



Document Approval Date	Course Syllabus	Document Code
		AP01-PR05

Department: Clinical Medical sciences

Official Stamp:

Course Identification	
Course Name: Orthopedic surgery	Course Code and Number: MED 534
Number of Credit Hours: 2.25	Semester: First and second 2021/2022
Course Status: Active	Teaching Language: English
Pre-requisite: passing the 4 th year in medicine	Course Coordinator: Dr. Adel Alsharei

General Information	
Teaching Method	<input checked="" type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended
Course Description	<p>This course was set to teach medical students in their 5th year level out of six years the basics and fundamentals of Orthopedic surgery. The course is a full two weeks rotation. Each day in the rotation is designed so as the student is exposed to patients and teachers during the day. (Student-patient, Student-Teacher) time (SPST time)</p> <p>The course has two main pillars, the theoretical pillar which is guided by the clinical necessities and the clinical pillar which strengthen the theoretical information by giving a vivid scenario for it.</p> <p>The theoretical part conveys the information to the students by discussions, lectures and induction of critical thinking and interest using classical and new means of research and communication.</p> <p>The clinical part depends on the direct communication between the student and the patient in the hospital atmosphere under supervision by academic clinical staff. Here the student learns the skills of communication with the patient, patient's family, health personnel and medical filing system. The student learns the way to diagnose cases by approaching the case in the history, examination and Investigation Scheme to reach the differential diagnosis.</p> <p>Both parts are fields of mutual exchange of ideas between the student and his mentor.</p> <p>The students also required to present seminars that cover most of the Orthopedic clinical conditions, these seminars are supervised by the consultants and the students should be actively involved in these clinical discussions, as part of their evaluation is based on these seminars presentation and discussion. The end rotation exam is every two weeks for each group</p>



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Course Objectives	<ol style="list-style-type: none">1. Provide the student with the scientific knowledge in the field of orthopedic Surgery and traumatology.2. Enabling the student to benefit from the knowledge to reach the diagnosis of clinical cases.3. Prepare the student to be a safe doctor that does not miss an emergency case and who can give a safe advice to his patients at the end of the interview.4. Build the correct basis of Orthopedic surgery understanding that an interested student (ortho-to be) could proceed and build up his orthopedics and traumatology future successfully.
Course Learning Outcomes (CLOs)	<p>CLO1: Understand how to get the medical information from trusted scientific sources.</p> <p>CLO2: Communicate skillfully with the patients, colleagues and health personnel.</p> <p>CLO3: Be aware that commitment is part of doctor's personality not just a duty.</p> <p>CLO4: To be familiar with orthopedic and trauma cases in any health care pathway (Emergency room, Outpatient clinic and In-patients).</p> <p>CLO5: Identify orthopedic emergency cases which if missed, could lead to death, disability or increase suffering.</p> <p>CLO6: Learn the skill of reaching proper diagnosis by a differential diagnosis plan, and the skill of prescribing safe treatment strategies and the use of good medical knowledge background in those two skills.</p> <p>CLO7: consider the importance of privacy regarding patient diagnoses.</p> <p>CLO8: Demonstrate sensitivity, ethical behavior, and professionalism with patients.</p> <p>CLO9: consider the importance of recent published articles in literature in modifying our practice</p>



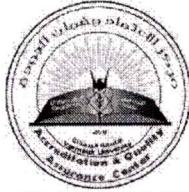
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Mapping Course Learning Outcomes CLOs to Program Learning Outcomes PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14
CLO1	*													
CLO2		*					*							
CLO3		*	*											
CLO4	*						*	*						
CLO5				*										
CLO6				*										*
CLO7						*								
CLO8					*									
CLO9									*	*				

Assessment Methods

Assessment Type	Date and Time	Assessment Method	Mark (%)	CLOs
Midterm Exam	At the end of each two weeks	Mini OSCE	40%	
Evaluation	At the end of each two weeks	Attendance/ Behavior/ clinical sense/ Patient respect/ professionalism	10%	
Activities*	Activity (1)	Interactive seminars		CLO1, CLO2, CLO4, CLO5, CLO6, CLO7
	Activity (2)	Lectures		CLO1, CLO2



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	Activity (4)		Cases base discussion		CLO3,CLO4,CLO5,CLO6,CLO7
Final Exam		To be assigned by the deanship later-on at the end of the year	Computerized written exam MCQs	%50	

Course Contents, Schedule, and Instruction Methods		
Week	Course Content	Instruction Method**
Week 1	Orthopedic diagnosis	Face to face
	Knee Sports injuries	
	Orthopedic emergencies	
	Principles of fractures and management	
	Orthopedic infections and management	
Week 2	Joints Problems (Traumatic, Rheumatic and Degenerative)	Face to face
	Common Orthopedic Pediatric disorders (Hip & foot)	
	Approach to a patient with Low back pain	
	Soft tissues orthopedic Problems	
At the end of year	Final Exam Week	

**Instruction method is as follows:



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Main Textbook and References	
Main Textbook	<ol style="list-style-type: none">Apley's System of Orthopaedics and Fractures, Ninth Edition Louis Solomon, David Warwick, SelvaduraiNayagam August 27, 2010 Reference - 992 Pages ISBN 9780340942055Miller's Review of Orthopaedics, Seventh Edition By Mark D. Miller, MD and Stephen R. Thompson, MD, MEd, FRCS ISBN: 978-0-323-35517-9
Other References	www.Orthobullets.com

Policies and Instructions***	
Attendance	Every day at 9.00 AM
Activities	Two actives for each day includes clinical round and lectures
Exams	Mini OSCE at end of each rotation and final exam at end of the year
Cheating and Plagiarism	Unacceptable and forbidden according to the students handbook



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Department: Clinical Medical Sciences

Official Stamp:

Course Identification	
Course Name: Anesthesia	Course Code and Number: MED 535
Number of Credit Hours: 2.25	Semester: First and second 21/22
Course Status: active	Teaching Language: English
Pre-requisite: passing the 4 th year in medicine	Course Coordinator: Dr.Lou'i Al-Husinat

General Information	
Teaching Method	<input checked="" type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended
Course Description	<p>The Anesthesia Course for undergraduate medical students at Yarmouk University is a Two weeks Course in the department of Clinical medical Sciences / Anesthesia division. It is a separate Minor course for medical students with a 2.25 credit hours weight. Students join this course in their Fifth undergraduate year. In these two weeks, students will be assigned to operating rooms at Ministry of Health hospitals and Royal Medical Service hospitals with the concept that each student will go through different surgical specialties and be familiarized with the different anesthetic care plans. There are 10 seminars that cover the most important topics in anesthesia relevant to undergraduate medical students. During the in-theatre time, student will be introduced to the practice of Anesthesia, familiarized with anesthesia machine, Equipment, drugs, and procedures. Each Operating theatre is covered by an anesthesia team consisting of a consultant anesthetist, an anesthesia resident doctor, and an anesthesia technician.</p>
Course Objectives	<p>This course is aimed to:</p> <ol style="list-style-type: none">1. The medical graduate will be educated about technical aspects of Anesthesia.2. The medical graduate will be aware of the role of Anesthesia as a perioperative medical care specialty.3. The medical graduate will be aware of how anesthesia relates to other specialties in the multidisciplinary care plan of patients.



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Course Learning Outcomes (CLOs)

Successful completion of the course should lead to the following outcomes:

CLO1: Knowledge and Understanding: Student is expected to:

1. Recognize the necessary medical information that relates to the conduct of Anesthesia.
2. Understand how the specialty of anesthesia relates to other medical specialties and the necessity and ways of good communication with them.
3. Be aware of different types of anesthesia available, and their case-matching.
4. Be aware of the pharmacologic knowledge of drugs used during anesthesia.
5. Understand the basic concepts and aspects of intravascular access insertion.

CLO2: Intellectual Analytical and Cognitive Skills: Student is expected to:

1. Be able to integrate his knowledge from patient assessment and anesthetic drugs and procedures for the best safe match of care and creation of a management plan.
2. Be able to provide counseling to patients regarding their anesthetic care.
3. Be able to communicate with other specialties involved in the total care of patients.
4. Be able to apply, read and analyze data from monitoring equipment.

CLO3: Subject- Specific Skills: Students is expected to:

1. Have acquired adequate competency in securing vascular access.
2. Have acquired competency in safe drug preparation and administration.
3. Have acquired adequate competency of airway management skills. .

CLO4 : Transferable Key Skills: Students is expected to:

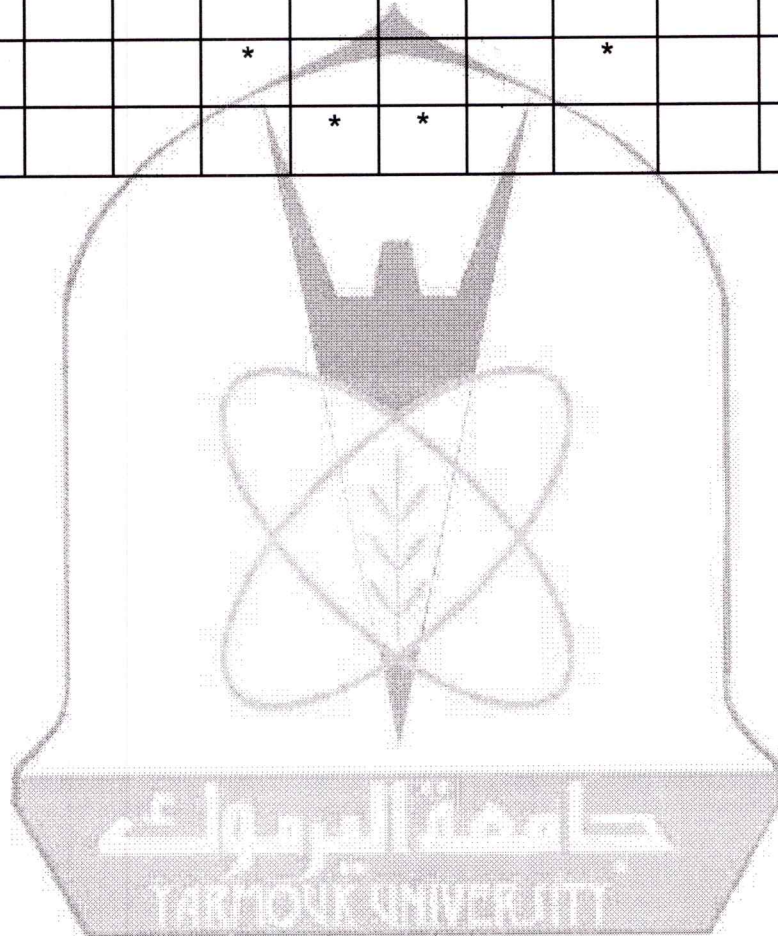
1. Be a good and efficient team member.
2. Be able to assume leadership roles in critical medical conditions.
3. Be able to prioritize management issues in their plan.
4. Be good at verbal and written communication about patients.
5. Be able to deal with technology of monitoring equipment



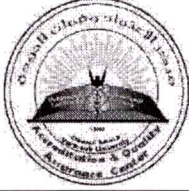
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Mapping Course Learning Outcomes CLOs to Program Learning Outcomes PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14
CLO1	*													*
CLO2		*		*			*					*	*	
CLO3			*			*				*		*		
CLO4	*		*				*	*						*



Assessment Methods



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Assessment Type	Date and Time	Assessment Method	Mark (%)	CLOs
Midterm Exam	At the end of each two weeks	Oral interview	30%	
Evaluation	At the end of each two weeks	Attendance/ Behavior/ clinical sense/ Patient respect/ professionalism	20%	
Activities*	Activity (1)	Interactive seminars		CLO1, CLO2
	Activity (2)	Clinical teaching		CLO1, CLO2, CLO3, CLO4
Final Exam	To be assigned by the deanship later-on at the end of the year	Computerized written exam MCQs	%50	

*The instructor must choose at least three activities from the following: quizzes, assignments, projects, videos, discussions, etc.

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Course Contents, Schedule, and Instruction Methods



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Week	Course Content	Instruction Method**
Week 1	<ol style="list-style-type: none">1. Introduction and preoperative evaluation2. Intravenous anesthetic agents3. Inhalational anesthetic agents4. Muscle relaxants5. Monitoring in Anesthesia	Face to face
Week 2	<ol style="list-style-type: none">1. Intubation and airway anatomy2. Conduct of anesthesia3. Local anesthetic agents4. Spinal and epidural anesthesia5. Fluids therapy & Blood transfusion	Face to face
At the end of year	Final Exam Week	

Main Textbook and References	
Main Textbook	<ul style="list-style-type: none">- Textbook of Anaesthesia: Aitkenhead et al.- Clinical Anesthesiology: G. Edward Morgani jr et al.
Other References	<ul style="list-style-type: none">- Toronto Notes: Anesthesia and Perioperative Medicine chapter.- Pubmed.com website.- UpToDate database.- Seminars and Elearning

Policies and Instructions***	
Attendance	Every day at 9.00 AM
Activities	Two activities for each day includes clinical round and interactive seminar
Exams	Oral interview at end of each rotation and final exam at end of the year
Cheating and Plagiarism	Unacceptable and forbidden according to the students handbook



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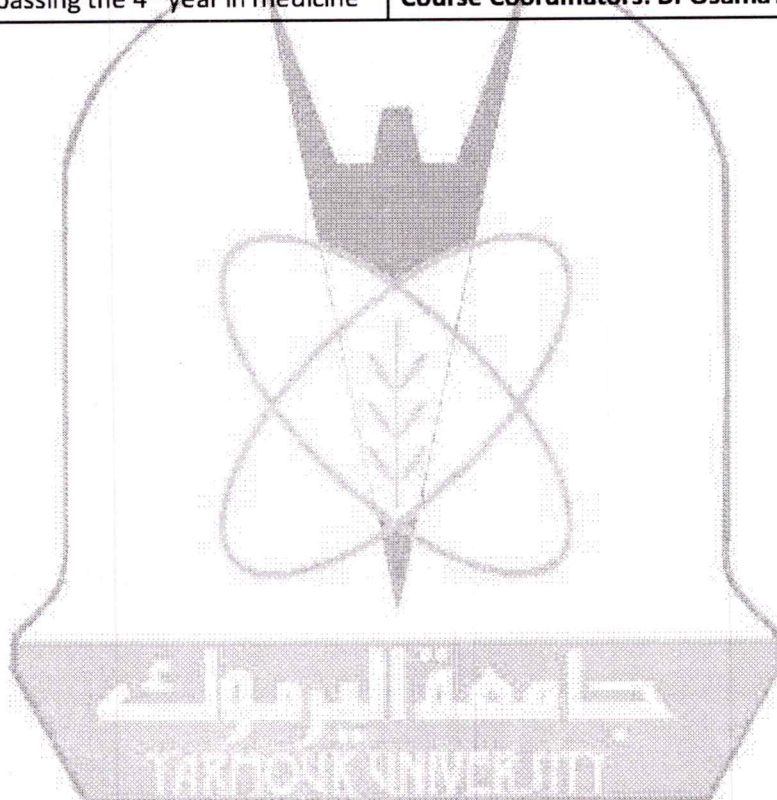


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Department: Clinical Medical sciences, Dermatology
division

Official Stamp:

Course Identification	
Course Name: Clinical Dermatology	Course Code and Number: MED536
Number of Credit Hours: 2.25	Semester: First and second 21/22
Course Status: active	Teaching Language: English
Pre-requisite: passing the 4 th year in medicine	Course Coordinators: Dr Osama Jamal





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General Information	
Teaching Method	<input checked="" type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended
Course Description	<p>This is a student's Neuroscience Undergraduate Curriculum, it is an introductory two weeks clinical rotation offered to fifth year medical students, which describes the skills and objectives that should be achieved as a neurosurgery /neurology student.</p> <p>This curriculum aims to provide the students a comprehensive overview of the specialty of neurology/ neurosurgery. They will gain a better understanding of neurosurgery/neuromedicine as a specialty and learn about patient care they will encounter in general practice, especially as a primary care physician as many outpatient visits include neurosurgery /neuromedicine concerns.</p> <p>The learning priorities for this clinical rotation are to gain insight and understanding of the most common presentations and conditions of the neurosurgery/neurology cases to make the student more competent to recognize these common neurology and neurosurgical conditions through an excellent clinical exposure by joining the highly qualified physicians in their clinic, as well as the senior residents.</p> <p>It is anticipated that all students will have opportunities to enhance their skills in history taking and clinical examination. This will emphasize their recognition of symptoms and signs and formulation of an accurate differential diagnosis which is important to focus on the primary care management of common neurological conditions and to understand when a patient should be referred to secondary care.</p> <p>The students also required to present seminars that cover most of the neurology and neurosurgical clinical conditions, these seminars are supervised by the consultants and the students should be actively involved in these clinical discussions, as part of their evaluation is based on these seminars presentation and discussion. The end rotation exam is every two weeks for each group.</p>
Course Objectives	<ol style="list-style-type: none">1. Gain more clinical knowledge, and better understanding of common neurology and neurosurgical conditions.2. Acquire further learning experience history taking in neurology and neurosurgical and performing proper, specific neurological examination skills.3. Correctly know the investigation of patients with neurology disorders based on a focus neurological exam4. Proper assessment of medical symptoms and signs and apply clinical



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	<p>reasoning to formulate a clear differential diagnosis and management plan.</p> <p>5. Understanding the pharmacological, medical and surgical management of neurological patients.</p> <p>6. Identification the serious neurological diseases requiring urgent intervention</p>
<p>Course Learning Outcomes (CLOs) Upon successful completion of this course students will be able to:</p>	<p>CLO1: Gain more clinical knowledge, and better understanding of common neurology and neurosurgical conditions</p> <p>CLO2: Acquire further learning experience history taking in neurology-neurosurgical and performing proper, specific neurological examination skills .</p> <p>CLO3: Correctly know the investigation of patients with neurological disorders based on a focus neurological exam</p> <p>CLO4: Proper assessment of medical symptoms and signs and apply clinical reasoning to formulate a clear differential diagnosis and management plan.</p> <p>CLO5: Understanding the pharmacological, medical and surgical management of neurological diseases.</p> <p>CLO6: Identification the serious neurological diseases requiring urgent intervention clear differential diagnosis and management plan.</p>



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Mapping Course Learning Outcomes CLOs to Program Learning Outcomes PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14
CLO1	x													
CLO2				x		x								
CLO3					x		x							
CLO4					x		x	x						
CLO5									x					
CLO6				x										x

Assessment Methods

Assessment Type	Date and Time	Assessment Method	Mark (%)	CLOs
Midterm Exam	At the end of each two weeks	Mini OSCE	40%	
Evaluation	At the end of each two weeks	Attendance/ Behavior/ clinical sense and log book adherence / Patient respect/ professionalism	10%	



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Activities*	Activity			
(1)	Interactive seminars			CLO1, CLO2
(2)	Lectures			CLO1, CLO2
(3)	Outpatient clinics			CLO3,CLO4,CLO5,CLO6
(4)	Cases base discussion			CLO3,CLO4,CLO5,CLO6
		Total activities marks		
Final Exam	To be assigned by the deanship later-on at the end of the year	Computerized written exam MCQs	50%	
Total			100%	

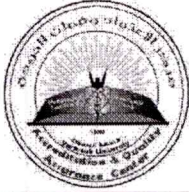
*The instructor must choose at least three activities from the following: quizzes, assignments, projects, videos, discussions, etc.

Course Contents, Schedule, and Instruction Methods		
Day	Course Content	Instruction Method**
Week 1	Orientation and Introduction: history & physical examination Fundamentals of Neuro-Imaging Intracranial hypertension Diagnosis and Management of Ischemic Cerebrovascular Disease.	Face-Face



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Course Contents, Schedule, and Instruction Methods		
Day	Course Content	Instruction Method**
	Neuro-demyelination diseases such as MS. Neurodegenerative disorders. Diagnosis and Management of Head Trauma Diagnosis and Management of Intracranial hemorrhage	
Week 2	Diagnosis and Management of Spinal Cord Injury Diagnosis and Management of Nontraumatic Neck and Back Problems Cranial and spinal CNS anomaly, cranial and spinal disorder in pediatrics and CNS tumors in pediatric age group. Hydrocephalus Spontaneous Subarachnoid hemorrhage Neuro-oncology Headache (principles, types and management). Epilepsy (types and managements). Peripheral neuropathy.	Face-Face



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Course Contents, Schedule, and Instruction Methods		
Day	Course Content	Instruction Method**
At the end of the year	Final exam week	

- **Face-to-Face course:** Face-to-face class

Main Textbook and References	
Main Textbooks	<p>Essential Neurosurgery Andrew H. Kaye</p> <ul style="list-style-type: none">• Publisher: 2005 Andrew Kaye Published by Blackwell Publishing Ltd• Author: Andrew H.Kaye <p>Essential Neurology</p> <ul style="list-style-type: none">• Publisher: <u>John Wiley and Sons Ltd</u> 2010.• Author: <u>Iain Wilkinson</u> , By (author) <u>Graham Lennox</u>
Other References	<p>NEUROLOGY AND NEUROSURGERY ILLUSTRATED Fifth Edition</p> <ul style="list-style-type: none">• Publisher: Elsevier 2010• Author: <u>Kenneth W. Lindsay, PhD, FRCS</u>, <u>Ian Bone, FRCP FACP</u>, <u>Geraint Fuller, MD, FRCP</u>



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Policies and Instructions***	
Attendance	Every day at 9.00 AM
Activities	Two actives for each day includes clinical round and lectures
Exams	Mini OSCE at end of each rotation and final exam at end of the year
Cheating and Plagiarism	Unacceptable and forbidden according to the students handbook

***For more information, please see the student handbook.





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Department: clinical sciences

Official Stamp:

Course Identification	
Course Name: Ophthalmology	Course Code and Number: MED 537
Number of Credit Hours: 2.25	Semester: First 21/22
Course Status:	Teaching Language: English
Pre-requisite:	Course Coordinator: Wedad Al-dolat and Rami Al-Omari

General Information	
Teaching Method	<input checked="" type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended
Course Description	<p>This is a student's Undergraduate Curriculum of Ophthalmology, it is an introductory two weeks clinical rotation offered to fifth year medical students, which describes the skills and objectives that should be achieved as an Ophthalmology student.</p> <p>This curriculum aims to provide the students a comprehensive overview of the specialty of Ophthalmology. They will gain a better understanding of Ophthalmology as a surgical specialty and learn about patient care they will encounter in general practice, especially as a primary care physician as many outpatient visits include concerns of ophthalmology.</p> <p>The learning priorities for this clinical rotation are to gain insight and understanding of the most common presentations and conditions of the ophthalmology cases to make the student more competent to recognize these common conditions of ophthalmology through an excellent clinical exposure by joining the highly qualified Ophthalmologists in their clinic.</p> <p>It is anticipated that all students will have opportunities to enhance their skills in history taking and clinical examination. This will emphasize their recognition of symptoms and signs and formulation of an accurate differential diagnosis which is important to focus on the primary care management of common conditions of ophthalmology and to understand when a patient should be referred to secondary care.</p>

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	<p>The students also required to present seminars that cover most of the eye clinical conditions, these seminars are supervised by the consultants and the students should be actively involved in these clinical discussions, as part of their evaluation is based on these seminars presentation and discussion. The end rotation exam is every two weeks for each group.</p>
Course Objectives	<ol style="list-style-type: none">1. Gain more clinical knowledge, and better understanding of common Ophthalmology conditions.2. Acquire further learning experience in history taking in Ophthalmology and performing proper, specific Ophthalmology examination skills such as examination of eye anterior structures ,doing direct fundoscopy and pupil reaction examination.3. Correctly know the investigation of patients with Eye disorders based on a focus eye exam.4. Proper assessment of medical symptoms and signs and apply clinical reasoning to formulate a clear differential diagnosis and management plan.5. Understanding the pharmacological, medical and surgical management of Eye patients.6. Identification the serious Eye conditions requiring urgent intervention
Course Learning Outcomes (CLOs)	<p>CLO1: Gain more clinical knowledge, and better understanding of common Eye conditions</p> <p>CLO2: Acquire further learning experience in history taking in Ophthalmology and performing proper, specific Ophthalmology examination.</p> <p>CLO3: Correctly know the investigation of patients with Eye disorders.</p> <p>CLO4: Proper assessment of medical symptoms and signs and apply clinical reasoning to formulate a clear differential diagnosis and management plan.</p>



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	<p>CLO5: Understanding the pharmacological, medical and surgical management of Eye patients.</p> <p>CLO6: Identification the serious Eye diseases requiring urgent intervention, clear differential diagnosis and management plan.</p> <p>CLO7: Engage in critical thinking and problem solving.</p> <p>CLO8: Acquire, read, interpret and integrate information from a wide variety of sources in a planned and timely manner.</p>
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Mapping Course Learning Outcomes CLOs to Program Learning Outcomes PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14
CLO1	x													
CLO2	x									x				
CLO3	x									x		x		
CLO4	x	x			x	x	x		x		x			
CLO5			x	x			x				x		x	x
CLO6	x		x	x	x	x			x		x		x	x
CLO7								x	x			x		
CLO8		x					x	x	x			x		



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Assessment Methods				
Assessment Type	Date and Time	Assessment Method	Mark (%)	CLOs
Midterm Exam	At the end of each two weeks	Mini OSCE	30%	
Evaluation	At the end of each two weeks	Attendance/Behavior/Clinical Sense/Patient respect/Professionalism	10%	
Activities*	Activity (1)	Interactive seminars	10%	CLO1,CLO2
	Activity (2)	lectures		CLO1,CLO2
	Activity (3)	Outpatient clinic		CLO3,CLO4,CLO5,CLO6
	Activity (4)	Case base discussion		CLO4,CLO5,CLO6,CLO7,CLO8
	Activity (5)	Case base discussion		
Final Exam	To be assigned by the deanship later on at the end of the year	Computerized written exam MCQs	50%	

*The instructor must choose at least three activities from the following: quizzes, assignments, projects, videos, discussions, etc.



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Course Contents, Schedule, and Instruction Methods		
Week	Course Content	Instruction Method**
Week 1	1. Orientation and Introduction: history & physical examination	Face-face
	2. Eyelid, Orbit and Lacrimal Drainage System 3. Cornea, Sclera and Conjunctiva. 4. Retinal Vascular Diseases, Acquired macular disorders, Vitreous and choroid. 5. Ocular trauma and Chemical Injuries.	Face-face
Week 2	1. Ocular Motility and Strabismus. 2. Neurophthalmology . 3. Lens and Cataract. 4. Ophthalmic Manifestations of Systemic Diseases . 5. Uveitis . 6. Glaucoma	Face- face
	Clinical sessions in the clinics and operation room four times a week.	Face-face
Mid-term mini-OSCE exam		

**Instruction method is as follows:

- **Face-to-Face course:** Face-to-face class

Main Textbook and References	
Main Textbook	1. Lecture Notes Ophthalmology By B James, C Chew and A Bron



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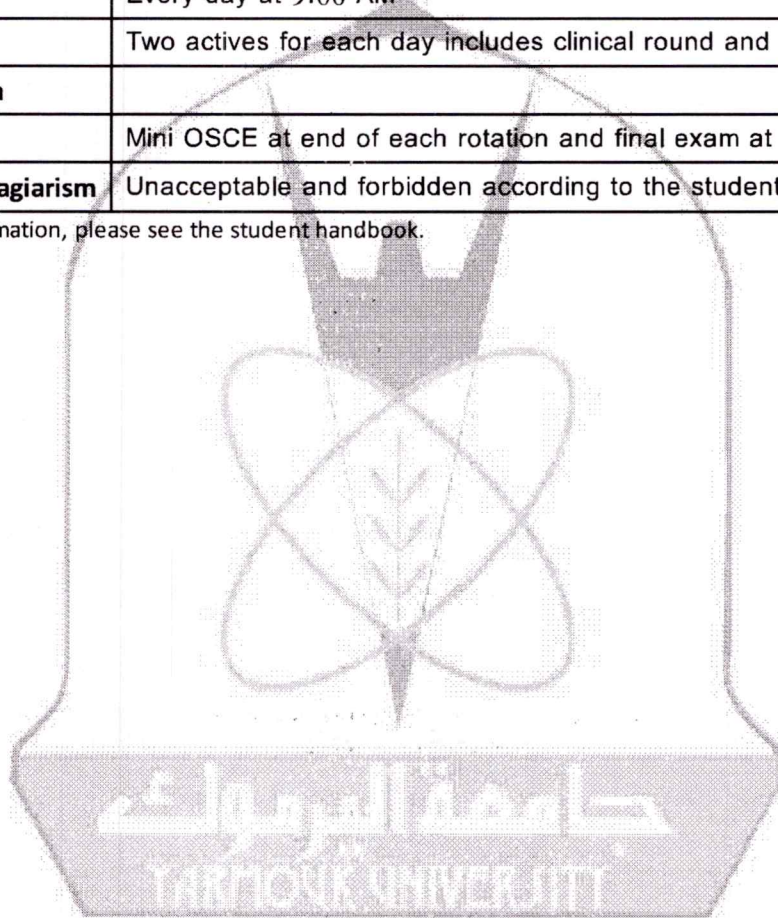


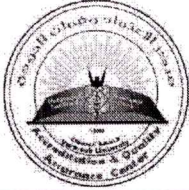
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Other References	<ol style="list-style-type: none">2. Basic Ophthalmology (for medical students and primary care physicians) by Frank Berson, American Academy of Ophthalmology.3. ABC of Eyes A R Elkington, P T Khaw.
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Policies and Instructions***	
Attendance	Every day at 9.00 AM
Activities	Two actives for each day includes clinical round and lectures
Late Submission	
Exams	Mini OSCE at end of each rotation and final exam at end of the year
Cheating and Plagiarism	Unacceptable and forbidden according to the students handbook

***For more information, please see the student handbook.





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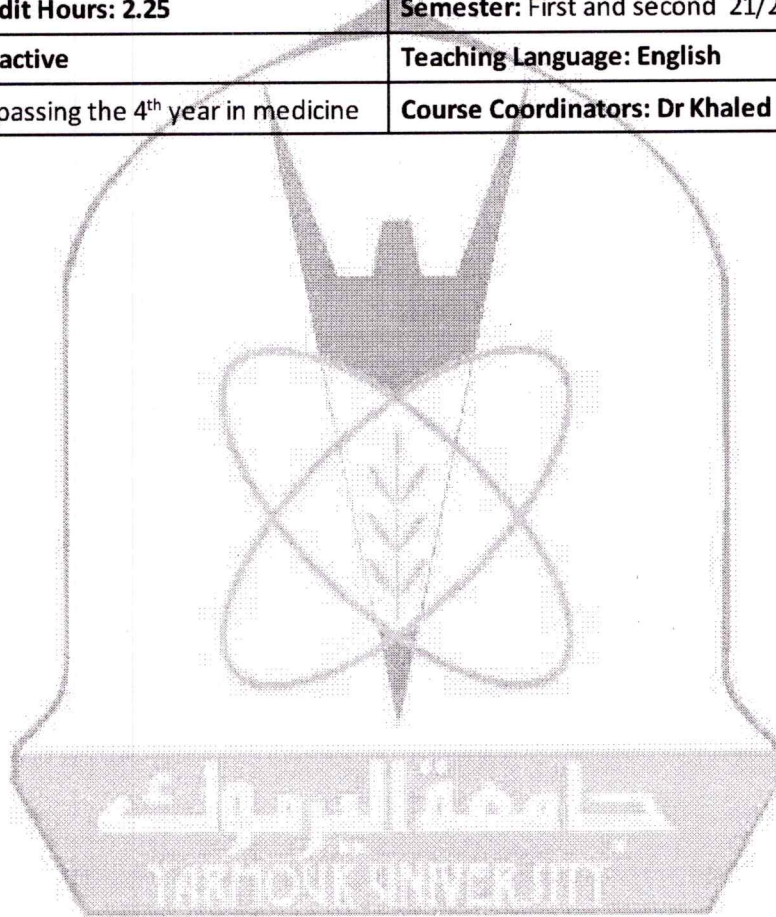


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Department: Clinical Medical sciences, Dermatology
division

Official Stamp:

Course Identification	
Course Name: Clinical Dermatology	Course Code and Number: MED538
Number of Credit Hours: 2.25	Semester: First and second 21/22
Course Status: active	Teaching Language: English
Pre-requisite: passing the 4 th year in medicine	Course Coordinators: Dr Khaled Seetan



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General Information	
Teaching Method	<input checked="" type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended
Course Description	<p>This is a student's clinical dermatology Undergraduate Curriculum, it is an introductory two weeks' clinical rotation offered to fifth year medical students, which describes the skills and objectives that should be achieved as a dermatology student.</p> <p>This curriculum aims to provide the students a comprehensive overview of the specialty of Dermatology. They will gain a better understanding of Dermatology as a medical specialty and learn about patient care they will encounter in general practice, especially as a primary care physician as many outpatient visits include dermatology concerns.</p> <p>The learning priorities for this clinical rotation are to gain insight and understanding of the most common presentations and conditions of the dermatology cases to make the student more competent to recognize these common dermatological conditions through an excellent clinical exposure by joining the highly qualified dermatologists in their clinic.</p> <p>It is anticipated that all students will have opportunities to enhance their skills in history taking and clinical examination. This will emphasize their recognition of symptoms and signs and formulation of an accurate differential diagnosis which is important to focus on the primary care management of common dermatological conditions and to understand when a patient should be referred to secondary care.</p>



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	<p>The students also required to present seminars that cover most of the dermatological clinical conditions, these seminars are supervised by the consultants and the students should be actively involved in these clinical discussions, as part of their evaluation is based on these seminars presentation and discussion. The end rotation exam is every two weeks for each group.</p>
Course Objectives	<ol style="list-style-type: none">1. Students should understand the basic Anatomy, physiology and function of various skin structures, layers and as an Immune organ (skin immune system).2. Students should become able to perform History and dermatological examination using dermatological descriptive terms (primary and secondary lesions).3. Students should become familiar with Bed-side diagnostic tools used in dermatology that can help in narrowing or reaching definitive diagnosis for various Dermatoses.4. Students are expected to recognize clinical presentations, complications, diagnostic workup for common Dermatoses. (See outline and seminar list).5. Students are expected to correctly know basic principles about managing common dermatological disorders. (see outline and seminar list)
Course Learning Outcomes (CLOs) Upon successful completion of this course students will be able to:	<p>CLO1. Demonstrate a sufficient understanding of the structural organization and functions of the following: Anatomy, physiology and function of various skin structures, layers and as an Immune organ.</p> <p>CLO2. Demonstrate a sufficient knowledge of how to take History and do dermatological examination using dermatological descriptive terms.</p> <p>CLO3. Demonstrate the ability to use Bed-side diagnostic tools used in dermatology that can help in narrowing or reaching definitive diagnosis for various Dermatoses.</p> <p>CLO 4. Proper assessment of medical symptoms and signs and apply clinical reasoning to formulate a clear differential diagnosis and management plan</p> <p>CLO5. Identify the common skin disorders and their clinical presentations, complications, diagnostic workup for common Dermatoses.</p>



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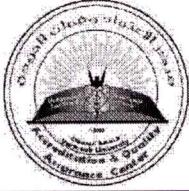


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	<p>CLO6. Demonstrate the knowledge of the basic principles about managing common dermatological disorders including pharmacological, medical and surgical one.</p> <p>CLO7: consider the importance of privacy regarding patient diagnoses.</p> <p>CLO8: Demonstrate sensitivity, ethical behavior, and professionalism with patients.</p> <p>CLO9: consider the importance of recent published articles in literature in modifying our practice</p>
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Mapping Course Learning Outcomes CLOs to Program Learning Outcomes PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14
CLO1	x													
CLO2				x		x								
CLO3					x		x							
CLO4					x		x	x						
CLO5									x					
CLO6				x										x
CLO7						x								
CLO8					x									
CLO9									x	x				



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Assessment Methods				
Assessment Type	Date and Time	Assessment Method	Mark (%)	CLOs
Midterm Exam	At the end of each two weeks	Mini OSCE	40%	
Evaluation	At the end of each two weeks	Attendance/ Behavior/ clinical sense/ Patient respect/ professionalism	10%	
Activities*	Activity (1)	Interactive seminars		CLO1, CLO2
	Activity (2)	Lectures		CLO1, CLO2
	Activity (3)	Outpatient clinics		CLO3,CLO4,CLO5,CLO6,CLO7
	Activity (4)	Cases base discussion		CLO3,CLO4,CLO5,CLO6,CLO7
			Total activities marks	
Final Exam	To be assigned by the deanship later-on at	Computerized written exam MCQs	50%	



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	the end of the year			
Total			100%	

*The instructor must choose at least three activities from the following: quizzes, assignments, projects, videos, discussions, etc.

Course Contents, Schedule, and Instruction Methods		
Day	Course Content	Instruction Method**
Week 1	Introduction to clinical Dermatology: Basic skin structure, Dermatology History and Examination approach to red non scaly rash approach to red scaly rash approach to patient with common skin infections approach to patient with pigmentary disorders	Face-Face
Week 2	approach to patient with generalized itching approach to patient with generalized blistering approach to patient with pigmentary disorders approach to patients with acne and rosacea	Face-Face



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Course Contents, Schedule, and Instruction Methods		
Day	Course Content	Instruction Method**
	approach to patient with hair loss and common nail disorders	
At the end of the year	Final exam week	

- Face-to-Face course: Face-to-face class

Main Textbook and References	
Main Textbooks	<p>Habif's Clinical Dermatology</p> <p>A Color Guide to Diagnosis and Therapy. 7th Edition</p> <p>7th Edition – December 10, 2019</p> <p>Author: James Dinulos</p> <p>Clinical Dermatology 4th Edition</p> <p>by Richard Weller (Author), John A. A. Hunter (Author), John Savin (Author), Mark Dahl (Author)</p>
Other References	<p>Fitzpatrick's Color Atlas AND SYNOPSIS OF CLINICAL DERMATOLOGY,</p> <p>8th Ed 8th Edition by Klaus Wolff (Author), Richard Allen Johnson (Author), Arturo Saavedra (Author), Ellen Roh (Author)</p>



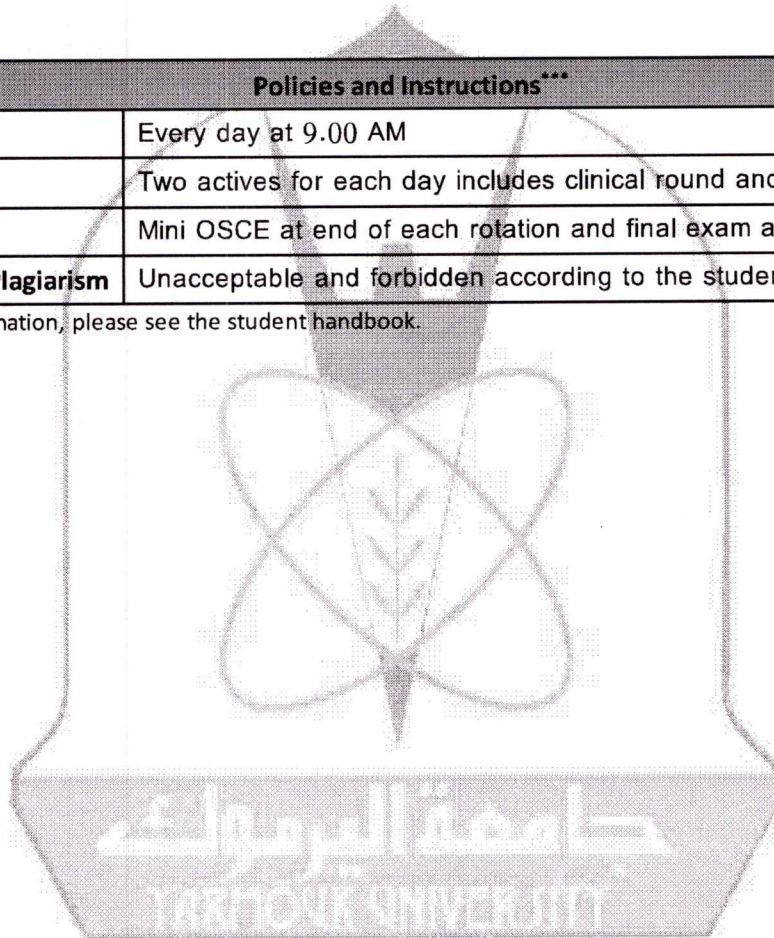
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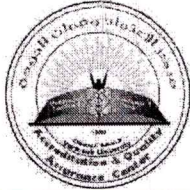
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Policies and Instructions***	
Attendance	Every day at 9.00 AM
Activities	Two actives for each day includes clinical round and lectures
Exams	Mini OSCE at end of each rotation and final exam at end of the year
Cheating and Plagiarism	Unacceptable and forbidden according to the students handbook

***For more information, please see the student handbook.



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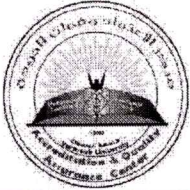
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Department:

Official Stamp:

Course Identification	
Course Name: Radiology	Course Code and Number: MED 539
Number of Credit Hours: 2.25	Semester: First and second 21/22
Course Status: active	Teaching Language: English
Pre-requisite: passing the 4 th year in medicine	Course Coordinator: Dr.Ala' Ibrahim e-mail: Ala.ibrahim@yu.edu.jo

General Information	
Teaching Method	<input checked="" type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended
Course Description	<p>Imaging is an integral component of patient care and provides a unique lens through which to view and understand human anatomy and pathophysiology. At Yarmouk University, we recognize that all medical students require a fundamental knowledge of imaging and the role it plays in diagnosing and managing illness.</p> <p>The Department of Radiology embraces the challenge of continually expanding our approach to imaging education within Yarmouk University/ faculty of Medicine's MBBS degree program. We are actively involved in integrating imaging training into all facets of the MBBS curriculum.</p> <p>Department of Radiology faculty deliver a pathophysiology lecture series that further integrates clinical imaging for pulmonary, gastrointestinal, and nervous system pathology and highlights common imaging presentations for selected pathologic processes into the fifth year MBBS curriculum.</p> <p>This radiology two-week course builds on basic imaging concepts to promote useful interpretive skills. In addition to image interpretation, students learn about general concepts of medical imaging, including imaging appropriateness, use of</p>



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	<p>contrast agents, and radiation dose reduction.</p> <p>With opportunities in multiple imaging subspecialties, this course is designed to maximize both clinical experience and dedicated student teaching.</p> <p>The end rotation exam (Mini-OSCE) is at the end of the two-week course which evaluates students' ability to interpret the common imaging presentations for selected pathologic conditions.</p>
Course Objectives	<ol style="list-style-type: none">1. Gain more clinical knowledge, and better understanding of radiological terminology.2. Acquire further learning experience in interpreting radiological imaging findings and correlating them with the clinical presentation of the patient.3. Correctly know the radiological investigation of choice that can help in diagnosing specific medical condition.4. Proper assessment of medical symptoms and signs and apply clinical reasoning to formulate a clear differential diagnosis and management plan.5. Understanding the indications and contraindications of each imaging modality and the limitations of each one of them.6. An overview of Radiation Hazard and protection.
Course Learning Outcomes (CLOs)	<p>CLO1: demonstrate basic interpretive skills regarding "can't miss" diagnoses commonly encountered during training.</p> <p>CLO2: determine when medical imaging is needed, and what clinical information is relevant when selecting an appropriate imaging test</p> <p>CLO3: incorporate accurate and appropriate imaging terminology into case discussions to facilitate clear communication between physicians</p> <p>CLO4: consider patient safety, including intravenous and oral contrast administration and radiation dose</p> <p>CLO5: compare and contrast various imaging modalities, including</p>



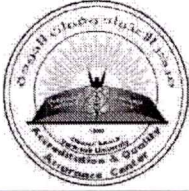
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	<p>technical limitations and cost considerations</p> <p>CLO6: Identification the serious ENT disease requiring urgent intervention clear differential diagnosis and management plan</p> <p>CLO7: consider the importance of privacy regarding patient diagnoses.</p> <p>CLO8: Demonstrate sensitivity, ethical behavior, and professionalism with patients.</p> <p>CLO9: consider the importance of recent published articles in literature in modifying our practice</p>
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Mapping Course Learning Outcomes CLOs to Program Learning Outcomes PLOs

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14
CLO1	*													
CLO2		*					*							
CLO3		*	*											
CLO4	*						*	*						
CLO5				*										
CLO6				*										*
CLO7						*								
CLO8					*									
CLO9									*	*				

Assessment Methods



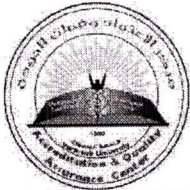
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Assessment Type	Date and Time	Assessment Method	Mark (%)	CLOs
Midterm Exam	At the end of each two weeks	Mini OSCE	40%	
Evaluation	At the end of each two weeks	Attendance/ Behavior/ clinical sense/ Patient respect/ professionalism	10%	
Activities*	Activity (1)	Interactive seminars		CLO1, CLO2
	Activity (2)	Lectures		CLO1, CLO2
	Activity (3)	Hospital round in the radiology department		CLO3,CLO4,CLO5,CLO6,CLO7
	Activity (4)	Cases base discussion		CLO3,CLO4,CLO5,CLO6,CLO7
Final Exam	To be assigned by the deanship later-on at the end of the year	Computerized written exam MCQs	%50	

*The instructor must choose at least three activities from the following: quizzes, assignments, projects, videos, discussions, etc.



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Course Contents, Schedule, and Instruction Methods		
Week	Course Content	Instruction Method**
Week 1	<ol style="list-style-type: none">1. Introduction and modalities of Radiology (with hospital round).2. Contrast media in radiology3. Chest radiology (anatomy & pathology)4. Radiological anatomy of Brain with Introduction to neuroradiology5. Imaging of neurological diseases6. Pediatric radiology	Face to face
Week 2	<ol style="list-style-type: none">1. Musculoskeletal radiology2. Spine Radiology3. Breast imaging4. Urinary tract radiology5. Imaging of the Gastrointestinal tract6. Nuclear Medicine	Face to face
At the end of year	Final Exam Week	

Main Textbook and References	
Main Textbook	<ol style="list-style-type: none">1. Blueprint in radiology, by Alina Uzelac- Ryan Davis.2. Lecture notes in radiology, by Pradip R. Patel
Other References	<ol style="list-style-type: none">1. Imaging Atlas of Human Anatomy (Jamie Weir, Peter Abrahams).

Policies and Instructions***	
Attendance	Every day at 9.00 AM
Activities	Two actives for each day includes clinical round and lectures
Exams	Mini OSCE at end of each rotation and final exam at end of the year
Cheating and Plagiarism	Unacceptable and forbidden according to the students handbook



(نموذج ملف المساق)

مختصر توصيف المساق

اسم المساق: Forensic Medicine	رمز المساق ورقمه: M 540
لغة تدريس المساق: الانجليزية	المتطلب السابق للمساق:
الساعات المعتمدة: 2.25 Credit Hours	مستوى المساق: 5rd year medical students

وصف المساق:

Forensic terminology with emphasis on the understanding of the underlying pathology traumatic and sudden, unexpected deaths encountered.
The course deals with medico-legal investigation of death and injury due to natural causes, accidents, and violence. It covers analysis/investigation of transportation injuries, homicides, suicides due to various causes, and sexual crimes and methods for identification and guidelines for quality control assurance.



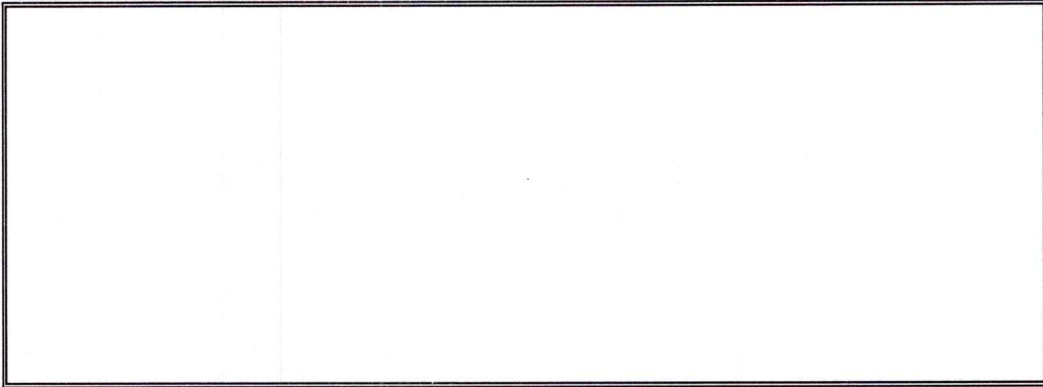
General objectives:

By the end of this course, students are expected to understand:

1. A working knowledge of the principles of medical, scientific and technical evidence-gathering and the presentation of such evidence in the courts of law.
2. Appreciate both the scope and the limitations of medical and scientific investigation in assisting the courts.
3. Give a clear account of the procedures used in death investigation, the role of the Attorney General and the rules governing fatal accident inquiries.
4. Construct, from basic scientific and other factual information supplied concerning a scene of death, a logically argued re-construction of the events leading up to death, indicating what further investigations would be required for a full inquiry of this type.
5. Show a basic knowledge of the professional and ethical considerations governing everyday medical practice.

مخرجات التعلم: (الفهم والمعرفة والمهارات الذهنية والعملية):

يفترض بالطالب بعد دراسته لهذه المساق أن يكون قادرا على:



Methods of instruction:**1. Lectures**

Lectures will address specific topics and try to clarify important concepts.

2. Seminars

Eight seminars in the form of interactive and discussion type of selective topics will be allocated to each group of students.

3. Practical classes

The groups are divided for practical classes in the clinics. The objective is to be familiar with the patterns of injuries assaults and writing medico-legal reports.

4. Postmortem examinations

The students will attend the postmortem examinations conducted by the forensic doctors and understand collection of samples for pathological examinations and samples from body fluids for toxicological analysis.

Weekly teaching activities including:

Seminars, Practical classes and postmortem examinations are distributed as the following:

WEEK (1)

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
<ul style="list-style-type: none"> - Postmortem changes (s) - Sudden Natural Death (s) Dr. Nahd Ahmed	Clinics	Wounds (s) Dr. Ahmad Helaly	Clinics	<ul style="list-style-type: none"> - Abortion and infanticide (s) - Asphyxia (s) Dr. Nahd Ahmed

WEEK (2)

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY





<ul style="list-style-type: none"> - Ethanol (s) - Pesticides (s) <p>Dr. Ahmad Helaly</p>	<p>-Child abuse and sexual offenses (s)</p> <p>Dr. Nahd Ahmed</p>	<p>Clinics</p>		<p>Exam</p>
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Lecture and seminars

Unit	Topic	Specific objectives
<p>Forensic Medicine</p>	<p>1) Postmortem Changes</p>	<ol style="list-style-type: none"> 1. know the methods by which the postmortem interval can be estimated and their limitations. 1. 2. know the way in which the body cools after death, its rate of doing so and the factors which influence this 2. 3. know the nature and significance of hypostasis, cadaveric spasm, rigor mortis, putrefaction, mummification and adipocerosus change and the 3. rates at which these phenomena occur 4. know the nature and significance of postmortem injury.
	<p>2) Sudden Natural Death (SND)</p>	<ol style="list-style-type: none"> 1. know a working approach, the incidence and distribution of SND and recent trends in its occurrence 2. Be able to list the major causes of sudden natural death. 3. Be able to analyse cases of trauma and disease.
	<p>3) Wounds</p>	<ol style="list-style-type: none"> 1. have a clear understanding of the way in which wounds are regarded in law and in medical practice 2. know the definition, mechanism and diagnostic significance of bruises, abrasions, lacerations, incised wounds, stab wounds and fractures and 3. the factors which may modify them 4. know the distinction between bite marks and oral suction marks 5. know the legal significance and medical methods of determining the degree of force used in inflicting an injury <p>FIREARM WOUNDS</p> <ol style="list-style-type: none"> 1. know the basic principles of determination of the range of fire in rifled and smoothbore firearms 2. know the basic distinguishing features of entry and exit firearm wounds. 3. know the basic principles on which determination of accidental, suicidal and homicidal firearm wounding is made.
	<p>4) Asphyxia</p>	<ol style="list-style-type: none"> 1. understand clearly the concept of asphyxia both to lawyers and to medical practitioners, together with its legal significance 2. know the general changes associated with asphyxia and the mechanisms by which they operate. 3. know the main categories of a sphyxial and related deaths and the circumstances which bring them about.
	<p>5) Alcohol- Ethanol</p>	<ol style="list-style-type: none"> 1. know briefly the sources, absorption, metabolism and elimination of ethanol. 2. know the measurement of ethanol consumption in units.





		<ol style="list-style-type: none"> 3. know the effects of ethanol. 4. know the local and some foreign laws concerning drinking & driving. 5. understand the interpretation of clinical findings in relation to alcohol levels. understand the alcohol related causes of death.
	6) Child Abuse and sexual offenses	<p>a. Physical Abuse</p> <ol style="list-style-type: none"> 1. be able to define child abuse 2. have a basic knowledge of the historical recognition of child abuse 3. be able to list the major clinical, radiological and pathological signs, of physical abuse 4. be able to list the major natural conditions which may mimic child abuse 5. be able to state the general strategy for dealing with child abuse <p>b. Sexual Abuse</p> <ol style="list-style-type: none"> 1. be able to define child sexual abuse 2. be able to list the major clinical signs of child sexual abuse 3. be able to describe the investigation of a case of suspected child sexual abuse, including the medical examination and laboratory tests 4. the different types of sexual offenses related to child abuse
	7) Abortion and infanticide	<ol style="list-style-type: none"> 1. Be able to identify the condition of therapeutic abortion and infanticides. 2. Know the local and some foreign laws concerning them. 3. Be able to state the general strategy for dealing with.
	8) Pesticides	<ol style="list-style-type: none"> 1. Understand the concept of pesticides. 2. Know briefly the toxicokinetics (sources, absorption, metabolism and elimination of organophosphate and carbamates. 3. Be able to list the major clinical picture of toxicity. (Organophosphate and carbamates.) 4. Know the management of them. 5. Deferential diagnosis with others pesticides (paraquat, organochlorine, etc)

PRACTICAL





1	Autopsy Procedure & Aims	<p>1. Have a clear understanding of the nature and uses of the autopsy as an investigative method and its applications in legal practice.</p> <p>2. have a clear understanding of the importance of history-taking and scene examination in interpreting the autopsy findings.</p> <p>3. have a clear understanding of the structure and usefulness of a well-written autopsy protocol.</p> <p>4. distinguish clearly between objective observation and expression of opinion.</p> <p>5. have a good working knowledge of the major useful conclusions which can be drawn from an autopsy examination.</p>
2	Brain Death & Organ Transplantation	<p>1. know in simple terms the historical background of concepts of death.</p> <p>2. understand the basic concepts of brain stem death, whole brain death and the vegetative state.</p> <p>3. know the basic ethical considerations underlying the diagnosis of brain stem death.</p>
3	Road Traffic Deaths	<p>1. know the reasons for autopsy of road traffic victims</p> <p>2. know the major patterns of injuries in individuals injured in motor vehicle collisions.</p>
4	Identification of a Single body	<p>1. know and be able to describe the methods used in identification of living, individuals & of corpses including persona characteristics, visual appearance, photography, fingerprinting and DNA profiling, and the limitations of these methods.</p>
5	The Second Autopsy	<p>1. know the major reasons for conducting a second autopsy</p> <p>2. know the principles upon which a second autopsy is conducted</p>



**Evaluation and distribution of marks:**

		EXAM FORMAT	WEIGHT(%)
1	End of rotation exam	Short assays	30%
2	Seminars	Group discussion	15%
3	Evaluation	Attendance & Interaction	5%
4	FINAL EXAM	MCQs	50%

Recommended text book:

Forensic Medicine by Bernard Knight (Bernard knight + Pekka saukko).

Simpsons Forensic Medicine (Richard shepherol).

Review of Forensic Medicine and Toxicology (Gautam Biswas).

Suggested readings:

Internet

الملف الثاني: ملف خدمة الجامعة ويشتمل على: -

1- المناصب الإدارية التي تقلدها عضو هيئة التدريس على مستوى الجامعة/ أو الكلية/ أو القسم.
(يتم تعبئة جدول رقم 1):

جدول رقم 1

الرقم	المنصب الإداري	الجهة المعين بها	فترة اشغال المنصب	أبرز الإنجازات خلال توليه المنصب
.1				
.2				
.3				
.4				

2- الأنشطة والمؤتمرات والندوات والمحاضرات التي نظمها أو شارك فيها عضو هيئة التدريس داخل الجامعة أو خارجها (يتم تعبئة جدول 2):

جدول رقم 2

الرقم	اسم النشاط	تاريخ انعقاده	طبيعة المشاركة	مكان انعقاده	الإبلة
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نوعه				(مراسلات وصور وشهادات مشاركة وغيرها)
1.	مؤتمر كلية الطب الأول لجامعة اليرموك			شهادة حضور
2.	لورة تدريبية عن برنامج الاحصاء SPSS			شهادة حضور
3.	لورة تدريبية عن برنامج الاحصاء AMOS			شهادة حضور
4.				

3- اللجان التي شارك بها عضو هيئة التدريس داخل الجامعة (يتم تعبئة جدول 3):

جدول رقم 3

اسم اللجنة	فترة العضوية	لوره في اللجنة	لبرز الإجازات من خلال عمله في اللجنة	الأدلة (كتب التكليف)
لجنة النشاطات غير الطبية	6 شهور			

الملف الثالث: ملف خدمة المجتمع ويشتمل على:-

1- مؤتمرات وندوات ومحاضرات التي شارك بها عضو هيئة التدريس حول قضايا تخص المجتمع (الأدلة: شهادات الحضور والمشاركة، شهادات الشكر والتقدير، صور من النشاط):
(يتم تعبئة جدول 4):

جدول رقم 4

اسم النشاط	الجهة المنظمة	عنوان النشاط وأهدافه	عدد المشاركين	طبيعة المشاركة	مكان النشاط	الأدلة



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4- اللجان التي شارك بها عضو هيئة التدريس خارج الجامعة (يتم تعبئة جدول 7):

جدول رقم 7

الألمنة (كتب التكليف)	ليبرز الإنجازات من خلال عمله في اللجنة	الجهة ذات العلاقة	نوره في اللجنة	فترة العضوية	اسم اللجنة

Google scholar data

Ahmad M. Helaly

استاذ مساعد الطب الشرعي بجامعة اليرموك

Verified email at yu.edu.jo

علم السموم

TITLE

Effect of chronic usage of tramadol on motor cerebral cortex and testicular tissues of adult male albino rats and the effect of its withdrawal: histological ...

FM Ghoneim, HA Khalaf, AZ Elsamanoudy, AN Helaly

International journal of clinical and experimental pathology 7 (11), 7323

Medical and psychiatric effects of long-term dependence on high dose of tramadol

MA El-Hadidy, AMN Helaly

Substance use & misuse 50 (5), 582-589



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TITLE

Protective effect of chronic caffeine intake on gene expression of brain derived neurotrophic factor signaling and the immunoreactivity of glial fibrillary acidic protein and ...

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Expression of the *Caenorhabditis elegans* aryl hydrocarbon receptor ligand binding domain

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