

Land quality and productivity assessment (1st Year of study, 2nd Semester)

Credit value (ECTS) 5

Course category

Domain – foundation course (Imposed)

Course holder:

Lecturer Ph. D. Oprea RADU

Discipline objectives (course and practical works)

The course aims at acquiring knowledge specific to land quality and productivity assessment and to the legislation in force regarding the manner of assessing lands, for preservation purposes, as well as the methods used to assess land resources from an agro-economic perspective.

During practical work, the students will go through the methodology used in studies related to land quality and productivity assessment, methods of calculating land productivity grades, land classification into quality classes, and will learn the basic principles and methods of the qualitative assessment of lands.

Contents (syllabus)

Course (Chapters/subchapters)
General notions: the importance, purpose and object of land quality and productivity assessment; the environmental conditions and lands of Romania.
The stages of carrying out pedological and agrochemical studies: the preparatory stage; the land stage; the laboratory stage; the data processing and synthesis stage.
Land quality and productivity assessment: evaluation of agricultural lands for natural conditions; evaluation of developed and/or improved agricultural lands; calculating land productivity grades; agricultural land quality classes.
Land value and assessment: general considerations on land value; land value; assessment principles; qualitative and value assessment of lands.
International assessment standards: the highest and best use (HABU); the procedure for determining the best use; land assessment methods for best use.

Practical works
The study of the analytical data of soils and natural conditions, soil maps and correlative maps.
Land quality and productivity coefficients for natural and improved conditions per categories of use and cultures.
Calculation of land quality and productivity grades and land distribution into pretability and favourability classes.
Land assessment preliminary stages.
Land assessment methods and analysis of the best use of land.

Bibliography

1. Patriche Cr., 2003 - *Evaluarea biofizică și tehnică a terenurilor agricole*. Editura Terra Nostra, Iași.
2. Radu O., 2015 - *Cadastru și cartea funciară*. Editura „Ion Ionescu de la Brad” Iași.
3. Radu O., 2021 - *Quality of agricultural lands in Cucuteni commune, Iasi county*. *Lucrări Științifice, seria Agronomie, U.S.V. Iași*, vol. 64, nr. 2, p. 83-88. Editura „Ion Ionescu de la Brad” Iași. ISSN 1454-7414.
4. Țărău D., 2003 - *Bazele teoretice și practice ale bonității și evaluării terenurilor din perspectivă pedologică*. Editura SOLNESS, Timișoara.
5. x x x, 1987 - *Metodologia elaborării studiilor pedologice, vol. I, II și III*. Institutul de Cercetare pentru Pedologie și Agrochimie, București.
6. x x x, 2007 - *Ghidul evaluatorului funciar din România, vol. I și vol. II*. Editura Marineasa, Timișoara.

Evaluation

Assessment forms	Assessment methods	Percentage of final grade
Exam	Written	60%
Assessing the activity during the semester	Assessment tests and practice application	40%

Contact

Lecturer Ph. D. Oprea RADU

Faculty of Agriculture - IULS

Address: 3, Mihail Sadoveanu Alley, Iasi, 700490, Romania

Telephone: 0040 232 407511, fax: 0040 232 219175

e-mail: roprea@uaiasi.ro