

SYLLABUS (OF A COURSE/MODULE)

Module (as specified in the approved curriculum for the field of study) Farm Management		ECTS 6	Catalogue number
Name in Polish Kierowanie produkcją zwierzęcą			
Unit(-s) providing the course/module (Institute/Department) Department of Animal Nutrition and Feed Management			
Head of course/module prof. dr hab. Włodzimierz Nowak			
Field of study Animal Science	Level 2nd level studies	Profile General academic	Semester 3
Specialisation Animal Production Management	MSc Specialisation Animal Production Management		
TYPE OF CLASSES/LECTURES AND THE NUMBER OF HOURS (organised classes/lectures and self-study)			
Type of studies: full-time		Type of studies: extramural	
- lectures	30	- lectures	
- classes	70	- classes	
-		-	
-		-	
- Other tutored	25	-	
- Self-study	30	- Self-study	
Total number of hours:		155	Total number of hours:
OBJECTIVE OF MODULE			
This module is designed to provide students an overview of animal farming with focus on management practices related to animal nutrition, health, breeding, husbandry, disorders prevention and legal regulation of dairy cattle, swine and poultry. After completing module student understands the management approaches applied in the farm			
TEACHING METHODS			
Lectures , laboratories and practical at farms			
LEARNING OUTCOMES		Reference to field outcomes	Reference to area outcomes
Knowledge	E1. has advanced applied knowledge of animal nutrition and physiology, metabolic disorders prevention, methods of monitoring behaviour and welfare. E2. understand how various management practices impact animal health (dairy cattle, pig, poultry) on health productivity and profitability of farming E3. knows the multifactorial relations between animal production and environment including knowledge on novel technologies and techniques .	Z2A_W07 Z2A_W09 Z2A_W10 Z2A_W13 Z2A_W14 Z2A_W16 InzA_W01 InzA_W03	R2A_W02 R2A_W03 R2A_W04 R2A_W05 R2A_W06 R2A_W07 R2A_W09
Skills	E4.critically analyze and creatively process various data to solve a specific problems or practical task in the field of improving process of management in animal production E5.is able to apply modern knowledge , techniques and technologies in farming , suggests solution enabling increased efficiency in animal production. E6. Is able to run their own business (extension and consultancy) or manage the company or farm	Z2A_U01 Z2A_U05 Z2A_U07 Z2A_U09 Z2A_U10 Z2A_U11 Z2A_U13 Z2A_U14 InzA_U03 InzA_U04	R2A_U01 R2A_U04 R2A_U05 R2A_U06 R2A_U07 R2A_U08 R2A_U10

Social competences	<p>E7. is able to competently participate in the discussion, recognizes and resolves and fundamental dilemmas associated with animal production</p> <p>E8. recognizes the need to update the legal and economic knowledge in dynamic condition</p> <p>E9. Is able to work independently and in the team</p>	<p>Z2A_K01 Z2A_K03 Z2A_K04 Z2A_K05 Z2A_K07 Z2A_K08 Z2A_K10 Z2A_K11 InzA_K01 InzA_K02</p>	<p>R2A_K01 R2A_K02 R2A_K03 R2A_K04 R2A_K06 R2A_K07 R2A_K08</p>
<p>Methods to verify learning outcomes – assignments, reports and final exam</p>		<p>Outcome Reference Numbers E1-E9</p>	
<p>TEACHING CONTENT</p>			
<p>1. Dairy cows herd management</p> <p>a. Diagnostic tools to estimate of dairy cow nutrition Diagnostic tools to estimate of dairy cow nutrition and herd management: - dairy cow behavior, rumination - body condition score - BCS - physical characteristics of dairy cow diets – Penn State Participle Separator, peNDF - manure analysis – pH, manure scanner (structure) - fertility indices interpretation</p> <p>b. Estimation of dairy cow nutrition in practice Dairy cow nutrition and herd management tools – workshop.</p> <p>c. Nutrition -report Report preparation - problems, recommendations and possible changes</p> <p>d. Extension on dairy farm -quality of silages – aerobic stability, fermentation profile -milk composition - interpretation of monthly report from PFHBiPM -rearing calves and heifers – nutrition and management -cows nutrition in dry and transition period -metabolic disorders –etiology and diagnosis</p> <p>e. Farms visit – extension in practice Team work – collecting data, meeting farm manager, vet, nutrition experts</p> <p>f. Presenting teams reports – discussion ,conclusions</p> <p>2. Broiler production management and extension -environmental requirements -calculations for ventilation rates -key management points -management requirements for males and females during rearing -grading to manage uniformity -management into lay -care of hatching eggs on farm</p> <p>Health and biosecurity Bird welfare Hygiene management Water quality Managing farm – extension in practice (farms visiting).</p> <p>3. Pig herd management -Practical feeding piglets and weaners -Disease of pigs caused by feeding -The welfare its importance and problems</p>			
<p>Forms and criteria for passing of module The module consists of series of assignments and final exam to assist the student in achieving the learning objectives</p>		<p>Percentage of final mark Assignments,reports - 40% Exam (test)-60%</p>	
<p>LIST OF LITERATURE</p> <p>Applied Animal Nutrition , Peter Cheeke -2005 Management and Welfare of Farm Animals , John Webster-2011</p>			