Medicinski fakultet u Rijeci

IZVEDBENI NASTAVNI PLAN
2025/2026

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:	**izv. prof. 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):

L1 Introductory lecture

Definition of basic characteristics of medical research

L2 Research designs lecture

distinguish basic types of medical research

L3 Population and sample lecture

Understanding the importance of a representative sample in scientific research.

L4 Variables and data lecture

distinguish types of variables, data and methods of measurement

L5 Basics of scientific research ethics

Understand the basic types of dishonesty and bias

L6 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):

S1 Basic concepts of medical research

recognize the basic components of the research using examples

S2 Research designs

distinguish research designs in medical research

S3 Population and sample

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

S4 Variables

recognize different types of variables and methods of measurement

S5-S7 Analysis of scientific paper 1

critically interpret parts of a scientific paper

S8-S10 Analysis of scientific paper 2

critically interpret parts of a scientific paper

S11-S14 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 2025/2026

Introduction to Scientific Research

Predavanja (mjesto i vrijeme / grupa)	**Seminari** (mjesto i vrijeme / grupa)
02.03.2026	
L1 Introductory lecture: • ONLINE (13:00 - 14:00) [420] ○ ITSR	S1 Basic concepts of medical research: • ONLINE (14:00 - 15:00) [420] ○ ITSR
izv. prof. dr. sc. Pupovac Vanja, prof. [420]	
04.03.2026	
L2 Research designs lecture: • ONLINE (14:00 - 15:00) [420] ○ ITSR	S2 Research designs: • ONLINE (15:00 - 16:00) [420] ○ ITSR
izv. prof. dr. sc. Pupovac Vanja, prof. [420]	
12.03.2026	
	S5-S7 Analysis of scientific paper 1: • P07 (10:00 - 13:00) [2739] ○ Intro S1
Depope Ana [2739]	
13.03.2026	
	S5-S7 Analysis of scientific paper 1: • P05 (10:00 - 13:00) [2739] ○ Intro S2
Depope Ana [2739]	
16.03.2026	
L3 Population and sample lecture: • ONLINE (13:00 - 14:00) [420] ○ ITSR	S3 Population and sample: • ONLINE (14:00 - 15:00) [420] ○ ITSR
izv. prof. dr. sc. Pupovac Vanja, prof. [420]	
23.03.2026	
L4 Variables and data lecture: • ONLINE (13:00 - 14:00) [420] ○ ITSR	S4 Variables: • ONLINE (14:00 - 15:00) [420] ○ ITSR
izv. prof. dr. sc. Pupovac Vanja, prof. [420]	
26.03.2026	
	S8-S10 Analysis of scientific paper 2: • P08 (09:00 - 12:00) [2739] ○ Intro S2
Depope Ana [2739]	
27.03.2026	

	S8-S10 Analysis of scientific paper 2: • P15 - VIJEĆNICA (09:00 - 12:00) [420] ○ Intro S1
izv. prof. dr. sc. Pupovac Vanja, prof. [420]	
30.03.2026	
L5 Basics of scientific research ethics: • P08 (13:00 - 14:00) [142] ○ ITSR L6 Basics of research integrity: • P08 (14:00 - 15:00) [142] ○ ITSR	
prof. dr. sc. Muzur Amir, dr. med. [142]	
20.04.2026	
	S11-S14 Design of a research plan: • Z6 (08:00 - 12:00) [420] ○ Intro S2
izv. prof. dr. sc. Pupovac Vanja, prof. [420]	
22.04.2026	
	S11-S14 Design of a research plan: • Z6 (10:00 - 14:00) [2739] ○ Intro S1
Depope Ana [2739]	

Popis predavanja, seminara i vježbi:

PREDAVANJA (TEMA)	Broj sati	Mjesto održavanja
L1 Introductory lecture	1	ONLINE
L2 Research designs lecture	1	ONLINE
L3 Population and sample lecture	1	ONLINE
L4 Variables and data lecture	1	ONLINE
L5 Basics of scientific research ethics	1	P08
L6 Basics of research integrity	1	P08

SEMINARI (TEMA)	Broj sati	Mjesto održavanja
S1 Basic concepts of medical research	1	ONLINE
S2 Research designs	1	ONLINE
S3 Population and sample	1	ONLINE
S4 Variables	1	ONLINE
S5-S7 Analysis of scientific paper 1	3	P05 P07
S8-S10 Analysis of scientific paper 2	3	P08 P15 - VIJEĆNICA
S11-S14 Design of a research plan	4	Z6

ISPITNI TERMINI (završni ispit):

1.	10.06.2026.
2.	07.07.2026.
3.	14.09.2026.