[Medicinski fakultet u Rijeci]

Curriculum
2022/2023

[Za kolegij]

Occupational Medicine

Study program:	**Medical Studies in English (R)** [Sveučilišni integrirani prijediplomski i diplomski studij]
Department:	**[Katedra za obiteljsku medicinu]**
Course coordinator:	**prof. dr. sc. Lalić Hrvoje, dr. med.**
Year of study:	**6**
ECTS:	**1.5**
Incentive ECTS:	**0 (0.00%)**
Foreign language:	**Possibility of teaching in a foreign language**

Course information:

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.

List of assigned reading:

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)

List of optional reading:

Curriculum:

Student obligations:

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

Exam (exam taking, description of the written/oral/practical part of the exam, point distribution, grading criteria):

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)

Other notes (related to the course) important for students:

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COURSE HOURS 2022/2023

Occupational Medicine

List of lectures, seminars and practicals:

EXAM DATES (final exam):
