Attachment No. 1 to Rector's ordinance No. /2016

DESCRIPTION OF THE COURSE OF STUDY

Course code	**12.6-3LEK-F-RUiL**	
Name of the course in	Polish	**Rośliny użytkowe i lecznicze**
	English	**Utility and medicinal plants**

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

1.1. Field of study	medicine
1.2. Mode of study	full-time
1.3. Level of study	uniform Master's study
1.4. Profile of study*	practical
1.5. Specialization*	lack
1.6. Unit running the course of study	Faculty of Medicine and Health Sciences
1.7. Person/s preparing the course description	dr hab. Renata Piwowarczyk, prof. UJK
1.8. Person responsible for the course of study	dr hab. Renata Piwowarczyk, prof. UJK
1.9. Contact	renata.piwowarczyk@ujk.edu.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Affiliation with the module	optional – faculty
2.2. Language of instruction	English
2.3. Semesters in which the course of study is offered	Choice 2nd-9th semester
2.4. Prerequisites*	general botany with anatomy of plants, systematic botany, knowledge of the basic concepts of plant physiology and biochemistry

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes		Lecture: 15, classes: 20
3.2. Place of classes		Courses in the teaching rooms of the UJK
3.3. Form of assessment		Credit, credit with grade
3.4. Teaching methods		Oral multimedia presentations, observation, discussion
3.5. Bibliography	**Required reading**	Therapeutic Medicinal Plants, ISBN: 9781482254037.
	Further reading	

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED TEACHING OUTCOMES

4.1. Course objectives ***(including form of classes)***

C1 – Acquisition of knowledge about plant substances and herbal raw materials used in phytotherapy.
C2 – Identification of the role and importance of plants in daily life.
C3 – An indication of the variety of forms and ways of using utility and medicinal plants.
C4 – Exploring the construction and the diversity of plant species obtained for the production of medicines.

4.2. Detailed syllabus ***(including form of classes)***

The history of herbal medicine in Poland and in the world. Outline the use of herbs in folk medicine, medical systems of India, in Chinese medicine, Tibetan, etc. Chemical characteristics biochemical and pharmacological of basic groups of plant substances as well as herbal raw materials used in modern phytotherapy. The therapeutic use of herbal raw materials, herbal preparations and pharmaceutical products (herbal medicines). The pharmacological action of plant compounds, stability, interactions, toxicity. Basic metabolism, building and spare substances. Secondary metabolism with elements of chemotaxonomy. Elements of plant toxicology. Types of herbal remedies. Sources of herbal raw materials and processes for their preparation. The collection of herbs and nature protection. Herbal preparations available in our market -examples. Morphological and anatomical characteristics of selected groups of taxonomic utility and medicinal plants. An overview of the most important utility and medicinal plants of the world.

4.3 Education outcomes in the discipline

Code	**A student, who passed the course**	**Relation to teaching outcomes**
within the scope of **KNOWLEDGE:**		
W01	defines individual groups of drugs;	C.W34.

W02	knows the basic principles of pharmacotherapy;	C.W37.
W03	knows the important side effects of drugs, including those resulting from their interaction;	C.W38.
W04	knows groups of drugs whose abuse can lead to poisoning;	C.W43.
W05	knows and understands the basic principles of pharmacotherapy of diseases of the elderly;	E.W10.
within the scope of **ABILITIES:**		
U01	prepares transcripts of all forms of prescription of medicinal substances;	C.U16.
U02	uses pharmaceutical directories and databases of medicinal products;	C.U17.
U03	assesses toxicological danger in specific age groups and in the states of liver and kidney failure, as well as prevents drug intoxication;	C.U18.

4.4. Methods of assessment of the intended teaching outcomes

Teaching outcomes *(code)*	**Method of assessment (+/-)**																				
	Exam oral/written*			**Test***			**Project***			**Effort in class***			**Self-study***			**Group work***			**Others***		
	Form of classes			***Form of classes***			***Form of classes***			***Form of classes***			***Form of classes***			***Form of classes***			***Form of classes***		
	L	*C*	...	*L*	*C*	...	*L*	*C*	...	*L*	*C*	...	*L*	*C*	...	*L*	*C*	...	*L*	*C*	...
W01																					
W02																					
W03																					
W04																					
W05																					
U01																					
U02																					
U03																					

delete as appropriate

4.5. Criteria of assessment of the intended teaching outcomes

Form of classes	**Grade**	**Criterion of assessment**
lecture (L)	**3**	61% -68% correct answers
	3,5	69% - 76% correct answers
	4	77% - 84% correct answers
	4,5	85 % -92% correct answers
	5	93-100
classes (C)*	**3**	61% -68% correct answers
	3,5	69% - 76% correct answers
	4	77% - 84% correct answers
	4,5	85 % -92% correct answers
	5	93-100
others (...)*	**3**	
	3,5	
	4	
	4,5	
	5	

5. BALANCE OF ECTS CREDITS – STUDENT'S WORK INPUT

Category	Student's workload
	Full-time studies
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/	**35**
*Participation in lectures**	**15**
*Participation in classes, seminars, laboratories**	**20**
*Preparation in the exam/ final test**	
*Others**	
INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/	**15**
*Preparation for the lecture**	
*Preparation for the classes, seminars, laboratories**	**10**
*Preparation for the exam/test**	**5**
*Gathering materials for the project/Internet query**	
Preparation of multimedia presentation	
*Others**	
TOTAL NUMBER OF HOURS	**50**
ECTS credits for the course of study	**2**

Accepted for execution *(date and signatures of the teachers running the course in the given academic year)*

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