

Medicinski fakultet u Rijeci

IZVEDBENI NASTAVNI PLAN 2025/2026

Za kolegij

Ethics and Artificial Intelligence

Studij:	Medical Studies in English (R) (izborni) Sveučilišni integrirani prijediplomski i diplomski studij
Katedra:	Katedra za društvene i humanističke znanosti u medicini
Nositelj kolegija:	izv. prof. dr. sc. Horvat Saša
Godina studija:	1
ECTS:	1.5
Stimulativni ECTS:	0 (0.00%)
Strani jezik:	Mogućnost izvođenja na stranom jeziku

Podaci o kolegiju:

Introduce participants with fundamental ethical issues related to the development and application of artificial intelligence.

Popis obvezne ispitne literature:

Lecture presentations.

Christoph Bartneck , Christoph Lütge , Alan Wagner , Sean Welsh, *An Introduction to Ethics in Robotics and AI*, Springer, 2021.
Open access: <https://link.springer.com/book/10.1007/978-3-030-51110-4>

Silja Voenekey, Philipp Kellmeyer, Oliver Mueller, Wolfram Burgard, *The Cambridge Handbook of Responsible Artificial Intelligence: Interdisciplinary Perspectives*, Cambridge, 2022. (selected parts)

High-Level Expert Group on Artificial Intelligence (AI HLEG). *Ethics Guidelines for Trustworthy AI*, Brussels, 2019, available at: <https://ec.europa.eu/futurium/en/ai-alliance-consultation.1.html> (selected parts)

Niklas Lidströmer, Hutan Ashrafian (eds.), *Artificial Intelligence in Medicine*, Springer, 2022. (selected parts)

Popis dopunske literature:

Manda Raz, Tam C. Nguyen, Erwin Loh (eds.), *Artificial Intelligence in Medicine. Applications, Limitations and Future Directions*, Springer, 2022. (selected parts)

Nastavni plan:

Predavanja popis (s naslovima i pojašnjenjem):

Artificial Intelligence

Students will be able to recognize, describe and critically discuss AI topics: The Turing Test; Strong and Weak AI; Types of AI Systems; What Is Machine Learning?; What Is a Robot?; Sense-Plan-Act / System Integration; What Is Hard for AI; Science and Fiction of AI.

Ethical theories related to AI

Students will be able to describe and discuss fundamental elements of ethical theories related to AI, such as: Descriptive Ethics; Normative Ethics; Deontological Ethics; Consequentialist Ethics; Virtue Ethics; Meta-ethics; Applied Ethics; Relationship Between Ethics and Law; Machine Ethics / Machine Ethics Examples / Moral Diversity and Testing.

Introduction to the topic

Students will be able to explain the fundamental concepts related to the topic of ethics of artificial intelligence.

Seminari popis (s naslovima i pojašnjenjem):

Trust and Fairness in AI Systems

Students will be able to recognize and identify the key aspects of trust and fairness in AI Systems.

Responsibility and Liability in the Case of AI Systems

Students will be able to identify the main arguments concerning responsibility and liability in the case of AI systems.

Psychological Aspects of AI

Students will be able to recognize and identify main issues regarding psychological aspects of AI.

Privacy Issues of AI

Students will be able to describe and discuss fundamental elements of privacy issues of AI.

Application Areas of AI

Students will be able to identify the main concerns regarding application areas of AI.

Artificial Intelligence

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Ethical theories related to AI

Students will be able to describe and discuss fundamental elements of ethical theories related to AI, such as: Descriptive Ethics; Normative Ethics; Deontological Ethics; Consequentialist Ethics; Virtue Ethics; Meta-ethics; Applied Ethics; Relationship Between Ethics and Law; Machine Ethics / Machine Ethics Examples / Moral Diversity and Testing.

Presentations of students' essays on selected topics

Students critically analyze a selected topic related to ethics and artificial intelligence and showcase their depth of understanding and analytical skills.

Obveze studenata:

Regular attendance, written seminar paper and final examination.

Ispit (način polaganja ispita, opis pisanog/usmenog/praktičnog dijela ispita, način bodovanja, kriterij ocjenjivanja):

Assessment is carried out in accordance with the Rules of Assessment of the Faculty of Medicine, University of Rijeka: course attendance 54 (%), written seminar paper 23 (%), and final exam 23 (%).

Ostale napomene (vezane uz kolegij) važne za studente:

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SATNICA IZVOĐENJA NASTAVE 2025/2026

Ethics and Artificial Intelligence

Predavanja (mjesto i vrijeme / grupa)	Seminari (mjesto i vrijeme / grupa)
12.03.2026	
Artificial Intelligence: <ul style="list-style-type: none">• ONLINE (16:00 - 20:15) [1602]<ul style="list-style-type: none">◦ EAAI Ethical theories related to AI: <ul style="list-style-type: none">• ONLINE (16:00 - 20:15) [1602]<ul style="list-style-type: none">◦ EAAI Introduction to the topic: <ul style="list-style-type: none">• ONLINE (16:00 - 20:15) [1602]<ul style="list-style-type: none">◦ EAAI	
izv. prof. dr. sc. Horvat Saša [1602]	
26.03.2026	
	Trust and Fairness in AI Systems: <ul style="list-style-type: none">• ONLINE (16:00 - 20:15) [1602]<ul style="list-style-type: none">◦ EAAI Privacy Issues of AI: <ul style="list-style-type: none">• ONLINE (16:00 - 20:15) [1602]<ul style="list-style-type: none">◦ EAAI
izv. prof. dr. sc. Horvat Saša [1602]	

Popis predavanja, seminara i vježbi:

PREDAVANJA (TEMA)	Broj sati	Mjesto održavanja
Artificial Intelligence	2	ONLINE
Ethical theories related to AI	2	ONLINE
Introduction to the topic	1	ONLINE

SEMINARI (TEMA)	Broj sati	Mjesto održavanja
Trust and Fairness in AI Systems	3	ONLINE
Responsibility and Liability in the Case of AI Systems	3	
Psychological Aspects of AI	1	
Privacy Issues of AI	2	ONLINE
Application Areas of AI	1	

Artificial Intelligence	4	
Ethical theories related to AI	3	
Presentations of students' essays on selected topics	3	

ISPITNI TERMINI (završni ispit):
