



JOHN WESLEY THEOLOGICAL COLLEGE  
COURSE THEMATICS



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| <b>Course:</b><br>Sustainability I   | <b>Course type:</b><br>seminar       | <b>Credits:</b><br>3                    | <b>Course ID:</b><br>KTAK122 |
| <b>Course responsible:</b><br>Dr Zsuzsanna Plank   | <b>Programme type:</b><br>full time  | <b>Hours/Week:</b><br>2+0               | <b>Assessment:</b><br>exam   |
| <b>Course objectives:</b><br>The students get familiar with global sustainability problems with a focus on the environment. They learn about the main initiatives of the European Union related to maintaining sustainable development.  |                                      |   |                              |
| <b>Competencies to be improved:</b><br>Knowledge: T4<br>Ability: K3, K6, K8<br>Attitude: A2, A6, A8<br>Autonomy and responsibility: F1, F2   |                                      |   |                              |
| <b>Compulsory literature:</b><br>Manuscripts and online documents provided by the lecturer.  |                                      |   |                              |
| <b>Recommended literature:</b><br>EU Sustainable Development Strategy : <a href="https://ec.europa.eu/environment/sustainable-development/strategy/index_en.htm">https://ec.europa.eu/environment/sustainable-development/strategy/index_en.htm</a>  |                                      |   |                              |
| <b>Course content:</b> <ol style="list-style-type: none"><li><b>Sustainability-basic principles.</b> Basic definitions. Global problems and the meaning of sustainability. Historical overview. Sustainability models. Social and environmental conflict zones: Maslow pyramid and land use conflicts.</li><li><b>Environmental sustainability.</b> Land use problems, land use priorities: theory and examples. Legal background of Natura 2000 Network: Birds and Habitats Directives. Human activities contra nature protection. EU's authorization and impact assessment directives.</li><li><b>Issues of sustainable raw material supply.</b> Raw material categories:renewable and non-renewable raw materials. Rare elements, critical raw materials. Primary and secondary raw materials: past-present-future. The raw material life cycle. EU's Raw Material Initiatives.</li><li><b>Sustainable waste management.</b> Waste characterization, origin of waste, waste types. Degradable, hazardous, space and floating waste: origin, impact and treatment methods. Sustainable waste path. EU's Waste Snapshot and Waste Initiative.</li><li><b>Economic issues of sustainability</b> Linear and circular supply chains. EU for sustainable economy: European Green Deal, Circular Economy Action Plan, Green Public Procurement, Green Deal Investment Plan.</li><li><b>Impact assessment methods.</b> Objectives of environmental impact assessment and related EU regulations. Most well-known assessment methodologies in theory and practice: environmental footprint, life cycle analysis, evaluation matrixes.</li><li><b>Social sustainability.</b> Theory, impacts and application in everyday practice. Eu's initiatives in individual level: Zero Waste Philosophy, Zero Waste Strategy, Zero Waste City.</li></ol> |                                      |   |                              |
| <b>Course activity:</b> <ul style="list-style-type: none"><li>- course seminar</li><li>- teamwork practice of the course material</li></ul>  |                                      |   |                              |
| <b>Course requirements:</b><br>Attendance at classes, project assignment, fulfilment of 2 midterm tests, electronic exam.<br>Offered exam grade possible in case of active class attendance and completing of mid term tests and assignments.  |                                      |   |                              |
| <b>Grading scale:</b><br>>90 %: excellent, 80-89.9 %: good, 65-79.9 %: satisfactory, 50-64.9 %: pass   |                                      |   |                              |
| <b>Course Programme:</b><br>WJLF ENVIRONMENTAL<br>SCIENCE  | <b>Semester:</b><br>2022_2023_spring | <b>Lecturers:</b><br>Dr Zsuzsanna Plank |                              |



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