

Farmland management (Ist Year of study, Ist Semester)

Credit value (ECTS) 7

Course category

Synthesis (Optional)

Course holder:

Prof. PhD. Daniel BUCUR

Discipline objectives (course and practical works)

The course aims to acquire by students the knowledge on the substantiation and optimization of decisions on the application of rational principles of land use, establishment, sizing and location of land use categories and capitalization of land potential, by expanding, exploiting and proper maintenance of land improvement works.

The practical training seeks to familiarize students with the rational principles of land use, establishing, sizing and locating the land use categories and full capitalization of the area and potential of the land fund.

Contents (syllabus)

Course (chapters/subchapters)
Object and importance of the discipline: The concept of land fund and agricultural land fund; general notions regarding the land-resource planning; the characteristics and classification of land-resource planning.
Land-resource planning: Objectives and components of the land-resources planning.
Establishing the profile of the agricultural unit: the size of the agricultural holding; farm - basic production unit of the agricultural holding.
Establishment and sizing of land use categories: criteria and principles for establishing land use categories; suitability of land for agricultural uses; land use categories emplacement.
Location of agricultural production centers: classification of production centers; requirements for the location of production centers; peculiarities of the emplacement of agricultural production centers.
Arable land-use planning and design: Types and number of crops rotation in an agricultural unit; the arrangement of the crop rotation.
Vineyards land-use planning and design: arrangement of the vineyard land-use with slopes greater than 5%; arrangement of the vineyard land-use with slopes less than 5%.
Orchards land-use planning and design: arrangement of the orchards land-use with slopes greater than 5%; arrangement of the orchards land-use with slopes less than 5%.
Pastures land-use planning and design
Location and sizing of agricultural roads: requirements for agricultural road design; classification of agricultural roads; ancillary works to the agricultural road network

Practicum

Establishing the categories of agricultural land use.
Arable land-use planning and design
Vineyards land-use planning and design
Orchards land-use planning and design
Pastures land-use planning and design
Design of agricultural roads
Final colloquium of knowledge evaluation

References

1. Bold I., Crăciun A., 1999 - *Organizarea teritoriului*, Editura Mirton, Timișoara.
2. Popescu Ch., Bucur D., 2004 - *Valorificarea unor terenuri agricole expuse poluării și degradării*, Editura Ion Ionescu de la Brad Iasi.
3. Savu P., Bucur D., 2002 - *Organizarea și amenajarea teritoriului agricol cu lucrări de îmbunătățiri funciare*, Editura Ion Ionescu de la Brad, Iași.
4. Savu P., Bucur D., Jitareanu S. I., 2005 - *Îmbunătățiri funciare și irigarea culturilor - lucrări practice*, Editura “Ion Ionescu de la Brad”, Iași

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Colloquy	Grid test	70%
Appreciation of the activity during the semester	Oral assessment during the semester, verification tests and final laboratory colloquium.	30%

Contact

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