



Medicinski fakultet u Rijeci

IZVEDBENI NASTAVNI PLAN 2024/2025

Za kolegij

Occupational Medicine

Studij: Medical Studies in English (R)

Sveučilišni integrirani prijediplomski i diplomski studij

Katedra: Katedra za obiteljsku medicinu Nositelj kolegija: prof. dr. sc. Lalić Hrvoje, dr. med.

Godina studija: 6
ECTS: 1.5
Stimulativni ECTS: 0 (0.00%)

Strani jezik: Mogućnost izvođenja na stranom jeziku

Podaci o kolegiju:

Course aims:

The **course Occupational Medicine** is an obligatory course at the sixth year of the Integrated undergraduate and graduate university study of Medicine. It consists of 15 hours of lectures, 3 hours of seminars and 2 hours of practicals. The course has two aims. The first aim is to learn about the factors affecting the work environment, and the second aim is to learn how to assess biological factors arising in or from the workplace. It is necessary to recognize changes in the body provoked by the work environment, especially if the values of different chemicals exceed permitted values (dose-response curves in toxicology), which can cause various diseases. Therefore, medical doctors are an indispensable part of every industrial plant, presented directly to help the employer as well as employees to protect the environment and workers' health.

Course content:

Occupational medicine: assessment of factors affecting the work environment, lighting, thermal environment, non-ionizing and ionizing radiation, biological effects, dosimetry, radiation protection. Workplace chemical factors, gases, vapors, aerosols. Assessment of occupational capacity, functional diagnostics, ergometry, spirometry. Workplace accidents, occupational diseases. The vision and hearing tests, audiometry. Pneumoconiosis, pneumopathy, exposure to heavy metals. Disability prevention, professional orientation and selection. Occupational health management, motivation for work, occupational psychology.

Sports medicine: basis of physiology, kinesiology, theory and methodology of sports training, anaerobic and aerobic sources, conditioning, tests.

Course teaching:

Classes are conducted in the form of lectures, seminars and practicals organized in the field and industrial sites. During the course, there will be written tests covering the factors that affect the work environment, a multiple-choice test and a short seminar paper. There is an oral exam planned for the end of classes.

Popis obvezne ispitne literature:

- 1. Oxford Handbook of Occupational Health. (2 nd ed). Julia Smedley, Finlay Dick. Oxford University Press 2013. ISBN: 13:9780199651627
- 2. Lalić H. PowerPoint presentations. (included all lectures in the English language)

Popis dopunske literature:

Nastavni plan:

Predavanja popis (s naslovima i pojašnjenjem):

L1. History of OM

The first written documents that mention OM, occupational diseases.

P2. Environmental factors

Physical, chemical and biotic factors.

L3. Noise

Acquisition of audiometry reading skills, assessment if noise performance. Vibration division, vibration disease, 3 levels of noise protection

P4. Heating environment

Heating equatation. Heating factors. Clinical manifestations.

P5. Brightness

Vision requirements at the workplace. Vision impairment, glare protection. Working on the computer

L6. Chemical factors

Classification into gases, vapors and aerosols. Calculation of TWA.

L7. Non-ionizing radiation

Classification, units of measurement, absorbed doses, dosimetry.

L8. Ionizing radiation

Classification, units of measurement, absorbed doses, dosimetry.

L9. Metals

Heavy metals - lead, mercury, chromium, nickel, cadmium, copper, zinc.

P10. Crude oil. Petroleum.

Distillation. Aliphatic and aromatic hydrocarbons.

L11. Pneumoconiosis

Occupational lung diseases, diagnostic X-ray.

P12. Injuries at work.

Prevention.

P13. Working Phsyology

L14. Sports medicine

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L15. Compensatory curves

Physiological changes

Vježbe popis (s naslovima i pojašnjenjem):

P1 Fire brigade. Description, P2 Work protection. Protection of the fire

Rijeka Public Fire Brigade. Workplace hazards, fire suppression equipment, protective clothes. Measurement of workplace noise. Firefighters – divers, compressed air, health status of firefighters. Decompression sickness. Recompression. Medical examination. Psychological examination. There are 2 hours of practicals.

Seminari popis (s naslovima i pojašnjenjem):

S1 Noise assessment , S2 Brightness, S3 Chemical factors

There are 3 hours of seminars that cover workplace noise, lighting and chemical factors. Students need to calculate after measurements and conclude if working conditions are satisfying

Obveze studenata:

Students are obligated to regularly attend all forms of classes according to the Study Regulations.

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

ECTS credit grading system:

Student grading is conducted according to the current University of Rijeka Study Regulations and the Ordinance on Student Assessment and Evaluation at the Faculty of Medicine in Rijeka (adopted by the Faculty Council of the Faculty of Medicine in Rijeka). Student work is assessed and evaluated during classes and on the final exam. Out of **100 grade points**, the student can achieve **70 grade points** during classes and **30 grade points** on the final exam.

Assessment is conducted using the ECTS (A-E) system derived by absolute distribution and numerical system (1-5). Out of a maximum of 70 grade points, the student has to achieve 35 grade points to access the final exam. Students who achieve less than 35 grade points have the right to one retake.

During classes, students achieve grade points for active participation in classes, solving assignments and taking the midterm exams.

The following is evaluated during classes (maximum of 70 grade points):

- a. Midterm exam covering the general part of OM **(6-15 grade points)** three questions about the factors affecting the work environment
- b. Compulsory solving of assignments factors affecting the work environment **(6-15 grade points)** calculate noise, lighting and chemical factors
- c. Midterm exam covering the visitation to workplaces (industry) **(9–20 grade points)** describe types of industry, health hazards; protective measures
- d. Midterm exam covering the special part of OM **(6-20 grade points)** four questions (metals, pneumoconiosis, plastics, pesticides).

Class attendance

The student can be absent from up to 30% of classes due to health reasons, which is justified by a medical certificate (doctor's note). Attendance at seminars and practicals is compulsory. If the student is unjustifiably absent from more than 30% of classes, they lose the right to take the final exam. In this way, the student obtains 0 ECTS credits and an F grade.

Grading in the ECTS system

Student success is expressed by the ECTS grading scale in percentages from 0 to 100%. The passing grade at the graduate level cannot be lower than 50%.

I. A - 90-100% points

II. B - 75-89.9% points

III. C - 60-74.9% points

IV. D - 50-59.9% points

Conversion into the numerical system:

I. A – excellent (5)

II. B - very good (4)

III. C - good (3)

IV. D - sufficient (2)

Ostale napomene (vezane uz kolegij) važne za studente:

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SATNICA IZVOĐENJA NASTAVE 2024/2025

Occupational Medicine

Predavanja (mjesto i vrijeme / grupa)	Vježbe (mjesto i vrijeme / grupa)	Seminari (mjesto i vrijeme / grupa)
01.10.2024		
L1. History of OM: • P01 (17:00 - 20:00) [384] • OM_398		
P2. Environmental factors: • P01 (17:00 - 20:00) [384] • OM_398		
L3. Noise: • P01 (17:00 - 20:00) [384] • OM_398 P4. Heating environment:		
• P01 (17:00 - 20:00) [384] • OM_398		
prof. dr. sc. Lalić Hrvoje, dr.	med. ^[384]	
02.10.2024		
P5. Brightness: • P01 (17:00 - 20:00) [384] • OM_398		
L6. Chemical factors: • P01 (17:00 - 20:00) [384]		
 OM_398 L7. Non-ionizing radiation: P01 (17:00 - 20:00) [384] 		
 OM_398 L8. Ionizing radiation: P01 (17:00 - 20:00) [384] OM_398 		
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prof. dr. sc. Lalić Hrvoje, dr. med. ^[384]		
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P2. Environmental factors	1	P01
L3. Noise	1	P01
P4. Heating environment	1	P01
P5. Brightness	1	P01
L6. Chemical factors	1	P01
L7. Non-ionizing radiation	1	P01
L8. Ionizing radiation	1	P01
L9. Metals	1	P01
P10. Crude oil. Petroleum.	1	P01
L11. Pneumoconiosis	1	P01
P12. Injuries at work.	1	P01
P13. Working Phsyology	1	P01
L14. Sports medicine	1	P01
L15. Compensatory curves	1	P01

VJEŽBE (TEMA)	Broj sati	Mjesto održavanja
P1 Fire brigade. Description, P2 Work protection. Protection of the fire	2	ONLINE

SEMINARI (TEMA)	Broj sati	Mjesto održavanja
S1 Noise assessment , S2 Brightness, S3 Chemical factors	3	CPDORS

ISPITNI TERMINI (završni ispit):

1.	04.11.2024.
2.	23.10.2024.
3.	10.01.2025.