustrezne statistične metode: anketna metoda, faktorska in komponentna analiza z rotacijami, diskriminativna analiza ...
- izdelava oz. razvije instrument raziskovanja (anketni vprašalnik, predloga za intervju, predloga za analizo dokumentov, merilna lestvica ...),
- pozna karakteristike merilnih instrumentov,
- sklepa, oceni, primerja, razvrsti, analizira, razčleni, poveže, kategorizira, preizkusi in interpretira rezultate raziskave,
- dvomi, preveri, rekonstruira dobljene rezultate,
- ovrednoti, argumentira, generalizira dobljene rezultate,
- usposobi se za posredovanje in diskusijo o dobljenih rezultatih,
- implementira znanstvena dognanja v prakso.

Intended learning outcomes:

Students:

- understand the structure of research problems,
- know the variables and their measurement,
- know the characteristics of laboratory and natural experiment,
- design the plan of an experiment/research and perform it,
- set the objectives of the research, research questions and hypotheses,
- know, understand, select and use the relevant statistical methods: survey method, factor and component analysis with rotations, discriminative analysis, etc.,
- design or develop a research instrument (survey questionnaire, interview questions, draft version of the document analysis, measurement scale, etc.,
- know the characteristics of measurement instruments,
- conclude, evaluate, compare, classify, analyse, combine, categorise, test and interpret the research results,
- doubt, verify, reconstruct the obtained results,
- evaluate, give arguments, and generalise the obtained results,
- qualify for presentation and discussion of the obtained results,
- implement the scientific findings into practice.

Metode poučevanja in učenja:

- *predavanja* z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov),
- *seminarji*:
 - načrt za raziskavo,
 - izvedba raziskave (voden individualni študij),
 - izdelava, predstavitev in zagovor raziskovalne naloge.

Learning and teaching methods:

- lectures with active student participation (explanation, discussion, questions, examples, problem solving),
- seminars:
 - research plan,
 - research implementation (guided individual study),
 - preparation, presentation and defence of the research paper

Načini ocenjevanja:	Delež (v %) / Weight (in %)	Assessment:
<p>Načini:</p> <ul style="list-style-type: none"> • aktivno sodelovanje v organiziranih oblikah pedagoškega dela, • izpit, • temeljna ali aplikativna raziskovalna naloga z zagovorom (obseg 30.000 znakov) <p>Ocenjevalna lestvica: uspešno, neuspešno.</p>	<p>60</p> <p>40</p>	<p>Types:</p> <ul style="list-style-type: none"> • active cooperation in the organised forms of study work, • exam, • fundamental or applicative research paper with defence (30,000 characters) <p>Grading scale: pass, fail</p>