Level : bachelor				
Course title: Non-ionizing radiation				
Status: elective				
ECTS: 6				
Requirements: Electromagnetism				
Learning objectives				
To teach students about the main aspects of non-ionizing radiation.				
Learning outcomes				
Understanding the principles of non-ionizing radiation.				
Syllabus				
Electromagnetic fields - quantities, units and Maxwell's equations. Black-body radiation. Radiation of electric				
dipole. General properties and classification of non-ionizing radiation. Interaction of electric and magnetic fields				
with the medium. Non-ionizing UV radiation. Visible light. Infrared radiation. Microwave radiation. Radio-				
requency radiation. Low-irequency non-ionizing radiation. Artificial sources of radio-irequency and low-irequency				
electromagnetic radiation in the human body. The dose of non-ionizing radiation. Exposure to non-ionizing radiation				
in the environment. Standards for protection against non-ionizing radiation.				
Weakly teaching load				
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Lectures:	Exercises:	Other forms of		
3	1	1 teacning:	Student research:	
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