



## Pharmacognosy

ECTS: 1.00

### SUBJECT MATTER CONTENT

#### LECTURE

The aim of lectures is to give the basic knowledge in the field of pharmacognosy, among others with respect to: (a) characterization of active substances (e.g. polysaccharides, enzymes, acids, glycosides, tannins, coumarin, plant mucilages and flavonoids) of herbal medicinal plants responsible for their pharmacological properties; (b) synergism and antagonism of active substances of herbal medicinal plants; (d) method of preparation or production of various dosage form of herbal medicines; (c) clinical application, undesirable effects and toxicity of herbal medicines as well as their interactions with other herbal medicines and synthetic drugs. Herbal products used in veterinary practice are discussed in lectures.

#### CLASSES

Broadening and developing of knowledge acquired during the lectures and its verification. A discussion of herbal preparations used in veterinary medicine.

#### TEACHING OBJECTIVE

The aim of this course is to provide comprehensive and detailed information on mechanisms of action, indications, contraindications and side effects of selected herbal preparations, which are used in the treatment of animal diseases.

#### DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY:

**Symbols for outcomes related to the discipline:**

R/WA\_P7S+++

**Symbols for outcomes related to the field of study:**

K.1.+ , K.5+ , B.W3. + , A.W12. + , B.U9. + , A.W16. + , B.U13. + , B.U10. + , K.8.+

#### LEARNING OUTCOMES:

##### Knowledge:

W1 – Student: a) knows and describes plant derived materials; b) knows active substances of herbal medicines in the the aspect of their belonging to the chemical groups; c) describes the properties of herbal medicines, which are used in the veterinary medicine; d) knows indications for herbal medicines.

##### Skills:

U1 – Student: a) interprets and applies appropriately terminology used in the pharmacognosy; b) accesses the appropriate sources of data of licensed herbal medicines

#### Legal acts specifying learning outcomes:

682/2020

**Disciplines:** Veterinary science

**Status of the course:** Fakultatywny

**Group of courses:** B - przedmioty kierunkowe

**Code:** ISCED 0841

**Field of study:** Veterinary Medicine

**Scope of education:**

**Profile of education:** General academic

**Form of studies:** full-time

**Level of studies:** uniform master's studies

**Year/semester:** 3/5

**Types of classes:** Lecture, Classes

**Number of hours in**

**semester:** Lecture: 5.00, Classes: 10.00

**Language of instruction:** Polish

**Introductory subject:** Biology, physiology, pathophysiology and pharmacy.

**Prerequisites:** Appropriate level of knowledge in the above mentioned subjects.

**Name of the organisational unit**

**conducting the course:** Katedra

Farmakologii i Toksykologii

**Person responsible for the**

**realization of the course:** dr hab. wet.

Włodzimierz Markiewicz, prof. UWM

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**Additional remarks:**

and uses information obtained; c) is able to choose correctly herbal medicines for selected diseases; d) is able to critically analyse the medical and veterinary literature and to draw conclusions based on the available literature (in the subject matter).

#### **Social competence:**

K1 – Student: a) shows initiative and updates the knowledge in the veterinary homeopathy and pharmacognosy fields; b) is aware of the benefits and risks associated with homeopathic and herbal medicines use; c) is aware of personal limitations.

#### **TEACHING FORMS AND METHODS:**

Lecture(W1;U1;):Informative lectures with multimedia presentations.

Classes(W1;U1;K1;):Informative classes with multimedia presentations; discussion; teamwork; taking tests.

#### **FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:**

Lecture (Written exam) - At the end of the course the colloquium - as a written multiple choice test - will be conducted as it is described below. -

Classes (Colloquium test) - At the end of the course the colloquium - as a written multiple choice test - will be conducted. To pass the colloquium student is obliged to obtain at least 65% points. The grading scale is based on following point levels: 94-100%, degree: excellent (5,0); 87-93%, degree: very good (4,5); 80-86%, degree: good (4,0); 73-79%, degree: satisfactory (3,5); 66-72%, degree: sufficient (3,0); 65%, degree: unsatisfactory=fail (2,0). Student who fails the colloquium can retake it twice. Failure of the colloquium constitutes failure of the course. -

#### **BASIC LITERATURE:**

1. Matławska I., *Farmakognozja*, Wyd. Uniwersytet Medyczny im. Karola Marcinkowskiego, R. 2008
2. Wynn S.G., *Veterinary Herbal Medicine*, Wyd. Elsevier Health Sciences, R. 2007
3. Kohlmunzer S., *Farmakognozja*, Wyd. PZWL, R. 2013

#### **SUPPLEMENTARY LITERATURE:**

1. Sadowska A., *Rośliny lecznicze w weterynarii i zootechnice*, Wyd. Wydawnictwo SGGW, R. 2003