

<b>Study program:</b> Integrated academic studies in medicine			
<b>Type and level of the study program:</b> integrated academic studies			
<b>Course title: Occupational medicine (M6-OCCM)</b>			
<b>Teacher:</b> Ivan M. Mikov, Bela L. Prokeš			
<b>Course status:</b> compulsory			
<b>ECTS Credits: 2</b>			
<b>Condition:</b> Internal medicine; Social medicine			
<b>Course aim</b>			
Education in field of occupational medicine i.e. occupational health and safety measures at work.			
<b>Expected outcome of the course:</b>			
Students should adopt knowledge concerning organization of occupational medicine, occupational hazards, occupational diseases, preventive health surveillance at work, work physiology, occupational toxicology, workplace injuries and health protection of various occupational groups. Students should adopt skills related to: evaluation of working environment, occupational diseases and intoxications, work ability assessments, prevention of injuries at work, prevention of work disability and application of work safety measures.			
<b>Course description</b>			
<i>Theoretical education</i>			
Introduction to occupational medicine 2. Work physiology 3. Physical hazards in work environment 4. Radiation in work environment 5. Occupational respiratory diseases 6. Occupational toxicology – metals 7. Occupational toxicology – toxic gases 8. Occupational toxicology – organic solvents 9. Occupational toxicology – pesticides 10. Work conditions in some industries			
<i>Practical education: exercises, other forms of education, research related activities</i>			
Microclimate of working environment 2. Heat indices and evaluation of microclimate conditions 3. Air pollution of working environment – dust 4. Air pollution of working environment – gasses and vapors 5. Noise level evaluation 6. Workplace injuries 7. Pneumoconiosis – radiology classification 8. Work ability assessment in diseases due to organic dust 9. Work ability assessment in diseases due to vibrations 10. Work ability assessment in occupational skin and infectious diseases 11. Work ability assessment in intoxications due to organophosphorous pesticides 12. Work ability assessment in occupational liver and haematopoietic disorders 13. Work ability assessment in occupational musculoskeletal disorders 14. Work ability assessment in persons exposed to ionizing radiation 15. Characteristics of work conditions in some branches of industry			
<b>Literature</b>			
<i>Compulsory</i>			
1. Levy B. Occupational and environmental health. New York: Oxford University Press, 2011.			
2. Guidotti TL. Global occupational health. New York: Oxford University Press, 2011.			
<i>Additional</i>			
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<b>Number of active classes</b>			Other:
Lectures: 15	Practice: 30	Other types of teaching:	
Research related activities:			
<b>Teaching methods</b> Lectures, practice			
<b>Student activity assessment</b> (maximally 100 points)			
<b>Pre-exam activities</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
Lectures	15	Written	55
Practices	30	Oral	
Colloquium		.....	
Essay			