



SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL POLICY

Environmental Engineer MSc

2017/18 Semester II.

COURSE COMMUNICATION FOLDER

**University of Miskolc
Faculty of Earth Science
Institute of Environmental Management**

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1. Course introduction, teacher, number of lessons, credits

Course Title: Sustainable development and environmental policy (Elective course 2)		Credits: 3
Type of course: elective	Neptun code: MFKHT740053	
Type (lec. / sem. / lab. / consult.) and Number of Contact Hours per Week: 1 lec. + 2 sem.		
Type of Assessment (exam. / pr. mark. / other): pr. mark Test-paper on the last week Grading Limits: > 80%: excellent, 70-79%: good, 60-69%: medium, 50-59%: satisfactory, < 50%: unsatisfactory		
Position in Curriculum (which semester): 4th		
Pre-requisites (<i>if any</i>): -		
Course Description:		
Acquired store of learning: To know the idea of sustainable development, the realization and the problems. To introduce the global conventions, the international and the national programs concern with sustainable development. Thematic: <ol style="list-style-type: none"> 1. The idea of sustainable development, the aspects of sustainable development, the reasons of unsustainability 2. Sustainable development policy of EU and UN 3. Economic sectors and the sustainable development 4. Society policy 5. Environmental policy and the sustainability 6. Energy and the sustainability 7. Sustainable production and consumption 8. Sustainable life 9. Environmentally sound technology in building 10. Environmental aspects around our house 11. Field course: Gömörszöllős, a sustainable village 		
The 3-5 most important compulsory, or recommended literature (textbook, book) resources:		
<ul style="list-style-type: none"> • Gyulai Iván (2012): A fenntartható fejlődés. Kiadja: az Ökológiai Intézet A Fenntartható Fejlődésért Alapítvány. Miskolc. • Ökológiai Intézet A Fenntartható Fejlődésért Alapítvány (2011): Környezettudatosság a házuk táján. Miskolc. • Ökológiai Intézet A Fenntartható Fejlődésért Alapítvány (2011): Környezetbarát technológiák az építkezésben és praktikus megoldások a ház körül. Miskolc • Report of the World Commission on Environment and Development, Our Common Future (1987). United Nations. • Jason Potts, Jessica van der Meer, Jaclyn Daitchman (2010): The State of Sustainability Initiatives Review 2010. Sustainability and transparency. London 		
Competencies to evolve: T1 – The environmental engineer knows, and apply the scientific and technical theory, and practice.		

K12 - The environmental engineer is able to plan, introduce, and operate environmental management systems.
Active professional English language skills.

Responsible Instructor (*name, position, scientific degree*):

Enikő Darabos, assistant lecturer, PhD

Other Faculty Member(s) Involved in Teaching, if any (*name, position, scientific degree*):

2. Course syllabus

**Sustainable development and environmental policy
Syllabus
Spring semester
Environmental Engineer MSc, Semester IV., Elective course**

1. The idea of sustainable development, the aspects of sustainable development, the reasons of unsustainability
2. Sustainable development policy of EU
3. Sustainable development policy of UN
4. Economic sectors and the sustainable development
5. Society policy
6. Environmental policy and the sustainability
7. Energy and the sustainability
8. Sustainable production and consumption
9. Sustainable life
10. Environmentally sound technology in building
11. Environmental aspects around our house
12. Field course: Gömörzöllős, a sustainable village
13. Test
14. Test repeat

3. Sample test

Sustainable development and environmental policy

1. What we have to know about the Report „Our Common Future”? (The Brundtland report) (4 p)
2. What are the definitions of sustainable development? (5 p)
3. What are the weak and strong sustainability? (2 p)
4. What are the criterions of sustainable community? When would be sustainable the community? (3 p)
5. What are the motive forces of unsustainable community? (3 p)

Total: 17 point

0-8 unsatisfactory

9-10 satisfactory

11-12 medium

13-14 good

15-17 excellent

4. Sample test solution

Sustainable development and environmental policy

1. What we have to know about the Report „Our Common Future“? (The Brundtland report) (4 p)

Solution

The growth of human population enlarge the human resources but it increases the resource demand which endangers the future of human species. It recognizes the scarcity of energy resources mainly the fossil resources, it emphasizes the environmental pollution caused by fossil energy sources and it forecasts the climate change. The two main states of the report are:

- the reason of the unsustainable world is poverty because the poor people overuses their environment
- the world needs economical growth, this is the way for poor people to become wealthy

2. What are the weak and strong sustainability? (2 p)

Solution

Weak sustainability: the value of available producers' goods do not change in time

Strong sustainability: the natural goods cannot substitute with other goods and the value of natural goods cannot decrease in time

3. What are the criterions of sustainable community? When would be sustainable the community? (3 p)

Solution

The system-approach, the social rightfulness and the good environment condition.

4. What are the motive forces of unsustainable community? (3 p)

Solution

The lack of the system-approach, the social rightfulness and the good environment condition, respectively.