SUSTAINABILITY OF LANDSCAPING (Landscape, Urban and Territorial, the second year of study, first semester)

Credit values (ECTS): 8

Course category: compulsory

Course holder: Prof. Neculai MUNTEANU, PhD

Discipline objectives (course and practical works):

The discipline objective is for students teaching and training referring to the ecosystems and landscape sustainability, landscape ecosystems components as major factors of the sustainability, disturbing factors of the landscape sustainability and the limiting measures of its, sustainability management of landscapes, sustainability assessment of the landscapes.

Contents (syllabus)

COURSE (chapters/subchapters)

Introduction to landscape sustainability

Study object. Definition

Circumstances of sustainability concept development

Principles and concepts

Sustainability of the systems and ecosystems

Landscape sustainability

Landscape ecosystem elements as the sustainability factors

Natural settlement: orography, vicinities

Soil and subsoil

Water and water resources

Climate conditions

Vegetation. Elements and functions

Routes, roads, alleys, paths

Installations and other utilities

Energetic and materials utilities

Settlement and using technologies

Other system elements

Factors which deteriorates landscape sustainability and measure to limit them

Chemical measure for carrying. Chemical pollution

Diseases, pests and weed attacks

Soil and vegetal cover erosion

Excessive exploitation

Inadequate technical factors

Management in landscape sustainability

Goal, Objectives and strategies

Management of natural soil resources and chemical factors

Management of the biotechnical material resources

Management of the biological resources

Management of technology. Sustainable practices

Assessment of landscape sustainability

Productivity indicator

The landscape maintenance indicator

The functioning indicator

Practical works		
Sustainability concept. Ecosystem sustainability		
Soil and water as sustainability factors		
Vegetation sustainability		
Technological measures sustainability		
Landscape deterioration		
Sustainable technological management		

Bibliography

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- 2. Dasc lu Doina Mira, 2006 Sustainable development and landscape ecology. Intersection vol.3, nr.8, p.17-20.
- 3. Dasc lu Doina Mira, 2006 Landscape arhitecture the antidote of pollution. Cercet ri agronomice în Moldova, Results recommendation, vol.3(127), p.69-73.
- 4. Francis A. Ch., Poincelot P. R. and Bird W. G., 2007 Developing and Extending Sustainable Agriculture. A. New Social Contract. HFAPP, Inc. New Zork, London, Oxford.
- 5. Hatfielel J.L., Douglas K.L.,1994 Sustainable agriculture systems. Lewis Publishers.
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- 9. Munteanu N., Rominger O.,2001 Organic farming an increasing opportunity for Roumanian farmers. Lucr ri tiin ifice U. A.M.V. Ia i, seria Horticultur, vol. 44.
- 10. Munteanu N., Stan N., 1999 Alternative la agricultura de tip industrial între necesitate i posibilit i. Hortinform, anul VIII, nr. 1/77.
- 11. Munteanu N., Stoian L., Stoleru V., F lticeanu Marcela, 2008 Baze tehnologice ale legumiculturii ecologice. Editura Ion Ionescu de la Brad" Ia i.
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- 13. Munteanu N., Stoleru V., Stoian L., Bohatare V., F lticeanu Marcela, 2008 Ghid de bune practici Modele de conversie la produc ia legumicol ecologic. Editura Ion Ionescu de la Brad" Ia i.
- 14. Olson, R.K. ,1992 Integrating sustainable agriculture, ecology and environmental policy. FoodProduct Press. Ny.
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Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Course	Exam	50%
	Presence	10%
Practical works	Presence	10%
	Tests + course and practical	30%

Contact

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