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

Course Introduction and Application Information

Course Code:	TIP505
Course Name:	Pediatric Surgery and Radiodiagnostics
Semester:	Spring
Course Credits:	ECTS 4
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. HİKMET KOÇAK
Course Lecturer(s):	Prof. Dr. Adem Uçar, Prof. Dr. Selami Sözübir , Dr. Öğr. Üyesi Işıl Yurdaışık
Course Assistants:	

Course Objective and Content

Course Objectives:	1. To provide information about the surgical problems of the head and neck, chest cavity, abdomen and genito-urinary region in children (0-18 years), to teach the basic principles of surgical application principles and methods, to adopt the diagnostic and surgical treatment approach for these problems, to teach the definition of surgical cases in pediatric emergency and to gain the principles and skills of emergency approach to these cases.Araştırmacı ve sorgulayıcı özelliklere

	sahip, mesleğini etik kurallar içerisinde uygulayan, hasta ve ailesine bütüncül yaklaşıp empati kurabilen hekimler olarak yetişmelerini sağlamaktır. 2. To enable the students to distinguish radiological imaging methods, to recognize typical radiological findings, to select appropriate radiological examination and to interpret imaging for diagnostic purposes in emergencies. 3. To enable the students to gain the skills of general radiology knowledge, choosing appropriate radiological methods, recognizing typical radiological findings of diseases and making differential diagnosis.
Course Content:	It covers the principles of symptoms and signs of head and neck, chest cavity, abdomen, and genito-urinary surgeries, diagnosis and treatment of diseases in child patients (0-18) in a way that covers the learning objectives specified in the Core Education Program in the field of Pediatric Surgery. Theoretical lessons cover bedside applications, pediatric intensive care visits, interactive case discussions. In the field of radiodiagnostics, the basic features of the radiological imaging methods to be used throughout the life of medicine, the areas of use according to clinical findings, the advantages, and disadvantages, risks will be explained in a way to cover the learning objectives specified in the Core Education Program, and include theoretical lectures, practical applications, and case discussions.

Learning Outcomes

The students who have succeeded in this course;
1) Must be able to recognize diseases that require surgical treatment, which are common in childhood, and refer the family to a pediatric surgeon.
2) Must be able to take anamnesis and perform physical examination and differential diagnosis from a child with a surgical problem.
3) Must be able to recognize the causes of intestinal obstruction in newborns and children.
4) Must be able to diagnose acute abdomen in children and refer them under appropriate conditions.
5) Must be able to apply the principles of first approach in pediatric patients with general body trauma.
6) Be able to recognise inguinal region problems in children.
7) Be able to recognise surgical problems related to anorectal region and genitourinary system in children.
8) Be able to recognise abnormalities related head and neck region.
9) Be able to refer the critically ill pediatric patient who requires urgent surgical treatment to a pediatric surgeon by making the necessary first attempts.
10) Must be able to recognize the radiological anatomy.
11) Must be able to determine the appropriate radiological examination to be selected according to clinical findings.
12) Must be able to know the properties and contraindications of radiation-containing examinations.
13) Must be able to associate radiological findings with clinical information.
14) Must be able to interpret pathological radiological findings in basic systems and explain radiological emergencies.
15) Must be able to explain the applications and indications of interventional radiology.

Course Flow Plan

Week	Subject	Related Preparation
1)	Theoretical Lectures: Introduction to Radiology Internship Orientation and Imaging Methods Introduction and Orientation to Pediatric Surgery Surgical Cases in Pediatric Emergency Newborn as a Surgical Case Child and Trauma Abdominal Pain in Children and Acute Abdomen Surgical GIS Bleeding in Children Surgical Jaundice in Children Childhood GI Obstructions Anterior Abdominal Wall Defects and Umbilical Pathologies Inguinal Pathologies in Children Head and Neck Pathologies in Children Childhood Solid Tumors Non-Obstructive Pathology in Pediatric Urology Obstructive Pathologies in Pediatric Urology Gastrointestinal Radiology Urogenital Radiology Hepatobiliary Radiology Practical Training: Policlinic Operation	There is no preparation-course material.
2)	Theoretical Lectures: Lung Radiography Neuroradiology Use of Artificial Intelligence in Radiology Musculoskeletal Radiology Breast Imaging Interventional radiology Thoracic Radiology Cardiovascular Radiology Case Discussion Exam Practical Training: Pratic	There is no preparation-course material.

Sources

Course Notes / Textbooks:	Dersin kaynak kitabı bulunmamaktadır. The course does not have a mandatory resource. Dersin konuları ile ilişkili videolar ve ders slaytları. / Videos mentioned in the course related with topics and lecture slides
References:	Dersin konuları ile ilgili güncel makaleler ve ders slaytları./Articles mentioned in the course related with topics and lecture slides. Çocuk Cerrahisi dersinin/stajının kaynakları/Resources for Pediatric Surgery Internship: 1. Pediatric Surgery. Arnold G. Coran, Anthony Caldamone, N. Scott Adzick, Thomas Krummel (Editors); Elsevier Health Sciences. 2. Essentials of Pediatric Surgery. Marc I. Rowe; Mosby. 3. Çocuk Cerrahisi. Can Başaklar; Palme Kitabevi. Radyodiagnostik dersinin/stajının kaynakları/Resources for Radiology Internship: 1. A Textbook of Radiology and Imaging. David Sutton (Editor); Churchill Livingstone. 2. Klinik Radyoloji. Ercan Tuncel (Editör); Dünya Tıp Kitabevi. 3. Abdominal Radyoloji. Ercan Kocakoç (Editör); Dünya Tıp Kitabevi. 4. Yüksek Çözünürlüklü Akciğer BT: Temeller. Çetin Atasoy (Editör); Dünya Tıp Kitabevi.

Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Program Outcomes															

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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.															

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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	13	14	15
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.															

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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.	
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	2	28
Application	2	12
Special Course Internship (Work Placement)	2	28
Presentations / Seminar	2	12
Final	1	8
Total Workload		**88**