



JOHN WESLEY THEOLOGICAL COLLEGE  
COURSE TEMATICS



<b>Course:</b> History of Science	<b>Course type:</b> seminar	<b>Credits:</b> 3	<b>Course ID:</b> KTAV137
<b>Course responsible:</b> Zsuzsanna Plank	<b>Programme type:</b> full time	<b>Hours/Semester:</b> 30	<b>Assessment:</b> exam
<b>Course objectives:</b> The students learn the formation of currently accepted principles and paradigms of Science.			
<b>Competencies to be improved:</b> <u>Knowledge:</u> T1: Familiar with the general disciplines of Science. T3: Familiar with the theories, principles and paradigms of Environmental Science. <u>Ability:</u> K3: Able to apply in practice the theories, principles and paradigms of Environmental Science. K8: Able to understand and apply the online and offline literature of his/her field of expertise. <u>Attitude:</u> A4: Seeks to make self-education one of the means to achieve his/her professional goals. <u>Autonomy and responsibility:</u> F2: Being aware of the value of professional scientific statements, their applicability and limitations.			
<b>Compulsory literature:</b> An Environmental History of the World, Humankind's changing role in the community of life, Second edition J. Donald Hughes <a href="https://zodml.org/sites/default/files/%5BJ._Donald_Hughes%5D_An_Environmental_History_of_the.pdf">https://zodml.org/sites/default/files/%5BJ._Donald_Hughes%5D_An_Environmental_History_of_the.pdf</a> Markha, Adam: A Brief History of Pollution, 1994. <b>Recommended literature:</b> Carlo Rovelli: Reality Is Not What It Seems: The Elusive Structure of the Universe and the Journey to Quantum Gravity Derek Wall: Green History, 1993.			
<b>Course content:</b> The course introduces the main milestones of scientific discoveries and inventions. Course thematic: <ol style="list-style-type: none"><li>1. <b>Calculation</b>-development of algebra.</li><li>2. <b>Geometry</b>-route from Euclidean to Computation Geometry.</li><li>3. <b>Physics</b>-Classical and modern approach of description of the world.</li><li>4. <b>Universe</b>-route from flat Earth theory and geocentric world to expanding universe theories.</li><li>5. <b>Life</b>-theories on origin of life, evolution and structure of human body.</li><li>6. <b>Technology</b>-main technological inventions</li></ol>			
<b>Course requirements:</b> Completion of the course requires active participation in the classes (minimum 90%), preparation of two course assignments on the topic given by the lecturer, final electronic exam. Based on interim activities in the classes and the evaluations of course assignments offered exam grade can be obtained. The international course will be held online. Participation in online classes 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.			
<b>Grading scale:</b> >90 %: excellent, 80-90 %: good, 65-80%: satisfactory, 50-65 %:pass			
<b>Course Programme:</b> WJLF ENVIRONMENTAL SCIENCE	<b>Semester:</b> 2022-23 autumn	<b>Lecturers:</b> Zsuzsanna Plank	