Course Title	Human factors						
Course Code	OSH615	OSH615					
Course Type	Compulsory	Compulsory					
Level	Master (2nd Cycle)						
Year / Semester	1st year/ 2nd semester						
Teacher's Name	ТВА						
ECTS	10	Lectures / week	3 hours / 14 weeks	Laboratories / week	N/A		
Course Purpose and Objectives	OSH 615 aims to equip students with theoretical and practical knowledge on the important aspect of human and psychological factors in health and safety. Practical methods in the form of ergonomic design for all sectors will be highlighted and successful design methods will be applied. Psychological factors and their impact as well as the inclusion of health and safety in the design of working procedures will be analysed. Quantitative and qualitative methods of including human behavior in the successful design of safety systems among one of the aims of the course.						
Learning Outcomes	<ul> <li>Upon successful completion of this course students should be able to:</li> <li>Enable students to identify aspects of job tasks that may increase a worker's risk of developing MSDs, recognize the signs and symptoms of the disorders, and participate in the development of strategies to control or prevent them</li> <li>Understand the impact of physiological stress on one's well-being.</li> <li>Identify risks that lead to musculoskeletal pain</li> <li>Relate limitations of human performance to various environmental and interpersonal conditions</li> <li>Apply knowledge of human task performance limitations in the occupational environment with a view to improving safety</li> <li>Apply the basic principles of occupational hygiene, including measurement, control and evaluation</li> <li>Identification of psycosocial hazards and measures to manage them</li> </ul>						
	healthy, safe and sustainable working environments. Learn how to apply work systems for human well-being and overall system performance						
	Identify new e	emerging risks suc	h as ageing				
Prerequisites	None	Ree	quired	None			
Course Content	Theoretical and practical knowledge will be offered. Indicative focus areas are:						

	Diak aparitian and relevance to decision making and human hab subjects in				
	Risk cognition and relevance to decision-making and human behaviour in Health and Safety Human factors relevant to H&S and accident causation e.g. attention mechanism, sensory perception, risk cognition including 'hot' and 'cold' cognitions, habituation, expectancy, motivation, stress, learning etc. Group human factors such as safety culture, individual risk decision making and the importance of leadership Interdepedence and mutual influence of group human factors and individual human factors such as risk cognition and motivation				
	Risk Homeostasis theory and its application				
	Application of 'person-work fit' principles to the design of organizational structures, business processes, work organization and performance measurement so as to reduce potential stress and mental health problems.				
	Psychology, anatomy, physiology, biomechanics and anthropometry in ergonomics				
	Application of individual ergonomic design principles to the 'person-task interface' in a variety of workplaces and types of work e.g. use of computers, plant control rooms, airline flight decks Application of Key Indicator Method (KIM)				
	Application of Key Indicator Method (KIM)				
	Application of Key Indicator Method (KIM) Application of well-being tools such as work ability index				
Teaching Methodology	Application of Key Indicator Method (KIM) Application of well-being tools such as work ability index Face-to-Face				
Teaching Methodology Bibliography	Application of Key Indicator Method (KIM)         Application of well-being tools such as work ability index         Face-to-Face         Required Reading(s):				
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Assessment			
	Examinations	60%	
	Class Participation and Attendance	10%	
	Project	30%	
		100%	
Language	English		