Medicinski fakultet u Rijeci

IZVEDBENI NASTAVNI PLAN
2026/2027

Za kolegij

Toxicology

Studij:	**Medical Studies in English (R)** (izborni) Sveučilišni integrirani prijediplomski i diplomski studij
Katedra:	**Zavod za temeljnu i kliničku farmakologiju s toksikologijom**
Nositelj kolegija:	**prof. dr. sc. Mršić-Pelčić Jasenka, dr. med.**
Godina studija:	**4**
ECTS:	**1.5**
Stimulativni ECTS:	**0 (0.00%)**
Strani jezik:	**Mogućnost izvođenja na stranom jeziku**

Podaci o kolegiju:

The Toxicology course is an optional course in the fourth year of the Integrated Undergraduate and Graduate University Study in Medicine and consists of 25 hours of seminars (1.5 ECTS).

The aim of the course is to train students for active and professional involvement in the processes of monitoring, control and protection against the effects of toxic substances on the human body, as well as on other living beings, and for the prevention and treatment of poisoning; developing a critical approach to the toxicity of certain poisons and potentially toxic substances.

The content of the course is as follows:

Toxicology of drugs; Substances of addiction; Toxicology of food and drinking water: additives and contaminating substances in food and drinking water, drugs in veterinary medicine; Diagnosis and treatment of acute poisoning; Diagnosis and treatment of chronic poisoning; Manifestations of poisoning on target organs - diagnosis and therapy of poisoning: immunotoxicology; toxicology of the respiratory system, liver, kidneys, skin, eye, central nervous system, reproductive and cardiovascular systems; Urgent conditions in toxicology; Peculiarities of treatment of poisoning in children, pregnant women and the elderly; Poisonous plants and animals; Poisoning by marine organisms; Control of biological drugs.

Popis obvezne ispitne literature:

Lu F.: Toxicology: Fundamentals, Target Organs and Risk Assesments, Taylor and Francis, 1996.

Popis dopunske literature:

Timbrell JA: Introduction to toxicology, Taylor & Frances, 2002.

De Matteis F.: Molecular and Cellular Mechanisms of Toxicity, Crc Press Inc, 1995.

Casarett & Doulls Toxicology: Basic Science of Poisons, 6. izdanje, 2001.

Nastavni plan:

Seminari popis (s naslovima i pojašnjenjem):

S1. Introduction; Paracetamol Poisoning: Mechanisms, Diagnosis and Treatment; Drug-Induced Liver Injury (DILI)

S2. QT Prolongation and Drug-Induced Cardiotoxicity; Serotonin Syndrome and Drug Interactions; Opioiud Toxicity and Overdose

S3. Methotrexate Toxicity; Lithium Toxicity

S4. Drug-Induced Mitochondrial Toxicity; Anticancer Drug Toxicity; Toxicity of Antituberculosis Drugs

S5. Final evaluation and Conclusion

Obveze studenata:

Students are obliged to attend classes regularly and actively participate in them.

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

Written exam, final mark is formed based on the points obtained from the activities at the seminars and the written exam.

Ostale napomene (vezane uz kolegij) važne za studente:

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SATNICA IZVOĐENJA NASTAVE 2026/2027

Toxicology

Seminari (mjesto i vrijeme / grupa)
03.11.2026
S1. Introduction; Paracetamol Poisoning: Mechanisms, Diagnosis and Treatment; Drug-Induced Liver Injury (DILI): • ONLINE (16:00 - 20:00) [172]   ○ Tox
prof. dr. sc. Mršić-Pelčić Jasenka, dr. med. [172]
04.11.2026
S2. QT Prolongation and Drug-Induced Cardiotoxicity; Serotonin Syndrome and Drug Interactions; Opioiud Toxicity and Overdose: • ONLINE (16:00 - 20:00) [172]   ○ Tox
prof. dr. sc. Mršić-Pelčić Jasenka, dr. med. [172]
05.11.2026
S3. Methotrexate Toxicity; Lithium Toxicity: • ONLINE (16:00 - 20:00) [172]   ○ Tox
prof. dr. sc. Mršić-Pelčić Jasenka, dr. med. [172]
06.11.2026
S4. Drug-Induced Mitochondrial Toxicity; Anticancer Drug Toxicity; Toxicity of Antituberculosis Drugs: • ONLINE (16:00 - 20:00) [172]   ○ Tox
prof. dr. sc. Mršić-Pelčić Jasenka, dr. med. [172]
09.11.2026
S5. Final evaluation and Conclusion: • ONLINE (16:00 - 20:00) [172]   ○ Tox
prof. dr. sc. Mršić-Pelčić Jasenka, dr. med. [172]

Popis predavanja, seminara i vježbi:

SEMINARI (TEMA)	Broj sati	Mjesto održavanja
S1. Introduction; Paracetamol Poisoning: Mechanisms, Diagnosis and Treatment; Drug-Induced Liver Injury (DILI)	5	ONLINE
S2. QT Prolongation and Drug-Induced Cardiotoxicity; Serotonin Syndrome and Drug Interactions; Opioiud Toxicity and Overdose	5	ONLINE
S3. Methotrexate Toxicity; Lithium Toxicity	5	ONLINE
S4. Drug-Induced Mitochondrial Toxicity; Anticancer Drug Toxicity; Toxicity of Antituberculosis Drugs	5	ONLINE

S5. Final evaluation and Conclusion	5	ONLINE

ISPITNI TERMINI (završni ispit):