

SUBJECT: **ANIMAL NUTRITION AND FEEDSTUFFS**

GENERAL INFORMATION:

DIDACTIC UNIT: **INSTITUTE OF ANIMAL NUTRITION AND BROMATOLOGY**

FACULTY OF ANIMAL SCIENCES AND BIOECONOMY

PLACE: **RECTORATE, 3rd floor, Room No. 412 (lectures), 423/503 (classes)**

Thursdays 11-14 (11-12.30 Lecture / 12.30-14.00 Classes)

COURSE INFO: **4 ECTS/ exam/ 60 h total: 30L 10A 20Lab**

LECTURER: **EDYTA KOWALCZUK-VASILEV, PhD**

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LECTURES:		
DATE	TOPIC	
03-10-2019	Introduction to the course (general information). Gastrointestinal (GI) tract (construction, parameters, role) of mono- and polygastric animals. Physiological bases of animal nutrition.	2
10-10-2019 17-10-2019	Basic nutrients transformation - their digestion, absorption and metabolism after absorption. Antinutritional factors in feeds.	4
24-10-2019	Minerals (role, requirements - physiological and nutritional needs, resources).	2
31-10-2019	Vitamins (role, requirements - physiological and nutritional needs, resources).	2
07-11-2019	Digestibility of feeds. Methods of defining digestibility.	2
14-11-2019	Energy and matter balance. Units of energy and protein value of feeds and animal requirements.	2
21-11-2019 28-11-2019	Feeds. Divisions of resources of animal nutrition: <ul style="list-style-type: none">o Roughages, green forages (assortment, factors determining their nutritional value);o Concentrates: grains, leguminous seeds;o By-products of food industry;o Feed additives;o Industrial Feeds;	4
05-12-2019	Feed preservation methods (drying, ensiling)	2
12-12-2019	Feeds intake (physiological determination, measure)	2
19-12-2019 09-01-2020	Nutritional requirements of particular groups of animals (ruminants, horses, pigs, poultry, dogs and cats). Nutrient requirements for growth, lactation and reproduction.	4
16-01-2020	Feeding models of animals.	2
23-01-2020	Nutrition and health consequences in animals.	2
CLASSES:		
10-10-2019 17-10-2019	Basic analysis of feeds.	1A 3L
24-10-2019	Digestibility of nutrients - methods of estimation.	2A
31-10-2019	Energy and matter balance.	2A
21-11-2019	Evaluation of nutritive value of feeds.	1A 1L
28-11-2019	Methods of feeds evaluation. Recognition of feed samples.	2A 1L
05-12-2019	Formulation of diets for different groups of animals.	2A 4L
	Practical training – on-farm nutritional management evaluation.	11L

Literature:

1. *Recent advances in animal nutrition 2009 / [eds.] P. C. Garnsworthy, J. Wiseman.*
2. *Animal Nutrition, 2002/ McDonald P., Edwards R.A., Greenhalgh J.F.D., Morgan C.A.*
3. *Principles Of Animal Nutrition And Feed Technology 2001 / D.V. Reddy*
4. *Applied Animal Nutrition: Feeds and Feeding 2005 / Cheeke P.R.*
5. *Forages and grazing in horse nutrition 2012/ ed. by Markku Saastamoinen [et al.].*