

Subject card

Subject name and code	Selected aspects of immunology, PG_00024942								
Field of study	Medical and Mechanical Engineering, Mechanical and Medical Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
Education level	level first-cycle studies		Subject group			Obligatory subject group in the field of study			
						Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Machine Design and Vehicles -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor		Maria Skrzypkowska						
of lecturer (lecturers)	Teachers Maria Skrzypkowska								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ect Seminar		SUM	
	Number of study hours	0.0	0.0	0.0			15.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM		SUM		
	Number of study hours 15			3.0		7.0		25	
Subject objectives	The purpose of the subject is to gain basic knowledge about structure and functioning of human immune system.								
Learning outcomes	Course outcome Subject outcome Method of verification					fication			
	K6_W12		Student has a basic knowledge concerning structure of human immune system. Student has a knowledge of cell of the immune system. Student knows and understands basic mechanisms of immune response.			[SW1] Assessment of factual knowledge			
	K6_U10		Student understands consequences of inflammatory response and infections. Student is capable of interpreting results of basic immunological tests.			[SU2] Assessment of ability to analyse information			
	K6_K02		Student presents his position in relation to non-technical aspects of engineer's work. Student is aware of consequences and importance of the decisions that result from engineer's work.			[SK4] Assessment of communication skills, including language correctness			
Subject contents	Basic anatomy of immune system. Non-specific immune response. Inflammation. Specific immune response – T cells and involvement of MHC's in antigen recognition. Specific immune response – B cells. Immune response to bacterial and viral infections. Anti-tumor response. Impact of prosthesis and implants on functioning of immune system.								
Prerequisites and co-requisites	none								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	final on-line test		60.0%	60.0%		95.0%			
	active participation in seminars		0.0%			5.0%			

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Recommended reading	Basic literature	"Immunologia" - Jakub Gołąb, Marek Jakóbisiak, Witold Lasek; 2. "Basic Immunology" - Abul K. Abbas, Andrew H. H. Lichtman, Shiv Pillai; 3. "Immunologia" pod redakcją I.M. Roitt;				
	Supplementary literature	Journal of Immunology", "Immunity", "Current Opinion in Immunology", "Nature Reviews Immunology" - selected review articles;				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Generative lymphoid organs include: a) spleen b)liver c)thymus d) tonsils e) lymph nodes					
	2. PAMPs are a) acute phase proteins b) specific TCR c) also known as TLR d) complement proteins e) structures on microorganisms					
	3. Cytokines: a) have only autocrine action b) have only paracrine action c) always activate humoral responses d) always activate cellular responses e) lack of correct answer					
	4. Complete the sentence: Endogenous antigens are presented on to lymphocytes.					
	What structure is presented on a presents MHC I complex].	e is presented on a picture below? Indicate variable parts of presented complex [figure complex].				
Work placement	Not applicable					

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