

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

Course Introduction and Application Information

Course Code:	TIP407
Course Name:	General Surgery and Emergency Internship Block
Semester:	Fall
Course Credits:	ECTS 15
Language of instruction:	Turkish
Course Condition:	
Does the Course Require Work Experience?:	No
Type of course:	Compulsory Courses
Course Level:	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. HIKMET KOÇAK
Course Lecturer(s):	Genel Cerrahi: Prof. Dr. Levhi Akın, Prof. Dr. Emre Merdan Fayda, Prof. Dr. Ayhan Dinçkan, Prof. Dr. M.Mahir Özmen, Prof. Dr. Aziz Sümer, Prof. Dr. Mehmet Eser, Doç. Dr. Mehmet Tokaç, Doç. Dr. Ömer Vefik Özozan, Dr. Öğr. Üyesi Çağhan Pekşen Acil: Dr. Öğr. Üyesi Tufan Akın GİRAY, Dr. Öğr. Üyesi Ali Sağlık, Dr.Öğr.Üyesi Ayşegül Akçebe
Course Assistants:	

Course Objective and Content

Course Objectives:	It is expected to provide the knowledge and skills about history taking, physical examination, diagnosis, differential diagnosis, management, and guidance of treating patients with symptoms and signs of essential, frequent and fundamental surgical diseases and emergency medicine that may require elective and emergency intervention.
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Course	Principles of general surgical practice, clinical approach to surgical patients, including history taking, physical examination, and diagnostic methods.
Content:	Surgical diseases and their treatment modalities. Shock, sepsis, disorders of fluid, electrolyte, and acid-base balance, surgical nutrition, hemostasis and blood transfusions, wound infections and wound care, abdominal trauma, burns. Surgical diseases and tumors based on the gastrointestinal and endocrine systems and their treatment modalities. Principles of emergency medicine, clinical approach to emergency patients, including history taking, physical examination, and diagnostic method and treatment at the primary care level.

Learning Outcomes

The students who have succeeded in this course;

- 1) To take medical and surgical history of patients who applied to the general surgery clinics.
- 2) To detect and differentiate normal and pathological findings of surgical diseases while performing physical examination.
- 3) To apply basic enterprise skills.
- 4) To learn how to evaluate laboratory and radiological findings in surgical cases.
- 5) To understand management of surgical diseases and clinical situations. To evaluate classification and staging systems of surgical diseases and clinical situations.
- 6) To explain anatomical and physiological characteristics of surgical organs.
- 7) To learn approaches and management modalities for patients presenting with abdominal pain.
- 8) To learn how to manage a traumatic patient with different modalities.
- 9) To get information about follow-up of patients before and after surgical procedures.
- 10) To perform wound care, treatment of uncomplicated and complicated wounds with different suturing skills. To learn simple and basic surgical interventions used in general surgery practice.
- 11) To learn signs and symptoms of gastrointestinal bleeding, skills concerning bleeding management and perform their emergent treatment.
- 12) To obtain ethical issues related to management and treatment of patients.
- 13) To learn how to use multidisciplinary approaches in diagnosing complicated patients.
- 14) Be able to diagnosis and treatment of emergency circumstances.
- 15) To gain knowledge, skills and attitude in taking patient history and making physical examination in the emergency service.
- 16) General and physical examination should be able to problem.
- 17) To plan appropriate and cost-effective approach in performing laboratory tests like whole blood count, basic biochemistry, routine urinary analysis, arterial blood gases etc. and to interpret the laboratory results.
- 18) To identify normal and pathologic ECG findings.
- 19) Be able to provide airway patency.
- 20) To gain the knowledge and skills to perform basic life support, first aid and advanced cardiac life support.
- 21) Be able to diagnosis and treatment of poisoning and animal bites and stings.
- 22) Be able to evaluate the patient's Glasgow coma scale scores.
- 23) Plan, apply and observe basic principles of rational pharmacotherapy.

Course Flow Plan

Week	Subject	Related Preparation
1)	GENERAL SURGERY: Theoretical lectures History taking and physical examination in surgery (2 hours) Surgical asepsis, antisepsis, and disinfection Fluid and electrolyte balance Surgical diseases of the anorectal region Introduction to the surgical instruments Catheters-drains Abscesses and abscess drainage Abdominal and other surgical incisions Firearm and penetrating cutting tool injuries Burns Practical training Physical examination on simulated patients Suture materials and suture techniques Observation on the outpatient clinics / surgical wards	There is no preparation-course material.
2)	GENERAL SURGERY: Theoretical lectures Surgical diseases of the spleen Surgical diseases of the adrenal glands Surgical diseases of the small intestine Laparoscopic and robotic surgery Liver cirrhosis, ascites, and	There is no preparation-

	portal hypertension Cyst hydatid disease of the liver Practical training (Group 1, Group 2) Observation on the outpatient clinics / surgical wards	course material.
3)	GENERAL SURGERY: Theoretical lectures Intestinal obstruction Bleedings of gastrointestinal system Wound dressing, debridement, dressing materials Ethical issue for organ transplantation and transplantation surgery Vascular surgical interventions Organ transplantation from the primary health care perspective Surgical site and wound infections Emergency colorectal diseases and colonic emergencies Pancreatitis Pancreatic tumors Practical training Observation on the outpatient clinics / surgical wards	There is no preparation-course material.
4)	GENERAL SURGERY: Theoretical lectures Esophageal diseases and tumors Gastric diseases and tumors Surgical treatment of peptic ulcer Approach to patients with goiter and thyroid nodules Thyroid cancer Hyperthyroidism Thromboembolism and its prophylaxis Transfusion of blood and blood products Mesenteric vascular diseases Nutrition in surgical patients Surgical anatomy Abdominal wall hernias Practical training Observation on the outpatient clinics / surgical wards	There is no preparation-course material.
5)	GENERAL SURGERY: Theoretical lectures Benign disease of the breast Malignant diseases of the breast Parathyroid diseases Obstructive jaundice SIRS, sepsis, and multiple organ failure Acute abdomen Peritonitis and intraabdominal abscesses Abdominal trauma / intraabdominal solid organ injuries Acute appendicitis and diseases of the appendix Shock and parenteral fluids Postoperative complications Hiatal hernia and gastroesophageal reflux disease Metabolic surgery Evaluation of plain radiographs (Abdomen, Thorax) Diseases of the gallbladder and bile ducts Colorectal polyps and cancer Benign colorectal diseases Practical training Observation on the outpatient clinics / surgical wards	There is no preparation-course material.
6)	GENERAL SURGERY: Practical training Observation on the outpatient clinics / surgical wards Oral examination	There is no preparation-course material.
7)	EMERGENCY MEDICINE: Theoretical Courses What Is Emergency Medicine? Emergency approach and triage Approach To Head Pain Patient Approach To The Patient With Impaired Consciousness Allergy and Anaphylaxis Poisonings Basic Life Support Defibrillator Management Of Patients With Shortness Of Breath Blood Gas Assessment Practical training Basic Life Support Basic Life Support Use of Defibrillator	There is no preparation-course material.
8)	EMERGENCY MEDICINE: Theoretical Courses Advanced Cardiac Life Support Advanced Airway Techniques Orthopedic Emergencies Patient Transport Techniques Approach To Chest Pain Patient Electrocardiography-Arrhythmias-Dysrhythmias Approach To Abdominal Pain Patient Multitrauma Patient Management Practical training (Group 1, Group 2) Advanced Cardiac Life Support Advanced Cardiac Life Support Orthopedic Emergencies ad transportation techniques -I Orthopedic Emergencies ad transportation techniques -II	There is no preparation-course material.
9)	EMERGENCY MEDICINE: Practical training (Group 1, Group 2) Advanced Airway Techniques-I Advanced Airway Techniques-II Advanced Airway Techniques-III Oral and theory exam	There is no preparation-course material.

Sources

Course Notes / Textbooks:	Dersin kaynak kitabı bulunmamaktadır. / The course does not have a mandatory resource.
References:	Dersin konuları ile ilgili güncel makaleler ve ders slaytları./Articles mentioned in the course related with topics and lecture slides. Temel Kaynaklar/Basic Sources: 1-Genel Cerrahi, Tamer Akça, GK Çakmak, AU Ural

2-Schwartz Cerrahinin İlkeleri, F. Charles Brunicardi, Çeviri: M. Mahir Özmen

3-Temel Cerrahi El Kitabı, İskender Sayek

4-Schwartz's Principles of Surgery. Editor-in-chief: F. Charles Brunicardi, Associate editors: Dana K. Andersen, Timothy R. Billiar, David L. Dunn, John G. Hunter, Jeffrey B. Matthews, Raphael E. Pollock. New York: McGraw-Hill Education, 11th edition, 2019.

5-Sabiston Textbook of Surgery: The Biological Basis of Modern Surgical Practice. [Edited by] Courtney M. Townsend, Jr, R. Daniel Beauchamp, B. Mark Evers, Kenneth L. Mattox. Philadelphia, PA: Elsevier/Saunders, 20th edition, 2017.

6-Rosen's Emergency Medicine: Concepts And Clinical Practice, Ninth Edition, Philadelphia, PA: Elsevier, 2018.

7- Tintinalli's Emergency Medicine: a Comprehensive Study Guid, Seventh Edition, 2013.

8- Cander Acil Tıp Temel Başvuru Kitabı, First Edition, 2016.

9- First Aid For The Emergency Medicine Boarda, Second Edition, 2012.

10- ATLS (Advanced Trauma Life Support), The American College of Surgeons, Tenth Edition, 2018. 11- AHA (American Heart Association) CPR and ECC Guidelines, 2020.

Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
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	13	14	15	16	17	18	19	20	21	22	23
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.																							

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
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.																							

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
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.																							

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
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.																							

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
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.																							

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
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.	
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.	

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	9	91
Application	9	114

Special Course Internship (Work Placement)	9	114
Presentations / Seminar	6	36
Final	1	8
Total Workload		363