

SYLLABUS

1. Course title:

MEDICINE AND PSYCHOPHYSIOLOGY OF WORK

2. Code:

3. Cycle of study:

4. ECTS credits:

5. Type of course:

 Mandatory Elective

6. Prerequisites:

7. Class restrictions:

8. Duration / semester:

9. Weekly contact hours:

9.1. Lectures:

9.2. Seminars:

9.3. Laboratory/Practice classes:

10. Faculty:

Faculty of Technology

11. Department/study program:

Environmental Protection Engineering

12. Lecturer:

13. Lecturer's e-mail:

14. Web site:

www.tf.untz.ba

15. Course aims:

To introduce students to the principles of work physiology, work hygiene, certain areas of professional pathology (physical agents, professional lung diseases, biological agents, malignant diseases, etc.), assessment of work ability and health promotion at work.

16. Learning outcomes:

After completion the course, students will understand the impact of workload and working environment on the health of workers.

17. Course content:

Physiology of work (psychophysiology of work, fatigue, premature, homeostasis of the organism); Occupational diseases, diseases related to work, injuries at work; The agents of a physical nature (noise, vibration, radiation, etc.) and biological nature (hepatitis, HIV, rabies, etc.), their interactions, environmental monitoring, assessment of the workplace; Professional pulmonary diseases (silicosis, asbestosis, chronic bronchitis etc); Professional cancer (carcinogenic, prevention); Basic principles of work ability assessment; The aim and methods of promoting health at work.

18. Learning methods:

The following activities of successful learning are planned: concrete experience and reflection. Learning styles are preferred: visual style, auditory, logical-mathematical and stand-alone. The most important learning methods in the subject are:

- Lectures with the use of multimedia resources, active learning techniques and with active participation and discussion of students;
- Experimental exercises

19. Assessment methods:

Throughout the course, students are required to regularly attend lectures and exercises. Students' attendance records will be regularly kept. On a special form, the subject teacher will continuously monitor the presence of each student. During the semester, the student can be absent with a maximum of three lectures and three exercises, being obliged to bring proof of justification of absence (medical certificate, etc.). In the case of more unexcused absences, the student loses the right to the signature of the teacher.

- TESTS - Two tests throughout the semester, for the oral part of the exam. Each test for the oral part of the exam, consists of 20 short theoretical questions related to the previously processed material and carries 15 points (for a passing grade, one should achieve a minimum of 8 points). Tests are usually conducted after every six weeks of lectures, whereby the subject teacher will announce them to the students at least two weeks before each test.
- LABORATORY EXERCISES: the student is obliged to do all laboratory exercises, and based on activity in exercises can achieve a maximum of 25 points (for a passing grade should achieve a minimum of 12 points).
- FINAL PART OF THE EXAM - Students who have collected the required number of points by all criteria (54 points), have the option of additional (verbally or in writing exam) for a higher final grade. The maximum number of points that can be obtained on the final exam is 30. The minimum number of points, which must be reached on the final exam is 18.

All the students who did not meet the conditions in one of the tests or who are not satisfied with the grade, but who have completed all other obligations of the course (have the signature of the subject teacher in the index) take the final exam. The student can not get a final grade if he has not passed all the tests.

- SEMINAR WORK OF STUDENTS: student has the opportunity to do one seminar work. Successfully prepared and verbally performed seminar work is evaluated with a maximum of 10 points (minimum 6 points), which are added to the total number of points achieved on other bases, in the formation of the final grade.

20. Assessment components:

The final grade is based on the total number of points obtained through prerequisites and the final exam, according to the quality of the acquired knowledge and skills. It has a maximum of 100 points, according to the following scale:

Regularity of teaching attendance (lectures + exercises): 5 points

Activity in laboratory exercises: 25 points

Tests (theory): 30 points

Seminar paper: 10 points

Final exam: 30 points

21. Required reading list:

Arandžević M, Jovanović J (2009). Medicina rada. Medicinski fakultet, Niš.

Mikov M (2007). Medicina rada. Ortomediss, Novi Sad.

Šarić M, Žuškin E (2002). Medicina rada i okoliša. Medicinska naklada

22. Web sources:**23. Applicable starting from the academic year:**

2015/2016

24. Adopted in the Faculty/Academy session: