



Form: Course Syllabus	Form Number	EXC-01-02-02A
	Issue Number and Date	2/3/24/2022/2963 05/12/2022
	Number and Date of Revision or Modification	
	Deans Council Approval Decision Number	265/2024/24/3/2
	The Date of the Deans Council Approval Decision	2024/1/23
	Number of Pages	06

1.	Course Title	Special Surgery - Orthopedics
2.	Course Number	0506504
3.	Credit Hours (Theory, Practical)	4 hours out of 12 special surgery
	Contact Hours (Theory, Practical)	Theory: 28 Lectures Practical: 28 days of clinical training and interactive activities
4.	Prerequisites/ Corequisites	Passing 4 th year exams
5.	Program Title	Doctor of Medicine
6.	Program Code	05
7.	School/ Center	School of Medicine
8.	Department	Special Surgery Department
9.	Course Level	Bachelor
10.	Year of Study and Semester (s)	Fifth year
11.	Program Degree	Bachelor
12.	Other Department(s) Involved in Teaching the Course	Orthopaedic Department at al Basheer Hospital/ The Ministry of Health
13.	Learning Language	English
14.	Learning Types	<input checked="" type="checkbox"/> Face to face learning <input type="checkbox"/> Blended <input type="checkbox"/> Fully online
15.	Online Platforms(s)	<input checked="" type="checkbox"/> Moodle <input type="checkbox"/> Microsoft Teams
16.	Issuing Date	2023
17.	Revision Date	11-5-2025

18. Course Coordinator:

Name: Dr Mohamad Yasin, Associate Professor

Contact hours: Sunday 10-2 pm and Tuesday 1 pm- 3pm

Office number: Ortho clinic

Phone number: 0096265353444 / 2727- 0796952922

Email: myasin@ju.edu.jo

**19. Other Instructors:**

Name: Prof. Freih Abu-Hassan	Contact hours: Monday and Tuesday(1-2)
Office number: Ortho clinic/JUH	Phone number: 065353444/ 2727, Email: freih@ju.edu.jo
Name: Prof. Jihad Alajlouni.	Contact hours: Monday and Thursdays (1-2)
Office number: Ortho clinic/JUH	Phone number: 065353444/ 2727, Email: j.ajlouni@ju.edu.jo
Name: Prof. Omar Samarah	Contact hours: Sundays and Wednesday (12-2)
Office number: Ortho clinic/JUH	Phone number: 065353444/ 2727, Email: o.samarah@ju.edu.jo
Name: Prof. Fadi Alhadidi.	Contact hours: Sunday (12-1) / Tuesday (1-3)
Office number: Ortho clinic/JUH	Phone number: 065353444/ 2727, Email: f.hadidi@ju.edu.jo
Name: Prof. Shaher Elhadidi	Contact hours: Mondays and Wednesdays (10-11)
Office number: Ortho clinic/JUH	Phone number: 065353444/ 2727, Email: s.elhadidi@ju.edu.jo
Name: Prof. Ziad Hawamdeh	Contact hours: Tuesday (12-2)
Office number: Ortho clinic/JUH	Phone number: 065353444/ 2727, Email: z.hawamdeh@ju.edu.jo
Name: Prof. Mohamad Hamdan	Contact hours: Sunday and Tuesday (12-1)
Office number: Ortho clinic/JUH	Phone number: 065353444/ 2727, Email: Moh.Hamdan@ju.edu.jo
Name: Dr. Aws Khanfar.	Contact hours: Monday and Wednesday (2-3)
Office number: Ortho clinic/JUH	Phone number: 065353444/ 2727, Email: A.Khanfar@ju.edu.jo
Name: Dr. Bassem Haddad	Contact hours: Sundays (2-3) and Wednesdays 1-2)
Office number: Ortho clinic/JUH	Phone number: 065353444/ 2727, Email: Bassem.Haddad@ju.edu.jo
Name: Dr. Eyad Bin Tareef	Contact hours: Sunday (10-12)
Office number: Ortho clinic/Albasheer	Phone number: 00962797850507
Name: Dr. Jaser Zbaidi.	Contact hours: Tuesday (10-12)
Office number: Ortho clinic/Albasheer	Phone number: 00962788269977
Name: Dr. Marwan Abu Hashem	Contact hours: Wednesday (10-12)
Office number: Ortho clinic/Albasheer	Phone number: 00962797086268
Name: Dr. Alaa Asha	Contact hours: Thursday (10-12)
Office number: Ortho clinic/Albasheer	Phone number: 00962796430144



20. Course Description:

As stated in the approved study plan.

A- Course Description:

During this four-week rotation within the special surgery course, students will engage in comprehensive learning experiences in Orthopaedics. The curriculum includes both theoretical and clinical learning in Orthopaedic and rehabilitation science, including anatomy, pathology, management and a lot of clinical skills. Students will learn about the basics, etiology, pathogenesis, signs and symptoms of different Orthopaedics and traumatology conditions and be able to integrate the clinical, laboratory and radiological means to reach for the diagnosis of common diseases, in addition to exploring the general principles of medical and surgical treatment including physiotherapy and rehabilitation. The rotation will include daily lectures, seminars and group discussions, clinics, ER visits, Additionally, they will have the opportunity to observe/scrub in surgical procedures in both day case and major theatre settings.

B- Aims:

This course is designed to equip students with the ability to be able to perform a focused history and physical examination of the patient with a musculoskeletal complaint, to be able to identify the basic orthopaedic and trauma signs on regular X-rays, and to be able to diagnose and initially treat orthopaedic emergencies and common Orthopaedic pathologies. And this should follow their understanding of prevalent Musculoskeletal complaints and pathologies in general medical practice

21. Program Intended Learning Outcomes: (To be used in designing the matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program)

PLO's	*National Qualifications Framework Descriptors*		
	Competency (C)	Skills (B)	Knowledge (A)
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



* Choose only one descriptor for each learning outcome of the program, whether knowledge, skill, or competency.

22. Course Intended Learning Outcomes: (Upon completion of the course, the student will be able to achieve the following intended learning outcomes)

Course ILOs #	The learning levels to be achieved						Competencies
	Remember	Understand	Apply	Analyse	Evaluate	Create	
1.	✓	✓					The students will have the knowledge and understanding of the basic musculoskeletal anatomy and physiology as well as the theoretical principles and clinical aspects of Orthopaedics. They will also have a comprehensive knowledge of common disorders affecting musculoskeletal/Orthopaedic system, including its epidemiology, biostatistics, and socioeconomic demographic effects.
2.			✓	✓	✓		Students should be able to conduct a thorough assessments of the musculoskeletal/Orthopaedic system through history-taking, clinical examination including various special tests, and the ability to identify abnormalities. They should also be knowledgeable in how to assess/interpret a normal human gait based on their age and be able to diagnose common gait patterns.
3.			✓	✓	✓	✓	Students should have developed an understanding of



							the basic approach to read an x-ray/CT/MRI of the musculoskeletal system and be able to differentiate the normal and pick up common pathologies and comment on them. They should also exhibit competence in selecting appropriate management modalities for the common Orthopaedic problems faced in the acute, including life threatening conditions and elective settings. Overall, they will develop the capacity to make informed clinical decisions based on a comprehensive understanding of patient history, examination findings, and diagnostic results. This includes considering the broader context of Orthopaedic diseases in decision-making
4.			✓	✓	✓	✓	Students will have enhanced counselling and communication skills to effectively interact with patients, families, and healthcare colleagues regarding Orthopaedic conditions, fostering clear and empathetic communication.
5.			✓	✓	✓	✓	Students will develop the capacity to make informed clinical decisions based on a comprehensive understanding of patient history, examination findings, and diagnostic results in an evidence-based fashion. This includes



							formulating a work scheme for mind mapping where problem identification, data collection, hypothesis formulation and finally problem solving ensue in an ethical manner.
			✓	✓	✓	✓	Students should be able to conduct scientific research under the supervision of their faculty staff. The process typically starts from writing up proposals to formulating a research idea, data collection, writing up methodology, participating in data analysis ending up in manuscript writing and literature review. Submission to peer reviewed journals is also encouraged and trained on during this journey.
			✓	✓	✓	✓	Students will possess the ability to critically evaluate their performance, provide feedback on their learning process, improve and expand their learning experience, engage in the process of setting up their teaching plans and adjust the curricular activities based on their needs.

23. The matrix linking the intended learning outcomes of the course -CLO's with the intended learning outcomes of the program -PLOs:



Program ILOs ILOs of the course	CLO (1)	CLO (2)	CLO (3)	CLO (4)	CLO (5)	CLO (6)	CLO (7)	Descriptors**		
								A	B	C
PLO (1)	✓							✓		
PLO (2)		✓	✓						✓	
PLO (3)				✓						✓
PLO (4)					✓			✓		
PLO (5)									✓	
PLO (6)										✓
PLO (7)							✓	✓		
PLO (8)						✓				✓

*Linking each course learning outcome (CLO) to only one program outcome (PLO) as specified in the course matrix.

**Descriptors are determined according to the program learning outcome (PLO) that was chosen and according to what was specified in the program learning outcomes matrix in clause (21).

24. Topic Outline and Schedule:



Week	Lecture	Topic	Student Learning Outcome (SLO)	Descriptors **	Learning Types (Face to Face/Blended/ Fully Online)	Platform Used	Synchronous / Asynchronous Lecturing	Evaluation Methods	Learning Resources
1	1.1	Introduction to orthopedics	Review of orthopaedic histology Review of long bone components Describe long bone fractures and define fractures mechanisms Comment on X-rays Review of physical examination of musculoskeletal system	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	1.2	Review of upper and lower limb anatomy	Review of the anatomy of the upper limb including bones, joints, muscles and nerves Review of the anatomy of the lower limb including bones, joints, muscles and nerves Review of the anatomy of the pelvis including bones, joints, muscles and nerves Review of the anatomy of the spine including bones, joints, muscles and nerves	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	1.3	Principles of fractures and trauma	Illustrate the approach to multiply injured patients. Revise anatomy of musculoskeletal system. Explain fracture classification for students and establish the importance of soft tissue injuries. Describe fracture shape, site, and deformity and put objectives for treatment.	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	1.4	Bone healing	Identify Types of bone, Bone anatomy, Bone components, Ways of bone formation. Stages of bone healing, Modes of bone healing, Variables that Influence Fracture Healing, Complications of Fracture Healing	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	1.5	Hip Examination	Carry out a thorough hip physical examination according to look, feel, move and special hip tests.	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	1.6	Bone infection & septic arthritis	Definition, Pathophysiology and presentation Most common pathogens Radiological changes Approach of a patient with orthopaedic infection Principles of management Differentiation of acute, subacute and chronic osteomyelitis Approach a patient with septic arthritis Predisposing factors Differentiation between irritable hip and septic hip in children Open fractures grading and approach Septic bursitis: approach TB orthopaedic infections pathophysiology complications and management Principles of analgesic administration	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*



2	1.7	Hand Infection	List common hand infections Identify common organisms causing hand infection Describe common mechanism of hand infections Know general principles of managing hand infections both medically and surgically Describe long-term complications	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	1.8	Hip fractures	List the types and mechanism of different fractures in the hip Differentiate between intertrochanteric, subtrochanteric and femur neck fractures Diagnose hip fractures, clinical & radiological evaluation Identify the principles of management of different types of hip fractures	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	1.9	Fractures in children	Define the differences in the anatomy and the physiology of the growing skeleton Understand the anatomy of the physis in the immature skeleton List different types of growth plate fractures Recognize the difference of treating injuries in the growing skeleton, when not to operate? List the indications for operative treatment in the growing skeleton Understand the different fixation techniques available to treat these injuries	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	2.1	Knee Examination	Carry out a thorough knee physical examination according to look, feel, move and knee special tests system.	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	2.2	Upper Limb fractures I&II	List the types and mechanism of different fractures in upper limb Diagnose upper limb fractures, clinical & radiological evaluation Identify the principles of management of different upper limb fractures	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	2.3	Lower Limb fractures I&II	List the types and mechanism of different fractures in the lower limb Diagnose lower limb fractures, clinical & radiological evaluation Identify the principles of management of different lower limb fractures	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	2.4	Spinal deformities (Scoliosis, Kyphosis, Lordosis)	Discuss the incidence, family history, & the clinical assessment Identify features indicative of progression of different spinal deformities Describe the indications for surgical intervention. Review treatment options, the risks and common complications of both operative and non-operative treatment Identify red flags such as tumors, neural tube abnormalities, connective tissue and muscular disease, and their association with spinal deformity.	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	2.5	Osteoarthritis and Arthroplasty	Describe the pathophysiology of osteoarthritis. Discuss history taking and physical examination of a patient with osteoarthritis. Describe the radiological findings of osteoarthritis. Review the non-surgical options for treatment. Describe the surgical options and know how to discuss these options with the patient and his family.	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*



3	2.6	Shoulder disorders and shoulder exam	To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the following topics: Rotator cuff tears Frozen shoulder Impingement syndrome Calcifying tendinitis Shoulder OA Rotator cuff arthropathy	K S C	Face to face	Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	2.7	Pediatric Hip disorders I&II	<i>Developmental Hip Dysplasia (DDH)</i> Define DDH List different terminology used in DDH Identify the Incidence of DDH Growth & development of the hip Mention the Risk factors for DDH Identify the different Screening Programms for DDH List physical signs in DDH Treatment policies and outcome <i>Perthes disease</i> Define Perthes-leg-calves disease Identify the vascular anatomy of the femoral head List the risk Factors for perthes disease Identify the lateral pillar classification system Treatment policies and outcome <i>Slipped Capital Femoral Epiphysys (SCFE)</i> Define SCFE List the risk Factors for SCFE Mention the physical signs in SCFE Identify classification regarding the stability Radiological signs of SCFE Treatment policies and outcome	K S C	Face to face	Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	3.1	Knee disorders	To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the following topics: Patellar Instability Lateral Patellar Compression Syndrome Idiopathic Chondromalacia Patellae. Quadriceps Tendon Rupture and tendinitis Patella Tendon Rupture and tendinitis Articular Cartilage Defects of Knee Osteonecrosis of the Knee	K S C	Face to face	Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	3.2	Spinal disorders and Low back pain	Spinal canal stenosis, disc prolapse Demonstrate and understand the pathophysiology, pathology, and natural history of common spinal conditions Differentiate clinical picture of different spinal disorders Identify the radiological parameters for diagnosis List appropriate available <i>treatment alternatives</i> , including both non-operative and operative ones	K S C	Face to face	Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	3.3	Peripheral nerve injuries	Identify the anatomy of brachial plexus and peripheral nerves Mention the types of nerve injuries (Neuropraxia to neurotmesis) Assess the ancillary nerve injuries in shoulder dislocations Evaluate the nerve injuries in supracondylar elbow fractures Identify the compression neuropathies (focusing on carpal tunnel syndrome)	K S C	Face to face	Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	3.4	Bone tumors I&II (Benign & Malignant)	Know the history, nature, physical examination, and epidemiology of bone tumors. Describe and x-ray with a bone lesion and	K S C	Face to face	Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance	*



			differentiate aggressive from benign lesion Know the principles of soft tissue tumors and classification. Describe the principles of bone biopsy. Illustrate several examples of the common benign and malignant bone lesions.					Evaluation	
	3.5	Principles of rehab & Ortho-rehab	Students will be able to Identify ethical issues in rehabilitation Identify principles of rehabilitation definitions. Describe principles of rehabilitation team and its members. Describe indication, precautions and contraindications of therapeutic modalities. Describe common rehabilitation protocols in orthopedics including total hip and knee replacement. Definitions and principles of exercises and their prescription. Identify normal and pathological gait	K S C	Face to face	Synchronous Lecturing		Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	3.6	Pediatric foot	Club foot, Congenital vertical talus Amniotic band syndrome, Tarsal coalition Hallux valgus, Polydactyly, Cavus foot Define the difference between congenital & developmental disorders Define the time of appearance of the symptoms of different foot problems Identify the clinical picture of each foot disorder Identify the normal radiological relationship of the foot bones Identify the radiological appearance of different foot disorders Conservative treatments of foot disorders Surgical options of foot disorders Orthotic devices in foot disorders	K S C	Face to face	Synchronous Lecturing		Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	3.7	Hand Conditions	Describe common conditions affecting the hand including entrapment neuropathies, fractures, degenerative, developmental and common tumors in the hand region	K S C	Face to face	Synchronous Lecturing		Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
4	4.1	Sport injuries	To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the following topics: Meniscal Injuries and cysts. Discoid Meniscus. ACL (Anterior Cruciate Ligament) Tear. PCL (Posterior Cruciate Ligament) Tear. MCL & LCL (medial and lateral collaterals) Knee Injuries Posterolateral Corner Injury	K S C	Face to face	Synchronous Lecturing		Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	4.2	Osteomalacia and Osteoporosis	Define the osteoporosis according to WHO Analyze the result of the DEXA scan as the gold investigation It is not a silent disease anymore (sarcopenia and bone tenderness) Males' incidence of osteoporosis is creeping up Assess the fracture risk using the WHO FRAX score	K S C	Face to face	Synchronous Lecturing		Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
	4.3	Hand infections	Assess the human bite injuries & insist admission and exploration List the Kanavel's signs of flexor compartment hand infections Identify Paronychia and pulp space infections and focus on their significance List the risk factors of hand infections including nail biting and manicuring Identify the role of the topical steroids as best treatment for fungal nail infection	K S C	Face to face	Synchronous Lecturing		Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*



4.4	Spinal trauma	Perform a screening clinical examination to assess the presence of a spinal injury Apply ATLS system on spinal injury patient Ability to diagnose spinal injuries in trauma patients Order and interpret appropriate radiographic investigations Recognize radiographic features of instability. Identify those patients who will benefit from operative intervention Describe the indications for surgery. Knowledge of different modalities of treatment of spinal injury patient Appreciate the importance of a multidisciplinary approach in the management of spinal injury patients.	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
4.5	Amputations	Identify different types of amputations and their rehabilitation protocols. Identify general prosthetic prescription guidelines.	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*
4.6	Gait disorders	To know definition of gait cycle, stride and step To know phases and sub phases of gait cycle Identify normal and differentiate it from pathological gait To know the common examples of pathological gait	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Mini OSCE exam Attendance Evaluation	*

** K: Knowledge, S: Skills, C: Competency

* Apley's System of Orthopaedics and Fractures

All lectures and seminars are intended to be face to face, on special occasions and if needed; a blended learning activity with an online platform (teams/zoom) is conducted.

25. Evaluation Methods:



Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	SLOs	Descriptors**	Period (Week)	Platform
Orthopedic OSCE	15	Anatomy & physiology of the Musculo-skeletal system Common Orthopaedic fractures and principles of management Bone healing and common basic orthopedic diseases like osteoporosis Principles of assessing orthopedic imaging Common Orthopaedic pathologies including acquired, developmental, infectious, neoplasia's and degenerative disorders Principles of orthopaedic rehabilitation and gait assessment	1.1-1.9, 2.1-2.7, 3.1-3.7, 4.1-4.6	K S C	At the end of the 4 weeks Ortho rotation	Clinical exam—including case presentation and discussion
Orthopedic mini OSCE	15	Anatomy & physiology of the Musculo-skeletal system Common Orthopaedic fractures and principles of management Bone healing and common basic orthopedic diseases like osteoporosis Principles of assessing orthopedic imaging Common Orthopaedic pathologies including acquired, developmental, infectious, neoplasia's and degenerative disorders Principles of orthopaedic rehabilitation and gait assessment	1.1-1.9, 2.1-2.7, 3.1-3.7, 4.1-4.6	K S C	At the end of the 4 weeks Ortho rotation	Computer-based exam of 20 cases/slides with essay style questions
Evaluation including attendance	20	Anatomy & physiology of the Musculo-skeletal system Common Orthopaedic fractures and principles of management Bone healing and common basic orthopedic diseases like osteoporosis Principles of assessing orthopedic imaging Common Orthopaedic pathologies including acquired, developmental, infectious, neoplasia's and	1.1-1.9, 2.1-2.7, 3.1-3.7, 4.1-4.6	K S C	At the end of the 4 weeks Ortho rotation	-



		degenerative disorders Principles of orthopaedic rehabilitation and gait assessment				
End of year MCQ test as part of sub surgery exam	50	Anatomy & physiology of the Musculo-skeletal system Common Orthopaedic fractures and principles of management Bone healing and common basic orthopedic diseases like osteoporosis Principles of assessing orthopedic imaging Common Orthopaedic pathologies including acquired, developmental, infectious, neoplasia's and degenerative disorders Principles of orthopaedic rehabilitation and gait assessment	1.1-1.9, 2.1-2.7, 3.1- 3.7, 4.1-4.6	K S C	At the end of each academic year (usually in June)	Computer or paper- based exam
** K: Knowledge, S: Skills, C: Competency						

* According to the instructions for granting a Bachelor's degree.

**According to the principles of organizing semester work, tests, examinations, and grades for the bachelor's degree.

Final exam specifications table

(Table is completed on a separate form by course coordinators prior to conduction of each exam according to Accreditation and Quality Assurance Centre procedures and forms)

No. of questions/ cognitive level						No. of questions per CLO	Total exam mark	Total no. of questions	CLO Weight	CLO no.
Create %10	Evaluate %10	analyse %10	Apply %20	Understand %20	Remember %30					
										1
										2
										3



										4
										5

26. Course Requirements:

(e.g.: students should have a computer, internet connection, webcam, account on a specific software/platform...etc.):

- ✓ Class room Lectures
- ✓ Seminar room
- ✓ Internet connection and lecturing tools (Zoom/ Teams. Etc)
- ✓ Outpatient clinics
- ✓ Ortho surgery theatres

Skills lab

27. Course Policies:



A- Attendance policies:

Attendance will be monitored by the course coordinator. Attendance policies will be announced at the beginning of the course.

B- Absences from exams and handing in assignments on time:

Will be managed according to the University of Jordan regulations. Refer to <http://registration.ju.edu.jo/Documents/daleel.pdf>

C- Health and safety procedures:

Faculty Members and students must at all times, conform to Health and Safety rules and procedures.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

As a student in this course (and at this university) you are expected to maintain high degrees of professionalism, commitment to active learning and participation in this course and also integrity in your behavior in and out of the classroom. Students who violate this policy would be subjected to disciplinary action according to University of Jordan disciplinary policies

E- Grading policy:

Grade-point average, Rules are preset by the Faculty and Department Councils

F- Available university services that support achievement in the course:

Availability of comfortable lecture halls, data show, internet service and E learning website <https://elearning.ju.edu.jo/>

28. References:

A- Required book(s), assigned reading and audio-visuals:

Apley's System of Orthopaedics and Fractures, Ninth Edition
Louis Solomon, David Warwick, Selvadurai Nayagam
August 27, 2010
Reference - 992 Pages
ISBN 9780340942055

B- Recommended books, materials, and media:

Miller's Review of Orthopaedics, Seventh Edition By Mark D. Miller, MD and Stephen R. Thompson, MD, MEd, FRCSC
ISBN: 978-0-323-35517-9

29. Additional information:



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Name of course coordinator

Dr Mohamad Samih Yasin

Name of the Head of Department

Dr. Mutasem AlRabi

Name of the Head of Quality Assurance Committee/
Department

Enas Al-Zayadneh

Name of the Head of Quality Assurance Committee/
School

Professor Ayman Wahbeh

Name of the Dean

Professor Ayman Wahbeh

Signature:

Date:

30/6/2025

Signature:

Date:

7/7/2025

Signature:

Date:

10/7/2025

Signature:

Date:

10/7/2025

Signature:

Date:

10/7/2025

