

Medicine			
Bachelor	TR-NQF-HE: Level 7	QF-EHEA: Second Cycle	EQF-LLL: Level 7

Course Introduction and Application Information

Course Code:	TIP503						
Course Name:	Anesthesiology and Reanimation						
Semester:	Spring						
Course Credits:	<div>ECTS</div> <div>5</div>						
Language of instruction:	Turkish						
Course Condition:							
Does the Course Require Work Experience?:	No						
Type of course:	Compulsory Courses						
Course Level:	<table> <tr> <td>Bachelor</td><td>TR-NQF-HE:7. Master's Degree</td><td>QF-EHEA:Second Cycle</td><td>EQF-LLL:7. Master's Degree</td></tr> </table>			Bachelor	TR-NQF-HE:7. Master's Degree	QF-EHEA:Second Cycle	EQF-LLL:7. Master's Degree
Bachelor	TR-NQF-HE:7. Master's Degree	QF-EHEA:Second Cycle	EQF-LLL:7. Master's Degree				
Mode of Delivery:	Face to face						
Course Coordinator:	Prof. Dr. HİKMET KOÇAK						
Course Lecturer(s):	Prof. Dr. Kamil Toker, Prof. Dr. Simru Tuğrul , Prof. Dr. Müslüm Çiçek , Prof. Dr. Kader Keskinbora , Dr. Öğr. Üyesi Hakan Parlak, Dr. Öğr. Üyesi Erkan Bayram, Dr. Öğr. Üyesi Gökhan Teker, Dr. Öğr. Üyesi Taylan Şahin						
Course Assistants:							

Course Objective and Content

Course Objectives:	<p>According to the scope of the learning objectives specified in the Core Education Program (CEP) ensure that students should acquire the knowledge and skills to be able to;</p> <ul style="list-style-type: none"> - define anaesthesia, know the methods and differences, - able to monitor and give oxygen to the patients in case of emergency, - know necessary equipments and drugs, - manage the airway with basic methods, - know urgent intervention for basic and advanced life support, - diagnose and differentiate acute and chronic pain, - know intensive care admission criteria and manage the critical patients in case of emergency.
Course Content:	<p>Basic knowledge and skills of Anaesthesiology, Intensive Care and Pain;</p> <ul style="list-style-type: none"> - History and development of anaesthesia, - drugs and methods used, - basic and advanced life support, - airway management, - oxygen therapy, - basic principles of intensive care, - fluid-electrolyte and acid base balance and disorders; diagnose and therapy, - blood transfusion; indications, - methods and complications, - brain death definition and criteria, - pain; definition diagnose therapy - blood gas analysis - peripheral and central venous catheterization - arterial catheterization - endotracheal intubation

Learning Outcomes

The students who have succeeded in this course;

- 1) Must be able to know anesthesia methods and indications.
- 2) Must be able to know how to provide airway patency with different methods in elective and emergency conditions.
- 3) Must be able to ventilate the person/patient who is not breathing.
- 4) Must be able to know the preoperative patient the basic rules and benefits of evaluation.
- 5) Must be able to know local anesthetic toxicity and treatment.
- 6) Must be able to know the indications, complications and treatments of blood transfusion.
- 7) Must be able to know blood gas evaluation.
- 8) Must have knowledge about the general principles of intensive care and must be able to follow the criteria for admission of patients to the intensive care unit.
- 9) Must be able to recognize fluid and electrolyte imbalances and metabolic disorders in patients and make a treatment plan.
- 10) Must be able to recognize sepsis and septic shock and organ failure and make the first treatment plan.
- 11) Must be able to know the criteria for brain death and the conditions of decision making.
- 12) Must be able to know and apply basic monitoring methods.

Course Flow Plan

Week	Subject	Related Preparation
1)	Theoretical Lessons - Introduction; History of Anaesthesia - Anaesthetic Drugs - Airway Management; Endotracheal Intubation - Fluid, electrolyte Acid Base Balance - Hypoxia and oxygen therapy - Brain death and organ donation - Local anaesthetics and toxicity - Regional anaesthesia - CPR; Basic and advanced life support - Blood products, transfusion and complications Practise Airway management Venous catheterization Bed-side patient evaluation	There is no preparation-course material.
2)	Theoretical Courses - Basic principals of intensive care - Sepsis and septic shock - Mechanical ventilation and ARDS - Pain, mechanisms.classifications - Acute and chronic pain therapy - Preoperative patient assessment - Monitorization - FİNAL EXAM Practise: Invazive pain therapy procedures Blood gas analysis Bed-site patient evaluation	There is no preparation-course material.

Sources

Course Notes / Textbooks:	Dersin kaynak kitabı bulunmamaktadır. The course does not have a mandatory resource.
References:	<p>Dersin konuları ile ilgili güncel makaleler ve ders slaytları./Articles mentioned in the course related with topics and lecture slides.</p> <p>Temel Kaynaklar/Basic Sources:</p> <ol style="list-style-type: none"> 1. Clinical Anaesthesia. Barash P., Cullen BF., Stoelting R. 5th Edition Lippincott Williams & Wilkins, 2006. 2. Basics of Anesthesia Miller R. 6th Edition Elsevier.

Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11	12
Program Outcomes												
1) When Istinye University Faculty of Medicine student is graduated who knows the historical development of medicine, medical practices, and the medical profession and their importance for society.												
2) knows the normal structure and function of the human body at the level of molecules, cells, tissues, organs and systems.												

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11	12
3) is capable of systematically taking an accurate and effective social and medical history from their patients and make a comprehensive physical examination.												
4) knows the laboratory procedures related to diseases; In primary care, the necessary material (blood, urine, etc.) can be obtained from the patient with appropriate methods and can perform the necessary laboratory procedures for diagnosis and follow-up or request laboratory tests.												
5) can distinguish pathological changes in structure and functions during diseases from physiological changes and can Interpret the patient's history, physical examination, laboratory and imaging findings, and arrive at a pre-diagnosis and diagnosis of the patient's problem.												
6) knows, plans and applies primary care and emergency medical treatment practices, rehabilitation stages.												
7) can keep patient records accurately and efficiently, know the importance of confidentiality of patient information and records, and protects this privacy.												
8) knows the clinical decision-making process, evidence-based medicine practices and current approaches.												
9) knows and applies the basic principles of preventive health measures and the protection of individuals from diseases and improving health, and recognizes the individual and/or society at risk, undertakes the responsibility of the physician in public health problems such as epidemics and pandemics.												

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11	12
10) knows the biopsychosocial approach, evaluates the causes of diseases by considering the individual and his / her environment.												
11) is capable of having effective oral and/or written communication with patients and their relatives, society and colleagues.												
12) knows the techniques, methods and rules of researching. It contributes to the creation, sharing, implementation and development of new professional knowledge and practices by using science and scientific method within the framework of ethical rules.												
13) can collect health data, analyze them, present them in summary, and prepare forensic reports.												
14) knows the place of physicians as an educator, administrator and researcher in delivery of health care. It takes responsibility for the professional and personal development of own and colleagues in all interdisciplinary teams established to increase the health level of the society.												
15) knows employee health, environment and occupational safety issues and takes responsibility when necessary.												
16) knows health policies and is able to evaluate their effects in the field of application.												
17) keeps medical knowledge up-to-date within the framework of lifelong learning responsibility.												
18) applies own profession by knowing about ethical obligations and legal responsibilities, prioritizing human values and with self-sacrifice throughout own medical life.												

Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Average	3 Highest

	Program Outcomes	Level of Contribution
1)	When Istinye University Faculty of Medicine student is graduated who knows the historical development of medicine, medical practices, and the medical profession and their importance for society.	
2)	knows the normal structure and function of the human body at the level of molecules, cells, tissues, organs and systems.	
3)	is capable of systematically taking an accurate and effective social and medical history from their patients and make a comprehensive physical examination.	
4)	knows the laboratory procedures related to diseases; In primary care, the necessary material (blood, urine, etc.) can be obtained from the patient with appropriate methods and can perform the necessary laboratory procedures for diagnosis and follow-up or request laboratory tests.	
5)	can distinguish pathological changes in structure and functions during diseases from physiological changes and can Interpret the patient's history, physical examination, laboratory and imaging findings, and arrive at a pre-diagnosis and diagnosis of the patient's problem.	
6)	knows, plans and applies primary care and emergency medical treatment practices, rehabilitation stages.	
7)	can keep patient records accurately and efficiently, know the importance of confidentiality of patient information and records, and protects this privacy.	
8)	knows the clinical decision-making process, evidence-based medicine practices and current approaches.	
9)	knows and applies the basic principles of preventive health measures and the protection of individuals from diseases and improving health, and recognizes the individual and/or society at risk, undertakes the responsibility of the physician in public health problems such as epidemics and pandemics.	
10)	knows the biopsychosocial approach, evaluates the causes of diseases by considering the individual and his / her environment.	
11)	is capable of having effective oral and/or written communication with patients and their relatives, society and colleagues.	

12)	knows the techniques, methods and rules of researching. It contributes to the creation, sharing, implementation and development of new professional knowledge and practices by using science and scientific method within the framework of ethical rules.	
13)	can collect health data, analyze them, present them in summary, and prepare forensic reports.	
14)	knows the place of physicians as an educator, administrator and researcher in delivery of health care. It takes responsibility for the professional and personal development of own and colleagues in all interdisciplinary teams established to increase the health level of the society.	
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16)	knows health policies and is able to evaluate their effects in the field of application.	
17)	keeps medical knowledge up-to-date within the framework of lifelong learning responsibility.	
18)	applies own profession by knowing about ethical obligations and legal responsibilities, prioritizing human values and with self-sacrifice throughout own medical life.	

Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
Final	1	% 65
Final Sözlü	1	% 35
total		% 100
PERCENTAGE OF SEMESTER WORK		% 35
PERCENTAGE OF FINAL WORK		% 65
total		% 100

Workload and ECTS Credit Calculation

Activities	Number of Activities	Workload
Course Hours	2	20
Application	2	38
Special Course Internship (Work Placement)	2	38
Presentations / Seminar	2	12

Final	1	8
Total Workload		116