

Study programme: General Agronomy			
Type and level of study: Bachelor's degree (240 ECTS) – First cycle			
Course title: Zootechnics I			
Lecturer: Prof. Milun D. Petrović, PhD, Assoc. Prof. Simeon Rakonjac, PhD			
Language of instruction: English			
ECTS credits: 7			
Prerequisite:			
Semester: <i>winter</i>			
Course objective			
To provide knowledge and understanding of the economics of cattle, sheep and goat farming in Serbia and worldwide; the origin, types and breed systematics of cattle, sheep and goats; production and characteristics of milk, meat and wool; housing facilities for cattle, sheep and goats.			
Learning outcomes			
Based on the knowledge acquired in this field (the economics of cattle, sheep and goat farming; the origin, types and breed systematics of cattle, sheep and goats; the production and characteristics of milk, meat and wool, and housing facilities), the students will be able to engage in cattle, sheep and goat production, and will gain professional competence and skill in using deepened knowledge to solve complex problems related to cattle, sheep and goat farming.			
Course contents			
<i>Theoretical instruction</i>			
Economics of cattle, sheep and goat farming. Origin of cattle, sheep and goats. Types and breed systematics of cattle, sheep and goats. Production and characteristics of milk, meat and wool. Housing facilities for cattle, sheep and goats.			
<i>Practical instruction</i>			
Systematics and zoology of cattle, sheep and goats. Founders of cattle, sheep and goats. Milk, meat and wool production control. Types and breeds of cattle, sheep and goats. Selection of cattle, sheep and goats. Field work.			
Recommended reading			
1. Robinson, T.P., Thornton P.K., Franceschini, G., Kruska, R.L., Chiozza, F., Notenbaert, A., Cecchi, G., Herrero, M., Epprecht, M., Fritz, S., You, L., Conchedda, G., See, L. (2011): Global livestock production systems. Rome, Food and Agriculture Organization of the United Nations (FAO) and International Livestock Research Institute(ILRI), 152 pp.			
2. Bonnier, P., Mass, A., Rijks, J. (2004): Dairy cattle husbandry. Agromisa Foundation, Wageningen, Netherland. 84 pp.			
3. Ritchie, H. (2009): Breeds of beef and multi-purpose cattle. Michigan State University, pp 95.			
4. Hiemstra, S.J., De Haas, Y., Tanila, A.M., Gandini, G. (2010): Local cattle breeds in Europe. Wageningen Academic publishers. 161 pp.			
5. Leymaster, K. A. (2002): Fundamental Aspects of Crossbreeding of Sheep: Use of Breed Diversity to Improve Efficiency of Meat Production. USDA, ARS, U.S. Meat Animal Research Center, Clay Center, NE 68933-0166. 17pp.			
6. Gibon, A., Mihina S. (2003): Livestock Farming Systems in Central and Eastern Europe. Wageningen Academic publishers. 265 pp.			
7. Sinn, R. (1985): Raising goat for milk and meat. A Heifer Project International Training Course. Little Rock, Arkansas. 136 pp.			
Hours of active teaching			Other classes
Lectures:	Practicals: 4x15=60	Other forms of teaching Tutorials 3x15=45	Individual work:
Teaching methods			
Theoretical and practical instruction combined with interactive teaching. Assessment of students' knowledge acquired during practical instruction through midterm tests (a total of 3). Assessment of students' knowledge acquired during theoretical instruction through written examinations after every 3 topics covered in the course.			
Assessment (maximum points 100)			
Examination requirements	Points	Final examination	Points
Class participation	5	oral examination	60
Practical sessions/tests	10	written examination	
Term paper assignments/homework	25	
Project			
Other			
Grading system			
Grade	ECTS	Description	
10	91-100	Excellent	
9	81-90	Exceptionally good	
8	71-80	Very good	
7	61-70	Good	
6	51-60	Passing	
5	≤50	Failing	