

Title	Natural resources and nature protection		
Code	3KT23NAK11M		
Prerequisites			
Description	During the course students become acquainted with the properties and relationships of renewable and non-renewable natural resources and its real value in the Earth. They obtain the required special geoscience and environmental protection skills, furthermore an only „One-Earth” way of thinking. Their knowledge acquired during the BSc course will be extended with the relevant scientific achievements and methods of geology, soil science, climate science and water resource management. The course’s objective is that students should obtain a system approach, that is necessary to analyse and study natural resources, as well as get acquainted with the scientific background of research work on these main topics. Case studies and „state of the art” topics will be also discussed during the course with student’s activities.		
Lecturer	Prof. Dr. Borbála Bíró, Prof. Dr. Laszló Bozó; Dr. Levente Kardos, PhD; Dr. Zsolt Kotroczó, PhD		
Semester	4th, spring	Contact hours/week	2+1
Level	MSc	ECTS	3
Teaching and Learning Methods:	Problem-solving activities, seminar discussion activities, presentation of case studies.		
Reading:	<p>Compulsory literature:</p> <ul style="list-style-type: none"> • Mészáros E (1993): Global and Regional Changes in Atmospheric Composition. Lewis Publishers, London, Tokyo, pp. 175. • Wendell A. Duffield and John H. Sass: Geothermal energy. Clean power from the Earth,s heat. USGS Science for a changing World. USA Dept. of Interior Geological Survey.pp. 36. <p>Recommended literature:</p> <ul style="list-style-type: none"> • Benefield LD, Randall CW (1980): Biological process design for wastewater treatment. Prentice-Hall, Inc., Englewood Cliffs, N. J. 293-319. • Kasza Gy; Bódi B; Sárközi E; Mázsa Á; Kardos L (2015): Vermicomposting of sewage sludge – Experiences of a laboratory study. International Journal of Bioscience, Biochemistry and Bioinformatics. Vol5(1), pp. 1-10. ISSN 2010-3638 • Fitzpatrick, E. A. 1987. An introduction to soil science. Longman • Ghosh, T.,Prelas, M. 2011. Energy resources and systems, Vol. 1: Fundamentals and non-renewable resources. Springer, Dordrecht, The Netherlands, 727 p. • Ghosh, T.,Prelas, M. 2011. Energy resources and systems, Vol. 2: Renewable resources. Springer, Dordrecht, The Netherlands, 727 p. • Morgan R. P. C. 2004. Soilerosion and conservation. Wiley-Blackwell • Tóth G. et all. 2008. Soils of the European Union. Joint Research Centre • White, R. E. 2005. Principles and Practice of Soil Science: The Soilas a NaturalResource. Wiley-Blackwell • http://www.pedosphere.com/volume01/pdf/section_01.pdf • http://www.swcs.org/ • Bíró B; Kardos L; Bozó L.: pdf version of presentation 		
Assessment:	<ul style="list-style-type: none"> • trade mark of seminar presentation • exam 		

