



Syllabus for academic year: 2022/2023 Cycle: 2019/2020– 2026/2027														
Description of the course														
Course	Diagnostyka reakcji nadwrażliwości							Group of detailed education results						
	Diagnostic of hypersensitivity reactions							Group of classes (group code) C	Group name Pre-clinical course					
Faculty	Faculty of Medicine													
Major	medicine													
Level of studies	<input checked="" type="checkbox"/> uniform magister studies <input type="checkbox"/> 1 <sup>st</sup> degree studies <input type="checkbox"/> 2 <sup>nd</sup> degree studies <input type="checkbox"/> 3 <sup>rd</sup> degree studies <input type="checkbox"/> postgraduate studies													
Form of studies	<input checked="" type="checkbox"/> full-time <input type="checkbox"/> part-time													
Year of studies	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6							Semester:		<input type="checkbox"/> winter <input checked="" type="checkbox"/> summer				
Type of course	<input type="checkbox"/> obligatory <input checked="" type="checkbox"/> free choice / optional													
Language of study	<input type="checkbox"/> Polish <input checked="" type="checkbox"/> English													
Number of hours														
Form of education														
	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Foreign language Course (FLC)	Physical Education (PE)	Vocational Practice (VP)	Directed Self-Study (DSS)	E-learning (EL)	
<b>Winter semester:</b>														
..... (Dep. in charge of the course) <sup>1</sup>														
Direct (contact) education <sup>2</sup>														
Distance learning <sup>3</sup>														
<b>Summer semester: 20</b>														
Clinical Immunology Department														
Direct (contact) education		20												
Distance learning														

<sup>1</sup> Please duplicate if the subject is conducted by more than one Department

<sup>2</sup> Education conducted with direct participation of university teachers or other academics

<sup>3</sup> Education with applied methods and techniques for distance learning



<b>TOTAL per year: 20</b>													
<b>Clinical Immunology Department</b>													
Direct (contact) education			<b>20</b>										
Distance learning													
<b>Educational objectives</b> (max. 6 items)													
<p><b>C1.</b> Understanding the current diagnostic methods as well as emerging therapies of immune-mediated diseases related to the hypersensitivity reactions type I-IV by Gell and Coombs, that will find clinical application in various medical specialties in the near future. The course will be focused on approaches which are currently elaborated in research laboratories and/ or are in the clinical trials.</p>													
<b>Education result for course in relation to verification methods of the intended education result and the type of class:</b>													
Number of detailed education result	Student who completes the course knows/is able to						Methods of verification of intended education results			Form of didactic class <i>*enter the abbreviation</i>			
<b>C.W23.</b>	Describes the pathomechanisms of hypersensitivity-mediated diseases						MCQ test			SE			
<b>C.U8.</b>	Indicate the assays useful in the immune-mediated disease assessment. Perform skin tests. Correctly interpret results of the skin tests used in the diagnosis of allergy						Observe preformation of the tests, perform selected test on its own, interpret results on its own			SE			
* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning													
<b>Student's amount of work (balance of ECTS points):</b>													
<b>Student's workload</b> (class participation, activity, preparation, etc.)										<b>Student Workload</b>			
1. Number of hours of direct contact:										20			
2. Number of hours of distance learning:													
3. Number of hours of student's own work:										6			
4. Number of hours of directed self-study										n/a			
Total student's workload										26			
<b>ECTS points for course</b>										<b>1,0</b>			
<b>Content of classes:</b> (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)													
<b>Seminars (6 meetings x 3h + one meeting 2h)</b>													
<ol style="list-style-type: none"> <li>1. An overview of recent reports in immunology - the mechanisms of resistance and tolerance. (3h)</li> <li>2. Flow cytometry applications used in diagnostics of hypersensitivities and autoimmunities. (3h)</li> <li>3. The use of allergen provocation tests in the diagnosis of inhalation allergies. (3h)</li> <li>4. Precision allergy medicine diagnosis. (3h)</li> <li>5. Adverse reactions to food. (3h)</li> <li>6. Contact hypersensitivities reactions diagnostics in vitro and in vivo. (3h)</li> <li>7. Written test and discussion. (2h)</li> </ol>													



**Basic literature** (list according to importance, no more than 3 items)

1. D. Male, J. Brostoff, D. Roth & I. Roitt: **“Immunology”**, 8<sup>th</sup> Edition, Elsevier, 2013.
2. K. Abbas, A. H. Lichtman, S. Pillai: **“Cellular and Molecular Immunology”**; 6th Edition, Elsevier, 2012.
3. M. Peakman, D. Vergani: **“Basic and Clinical Immunology”**; 2<sup>nd</sup> edition, Elsevier – Churchill Livingstone, 2009 Nature reviews. Immunology. Nature New York, London.

**Additional literature and other materials** (*no more than 3 items*)

4. **“Nature reviews. Immunology. Nature”** New York, London, periodical.
5. **“Allergy: European Journal of Allergy and Clinical Immunology”**; Wiley Blackwell, Journal of Allergy and Clinical Immunology. Elsevier, periodical.

**Preliminary conditions:** (minimum requirements to be met by the student before starting the course)

Credited courses: Anatomy

### Rules for granting partial grades in the subject during the semester:

- Each absence must be made up, including rector’s days or dean’s hours.
- Self-performance, read-out and interpretation of skin test and laboratory tests. Activity during discussions.
- Attendance at classes. Absence crediting possible maximally for 2 classes (crediting possible during consultation hours with the teacher who lead the class).
- Fulfillment of homework and written **final test (15 questions, MCQ test type A, 1 verstraktor + 4 distractors)**

In the case of rector’s/deans hours/days, student is obliged to prepare a presentation on a specified topic (after consultation with the teacher).

### Conditions to receive credit for the course: <sup>4</sup>

Grade:	Criteria for courses ending with a grade
Very Good (5.0)	15 points from test (100%)
Good Above (4.5)	13-14 points from test (86,6-93,3%)
Good (4.0)	11-12 points from test (73,3-80%)
Satisfactory Plus (3.5)	10 points from test (66,6%)
Satisfactory (3.0)	9 points from test (60%)

<b>Department in charge of the course:</b> <sup>5</sup>	Departament of Clinical Immunology
<b>Head of Department in charge of the course:</b>	Prof. Marek Jutel, MD
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<b>Person in charge for the course:</b>	dr Magdalena Zemelka-Wiącek, PhD
<b>Telephone:</b>	71 778 41740
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CONSULTATION: Detailed information pertaining to the dates and places for consultation of academic staff are provided on the university websites of the departments in which the given subjects are being conducted. Additionally, the information is posted next to the department secretary.

Date of Syllabus development
29.07.2022

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<sup>4</sup> Please only fill out the conditions to receive credit specific to the given course and delete the remainder. Conditions to receive credit for the course (ie. with a grade or without), and the conditions for obtaining a grade from the exam, must include verification of the result of the given education carried out during all forms of teaching within the given subject (the following must be specified: form, criteria, and conditions to receive credit for classes included in the course, the admission terms to the final theoretical or practical examination, the form and requirements that must be met by the student to pass, as well as the criteria for specific grades). **ATTENTION! Attendance cannot be a condition for passing the course**

<sup>5</sup> For coordinated subjects, subjects which are coordinated by more than one department, this part should be duplicated and completed separately for each of the departments which will be conducting didactic classes.