

Syllabus for academic year: 2020/2021															
Training cycle:2019-2025															
Module/Course			Des	IMMU		ne coui GY	rse	Gi	Group of detailed education						
								Group Group name code Before clinical							
Faculty			Medic	ine and	Dent	istry									
Major			Medicine												
Unit realizing the subje	ct		lmmur	nopatho	ology a	and Mo	olecula	r Biolo	gy						
Specialties			Dentis	try											
Level of studies			Unifor	m mag	ister s	tudies	*								
			1 st deg	ree stu	idies 🗙	(
			2 nd de	gree stu	udies										
			3 rd degree studies □												
			postgraduate studies 🗆												
Form of studies			X full-	time	🗌 pai	rt-time									
Year of studies			II					Seme	Semester UNINTER X Summer						
Type of course			X obligatory												
			□ limited choice												
			free choice / elective												
Course			X major 🗆 basic												
Language of instructior	١		🗆 Polis	sh X	English 🗆 other										
* mark \square with an X															
					Num	ber of l	nours								
		1		T	Form	of edu	cation	n			T	1		T	
Unit teaching the course		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)	Specialist Classes – magister studies (SCM)	Foreign language Course (FLC)	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own work)	E-learning (EL)	
Winter Semester															
Direct (contact) education															
Online learning (synchronous)															



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Distance learnin	g														
Summer Semest	or														
Direct (contact)															
education															
Online learning			15												
(synchronous)															
Online learning															
TOTAL per year:															
Direct (contact)															
education															
(synchronous)															
Online learning															
(asynchronous)															
Educational obje	ectives (max	6 items)				•			•						
C1 The aim of	the teaching	g is prese	ntation	and	expla	nation	of b	asic 1	topics	from	immu	unolog	gy in	cludiı	ng:
ontogenesis of t	he immune	system.													
C2. Explain the	role of anti	gens and	humor	al an	tibod	ies in i	nnat	e and	l adop	tive i	mmur	ne res	pons	se.	
C3 Describe the	e regulation	of the in	Imune	respo	onse,	the go	oals o	t imn	nunot	hera	by and	imm	unor	nodu	lation.
c4. Explain the	role of hype	rsensitivi	ly and	path	omec	chanisr	ns of	auto	immu	ne ai	sease	and	prim	ary a	na
	inouencienc	y.													
Education result	matrix for r	nodule/co	ourse in	rela	tion t	o verifi	catio	n me	thods	ofth	e inte	nded	eduo	catior	n result
				and	the ty	pe of c	lass								
	Number of	Studer	nt who co	omple	tes the	2		Μ	lethod	s of ve	rificatio	n F	orm o	of dida	ctic
Number of course	major	modul	e/course	know	vs/is ab	ole to		of	inten	led ed	ucatior	c c	lass		
education result	result education results (forming and **enter the abbreviation abbreviation														
W 01		the	student	·· do	scribe	s the		su +/		ncict	ing of				
	C. W /	struc		. ue imm	aunol					115150			vic,	сц, Э.)
		svsto	m.		unon	ogical		3	U que	stior	1S,				
		39310	,					C	oral p	reser	ntatio	n			
		defin	os tha i	nnat	o and	adopti	NO.	р	repar	ed b	У				
W 02	C.W8	imm	inity kr		moch	auopti	r of	st	tuder	it on					
		hype	niity, Ki	it o	nech	anisini	5 01	ir	nmur	nolog	ical				
		nype	sensiti	vity d	inu			to	opic						
		autor	mmuni	LY;,					•						
W 03	C.W10	aumla	inc the	مارم	c of										
	0	expla		rule	5 01 	لم									
			inomoc	iulati	ion an	1a 									
		Immu	inodiag	nost	ic pos	sidilitie	es								
			•1				ç								
		descr	ibes pa	thom	necha	nisms	of								
W 04	C.W11	allerg	ic and a	autoi	mmu	ne dise	ases,	,							



		primary and secondary	
		immunodeficiency:	
		inimanodenciency,	
		describe the parameters of	
W 05	C.W12		
		evolutions in the mechanism of	
W 06	C W13		
** 00	0.0010	autoagressive disease and clinical	
		symptoms;	
		explains pathomechanism of	
W 07	C.W14	autoagressive disease and clinical	
		symptoms: associated with non-	
		specific immunological response;	
		defines immunological factors in	
W 08	C.W16		
		transplantation	
U 01	C.U2	student uses immunological test	
		to resolves diagnostic problem in	
		immunological diseases	
		the student performed	
		immunoonzymatic tost and	
U 02	C.U3	Inimunoenzymatic test and	
		explain different immunological	
		results associated with activity of	
		immune system	
		resolves the doutds concern risk	
1103	СПА	of dysfunction of immunological	
	0.07		
		system led to development of	
		disease	
K 01	K01	the student is able to cooperate in	
		the group during the laboratory	
		neeties	
		- knows how to prepare an oral	
		seminar presentation	
		oon procent immunolation tart	
		- can present immunological topic	
		chosen by himself during seminar	



	- is able to collect references for							
	immunological tonics							
	immunological topics.							
** L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes;								
SCM – specialist classes (magister st	udies); CSC – classes in simulated conditions; Fl	_C – foreign language course; PCP practical classes						
with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .								
Diasco mark on scalo 1 E how	the above offects place your classes in	the following estagories:						
Please mark on scale 1-5 now	chille or forming attitudes:	The following categories.						
	, skills of forming attitudes:							
Skiller A								
Skills4								
social competences:								
Student's amount of work (bal	ance of ECTS points)							
Student's workload		Student Workload (h)						
(class participation, activity, p	reparation, etc.)							
1. Contact hours:		15						
2. Online learning hours (e-lea	arning):	15						
3. Student's own work (self-st	udy):	40						
Total student's workload		70						
ECTS points for module/course	9	2						
Comments								
Content of classes (please enter	er topic words of specific classes divided into th	neir didactic form and remember how it is						
translated to intended educational e	ffects)							
Lectures								
1.								
2.								
3.								
Seminars								
1.								
2.								
3.								
Practical classes								
1. Development of immune system. Components of immunological system.								
2. Immunoglobulins – role in immunological response, monoclonal antibodies								
3. Innate immune response.								
4. Adoptive immune response, antigen presentation. Relation between innate and adoptive response.								
5.Regulation of immunological response. Cellular and humoral factors of regulation.								
6. Immunomodulation (activation, suppression) of immunological response.								
7.Immunological tolerance.								
8.Autoimmunity and autoimm	une disease							
9. Hypersensitivity (types I, II, III, IV).								



10. Immunological response to infection. The role of immunological protection against infection.
11 The role of immunological mechanisms in transplantation and inflammatory processes
12 Immunononthology Immunological protection against concer development
12. Initiatiopathology. Initiatiological protection against cancel development.
13. Immunological aspect of oral cancer development and progression.
Other
1.
2.
3.
etc
Basic literature (list according to importance, no more than 3 items)
1. D.Male, J. Brostoff, D.B. Roth. I. Roitt. "Immunology"-2016 year
2. J.K. Actor." Immunology and microbiology. 2015 year
2.
3.
Additional literature and other materials (no more than 3 items)
1 John B. Zabriskie . Essential Clinical Immunology. Cambrige University Press 2012 year.
2.
3.
Didactic resources requirements (e.g. laboratory multimedia projector other)
multimedia projector
Proliminany conditions (minimum requirements to be motive the student before starting the
module (source) Pasie (menuladae from biology, nother by the student before starting the
module/course) Basic knowledge from biology, pathophysiology
Conditions to receive credit for the course (specify the form and conditions of receiving credit for classes included
in the module/course, admission terms to final theoretical or practical examination, its form and requirements to
be med by the student to pass it and criteria for specific grades)
Oral presentation – topic from immunology graded as follow: form 0 to 12 points
Passed the text

Grade:	Criteria (only for courses/modules ending with an examination)
Very Good	



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Credit	Test consisting of 30 questions
	Criteria (only for courses/modules ending with e credit)
(3.0)	
Satisfactory	
(3.5)	
Satisfactory Plus	
(4.0)	
Good	
(4.5)	
Good Plus	
(5.0)	

Grade:	Criteria (examination evaluation criteria)
Very Good	
(5.0)	
Good Plus	
(4.5)	
Good	
(4.0)	
Satisfactory Plus	
(3.5)	
Satisfactory	
(3.0)	
Unit realizing the	Immunopathology and Molecular Biology
subject	
Unit address	Street. Bujwida 44, 50 343 Wrocław
Telephone	697 770 614
E-Mail	julia.bar@umed.wroc.pl

Person responsible	Julia Bar
for module	
Coordinator	Julia bar
Telephone	697 770 614
E-Mail	julia.bar@umed.wroc.pl

List of persons conducting specific classes



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Full name	Degree/scientific or	Discipline	Performed	Form of classes
	professional title		profession	
Julia Bar	Prof. dr hab.	Medicine	Teacher	Practical classes
Piotr	Dr	Medicine	Dentist	Practical classes
Cierpikowski				

Date of Syllabus development September 24, 2020 r Syllabus developed by

Julia Bar.....

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Signature of Head of teaching unit

Prof. dr hab. Julia Bar.....

Signature of Faculty Dean

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