

## DESCRIPTION OF THE COURSE OF STUDY

<b>Course code</b>	<b>12.6-3LEK-F-AI</b>	
<b>Name of the course in</b>	Polish	<b>Alergologia</b>
	English	<b>Allergology</b>

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

<b>1.1. Field of study</b>	medicine
<b>1.2. Mode of study</b>	Full-time
<b>1.3. Level of study</b>	Uniform Master's studies
<b>1.4. Profile of study*</b>	Practical
<b>1.5. Specialization*</b>	lack
<b>1.6. Unit running the course of study</b>	Faculty of Health Sciences
<b>1.7. Person/s preparing the course description</b>	dr n. med. Małgorzata Czarny-Działak
<b>1.8. Person responsible for the course of study</b>	dr n. med. Małgorzata Czarny-Działak
<b>1.9. Contact</b>	602570179

### 2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

<b>2.1. Affiliation with the module</b>	mandatory
<b>2.2. Language of instruction</b>	English
<b>2.3. Semesters in which the course of study is offered</b>	
<b>2.4. Prerequisites*</b>	Knowledge of anatomy and physiology of the respiratory system, gastrointestinal tract as well as skin

### 3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

<b>3.1. Form of classes</b>	Lectures, classes	
<b>3.2. Place of classes</b>	Lecture- Courses in the teaching rooms of UJK Classes – The Department of Internal Medicine	
<b>3.3. Form of assessment</b>	Credit with grade	
<b>3.4. Teaching methods</b>	Conversational lecture, discussion, a case study in natural condition	
<b>3.5. Bibliography</b>	<b>Required reading</b>	1.
	<b>Further reading</b>	1.

### 4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED TEACHING OUTCOMES

<p><b>4.1. Course objectives</b> <i>(including form of classes)</i></p> <p>C1 – acquisition of knowledge about the specifics of allergic diseases in all age groups  C2 – preparation to the classes in the department of allergy conditions, the ability to identify allergic diseases  C3 – development of proper doctor attitude toward the patients with allergic diseases</p>
<p><b>4.2. Detailed syllabus</b> <i>(including form of classes)</i></p> <p>Lectures</p> <ol style="list-style-type: none"> <li>1. Anatomy and physiology of the respiratory system, gastrointestinal tract and skin with paying attention to possible birth defects. 1h</li> <li>2. The history of allergology in Poland and in the world. 0,5h</li> <li>3. Patomechanism of allergic diseases. Allergens. 1h</li> <li>4. Diagnostic methods in allergology: skin tests, skin determination of concentrations of specific IgE, spirometry, provocation tests, study of bronchial hyperresponsiveness. 2h</li> <li>5. Allergic diseases of the respiratory system: allergic rhinitis, allergic bronchial asthma. 2h</li> <li>6. Allergicophthalmic diseases. 0,5h</li> <li>7. Allergic skin diseases: urticaria and angioedema, atopic dermatitis, allergic contact dermatitis. 2h</li> <li>8. Food allergy: diagnosis and treatment. 2h</li> <li>9. Multi-organ allergic reactions: anaphylaxis, allergy to latex, allergy to the venom of stinging insects, drug reactions. 2h</li> <li>10. Prevention of allergic diseases. 1h</li> <li>11. Specific immunotherapy. 1h</li> </ol> <p>Classes</p> <ol style="list-style-type: none"> <li>1. Skin tests – the principles of implementation and interpretation of skin prick tests, intradermal tests, epidermal patch test, atopy patch tests – and their application. 3h</li> </ol>

2.	Spirometry – indications and contraindications, lung ventilation parameters and measurement methods, attempt diastolic, measurement the diurnal variation in PEF and its importance in the diagnosis of bronchial asthma. 4h
3.	Examination of bronchial hyperresponsiveness – indications and contraindications to conduct challenge tests. 2h
4.	Rhinomanometry and nasal provocation tests. 1h
5.	Selected diagnostic methods in the practice of ophthalmology – conjunctival provocation tests. 1h
6.	Provocation tests in food allergy. 2h
7.	Credit. 2h

#### 4.3 Education outcomes in the discipline

Code	A student, who passed the course	Relation to teaching outcomes
within the scope of <b>KNOWLEDGE:</b>		
W01	knows the basis for the development and the mechanisms of the immune system, including specific and non-specific mechanisms of humoral and cellular immunity;	C.W20.
W02	knows the types of hypersensitivity reactions, types of immunodeficiency and immunomodulation base;	C.W22.
W03	determines the clinical course specific and non-specific inflammations and describes the regeneration of tissues and organs;	C.W27.
W04	knows environmental and epidemiological conditions for the most common diseases;	E.W1.
W05	knows and understand the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most frequent internal diseases occurring in adults and their complications: a) cardiovascular diseases, including coronary heart disease, heart defects, endocarditis, myocarditis, pericarditis, heart failure (acute and chronic), arterial and venous diseases, primary and secondary hypertension, pulmonary hypertension; b) respiratory diseases, including diseases of the respiratory tract, chronic obstructive pulmonary disease, bronchial asthma, bronchiectasis, cystic fibrosis, respiratory infections, interstitial lung disease, pleura, mediastinum, obstructive and central sleep apnea, respiratory failure (acute and chronic), respiratory cancers, c) gastrointestinal diseases, including diseases of oral cavity, esophagus, stomach and duodenum, intestine, pancreas, liver, biliary tract and gall bladder; d) endocrine diseases, including diseases of the hypothalamus and pituitary, thyroid, parathyroid, cortex and adrenal medulla, ovaries and testes as well as neuroendocrine tumors polyglandular syndromes, different types of diabetes and metabolic syndrome: hypoglycemia, obesity, dyslipidemia; e), diseases of kidney and urinary tract, including acute and chronic renal failure, renal glomeruli diseases, cystic kidney disease, kidney stones, urinary tract infections, urinary tract tumor, particularly bladder cancer and kidney cancer; f) hematological diseases, including bone marrow aplasia, anemia, neutropenia and agranulocytosis, thrombocytopenia, acute leukemia, myeloproliferative neoplasms and myelodysplastic - myeloproliferative disorders, myelodysplastic syndromes, cancer of mature B and T lymphocytes, bleeding disorders, thrombophilia, states of a direct threat to life in hematology, blood disorders, diseases of other organs; g) rheumatic diseases, including systemic connective tissue disease, systemic vasculitis, inflammation of joints involving the spine, metabolic bone diseases, especially osteoporosis and degenerative diseases of the joints, gout; h) allergic diseases, including: anaphylaxis and anaphylactic shock and angioedema; i) water-electrolyte abnormalities and acid-base disorders: states of dehydration or fluid overload, electrolyte disorders, acidosis and alkalosis;	E.W7.
within the scope of <b>ABILITIES:</b>		
U01	uses the antigen - antibody reaction in current modifications and techniques for the diagnosis of infectious diseases, allergies, autoimmune diseases, blood diseases and cancer;	C.U8.
U02	analyses defensive and adaptation reactions as well as regulation disorders caused by the etiological factor;	C.U12.
U03	conducts a review of medical history of the adult patient;	E.U1.

#### 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	Has basic allergology knowledge. 61%-68%
	3,5	Knows the practical meaning of obtained knowledge. 69%-76%
	4	Discusses functions of individual organs and systems in allergic diseases. 77%-84%
	4,5	Defines dependences between individual allergic diseases. 85%-92%
	5	Has full allergology knowledge in accordance with the program, interprets facts. 93% - 100%
classes (C)*	3	Has basic allergology knowledge. Test score is 61%-68%
	3,5	Knows the practical meaning of obtained knowledge. 69%-76%
	4	Discusses functions of individual organs and systems in allergic diseases. 77%-84%
	4,5	Defines dependences between individual allergic diseases. 85%-92%
	5	Has full allergology knowledge in accordance with the program, interprets facts. 93% - 100%

- Thresholds are valid from 2018/ 2019 academic year

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

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