

Study programme: Zootechnics				
Type and level of study: Bachelor's degree (240 ECTS) – First cycle				
<b>Course title: Zootechnics I</b>				
<b>Lecturer:</b> Assoc. Prof. Milun D. Petrović, PhD, Ass. Simeon Rakonjac				
<b>Language of instruction:</b> English				
ECTS credits: 6				
Prerequisite:				
Semester: <i>winter</i>				
<b>Course objective</b>				
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.				
<b>Learning outcomes</b>				
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.				
<b>Course contents</b>				
<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.				
<b>Recommended reading</b>				
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. Ministry of Agriculture, Food and Fisheries, British Columbia (2003): Factsheet breeding programs for sheep production. 12pp.				
6. 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.				
7. Gibon, A., Mihina S. (2003): Livestock Farming Systems in Central and Eastern Europe. Wageningen Academic publishers. 265 pp.				
8. Sinn, R. (1985): Raising goat for milk and meat. A Heifer Project International Training Course. Little Rock, Arkansas. 136 pp.				
<b>Hours of active teaching</b>				<b>Other classes</b>
Lectures:	Practicals: 3x15=45	Other forms of teaching Tutorials 3x15=45	Individual work:	
<b>Teaching methods</b>				
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.				

<b>Assessment (maximum points 100)</b>			
<b>Examination requirements</b>	<b>Points</b>	<b>Final examination</b>	<b>Points</b>
Class participation	<b>10</b>	oral examination	
Practical sessions/tests	<b>20</b>	written examination	<b>50</b>
Term paper assignments/homework	<b>20</b>	.....	
Project			
Other			
<b>Grading system</b>			
<b>Grade</b>	<b>ECTS</b>	<b>Description</b>	
<b>10</b>	<b>91-100</b>	Excellent	
<b>9</b>	<b>81-90</b>	Exceptionally good	
<b>8</b>	<b>71-80</b>	Very good	
<b>7</b>	<b>61-70</b>	Good	
<b>6</b>	<b>51-60</b>	Passing	
<b>5</b>	<b>≤50</b>	Failing	