Machine parts and mechanics (IInd Year of study, IIIrd SEMESTER)

Credit value (ECTS) 5

Course category

Complementary (Imposed)

Course holder:

Lecturer Dr. Constantin CHIRILĂ

Discipline objectives (course and practical works)

The course aims to make students acquire basic theoretical knowledge of machine parts and mechanisms.

Practical work aims to make students acquire practical knowledge to machine parts and mechanisms, for tractors, farm machinery and food industry equipments.

Contents (syllabus)

Course (chapters/subchapters)			
General notions concerning design of machine parts			
Non-removable joinings			
Demountable joinings			
Elastic joinings - springs			
Axles; shafts			
Bearing			
Machine parts for transmission of rotary motion - belt drives; chain drives; gear transmissions			
Notions of tribology			
The piping for pipelines and armatures for pipelines			
Notions of mechanisms			

1 factical works				
Work safety rules;				
Applications for representation in orthogonal projection of machine parts and				
dimensions of machine parts				
Study regarding the non-removable joinings				
Study regarding the demountable joinings				
Study regarding the springs				
Study regarding the axles and shafts				
Study regarding the bearings				
Study regarding the machine parts for transmission of rotary motion				
Study regarding the piping for pipelines and armatures for pipelines				
Study regarding the mechanisms				
Knowledge assessment				

Practical works

Bibliography

- 1. Chirilă C., Elemente de inginerie mecanică II Note de curs.;
- 2. Gafițanu M. I col., Organe de mașini vol I. Editura Tehnică, București, 1981.
- 3. Gafițanu M. I col., Organe de mașini vol. Editura Didactică și Pedagogică, București, 1983

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Exam	written assessment	65%
1 **	Oral assessment during the semester, verification tests and final laboratory colloquium.	35%

Contact

Lecturer Dr. Constantin CHIRILĂ

Faculty of Agriculture - USAMV Iași

Aleea Mihail Sadoveanu nr. 3, Iași, 700490, Romania telefon: 0040 232 407560, fax: 0040 232 219175

E-mail: chirilac@uaiasi.ro