



JOHN WESLEY THEOLOGICAL COLLEGE  
COURSE TEMATICS



<b>Course:</b> Environmental Health	<b>Course type:</b> Lecture	<b>Credits:</b> 3	<b>Course ID:</b> KTAK126
<b>Course responsible:</b> Dr. TÖRÖK Zsolt Csaba	<b>Programme type:</b> full time	<b>Hours/Semester:</b> 56	<b>Assessment:</b> exam
<b>Course objectives:</b>			
Study the aspects of the natural and built (urban and rural) environments that affect human health.			
<b>Competencies to be improved:</b>			
<p>Knowledge:</p> <p>T1 (familiar with the general notions of the Environmental Health Science)</p> <p>T3 (familiar with the theories, principles and paradigms of Environmental Health Science)</p> <p>Ability:</p> <p>K8 (able to understand and use online sources and printed literature in the field of Environmental Health)</p> <p>Attitude:</p> <p>A4 (seeks to make self-education one of the means to achieve his/her professional goals)</p> <p>Autonomy and responsibility:</p> <p>F2 (aware of the value of professional statements and of their applicability and limitations)</p>			
<b>Compulsory literature:</b>			
Downloadable course materials provided by the lecturer in the time of the classes indicated in the timetable.			
<b>Recommended literature:</b>			
Koren (Herman), Bisesi (Michael), 2003 - Handbook of Environmental Health. Vol. 1. Biological, Chemical and Physical Agents of Environmentally Related Disease. Fourth Edition. 794 pages. Publishing house: Lewis Publishers (a CRC Press Company). Boca Raton/London/New York/Washington D.C. ISBN 1-56670-536-3			
<b>Course content:</b>			
<p><b>Basic disciplines</b> that contribute to the environmental health (definitions, examples/cases, outcomes of activities, differences between the fields, comparative analyses)</p> <p>Human-health related <b>environmental aspects</b> (air quality, biosafety, disaster preparedness, climate change, environmental racism, food safety, hazardous materials, housing, land use planning, waste management etc.)</p> <p><b>Environmental problems</b> (ecosystem components, cycles, energy sources-conflicts-alternatives)</p> <p><b>Human health</b> (physiology, organ systems, toxicology, microbiology, epidemiology, risk management)</p> <p><b>Food protection</b> (microbiology, environmental effects on bacteria, exposure, infections, poisoning, allergies etc.).</p> <p><b>Food technology</b> (lifestyle, chemistry of food, engineering, contamination, preservation techniques etc.).</p> <p><b>Entomology</b> (morphological features, development, biology of and problems created by insects etc.);</p> <p><b>Rodents</b> (behaviour of rodents, main diseases transmitted by rodents, safety practices etc.).</p> <p><b>Pesticides</b> (types, effects on humans, routes of dispersal, resistance, techniques etc.).</p> <p><b>Indoor environment</b> (air, housing, accidents, standards, control of contaminants etc.).</p> <p><b>Institutional environment</b> (details on nursing, old age homes, prisons, hospitals)</p> <p><b>Recreational environment</b> (outdoor activities, measures, facilities)</p> <p><b>Occupational environment</b> (physical, chemical, biological, psychological etc. agents/factors, types of measures)</p> <p><b>Instrumentation</b> for environmental health evaluation.</p>			
<b>Course requirements:</b>			
<p>Completion of the course requires active participation in the classes (minimum 90%), preparation of course assignments (on the topics given by the lecturer at the end of the classes) and the final exam. Based on interim activities in the classes and the evaluations of course assignments offered exam grade can be obtained.</p> <p>If, due to objective reasons, a course has to (and will) be held online, the participation requires stable internet connection, a switched-on webcam, and the use of a microphone at the lecturer's request. In the absence of any of these, the student is considered missing the class.</p>			
<b>Grading scale:</b>			
<p>Control test (assignment) grades: 91-100%: excellent; 75-90%: good; 60-74%: satisfactory; 50-59%: pass;</p> <p>Exam grades: 91-100%: excellent; 75-90%: good; 60-74%: satisfactory; 50-59%: pass;</p>			
<b>Course Programme:</b> WJLF ENVIRONMENTAL SCIENCE	<b>Semester:</b> 2022_2023_1	<b>Lecturers:</b> Dr. TÖRÖK Zsolt Csaba	