

Medicinski fakultet u Rijeci

## IZVEDBENI NASTAVNI PLAN 2022/2023

Za kolegij

# Artificial Intelligence

|                    |                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| Studij:            | <b>Medical Studies in English (R)</b> (izborni)<br>Sveučilišni integrirani prijediplomski i diplomski studij |
| Katedra:           | <b>Centar za biomodeliranje i inovacije u medicini</b>                                                       |
| Nositelj kolegija: | <b>izv. prof. dr. sc. Maričić Sven</b>                                                                       |
| Godina studija:    | <b>2</b>                                                                                                     |
| ECTS:              | <b>1.5</b>                                                                                                   |
| Stimulativni ECTS: | <b>0 (0.00%)</b>                                                                                             |
| Strani jezik:      | <b>Mogućnost izvođenja na stranom jeziku</b>                                                                 |

## **Podaci o kolegiju:**

Overview of the field and development of artificial intelligence (AI). The Turing Test. Importance and perspectives of artificial intelligence in biomedicine. Topology of neural networks. Methods and techniques of artificial intelligence. Basic concept of machine learning. Application of neural networks, genetic algorithm. Robotics and artificial intelligence in the biomedical field. Working with data – assessment of basic parameters through image recording. The perspective of AI in biomedical systems. Application trends and direction of future development.

## **Popis obvezne ispitne literature:**

- Russel S., Norvig P.: Artificial Intelligence: A Modern Approach, 2021, ISBN: 978-0134610993
- Topol E.: Deep Medicine: How Artificial Intelligence Can Make Healthcare Human Again, 2019, ISBN: 978-1541644632
- Agah A.: Medical Applications of Artificial Intelligence, CRC Press 2017, ISBN: 978-1138072275

## **Popis dopunske literature:**

- Smith B., C.: The Promise of Artificial Intelligence, MIT press 2019, ISBN: 978-0262043045
- Crayton E.D.: Redefining Life Sciences with Artificial Intelligence and Blockchain, 2019, ISBN: 978-1795786737

## **Nastavni plan:**

### **Obveze studenata:**

Regular attendance of classes, writing of a seminar paper.

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

**Ostale napomene (vezane uz kolegij) važne za studente:**

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## **SATNICA IZVOĐENJA NASTAVE 2022/2023**

Artificial Intelligence

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**Popis predavanja, seminara i vježbi:**

**ISPITNI TERMINI (završni ispit):**

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