Board Code and Name	**TIP205 - Blood-Immune System and Related Disorders**
Term of the Board	2nd Semester / Spring Semester
Course Hours of the Board (Theoretical/ Application)	92/32
ECTS of the Board	8
Language of the Board	Turkish
Type of Board	Imperative
Board's Learning and Teaching Techniques	1. Expression 2. Argument 3. Q&A 4. Interactive Presentation 5. Team/Group Work 6. Observation 7. Application
Measurement Techniques of the Board	1. Written Exam 2. Practice Exam
Responsible(s) of the Board	Prof. Dr. Mehmet Yılmaz, Chairman of the Course Board Assist. Prof. Dr. Necla Benlier, Vice President of the Course Board Prof. Dr. Mehmet Sökıcı, Vice President of the Course Board
Purpose of the Board	At the end of this board, students; Basic elements of the hematopoietic system and immune system, development, function to gain general information about the mechanisms, etiopathogenesis of diseases related to this system, symptoms, basic clinical and laboratory findings, diagnostic methods and drugs used in treatment; It is aimed that they have knowledge about the basic approach to a clinical case and that they can practice basic professional skills related to the subject.
Learning Outcomes of the Board	1. To be able to count and distinguish the basic elements of the hematopoietic system and the immune system 2. To be able to explain their embryological origins and development, respectively 3. To be able to describe their histological structures and physiological mechanisms 4. etiopathogenesis of basic diseases related to the system, symptoms, clinical, laboratory and histopathological findings Ability to count 5. To be able to list the treatment methods applied in basic diseases related to the system and the effects, mechanisms of action, pharmacokinetics, side effects and drug interactions of the drugs used in general terms 6. To be able to count the viral agents that affect the immune system, the diagnosis and treatment approaches of the diseases caused by these agents 7. To be able to prepare and evaluate peripheral blood smears and perform tourniquet applications in person
Content of the Board	1. Normal structure, development, functions, pathophysiology and other systems of the hematopoietic system and immune system general information is given about interactions, etiopathogenesis, epidemiology, symptoms, basic clinical and laboratory findings, diagnostic methods and drugs used in treatment of diseases related to this system. 2. In addition to basic immunology topics, detailed information about viral agents that affect the immune system and their diseases is presented. 3. In Vocational Skills Practices (MBU) courses organized in small groups, peripheral blood smear preparation and evaluation and tourniquet applications are performed. 4. In the Clinical Case Evaluation (CODE) courses, which are taught in the form of discussions together, scientific approach to different cases Predictions are presented on the subject.
Resources	1. Nelson DL, Cox MM. Lehninger Principles of Biochemistry, 5th ed. W. H. Freeman Co, New York, 2008. 2. Kayaalp, O. Medical Pharmacology in terms of rational treatment 1-2. 13th edition, Pelikan Bookstore, Ankara, 2018. 3. Guyton and Hall. Medical Physiology- John E. Hall Translation Editor: Berrak Ç. Yeğen, Güneş Medical Bookstores-13. Oppression. 4. Keith L. Moore, T.V.N. Persaud, Mark G. Torchia. Clinical Aspects of Human Embryology. Translation Editor: Hakkı Dalçık- 10. Print Nobel Medical Bookstore. 5. Antony L. Mescher. Junqueira Basic Histology Topic and Atlas. Translation Editors: Seyhun Solakoğlu, Aslı Erdoğan, Hasan Serdar Mutlu- 14. Print Sun Medical Bookstores. 6. Patrick R. Murray. Basic Medical Microbiology. Translation Editor: A. Dürdal Us, Ahmet Başustaoğlu, Güneş Medical Bookstore, 2016. 7. Robbins Basic Pathology, Translation Editors S. Tuzlalı, M. Güllüoğlu, U. Çevikbaş, Nobel Medical Bookstore, 2014.

Weeks	Board Courses (Theoretical/Practical)
1st Week	Histology and Embryology (T), Biochemistry (T/U), Physiology (T/U), Microbiology (T).
2nd Week	Histology and Embryology (T/U), Microbiology (T), Physiology (T/U), Pharmacology (T), Biochemistry (T), Pathology (T).
3rd Week	Microbiology (T/U), Pathology (T), Clinical Approach (T/Pediatrics, Internal Medicine, Medical Genetics, General Surgery), Biochemistry (U).
4th Week	Clinical Approach (T/ Internal Medicine, Pediatrics), Microbiology (T), Pharmacology (T), Physiology (U), Professional Skills Practices (U).
5th Week	Pharmacology (T), Microbiology (T), Clinical Approach (T/ Internal Medicine, Pediatrics), Pathology (T/U), Biochemistry (U), Physiology (U), Professional Skills Practices (U).
6th Week	Clinical Approach (T/ Medical Genetics, Clinical Case Evaluation (CODE), General Surgery, Nuclear Medicine), Pharmacology (T), Biochemistry (T).
Explanation: **T:** Theoretical **U:** Application	

Number of Questions in the Board		
Exam Type	**Theoretical**	**Application**
Board Exam	80	20
Finale	100	0
Integration	100	0

Evaluation System		
Semester Studies	**Number**	**Total Contribution (%)**
Continuation	0	0
Laboratory	0	0
Application	3	8
Fieldwork	0	0
Course-Specific Internship (If Available)	0	0
Assignments	0	0
Presentation	0	0
Projects	0	0
Seminar	0	0
Board Exam	1	32
Finale	1	60
	Sum	**100**
Contribution of Semester Studies to Success Grade	0	0
Contribution of Final Studies to Success Grade	0	0
	Sum	**0**
Explanation: While calculating the contribution rates of the evaluation system**, SANKO University Associate Degree and Undergraduate Education and the Examination Regulation and the Faculty of Medicine Education and Measurement and Evaluation Directive are** valid.		

Student Workload Table			
Events	**Number (weeks)**	**Duration (class hours)**	**Sum**
Course Duration (Including Exam Week)	5	18	92
Laboratory	0	0	0
Application	4	8	32
Course-Specific Internship (If Available)	0	0	0
Fieldwork	0	0	0
Out-of-Class Study Time (Freelancing/ Group Study/ Pre-Study/ Reinforcement)	5	15	76
Presentation/Seminar Preparation	0	0	0
Project	0	0	0
Assignments	0	0	0
Board Exam	0	0	0
Final Exams	0	0	0
Total Workload	**14**	**41**	**200**

Associating the Learning Outcomes of the Courses with the Program Competencies					
Program Qualifications	**Learning Outcomes**				
	1	**2**	**3**	**4**	**5**
1. Explain the basic structure, development and normal functioning of the human body at the level of molecules, cells, tissues, organs and systems.					X
2. Question the abnormal structuring and functioning of the human body, explain it with information based on qualified scientific research, evaluate the causes of diseases by considering the interaction with the individual and his environment.					X
3. Clinical decision-making and management processes of diseases and applications of evidence-based medicine evaluates under the guidance of.	X				
4. Define the concepts of health and disease in individual and social contexts, explain health seeking and health protection behaviors, national health service delivery and administrative processes.	X				
5. Knows the research processes that form the basis of medical knowledge, has foreign language knowledge to follow the developments in this field.		X			
6. Takes medical history from the applicant/patient and their relatives.	X				
7. Performs physical examinations of individuals, evaluates diagnostic tests, and manages the diagnosis and treatment processes using appropriate procedure steps.	X				
8. Applies medical interventions for diagnosis, treatment or prevention of individuals.		X			
9. Organizes and keeps records of health and disease-related data obtained from individuals and society in a medical and administrative context.		X			
10. Plans and implements practices for the protection and development of health in individual and social dimensions.		X			
11. Plans and implements a scientific research and evaluates its results.	X				
12. Demonstrates lifelong learning behavior by making use of scientific and technological developments for occupational and social changes.				X	
13. Language, religion, race, gender, social and cultural discrimination in the individual and society it serves fulfills his/her responsibilities as a physician within the framework of professional values, ethical principles and legal regulations.	X				
14. Work as a team with colleagues and other health professionals in the processes of protecting and developing health in individual and social dimensions and managing diseases.		X			
15. It strives to protect and improve the health of the individual and the society and to provide health services for the benefit of the individuals who make up the society.		X			
Description: Level of qualification: **1.** Miscarriage **2.** Low/medium **3.** Middle **4.** High **5.** That's great					