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|  | | | **UNIVERSITY OF EAST SARAJEVO**  Faculty of Medicine Foča | | | | | | | | | | | logo | | | |
| ***Study program: Nursing*** | | | | | | | | | | |
| I study year | | | | | | II study year | | | | |
| **Full subject title** | | | PROTECTION IN THE WORKPLACE AND PATIENT SAFETY | | | | | | | | | | | | | | |
| **Department** | | | Department of Primary Health Care and Public Health, Faculty of Medicine Foča | | | | | | | | | | | | | | |
| **Subject code** | | | | | | **Subject status** | | | | | **Semester** | | | **ECTS** | | | |
|
| NU-05-1-020-4 | | | | | | compulsory | | | | | IV | | | 3 | | | |
| **Professor/ -s** | | Assistant professor Martin Popević, PhD | | | | | | | | | | | | | | | |
| **Associate/ - s** | | Assistant Mirka Jojić | | | | | | | | | | | | | | | |
| **Number of lectures/ teaching workload (per week)** | | | | | | | **Individual student workload (in hours per semester)** | | | | | | | | **Coefficient of student workload So[[1]](#footnote-1)** | | |
| **L** | **E** | | | | **SP** | | **L** | | | **E** | | **SP** | | | **So** | | |
| 2 | 1 | | | | 0 | | 50 | | | 25 | | 0 | | | 1,66 | | |
| total teaching workload (in hours, per semester)  15+15+0=30 | | | | | | | | total student workload (in hours, per semester)  50+ 25+0=75 | | | | | | | | | |
| Total subject workload (teaching + student): 30+75= 105 hours per semester | | | | | | | | | | | | | | | | | |
| **Learning outcomes** | | After attending and passing the exam:   1. Students should acquire knowledge of the organisation of occupational medicine. 2. They should learn about occupational hazards, health impairments, and health protection in the workplace. 3. Students should develop skills related to examining and assessing working environment conditions, occupational diseases, and poisonings. 4. They should understand the prevention of work incapacity and the application of preventive workplace safety measures. | | | | | | | | | | | | | | | |
| **Preconditions** | | No preconditions | | | | | | | | | | | | | | | |
| **Teaching methods** | | Lectures, exercises, seminar, colloquium | | | | | | | | | | | | | | | |
| **Subject content per week** | | **Lectures:**   1. Subject, Objectives, and Organisation of Occupational Medicine   Scope of occupational medicine activities in our country and abroad. Lists of occupational diseases. Workers' rights related to occupational diseases and workplace injuries. The most common occupational diseases among healthcare workers. Basic concepts of work physiology. Bioenergetics during work. Adaptation of the cardiovascular, respiratory, and locomotor systems to physical work. Fatigue and overfatigue. Measures for preventing fatigue and overfatigue.   1. Occupational Stress. Types of occupational stress. Workplace bullying (mobbing). The impact of working conditions on the health of women and youth. Medical and legal measures for protecting women and youth in the workplace. 2. Ionising and non-ionising radiation in the workplace, permissible radiation doses, sources of ionising radiation in healthcare, monitoring of ionising radiation in the workplace and the environment, acute and chronic radiation syndrome. 3. Occupational respiratory diseases, dust as an occupational hazard, pneumoconioses: silicosis, asbestosis, coal workers' pneumoconiosis, technical and medical preventive measures for pneumoconioses. 4. Respiratory irritants, occupational asthma, occupational chronic obstructive pulmonary disease, byssinosis, and occupational hypersensitivity pneumonitis. 5. Occupational Toxicology. Basic characteristics of occupational intoxications. Metal intoxications and their compounds. 6. Occupational poisoning by toxic gases and protective measures. 7. Occupational poisoning by organic solvents.   Occupational poisoning by pesticides and protective measures.  Harmful effects of noise and vibration on workers' bodies.  Occupational skin diseases.   1. Професионални трауматизам. Узроци и извори повреда на раду. Индекси фреквенције и тежине повреда на раду. Превенција повреда на раду. Медицинске и техничке мјере превенције. Лична заштитна средства. 2. Work-Related Diseases. Definitions and classifications by the World Health Organization. Causes of work-related diseases. Ergonomics in the workplace. The importance of ergonomics for disease prevention and maintaining work capacity. 3. Working Conditions, Risks, and Requirements in Healthcare. Specific issues related to the protection of healthcare workers. Assessment of work capacity – general principles. Indications for work capacity assessment. Legal regulations in the Republic of Srpska and surrounding countries. 4. Assessment of temporary and permanent work incapacity in patients with the most common cardiovascular, respiratory, psychiatric, and other diseases. 5. Risk Assessment in the Workplace and Working Environment. Types of risks, domestic regulations, and European Union directives. 6. Development of Risk Assessment Documents for the Workplace and Working Environment.   Control and risk management in healthcare.   1. Domestic and International Regulations and Recommendations for Occupational Health   Recommendations from the World Health Organization, International Labour Organization conventions, and European Union directives.  **Exercises:**   1. Occupational History and Specificities of Examining Workers with Occupational Diseases 2. Occupational Hazards and Risks in the Workplace. Analysis and evaluation of microclimate measurements, dust, and chemical hazards in the working environment. 3. Presentation and Evaluation of Noise Measurement Results in the Workplace. Presentation of audiometric findings in cases of occupational hearing impairment. 4. Workplace Safety Measures. Presentation of collective and personal protective equipment in the workplace. 5. Presentation of Medical Findings in Individuals Exposed to Ionising Radiation. Presentation of film and TLD dosimeters and radiation dose measurement results. Presentation and analysis of ionising radiation source measurements in healthcare. Analysis of applied protection from ionising radiation in the workplace. 6. Analysis of Lists of Occupational Diseases. Lists from the Republic of Srpska, Serbia, Montenegro, Croatia, Slovenia, North Macedonia, and key European Union countries. Similarities and differences in the mentioned lists. 7. Preventive Medical Examinations for Workers 8. Occupational Respiratory Diseases. Presentation of cases with pneumoconiosis. Demonstration of a set of radiographic images of different categories of pneumoconiosis: silicosis, asbestosis, and familiarising students with the International Radiographic Classification. 9. Occupational Respiratory Diseases. Presentation of a case of occupational asthma and occupational chronic obstructive pulmonary disease. 10. Occupational Toxicology. Presentation of a case of occupational poisoning by metals and pesticides. 11. Occupational Toxicology. Presentation of a case of occupational poisoning by organic solvents and gases. 12. Occupational Skin Diseases. Seminar, simulation of a case of occupational contact dermatitis. 13. Occupational Trauma. Analysis of reports on workplace injuries. Calculation of the frequency index and severity index. 14. Occupational Diseases in Healthcare Workers. Seminar – simulation of a case of viral hepatitis and chronic recurrent urticaria. 15. Assessment of Work Capacity. Presentation of medical documentation cases with work capacity assessment. Completing forms for referring insured individuals for work capacity evaluation to the Pension and Disability Insurance Fund. | | | | | | | | | | | | | | | |
| **Compulsory literature** | | | | | | | | | | | | | | | | | |
| **Author/s** | | | | **Publication title/Publisher** | | | | | | | | | **Year** | | **Pages (from-to)** | | |
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| *Barry S. Levy, David H. Wegman, ed.*  *Joseph Ladou & Robert Harrison* | | | | *Occupational Health, Recognizing and Preventing Work-Related Disease and Injury, Lippincott Williams&Wilkins, Philadelphia 2000.,*  *Occupational & Enviromental Medicine*  *McGraw Hill 2014* | | | | | | | | | 2000  2014 | |  | | |
| **Additional literature** | | | | | | | | | | | | | | | | | |
| **Author/s** | | | | **Publication title/Publisher** | | | | | | | | | **Year** | | **Pages (from-to)** | | |
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| **Student responsibilities, types of student assessment and grading** | | **Grading policy** | | | | | | | | | | | **Points** | | | | **Percentage** |
| Pre-exam activities | | | | | | | | | | | | | | | |
| lecture/exercise attendance | | | | | | | | | | | 10 | | | 10% | |
| seminar paper | | | | | | | | | | | 10 | | | 10% | |
| colloquium | | | | | | | | | | | 30 | | | 30% | |
| Final exam | | | | | | | | | | | | | | | |
| written | | | | | | | | | | | 50 | | | 50% | |
| TOTAL | | | | | | | | | | | 100 | | | 100 % | |
| **Certification date** | | December 2024. | | | | | | | | | | | | | | | |

1. The coefficient of student workload So is calculated as it follows:

   а) for the study programs not going through the licensing process: So = (total workload in semester for all of the subjects 900 hrs – total teaching workload L+E in semester for all of the subjects 870 hrs)/ total teaching workload L+E in semester for all of the subjects \_\_\_\_\_ hrs = \_\_\_\_. Consult form content and its explanation.

   b) for the study programs going through the licensing process, it is necessary to use form content and its explanation. [↑](#footnote-ref-1)