

Medicinski fakultet u Rijeci

IZVEDBENI NASTAVNI PLAN 2024/2025

Za kolegij

Introduction to Scientific Research

Studij:	Medical Studies in English (R) Sveučilišni integrirani prijediplomski i diplomski studij
Katedra:	Katedra za društvene i humanističke znanosti u medicini
Nositelj kolegija:	doc. dr. sc. Pupovac Vanja, prof.
Godina studija:	2
ECTS:	1
Stimulativni ECTS:	0 (0.00%)
Strani jezik:	Mogućnost izvođenja na stranom jeziku

Podaci o kolegiju:

The course "Introduction to Scientific Research" is mandatory for the 2nd year of the Integrated Undergraduate and Graduate University Study of Medicine in English program, encompassing 6 hours of lectures and 14 hours of seminars and enabling the acquisition of one (1) ECTS credit.

After taking the course, students will be able to critically interpret medical research and independently assess the credibility of scientific information.

Popis obvezne ispitne literature:

1. Presentations (PPT);
2. Hulley SB Cummings SR, Browner W S Grady DG, Newman TB, ed., Designing Clinical Research. 4th ed., Philadelphia, USA: Lippincott Williams & Wilkins, A Wolters Kluwer Business; 2013.
3. Matko Marušić, ed., Principles of Research in Medicine, 2nd ed., Zagreb: Medicinska naklada, 2015.

Popis dopunske literature:

Evans I, Thornton H, Chalmers I and Glasziou P. Testing Treatments, 2nd Edition; London: Pinter and Martin. 2011. Available from: <http://www.testingtreatments.org/>

Nastavni plan:

Predavanja popis (s naslovima i pojašnjenjem):

Introductory lecture

Definition of basic characteristics of medical research

Type of variables and data

distinguish types of variables, data and methods of measurement

Population and sample

Understanding the importance of a representative sample in scientific research.

Types of research design

distinguish basic types of medical research

Basics of scientific research ethics

Understand the basic types of dishonesty and bias

Basics of research integrity

Understand the concept of scientific research ethics and describe ethical doubts in the implementation process and data collection, and understand and explain the importance of adhering to ethical principles in scientific research work. Recognize the forms of plagiarism, discuss prevention methods, and analyze the consequences of fraud in science.

Seminari popis (s naslovima i pojašnjenjem):

Basic concepts of medical research

recognize the basic components of the research using examples

Types of variables

recognize different types of variables and methods of measurement

Population and sample

define the basic characteristics of the sample and recognize sampling errors and biases

Research designs

distinguish research designs in medical research

Analysis of scientific paper 1

critically interpret parts of a scientific paper

Analysis of scientific paper 2

critically interpret parts of scientific paper

Design of a research plan

create a research plan on a given topic

Obveze studenata:

Regular class attendance (excused absence of 30% from each form of class is allowed (1 out of 6 lectures; 4 out of 14 seminars).

The student will complete the course if he collects 50% of the points that he can collect in the following way:

Four online quizzes (4x7% = 28%),

Critical analysis of scientific paper 1 (max 28%),

Critical analysis of scientific paper 2 (max 22%),

Design of a research plan (max 20%).

Ispit (način polaganja ispita, opis pisanog/usmenog/praktičnog dijela ispita, način bodovanja, kriterij ocjenjivanja):**Ostale napomene (vezane uz kolegij) važne za studente:**

Absence from classes up to 30% (1 lecture and 4 seminars) assumes a justified reason and cannot be compensated (the exception is a discharge letter from hospital treatment). An absence of more than 30%, regardless of the reasons, entails re-enrollment during the following academic year.

It is impossible to "reject" a positive grade obtained on the final exam, but only act per Article 46 of the Regulations on Studies of the University of Rijeka (a student dissatisfied with the grade submits a written appeal to the dean within 24 hours).

SATNICA IZVOĐENJA NASTAVE 2024/2025

Introduction to Scientific Research

Predavanja (mjesto i vrijeme / grupa)	Seminari (mjesto i vrijeme / grupa)
03.03.2025	
Introductory lecture: <ul style="list-style-type: none">• ONLINE (13:00 - 15:00) [420]<ul style="list-style-type: none">◦ ITSR Type of variables and data: <ul style="list-style-type: none">• ONLINE (13:00 - 15:00) [420]<ul style="list-style-type: none">◦ ITSR	
doc. dr. sc. Pupovac Vanja, prof. [420]	
05.03.2025	
	Basic concepts of medical research: <ul style="list-style-type: none">• ONLINE (14:00 - 16:00) [420]<ul style="list-style-type: none">◦ ITSR Types of variables: <ul style="list-style-type: none">• ONLINE (14:00 - 16:00) [420]<ul style="list-style-type: none">◦ ITSR
doc. dr. sc. Pupovac Vanja, prof. [420]	
10.03.2025	
	Population and sample: <ul style="list-style-type: none">• ONLINE (13:00 - 14:00) [420]<ul style="list-style-type: none">◦ ITSR• ONLINE (14:00 - 15:00) [420]<ul style="list-style-type: none">◦ ITSR
doc. dr. sc. Pupovac Vanja, prof. [420]	
13.03.2025	
	Analysis of scientific paper 1: <ul style="list-style-type: none">• P15 - VIJEĆNICA (10:00 - 13:00) [420]<ul style="list-style-type: none">◦ Intro S1
doc. dr. sc. Pupovac Vanja, prof. [420]	
14.03.2025	
	Analysis of scientific paper 1: <ul style="list-style-type: none">• P15 - VIJEĆNICA (10:00 - 13:00) [2739]<ul style="list-style-type: none">◦ Intro S2
Depope Ana [2739]	
17.03.2025	
Types of research design: <ul style="list-style-type: none">• ONLINE (13:00 - 14:00) [420]<ul style="list-style-type: none">◦ ITSR	Research designs: <ul style="list-style-type: none">• ONLINE (14:00 - 15:00) [420]<ul style="list-style-type: none">◦ ITSR
doc. dr. sc. Pupovac Vanja, prof. [420]	
19.03.2025	

	Analysis of scientific paper 2: <ul style="list-style-type: none"> • P08 (09:00 - 11:00) ^[420] <ul style="list-style-type: none"> ◦ Intro S2
doc. dr. sc. Pupovac Vanja, prof. ^[420]	
20.03.2025	
	Analysis of scientific paper 2: <ul style="list-style-type: none"> • P04 (09:00 - 11:00) ^[2739] <ul style="list-style-type: none"> ◦ Intro S1
Depope Ana ^[2739]	
24.03.2025	
Basics of scientific research ethics: <ul style="list-style-type: none"> • P08 (13:00 - 15:00) ^[142] <ul style="list-style-type: none"> ◦ ITSR Basics of research integrity: <ul style="list-style-type: none"> • P08 (13:00 - 15:00) ^[142] <ul style="list-style-type: none"> ◦ ITSR 	
prof. dr. sc. Muzur Amir, dr. med. ^[142]	
27.03.2025	
	Design of a research plan: <ul style="list-style-type: none"> • P08 (09:00 - 13:00) ^[2739] <ul style="list-style-type: none"> ◦ Intro S2
Depope Ana ^[2739]	
28.03.2025	
	Design of a research plan: <ul style="list-style-type: none"> • P08 (09:00 - 13:00) ^[420] <ul style="list-style-type: none"> ◦ Intro S1
doc. dr. sc. Pupovac Vanja, prof. ^[420]	

Popis predavanja, seminara i vježbi:

PREDAVANJA (TEMA)	Broj sati	Mjesto održavanja
Introductory lecture	1	ONLINE
Type of variables and data	1	ONLINE
Population and sample	1	
Types of research design	1	ONLINE
Basics of scientific research ethics	1	P08
Basics of research integrity	1	P08

SEMINARI (TEMA)	Broj sati	Mjesto održavanja
Basic concepts of medical research	1	ONLINE
Types of variables	1	ONLINE
Population and sample	1	ONLINE
Research designs	1	ONLINE
Analysis of scientific paper 1	3	P15 - VIJEĆNICA

Analysis of scientific paper 2	2	P04 P08
Design of a research plan	5	P08

ISPITNI TERMINI (završni ispit):

1.	11.06.2025.
2.	08.07.2025.
3.	15.09.2025.