AGRICULTURAL PRODUCTION SYSTEMS (IIIrd Year of study, Vth semester)

Credit value (ECTS) 4

Course category
Domain (Imposed)

Course holder:
Ph. D. Prof. Stejărel BREZULEANU

Discipline objectives (course and practical works)

- Familiarize students with the knowledge and techniques of the main agricultural systems
- Knowing of types of existing agricultural systems and their particular
- Familiarization with the methods and techniques of analysis and optimization of systems
- Using linear programming for systems to improve performances
- The use of practical methods to optimize the size of the production potential of agricultural systems

- **Contents (syllabus)**

Course (chapters/subchapters)
PRODUCTION SYSTEMS - DEFINITION, OBJECT OF STUDY, DEVELOPMENT, FUNCTION
THE AGRICULTURAL PRODUCTION
HOLDING THE SYSTEMIC CONCEPTION
STRUCTURE AND FUNCTION OF TECHNOLOGICAL AND ECONOMIC SYSTEMS IN CROP PRODUCTION
THE PLANT CULTURE SYSTEMS
GROWTH AND OPERATING SYSTEMS OF ANIMALS
INFORMATION SYSTEM IN FARMS

Seminar
Determining the optimal size of agricultural companies
Optimizing the overall agricultural production systems
Crop structure optimization using the method Planning
Size optimization of production systems
Optimizing agricultural land use categories
Crop structure optimization using linear programming method
Plan Optimization chemical fertilizers by using linear programming
Determining the optimal size of agricultural companies
Sequential Optimization of farming systems
Optimizing crop rotation using the method Planning
Optimization combining production branches in production systems
Optimizing forage base

Bibliography

1. Brezuleanu S, 2008 – **Sisteme de producţie în agricultură**. Editura Alfa Iaşi
2. Brian,W.,1994 - **Systems: Concepts, Methodologies, and Application**, Vol I,John Wiley & Song
3. Ciurea I.,V., Brezuleanu S., Ungureanu G., 2005- **Management**. Editura ''Ion Ionescu de la Brad'',Iaşi
4. Scarlat,E.,1994 - **Dinamica sistemelor**. A.S.E., Bucureşti
5. Zahiu Letiţia1999-**Management agricol**. Editura economică, Bucureşti

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Exam	Oral examination	60%
Appreciation of the activity during the semester	Oral assessment during the semester, verification tests; colloquium.	20%
	Attendance and involvement in seminars	20%

Contact

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