



JOHN WESLEY THEOLOGICAL COLLEGE  
COURSE TEMATICS

<b>Corse:</b> ENVIRONMENTAL PHYSICS	<b>Course type:</b> Lecture	<b>Credits:</b> 4	<b>Course ID:</b> KTAK113a
<b>Course responsible:</b>	<b>Programme type:</b> full time	<b>Hours/Week:</b> 2	<b>Assessment:</b> exam
<b>Course objectives:</b> Study the physical background the phenomena and processes of the environment. <b>Competencies</b>			
<b>Competencies to be improved:</b> Knowledge: T1, T2, T7 Ability: K2, K3 Attitude: A2 Autonomy and responsibility: F2			
<b>Compulsory literature:</b> Presentations provided by the lecturer Relevant parts of the following textbooks: M. Dželalija: Environmental Physics. University of Split, Split, 2004. <a href="http://djelatnici.unizd.hr/~mdzela/nastava/EnvironmentalPhysics.pdf">http://djelatnici.unizd.hr/~mdzela/nastava/EnvironmentalPhysics.pdf</a> Raymond A. Serway, Chris Vuille, Jerry S. Faughn: College Physics. Cengage Learning Academic Resource Center, Belmont, 2009. <a href="http://profsite.um.ac.ir/~tavallaii/Meghdadi_A/bahar/Ph1/College%20Physics.pdf">http://profsite.um.ac.ir/~tavallaii/Meghdadi_A/bahar/Ph1/College%20Physics.pdf</a>			
<b>Recommended literature:</b> Á. Horváth (ed.) : Env ironmental phys ics methods, laboratory practices. Eötvös Loránd University, Budapest, 2002. <a href="http://atomfizika.elte.hu/kornyfizlab/docs/Environmental_physics.pdf">http://atomfizika.elte.hu/kornyfizlab/docs/Environmental_physics.pdf</a>			
<b>Course content:</b>  <b>Dynamics of large air and water masses</b> Physics of the atmosphere. Height dependence of air pressure Physics of movement of large air masses. Physics of ocean currents.  <b>Physics of the greenhouse effect</b> Factors of heat reflection and absorption.  <b>Large-scale effects of solar radiation ont he Earth</b> Route and distribution of the incoming solar radiation  <b>Physics of different forms of renewable and non-renewable energy production</b> Thermal power plants Water power plants Nuclear power plants Heat pumps			
<b>Course requirements:</b> Attendance at classes, keeping up with the course progress, submitting the expected homeworks <b>Grading scale:</b> >90 %: excellent, 81-90 %: good, 66-80 %:satisfactory, 51-65 %:pass			



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<b>Course Programme:</b> WJLF ENVIRONMENTAL SCIENCE	<b>Semester:</b> 2022_2023_1	<b>Lecturers:</b> <a href="#">Dr. István Kun</a>
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