1.	**Course title**	Special surgery - Orthopaedics
2.	**Course number**	0506504
3.	**Credit hours**	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 4th year exams
5.	**Program title**	Doctor of Medicine
6.	**Program code**	N/A
7.	**Awarding institution**	The University of Jordan
8.	**School**	School of Medicine
9.	**Department**	Special Surgery Department
10.	**Course level**	Bachelor
11.	**Year of study and semester (s)**	Fifth year
12.	**Other department (s) involved in teaching the course**	Orthopaedic Department at al Basheer Hospital/ The Ministry of Health
13.	**Main Learning language**	English
14.	**Learning Types**	x☐Face to face learning ☐Blended ☐Fully online
15.	**Online platforms(s)**	☐Moodle x☐Microsoft Teams ☐Skype x☐Zoom ☐ Others
16.	**Issuing/Revision Date**	31/12/2023

17. 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

18. 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: 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. 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. 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. Mohammad AlShareef Contact hours: Wednesday (10-12)
Office number: Ortho clinic/Albasheer Phone number: 00962797086268

19. Course Description and Aims:

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.

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

1. **Demonstrate basic knowledge of normal human structure and function at molecular, genetic, cellular, tissue, organ, system and whole-body levels in terms of growth, development, and health maintenance. Analyze the basic molecular and cellular mechanisms involved in the causation and treatment of human disease and their influence on clinical presentation and therapy.**
2. **Collect, interpret, document, and communicate accurately a comprehensive medical history, including the psychological and behavioral factors, and a thorough organ-system-specific physical examination inclusive of the mental status of the patient.**
3. **Integrate and communicate collected clinical information in the construction of appropriate diagnostic and therapeutic management strategies to identify life-threatening conditions ensuring prompt therapy, referral, and consultation with relevant disciplines and skillfully perform basic medical procedures for general practice on patients with common illness, acute and chronic, taking into account environmental, social, cultural and psychological factors.**

4. **Demonstrate in-depth knowledge of the epidemiology and biostatistics of common diseases, and analyze the impact of ethnicity, culture, socioeconomic factors and other social factors on health, disease and individual patient's health care.**

5. **Communicate effectively and professionally, both orally and in writing, with patients, their families, and with other healthcare providers utilizing information technology resources in his/her scholarly activities and professional development with the ability to teach others, and to understand and respect other healthcare professionals 'roles, and apply the principles of multidisciplinary teamwork dynamics and collaboration.**

6. **Apply scientific methods including evidence –based approach to the medical practice including problem identification, data collection, hypothesis formulation, etc., and apply inductive reasoning to problem solving and ensure that clinical reasoning and decision making are guided by sound ethical principles.**

7. **Demonstrate knowledge of scientific research methods and ethical principles of clinical research and be able to write research proposals or research papers.**

8. **Demonstrate professionally the skills needed for Quality improvement, lifelong learning, and continuous medical education including the ability to identify and address personal strength and weakness, self-assess knowledge and performance, and develop a self-improvement plan.**

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

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.
6. 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.
7. 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.

22. The matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program):

Program ILOs / ILOs of the course	CLO (1)	CLO (2)	CLO (3)	CLO (4)	CLO (5)	CLO (6)	CLO (7)
PLO (1)	✓						
PLO (2)		✓					
PLO (3)			✓				
PLO (4)	✓						
PLO (5)				✓			
PLO (6)					✓		
PLO (7)						✓	
PLO (8)							✓

23. 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	*

	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 ,sub trochanteric 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	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	Osteoarthrosis and Arthroplasty	Describe the pathophysiology of osteoarthrosis. Discuss history taking and physical examination of a patient with osteoarthritis. Describe the radiological findings of osteoarthrosis. 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	*

	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	*Developmental Hip Dysplasia (DDH)* 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 *Perthes disease* 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 *Slipped Capital Femoral Epiphysis (SCFE)* 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	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 *treatment alternatives*, 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 neurotemesis) 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.

24. Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs 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 degenerative disorders Principles of orthopaedic rehabilitation and gait	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	-

		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**						

25. Course Requirements

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

26. Teaching Methods and Assignments:

Development of ILOs is promoted through the following <u>teaching and learning methods</u>:

- ✓ Morning and evening class room/ online lectures
- ✓ Daily Interactive activities and case discussions
- ✓ Daily Outpatient clinics
- ✓ Seminar discussions
- ✓ Daily Observation/ scrub in for Orthopedic surgeries

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/ .

27. 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

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

28. Additional information:

Name of Course Coordinator: **Dr Mohamad Samih Yasin** **Date**: 31/12/2023 **Signature:**

Head of Department: Dr. Mutasem AlRabi **Signature**:

Head of Curriculum Committee/Faculty: Dr Yaser Rayyan **Signature:**

Dean: Dr Yaser Rayyan **Signature**