

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

## Course Introduction and Application Information

Course Code:	TIP507						
Course Name:	Orthopedics and Traumatology						
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. Çağatay Öztürk , Prof. Dr. Ramazan Erden Ertürer , Doç. Dr. Haluk Çabuk , Dr. Öğr. Üyesi Gökhan Kürşat Kara , Dr. Öğr. Üyesi Hüseyin Bahadır Gökçen , Dr. Öğr. Üyesi Kaya Turan						
Course Assistants:							

## Course Objective and Content

Course Objectives:	At the end of this internship, recognizing the health problems of the interns related to the musculoskeletal system; It is aimed that they will be able to explain the treatment methods, gain
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competence in referral, have the necessary knowledge and skills to approach emergency orthopedic and trauma problems, and be able to perform basic applications alone.

Course Content:	In the field of Orthopedics and Traumatology, it covers the principles of symptoms and signs, diagnosis and treatment of diseases in adult patients in a way that includes the learning objectives specified in the Core Education Program. It includes theoretical lectures, bedside applications, operating room visits, radiological and laboratory data evaluation, plaster and splint applications, clinical practice, service visits and bedside evaluations in the polyclinic.
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## Learning Outcomes

The students who have succeeded in this course;

- 1) Must be able to explain the formation mechanisms of the problems/diseases related to the movement system.
- 2) Must be able to relate the problems related to the movement system with clinical anatomy.
- 3) Must be able to take a history from patients presenting with orthopedic disorders.
- 4) Must be able to perform physical examinations of patients presenting with orthopedic complaints.
- 5) Must be able to evaluate the diagnostic tests applied to patients who apply with orthopedic complaints.
- 6) Must be able to make differential diagnosis of orthopedic diseases with evidence-based medicine practices.
- 7) Must be able to explain the treatment options in orthopedic diseases.
- 8) Must be able to explain treatment plans and referral criteria suitable for diagnosis at primary care level for orthopedic diseases.
- 9) Must be able to apply basic medical interventions (bandage wrapping, splint making, etc.) for the movement system.
- 10) Must be able to make the first intervention in orthopedic and traumatology emergencies and refer them appropriately.
- 11) Must be able to comprehend the importance of multidisciplinary approach in orthopedics and traumatology patients.

## Course Flow Plan

Week	Subject	Related Preparation
1)	Theoretical Lectures: Internship Presentation Fracture and Fracture Healing Fracture Classification Limb fracture Approach to Multiple Fracture Patient and Pelvis Fractures Pediatric Fractures Dislocations and Complications Osteoarthritis Joint and Ligament Injuries Avascular Necrosis Tenosynovitis Osteoporosis Hand and Upper Extremity Problems Spine Injuries Spinal Deformities Backache Bone Tumors Soft Tissue Tumors Osteochondrosis and Legg-Calve Perthes Disease Practical Training: Reading and evaluating direct radiographs Musculoskeletal System Examination -I Musculoskeletal System Examination -II Ability to Apply Splint, Bandage, Tourniquet Ability to carry the severed limb after trauma properly Polyclinic Surgery Service	There is no preparation-course material.
2)	Theoretical Lectures: Soft Tissue Infections Bone and Joint Infections Crush Injury and Compartment Syndrome Pediatric Foot Problems Cerebral Palsy Developmental Hip Dysplasia Exam Practical Training: Polyclinic Surgery Service	There is no preparation-

**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> <p>Campbell operative orthopedics</p> <p>Rockwood and Green's fractures in adults</p> <p>Rockwood and Green's fractures in children</p> <p>Tachdjian'ın Pediatrik Ortopedisi</p>

**Course - Program Learning Outcome Relationship**

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11
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.											
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
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.											

Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10	11
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.	
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
<b>total</b>		<b>% 100</b>
PERCENTAGE OF SEMESTER WORK		% 35
PERCENTAGE OF FINAL WORK		% 65
<b>total</b>		<b>% 100</b>

### Workload and ECTS Credit Calculation

Activities	Number of Activities	Workload
Course Hours	2	32
Application	2	24
Special Course Internship (Work Placement)	2	32
Presentations / Seminar	2	24
Final	1	8
<b>Total Workload</b>		<b>120</b>