



# 5<sup>th</sup> Year: **Course specification Orthopaedics** &Trauma surgery (ORT-527)

**Faculty of Medicine Sohag University** 2022 - 2023

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نموذج رقم SP00QF110001 إصدار / تعديل (01) –





# 5<sup>th</sup> Year Course specification:-Orthopaedics & Trauma surgery (ORT-527)

Programme (s) on which the course is given:-	Elements (Major / Minor) of the
Bachelor of Medicine and Surgery (M.B.B.Ch.), (Credit points)	program: <u>Undergraduate</u>
Department offering the program:-	Department offering the course:-
Orthopaedics & Trauma surgery department.	Orthopaedics surgery department.
Academic Year/Level:	Date of Specification approval:-
5 <sup>th</sup> Year	<u>6 /3 2023</u>

### **A- Basic Information**

Title:	Orthopaedics & Trauma surgery				
Code:	ORT-527				
Credit po	oints: 5.5 Case based discussions: 21 hours				
Lectures:	Lectures: 15 hours Clinical/practical training: 21 hours				
<b>Prerequisites:</b> Achieving 75% of points of blocks in the first 5 semesters.					

### **B- Professional Information**

### 1 – Course Objective (Overall Aims):-

- 1. This block aims to provide students with fundamental knowledge and clinical skills that enable him/her to detect, manage and/or refer common and important orthopedics problems.
- 2. By the end of the blocks, the students will be able to take informative history, perform appropriately timed physical examination of patients appropriate to the age, gender, and clinical presentation of the patient while being culturally sensitive, do some clinical procedures and interpret important investigations related to orthopedics problems.

### 2- Competency-Based Medical Education areas:

By the end of the course, the graduate should be able to:

# Competency Area I: The graduate as a health care provider.

The graduate should be able to:

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- 1.1. Take and record a structured, patient centred history.
- 1.2. Adopt an empathic and holistic approach to the patients and their problems.
- 1.3. Assess the mental state of the patient.
- 1.4. Perform appropriately timed full physical examination of patients, appropriate to the age, gender, and clinical presentation of the patient while being culturally sensitive.
- 1.5. Prioritize issues to be addressed in a patient encounter.
- 1.6. Select the appropriate investigations and interpret their results taking into consideration cost/ effectiveness factors.
- 1.7. Recognize and respond to the complexity, uncertainty, and ambiguity inherent in medical practice.
- 1.8. Apply knowledge of the clinical and biomedical sciences relevant to the clinical problem at hand.
- 1.10. Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation.
- 1.11. Perform diagnostic and intervention procedures in a skillful and safe manner, adapting to unanticipated findings or changing clinical circumstances.
- 1.12. Adopt strategies and apply measures that promote patient safety.
- 1.13. Establish patient-centred management plans in partnership with the patient, his/her family and other health professionals as appropriate, using Evidence Based Medicine in management decisions.
- 1.14. Respect patients' rights and involve them and /or their families / carers in management decisions.
- 1.15. Provide the appropriate care in cases of emergency, including cardio-pulmonary resuscitation, immediate life support measures and basic first aid procedures.

## Competency area II: The graduate as a health promoter.

The graduate should be able to:

- 2.5. Describe the principles of disease prevention, and empower communities, specific groups or individuals by raising their awareness and building their capacity.
- 2.6. Recognize the epidemiology of common diseases within his/her community and apply the systematic approaches useful in reducing the incidence and prevalence of those diseases.
- 2.9. Adopt suitable measures for infection control.

### Competency area III: The graduate as a professional.

The graduate should be able to:

- 3.1. Exhibit appropriate professional behaviors and relationships in all aspects of practice, demonstratinghonesty, integrity, commitment, compassion, and respect.
- 3.3. Respect the different cultural beliefs and values in the community they serve.





- 3.4. Treat all patients equally, and avoid stigmatizing any category regardless of their social, cultural, ethnic backgrounds, or their disabilities.
- 3.5. Ensure confidentiality and privacy of patients' information.
- 3.6. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors.
- 3.7. Recognize and manage conflicts of interest.
- 3.8. Refer patients to the appropriate health facility at the appropriate stage;
- 3.9. Identify and report any unprofessional and unethical behaviors or physical or mental conditions related to himself, colleagues or any other person that might jeopardize patients' safety.

# Competency Area IV: The graduate as a scholar and scientist

The graduate should be able to:

- 4.5. Identify various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, degenerative, and traumatic) of illness/disease and explain the ways in which they operate on the body (pathogenesis).
- 4.7. Describe drug actions: therapeutics and pharmacokinetics; side effects and interactions, including multiple treatments, long term conditions and non-prescribed medication; and effects on the population.
- 4.8. Demonstrate basic sciences specific practical skills and procedures relevant to future practice, recognizing their scientific basis, and interpret common diagnostic modalities, including: imaging, electrocardiograms, laboratory assays, pathologic studies, and functional assessment tests.

## Competency area V: The graduate as a member of the health team and part of the health care system.

The graduate should be able to:

- 5.1. Recognize the important role played by other health care professionals in patients' management.
- 5.2. Respect colleagues and other health care professionals and work cooperatively with them, negotiating overlapping and shared responsibilities and engaging in shared decision-making for effective patient Management.
- 5.3. Implement strategies to promote understanding, manage differences, and resolve conflicts in a mannerthat supports collaborative work.
- 5.4. Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system.
- 5.5. Communicate effectively using written health records, electronic medical records, or other digital technology.
- 5.6. Evaluate his/her work and that of others using constructive feedback.





- 5.7. Recognize own personal and professional limits and seek help from colleagues and supervisors when necessary.
- 5.9. Use health informatics to improve the quality of patient care.
- 5.10. Document clinical encounters in an accurate, complete, timely, and accessible manner, in compliance with regulatory and legal requirements.
- 5.12. Demonstrate accountability to patients, society, and the profession.

# Competency Area VI: The graduate as a lifelong learner and researcher.

The graduate should be able to:

- 6.1. Regularly reflect on and assess his/her performance using various performance indicators and information sources.
- 6.2. Develop, implement, monitor, and revise a personal learning plan to enhance professional practice.
- 6.3. Identify opportunities and use various resources for learning.
- 6.4. Engage in inter-professional activities and collaborative learning to continuously improve personal practice and contribute to collective improvements in practice.
- 6.6. Effectively manage learning time and resources and set priorities.
- 6.8. Critically appraise research studies and scientific papers in terms of integrity, reliability, and applicability.
- 6.10. Summarize and present to professional and lay audiences the findings of relevant research and scholarly inquiry.





## 3-Intended Learning outcomes of course

Each competency will be broken down into one or more learning outcomes that may be Knowledge and understanding (K), Skills (practical/clinical) (S) or Attitudes and behavioral (A) or all

NARS	d behavioral (A) or all.  Learning outcomes for	Domain	Teaching	Assessment
Key competencies	eachkey competencies	Know, Know how, Show how, Does	method	method
1.1. Take and record a structured, patient centered history.	S1. Perform a focused history based on all relevant information (including obtaining data from secondary sources) in the following common clinicalproblems:  • Knee problems  • Spine problems  • Peripheral nerve problems  • Hand and tendons injuries  • Fractures of long bones and pelvis  • Emergency management  • Bone tumors  • Bone and joint infections	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
	S2. Document and present the clinical encounter (case) concisely in an oral presentation, as a written document, and entered into an electronic medical record in the following common clinical problems: -Clinical problems Mentioned in S1.	Show how	Skill lab or bed- side Mini - CEX training OSCE Training	Portfolio OSCE ACC





1.2. Adopt an empathic and holistic approach to the patients and their problems.	K1. A1. Address psychological and social factors when assessing patients and developing care plans in any clinical situations.	Know how	Cases	Quizzes Formative written Final written Portfolio
	- Mentioned in S1 &S10  A2. Interact with patients	Show how	Skill lab orbed side Mini - CEX training OSCE training Skill lab orbed side	OSCE ACC  Portfolio OSCE
	showing 7 key tips of empathic and holistic approach:  • Making eye contact  • Let your patient know you're listening  • Be aware of your body language  • Be curious about your patient  • Record details that humanize your patient  • Show support to your patient  • Look deeper for ways to empathize with your patient		Mini - CEX training OSCE training	ACC
	S4. Establish that patients are attentive—eg, by assessing their level of attention while the history is taken or by asking them to immediately repeat 3 words	Show how	Skill lab or bed- side Mini - CEX training OSCE Training	Portfolio OSCE ACC





1.3 Assess the mental state of thepatient.	S5. Perform an assessment of vital signs  S6. Perform a detailed physical examination of all body systems	Show how	Skill lab orbed side Mini - CEX training OSCE Training Skill lab orbed side Mini - CEX training OSCE	Portfolio OSCE ACC  Portfolio OSCE ACC
1.4. Perform appropriately timedfull physical examination 1of	S7. Perform a focused physical examination based on the patient's chief complaint and review of systems in the following common clinical problems: -Mentioned in S1	Show how	Training  Skill lab orbed side  Mini - CEX training OSCE Training	Portfolio OSCE OSPE ACC
patients appropriate to the age, gender, and clinical presentation of the patient while being culturally sensitive.	S8. Detect all significant abnormal findings on physical examination in the following common clinical problems:  • Mentioned in S1 &S7.	Show how	Skill lab orbed side Mini - CEX training OSCE Training	Portfolio OSCE OSPE ACC
	S9. Report findings in notes	Show how	Skill lab orbed side Mini - CEX training OSCE Training	Portfolio OSCE OSPE ACC





1.5. Prioritize issuesto be addressed in a patient encounter.	S10. A3. Identify the cultural concerns and goals of patients and their families for a specific encounter during the interaction with a stable patient presenting with one of the following straightforward problems:  • Lumbar disc prolapse • ACL injury • Knee osteoarthritis • DDH, CTEV	Show how	Skill lab orbed side Mini - CEX training OSCE Training	Portfolio OSCE OSPE ACC
1.6. Select the appropriate investigations and interpret their results taking into	S11. Select common investigations relevant to the findings on history and physical examination in the following common clinical problems:	Know how	Skill lab orbed side Mini - CEX training OSCE	Quizzes Formative written Final written
consideration cost/effectiveness factors.	ntioned in S1 &S10	Show how	Training	Portfolio OSCE OSPE ACC
		Know	Lectures	Quizzes
	K3. Describe the purpose of common diagnostic tests, including blood tests, tests of other body fluids, and basic imaging tests relevant to the following common clinical problems:  • Mentioned in S1, S7, S10			Formative written Final written
	S12. Interpret in a simulated case, the results of the following commonly ordered tests.  • Mentioned in S1, S7,S10	Show how	Skill lab orbed side Mini - CEX training OSCE Training	Portfolio OSCE OSPE ACC





	K4. & S13. Recognize that there is a degree of uncertainty in all clinical decision making.	Know how	Cases	Quizzes Formative written Final written
1.7. Recognize and respond to the complexity, uncertainty, and ambiguity		Show how	Skill lab or bed- side Mini - CEX training OSCE Training	Portfolio OSCE OSPE ACC
inherentin medical practice.	K5. &S14. Identify clinical situations inwhich complexity, uncertainty, and ambiguity may play a role in decision-	Know how	Case Skill lab orbed side	Quizzes Formative written Final written
	making.  • Mentioned in S1	Show how	Mini - CEX training OSCE Training	Portfolio OSCE OSPE ACC
1.8. Apply  knowledge of the clinical and biomedical sciencesrelevant to the clinical problem at hand.	K6. Integrate and apply knowledge of foundational Biomedical and clinical topicstogether with clinical skills todiagnose and address the following common medical problems: Mentioned in S1, S7, S10	Know how	Cases	Quizzes Formative written Final written
	K7. S15. Formulate a broad differential diagnosis for each problem, based on the clinical encounter and	Know how	Lecture Case	Quiezes Formative written Final written
	investigations done to date in a stable patient presenting with one of the following straightforward problems:  • Mentioned in S10	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE OSPE ACC





1.10. Integrate theresults of history, physical and laboratory test findings into a meaningful diagnostic formulation.	K8. S16. Propose a most likely or working diagnosis for each problem based on the clinical encounter and investigations done to date in a stable patient presenting with one of the following straightforward problems:  • Mentioned in K7. S15.	Know Know how	Lecture  Case  Skill lab orbed side Mini - CEX training OSCE training	Quizzes Formative written Final written  Portfolio OSCE OSPE ACC
	K9. S17 Formulate a broad differential diagnosis for each problem, based on the clinical encounter and investigations done to date in an emergency or acute illness patient presenting with one of the following:  • ATLAS • Fracture management • Bone and joint infections	Know Know how	Lecture Case  Skill lab orbed side Mini - CEX training OSCE training	Quizzes Formative written Final written  Portfolio OSCE OSPE ACC
1.11. Perform diagnostic and intervention procedures 2 in a skillful and safe manner, adapting to unanticipated findings or changing clinical	K10. Describe the indications for the following essential medical procedures (diagnostic and intervention), how they are performed, common risks, and follow-up care  • Emergency Procedures  K11. S18.	Know	Lecture	Quizzes Formative written Final written
circumstances.	K11. 518.	Know	Lecture	Quizzes





	Implement plans for care prior to any of the following procedures  • Mentioned in S1			Formative written Final written
	• Wellioned in 31	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE OSPE ACC
	S19. A4. Perform the following essential medical procedures in a supervised or simulated setting • Slabs for fractures	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE OSPE ACC
	S20. Implement plans following the following procedures, including monitoring for post-procedure complications and intervening effectively for major complications that occur.  Assessment of neurovascular bundle	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE OSPE ACC
1.12. Adopt strategies and	K 12. Recognize examples of patient safety incidents (adverse events, error, near misses, preventable adverse event) in the clinical setting  • Mentioned in S1	Know Know how	Lecture Case	Quizzes Formative written Final written





apply measuresthat promote patient safety.	K 13. Differentiate between cases where an adverse event has occurred from those that are due to the underlying medical Illness in the following clinical situation.  • Bone and joint infections	Know how	Case	Quizzes Formative written Final written
	K 14.	Know how	Case	Quizzes
	Demonstrate disclosure of a simple medical error to a patient or family (e.g., inadvertent cancellation of a test), In the following clinical caseas an example Mentioned in S1			Formative written Final written
	K15. Propose an approach to reducing the frequency of medical error in response to a patient safety using an example Mentioned in S1	Know how	Case	Quizzes Formative written Final written
	K16. S21. Formulate a broad differential diagnosis for	Know	Lecture	Quizzes Formative written Final
1.13. Establish	each problem, based on the clinical encounter and	Know how	Case	written
patient-centered management plansin partnership with the patient, his/herfamily and other health	investigations done to date in a stable patient presenting with one of the following straightforward problems:  • Mentioned in S10	Show	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE OSPE ACC







professionals as appropriate, using Evidence Based Medicine in management decisions.	K17. S 22. Establish a therapeutic and management plan with appropriate timelines and follow up in a patient presenting with any of one or more of the following acute illnesses and/or complex problems, Mentioned in S1	Know how Show	Case  Skill lab orbed side Mini - CEX training OSCE training	Quizzes Formative written Final written  Portfolio OSCE OSPE ACC
1.14. Respect patients' rights and involve them and /or their families/careers inmanagement decisions.	A5. Exhibit honesty and integrity with patients, physicians and other health professionals. A6. Demonstrate caring and compassion during all interactions with patients. A7.	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
	Recognize the importance of trusting relationships with patients and others.  A8. Recognize and maintain boundaries when interacting with patients.  A 9. Demonstrate sensitivity with respect to peers, colleagues, and patients.  - As Mentioned in S1 &S10			
	K18. A10. Consistently maintain patient confidentiality in all clinical, social and electronic settings, while recognizing situations that require disclosure of confidential information.	Know how	Case  Skill lab orbed side Mini - CEX training OSCE training	Quizzes Formative written Final written Portfolio OSPE ACC





	K19. Describe the underlying ethical principles and legal process of informed consent	Know how	Case	Quizzes Formative written Final written
	K20. S23.  Describe the process of how to obtain informed consent for a test or treatment procedure	Know how	Case	Quizzes Formative written Final written
		Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
1.15. Provide the appropriate care incases of emergency, including cardiopulmonary resuscitation	K21. Describe the characteristics of an acutely ill patient in terms of findings on history, physical examination and basic laboratory investigations in the	Know Know	Lecture Case	Quizzes Formative written Final written
, immediate life	following clinical situations			
support measures and basic first aid procedures.	• ATLAS  K22. S24.  Recognize when a patient has abnormal vital signs that	Know	Lecture	Quizzes Formative written Final
	requires immediate attention and investigation in the	Know how	Case	written
	following clinical situations  • ATLAS	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE OSPE ACC





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	K23. S25.	Know	Lecture	Quizzes
	Recognize when a patient has			Formative
	a complaint or physical			written Final
	finding that suggests the	Know	Case	written
	possibility of a severe illness			
	(including lifethreatening)			
	and therefore requires immediate attention and	how	C1-:11 1-1-	Portfolio
	investigation in the following		Skill lab orbed side	OSCE
	clinical situations		Mini -	OSPE
	<ul> <li>Mention in K22. S24.</li> </ul>	Show	CEX	ACC
	iviention in 122. 52 ii	Show	training	1100
			OSCE	
			training	
	K24.	Know	Lecture	Quizzes
	Apply the steps taken in the	Kilow	Lecture	Formative
	emergency care of acutely ill			written Final
	patients in the following	Know	Case	written
	clinical situations	TEHOW	Cusc	
	• Mention in K22. S24.			
		how		
	K25. S26.	Know	Lecture	Quizzes
	Identify potential underlying			Formative
	causes of a patient's	Know	Case	written Final
	deterioration in the following clinical situations			written
	<ul> <li>Mention in K22. S24.</li> </ul>	how	~1 ·11 1 1	Portfolio
	• Wiendon in K22. 324.		Skill lab	OSCE
		~1 1	orbed side	OSPE
		Show how	Mini - CEX	ACC
			training	
			OSCE	
			training	
	S27	Show how	Skill lab	Portfolio
	Start the initial emergency	Show how	orbed side	OSCE
	care plan for a patient with			ACC
	the following		Mini -	
	·		CEX	
	1:0 .1		training	
	common life- threatening		OSCE	
	conditions 1: VO 617		training	
	• Mentioned in K9, S17			



#### **Sohag University**



2.5 Describe the principles of disease	K26 Apply preventive measures for the following health	Know	Lecture	Quizzes Formative written Final
prevention, and empower communities,	problems:  • Joint osteoarthritis	Know	Case	written
specific groups or individuals by raising their awareness and building their capacity.	Lumbar Disc Disease	how		
2.6 Recognize the epidemiology of common diseases within his/her	- K27 Apply methods reducing the incidence and prevalence of	Know	Lecture	Quizzes Formative written Final written
community, and apply the	following common diseasesMention in K26.	Know how	Case	WILLER
systematic approaches useful in reducing the	- K28 Identify and apply screening tests appropriate at different	Know	Lecture	Quizzes Formative written Final
incidence and prevalence of thosediseases.	life stages	Know	Case	written
thosediseases.		how		
	K28. S28 Apply principles of patient safety related to infection	Know	Lecture	Quiezes Formative written Final
	prevention and control practices in the following	Know how	Case	written
	situations  • Bone and joint infections	Show how	Skill lab orbed side Mini -	Portfolio OSCE OSPE
2.9 Adopt suitablemeasures for infection			CEX training OSCE	ACC
control.			training	





	K2, S29. Demonstrate the procedures involved in universal body substance precautions, including handwashing, and	Know how	Lecture Case	Quizzes Formative written Final written
	donning and doffing of gowns, gloves, masks, and eye protection	Show how	Skill lab orbed side Mini - CEX training	Portfolio OSCE OSPE ACC
			OSCE training	
	K30. S30. Apply principles of infection control when dealing with a patient who	Know how	Lecture Case	Quizzes Formative written Final written
	may have a communicable Disease	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
3.1. Exhibit appropriate professional behaviors and relationships in	- K31. A11.  Demonstrate the ability to give feedback to colleagues in a respectful manner.	Know how	Case	Quizzes Formative written Final written
all aspects of practice, demonstrating honesty, integrity, commitment, compassion, and respect.		Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
3.3. Respect the different cultural beliefs and values in the community they serve.	-K32. A12. Demonstrate the application of patient autonomy and respect for persons in specific case situations	Show	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC





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3.4. Treat all patients equally, and avoid stigmatizing any category regardless of their social, cultural, ethnic backgrounds, or	- K33. A13. Identify medicolegal principles that obligate physician to Treat all patients equally,	Know Know how	Lecture  Case  Skill lab orbed side Mini - CEX training OSCE	Quizzes Formative written Final written  Portfolio OSCE ACC
their disabilities.	- A14. Demonstrate in clinical encounters avoiding stigmatizing any category	Show how	training Skill lab orbed side Mini - CEX training	Portfolio OSCE ACC
	regardless of their social, cultural, ethnic backgrounds, or their disabilities.		OSCE training	
	- K34. A15. Avoid disclosing confidential patient information in online communications.	Know how	Case	Quizzes Formative written Final written
		Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
3.5. Ensure confidentiality and privacy of	- K35. A16. Explain the potential abuses of technology-enabled communication and their relationship to	Know how	Case	Quizzes Formative written Final written
patients' information.	professionalism.	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC





	- K36. A17 Follow relevant policies regarding the appropriate use of electronic medical Records	Know how	Case	Quizzes Formative written Final written
		Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE OSPE ACC
3.6. Recognize basics of medico-legal aspects of	- K37. A18. Apply basics of medico legal practices in common clinical situations including:  • Mentioned in K7. S15.	Know how	Case	Quizzes Formative written Final written
practice, malpractice and avoid common medical errors.		Show how	Skill lab orbed side Mini - CEX training	Portfolio OSCE ACC
			OSCE training	
	- K38. A19.  Demonstrate how to avoid common medical errors in the following common clinical situations:	Know how	Case	Quizzes Formative written Final written
	Mentioned in K7. S15.	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC





	- K39, S31, A20	Know how	Case	Quizzes
3.7. Recognize	Demonstrate the capacity to reflect on their own competencies and identify situations where one requires	Timow now	Cusc	Formative written Final written
and manage conflicts of interest.	help	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
3.7. Recognize	- K40. S32 Demonstrate the capacity to identify situations where cognitive biases may have affected their patient	Know how	Case	Quizzes Formative written Final written
and manage conflicts of interest.	management	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
	K41	Know how	Case	Quizzes Formative
	Describe the nature of clinical expertise and of its			written
3.8. Refer patients	limits	**		Final written
to appropriate health facility at theappropriate	K42., S33 Recognize the range of possible transitions a patient	Know	Lecture	Quizzes Formative written Final
stage.	may encounter (e.g., hospital to home, hospital to long	Know how	Case	written
	term care facility, emergency department to ward in the	Show how	Skill lab orbed side	Portfolio OSCE
	following clinical settingsexamples		Mini - CEX	ACC
	Mentioned in K7. S15.		training OSCE	
			training	
	- K43. List indications of admissionto hospital in the	Know	Lecture	Quizzes Formative written Final
	following clinical situations  • Mentioned in K7. S15.	Know how	Case	written





	<ul> <li>K44.</li> <li>List criteria of home discharge in the following clinical situations</li> <li>Mentioned in K7. S15.</li> </ul>	Know how	Lecture Case	Quizzes Formative written Final written
	- K45. List the elements of a high quality written "handover of care" Document in the following clinical settings examples Mention in S1	Know Know	Lecture Case	Quizzes Formative written Final written
	- K46. A21. List the elements of a high- quality verbal and written handover of care in the following clinical settings	Know how	Lecture Case	Quizzes Formative written Final written
	examples Mention in S1	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
3.9. Identify and report any unprofessional andunethical behaviorsor physical or mental conditions related to himself	- K47. A22. Participate in peer assessment	Know how Show how	Case Skill lab orbed side	Quizzes Formative written Final written  Portfolio OSCE
to himself, colleagues or any other person that might jeopardize patients' safety			Mini - CEX training OSCE training	OSPE ACC
4.5 Identify various causes (genetic,	- K48.	Know	Lecture	Quizzes



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developmental,	Identify various causes			Formative
metabolic, toxic,	(genetic, developmental,			written Final
microbiologic,	metabolic, toxic,	Know how	Case	written
autoimmune,	microbiologic, autoimmune,			
neoplastic,	neoplastic, degenerative, and			
degenerative, and	traumatic) of the following			
traumatic) of	diseases mentioned in			
illness/disease	S1			
and explain the	S10,			
ways inwhich	A3K7,			
they operate	S15			
on the body				
(pathogenesis				
(pathogenesis				
5.2 Pagnast	17.40 4.22	77 1	C	Onizzoa
5.2 Respect colleagues and	- K49. A23.	Know how	Case	Quizzes Formative
other health care	Demonstrate respect and			written Final
	cooperation with all health		G1 '11 1 1	written
professionals and work	care providers in the	G1 1	Skill lab	Portfolio
	following clinical	Show how	orbed side	OSCE
cooperatively	settings mentioned in		Mini -	OSPE
with them,	• S1		CEX	ACC
negotiating	• S10, A3		training	ACC
overlapping and	• K7, S15		OSCE	
shared	,		training	
responsibilities				
andengaging in				
shared decision-				
making for				
effective				
patient				
management.				
	-K50.	Know how	Case	Quizzes
	Identify clinical			Formative
	scenariosthat are likely to			written Final
	lead to conflict			written
5 0 X 1	- K51.			
5.3 Implement	Describe the root causes of			
strategies to	conflict in inter- professional			
promote	teams			
understanding,	- K52.			
manage	Describe approaches to			
differences, and	conflict resolution			
resolve conflicts				
		1	I	





in a manner that supports collaborative work.	- K53. A24. Recognize one's own approach to conflict - K54., A25 Demonstrate the capacity to	Know how	Case Skill lab orbed side	Quizzes Formative written Final written Portfolio OSCE
	resolve conflicts that occur with colleagues related to		Mini - CEX training	OSPE ACC
	issues such as prioritization of duties		OSCE training	
5.4 Apply leadership skills toenhance team functioning, the learning environment, and/or the health care delivery system.	- K55., A26 Identify aspects of their own leadership style(s) (including, strengths, weaknesses, and biases K56., A27. Participate in reflective processes to inform their personal leadership development K57., A28. Appreciate that leadership is not demonstrated only by leaders but that all physicians will be required to demonstrate "leadership" in the course of their careers K58., A29. Reflect on motivations, capabilities, skills, boundaries, and purpose as a leader. K59., A30. Demonstrate teamwork and collaboration STYLES in the healthcare setting and participate in team-building and collaboration exercises.	Know how	Skill lab orbed side Mini - CEX training OSCE training	Quizzes Formative written Final written Portfolio OSCE ACC





	T	T	C1 '11 1 1	D (C1)
5.5 Communicate effectively using awritten health record, electronic medical record, orother digital technology.	- A31., S34. Communicate effectively with patients - A32. Communicate with colleagues - A33. S35. Communicate in breaking bad news A34. Communicate with relatives - A35. Communicate with disabled people A36.	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
	Communicate in seeking informed consent - S36., A37 Communicate in writing (including medical records) S37. A38. Communicate in dealing with Aggression			
5.6 Evaluate his/herwork and that of others using constructive feedback	A39. Consistently seek out and welcome feedback from others A40. Accept constructive feedback. A41., S38 Demonstrate the capacity to reflect upon feedback and use this as a basis for enhanced learning of relevant petencies. A42., S39. Provide constructive feedback to colleagues about aspects of their clinical competence when requested to do so.	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC





5.7 Recognize own personal and professional limits and seek help from colleagues and supervisors when necessary.	K60., S40. Shows how to refer to other professionals in the following clinical situations: Mentioned in S1  K61., S41. Shows how to seek further support and advice in the following clinical situationsmentioned in  K60. S40.	Sho w how	Case  Skill lab orbed side Mini - CEX training OSCE training	Quizzes Formative written Final written Portfolio OSCE ACC
5.9 Use health informatics to improve the quality of patient care.	S42. Use information and communication technologies to enhance knowledge, skills and judgment in providing evidence-informed, safe,	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE OSPE ACC
	effective and efficient patient care.			
	S43. Gather relevant data from a variety of sources, including literature, webbased resources, electronic health records and databases.	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE OSPE ACC
	K71. S49. K62., S44. Critically assess the reliability, quality and comprehensiveness of all data used to inform health care Decisions.	Know how	Case  Skill lab orbed side Mini -	Quizzes Formative written Final written  Portfolio OSCE
			CEX training OSCE training	OSPE ACC





5.10 Document clinical encounters in an accurate, complete, timely, and accessible manner, in compliance with regulatory and legalrequirements.	- K63. S45. Write medical record in the following clinical situations mentioned in:  S1 S10, A3 K7, S15	Know how	Skill lab orbed side Mini - CEX training OSCE training	Quizzes Formative written Final written Portfolio OSCE OSPE ACC
5.12 Demonstrate accountability to patients, society, and the profession.	S46., A43. Reflect on examples from their clinical rotations and acknowledge that near misses, adverse events, and patient safety incidents (PSIs) will occur.	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
6.1 Regularly reflect on and assess his/her performance using various performance indicators and information sources.	S47., A44. Reflect on experiences in the preclinical setting to identify areas requiring improvement a modify behavior.  S48., A45. Reflect on experiences in the clinical setting to identify	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
	areas requiring improvement and modify behavior by use of ethical frameworks. S49., A46. Evaluate teachers and programs in an honest, fair, and constructive manner.			
	K64. Use portfolio as a tool to develop and monitor a learning plan.	Know	lecture	Quizzes Formative written Final written





6.2 Develop, implement, monitor, and revisea personal learningplan to enhance professional practice	S50., A47. Reflect on achievement of the required competencies. S51., A48. Use portfolio to improve self-awareness to enhance performance.  A49. Demonstrate appropriate use and enhancement of resilience	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
practice	skills.  S52, A50  Demonstrate the connection between self-care and patient safety.			
6.3 Identify opportunities anduse various resources for learning.	Use various resources of learning including LMS.  S54., A51. Contribute to a positive atmosphere in the classroom and in clinical learning settings by demonstrating the following behaviors:  Participating enthusiastically as a learner Providing encouragement to Colleagues	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE OSPE ACC
	Refraining from belittling colleagues' efforts			





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6.4 Engage in	K65. Identify the various different collaborators they will work within the clinical environment to provide patient care.	Know how	Case	Quizzes Formative written Final written
inter-professional activities and collaborative learning to	K66., A52. Demonstrate a general understanding of the roles and responsibilities of	Know how	Case	Quizzes Formative written Final written
continuously improve personal practice and contribute to collective improvements in practice.	collaborators in the clinical environment.	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
	S55. Participate in interprofessional activities.	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
	K67. Describe the concepts of the declared, taught, learned, and hidden Curriculum.	Know how	Lecture	Quizzes Formative written Final written
	K68.	Know	Lecture	Quizzes
6.6 Effectively manage learning	Describe factors that can positively or negatively affect the learning environment.	Know how	Case	Formative written Final written
time and resourcesand set priorities.	K69., S56., A53 Develop a systematic approach to learning and a	Know Know	Lecture Case	Quizzes Formative written Final
	time management strategy.	howShow	Skill lab orbed side	written Portfolio OSCE
		how	Mini - CEX	OSPE ACC
			training OSCE training	





	S57., A54. Access supports available to students to deal with stress and the health issues that are common in medical school.	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE OSPE ACC
	K70. a Describe strategies for reporting and managing witnessed or Experienced mistreatment.	Know how	Lecture Case	Quizzes Formative written Final written
6.8 Critically appraise research studies and scientific papers interms of integrity, reliability, and applicability.	S58. Select appropriate sources of knowledge as they relate to addressing focused questions. Identify appropriate sources that answer a clinical question.	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
6.10 Summarize and present to professional and layaudiences the findings of	S59. A55 Plan and deliver an effective presentation.	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC
findings of relevant research and scholarly inquiry.	S60., A56. Explain to patients and families in general terms the results of research studies and their application to clinical issues.	Show how	Skill lab orbed side Mini - CEX training OSCE training	Portfolio OSCE ACC





# 4-Structure of the Course:-

Week	Lectures (list number)	Practical (list number)	PORTFOLI OTASKS (NUMBER)	CASE BASED Discussions (NUMBER)	Formative Assessment (NUMBER)	Revisions and Exams	Total
1 <sup>st</sup>	1	1.5	2	1.5			
2 <sup>nd</sup>	1	1.5	2	1.5	1		
3 <sup>rd</sup>	1	1.5	2	1.5			
4 <sup>th</sup>	1	1.5	2	1.5	1		
5 <sup>th</sup>	1	1.5	2	1.5			
6 <sup>th</sup>	1	1.5	2	1.5	1		
7 <sup>th</sup>	1	1.5	2	1.5			
8 <sup>th</sup>	1	1.5	2	1.5	1		
9th	1	1.5	2	1.5			
10 <sup>th</sup>	1	1.5	2	1.5	1		
11 <sup>th</sup>	1	1.5	2	1.5			
12 <sup>th</sup>	1	1.5	2	1.5	1		
13 <sup>th</sup>	1	1.5	2	1.5			
14 <sup>th</sup>	1	1.5	2	1.5	1		

As regard lecture, practical and case based discussion, Number = contact hours





## 5- Course content:-

**Lecture Topics and Their Intended Learning Outcomes** (Choose one source for each tonic)

		Choose one source	l .	<i>jic)</i>	l		
То	Learning	Lectures Titles	Specified reference	Week	Dat	te	Contact
Topics	outcomes K		(Kaplan Chapter)		from	to	Hours
ABCs	K1-12, K14- 25, K27,K29-70	Introduction to trauma in Orthopedics	SR-2	1 <sup>st</sup>			1
Orthopedic emergencies	K1-12, K14- 25,K27,K29 -70	<ul> <li>Compartment syndrome</li> <li>Open fractures</li> <li>Dislocations ( shoulder, Hip,and elbow)</li> </ul>	SR-2	2nd			1
Upper Limb trauma	K1-12, K14- 25, K27,K29-70	<ul> <li>Shoulder injuries         <ul> <li>/ Fractures /</li> </ul> </li> <li>Arm Injuries /             fractures</li> <li>Elbow injuries /             fractures /</li> <li>Forearm injuries /             fractures</li> </ul>	SR-2	3rd			1





Lower Limb trauma	K1-12, K14- 25, K27, K29-70	Femoral fractures (fracture neck of femur – trochanteric fractures – subtrochanteric fractures – Supracondylar fracture)  Tibial fractures (tibial plateau fracture)/ankle & foot fractures	SR-2	4 <sup>th</sup> and 5 <sup>th</sup>		2
Hip dislocation and pelvic fractures	K1-12, K14- 25, K27, K29-70	Hip dislocation     Pelvic fractures	SR-2	6 <sup>th</sup>		1
Traumatic spinal cordinjuries	K1-12, K14- 25, K27,K29-70	Traumatic spinal injuries and spinal cord injuries	SR-2	<b>7</b> <sup>th</sup>		1
Low Back Pain	K1-12, K14- 27, K29-70	Lumbar disc prolapse, Potts disease and related pathologies	SR-2	8 <sup>th</sup>		1
Sport Knee Injuries	K1-12, K14- 25, K27,K29-70	<ul><li>Meniscus injuries</li><li>Ligamentous</li></ul>	SR-2	$9^{^{ ext{th}}}$		1
Bone Infections	K1-25, K27- 70	<ul> <li>Osteomyelitis –         pyogenic arthritis</li> <li>Pott`s disease of         the spine</li> </ul>	SR-2 + Orthobullet website	10 <sup>th</sup>		1
Metabolic and degenerative arthritis	K1-12, K14- K27, K29- 70	<ul><li>Osteoarthritis</li><li>Rheumatoid arthritis</li><li>Gouty arthritis</li></ul>	IM-2	11th		1





CommonHand problems and Obstetric brachial plexusinjury	K1-12, K14- 25, K27, K29-70	<ul> <li>Carpal tunnel syndrome</li> <li>Common tendon injuries</li> <li>Associated pathology</li> <li>Brachial plexus surgical anatomy</li> <li>Obstetric brachial plexus injury</li> </ul>	SR-2	12th		1
Bone tumors	K1-12, K14- 25, K27,K29-70	<ul><li>Benign bone tumors</li><li>Malignant bone tumors</li></ul>	SR-2	13th		1
Pediatric orthopedic conditions	K1-12, K14- 25, K27,K29-70	<ul> <li>Congenital         Talipes         Equinovarus</li> <li>Developmental         Dislocated Hip</li> <li>Septic hip</li> <li>Knee deformity</li> </ul>	SR-2	14 <sup>th</sup> and 15 <sup>th</sup>		2

# Skills and tasks and Their Intended Learning Outcomes

In addition to real patients and skills stated in the NARS should be learned either in practical or group discussion.

No.	Learning	Bedside/skill lab	Weeks	Da	ıte	Hours
110.	outcomes S and A	sessions and titles	VV CCIKS	from	To	Hours

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S1-S13, S15, S18-21. S16, S23, S27, S29-S39, S41 - 60 1. History taking 1.5 1 st A1-10,12-A56 S1-S13, S15, S16, S21. S23, Knee examination 2. S29-60 1.5 2<sup>nd</sup> A1-21, 23-56S1-S13. S15. S16, S21. S23, 3. S29-60 Spine examination 1.5 3rd A1-21, 23-56S1-S13, S15. S16, S21. S23, 4. Peripheral nerve 1.5 S29-60 4th examination A1-21, 23-56S1- S16, S21. S23, S29-60 5. Hand tendon injuries 1.5 5<sup>th</sup> A1-21, 23-56S1-S13, Comment in plain x-S15-27, rays of limbs fractures 6. S29-60 1.5 6<sup>th</sup> A1-10,12-A56 S1-S13, Comment in spine S15-27, imaging 7. S29-60 1.5 7<sup>th</sup>Bone tumors imaging A1-10,12-A56 S1-S13, S15-Pyogenic arthritis – 27, S28, S29osteomyelitis – Pott's 8. 1.5 8<sup>th</sup> 60A1-10,12disease

A56





9.	S1-S13, S15-27, S29-60 A1-10,12-A56	CTEV DDH	9 <sup>th</sup>		1.5
10.	S1-S13, S15-27, S29-60 A1-10,12-A56	Bone healing – cast – splint – traction Principles of plate fixation	10 <sup>th</sup>		1.5
11.	S1-S13, S15-27, S29-60 A1-10,12-A56	Principles of Intramedullary nail and plates fixation	11 <sup>th</sup>		1.5
12.	S1-S13, S15-27, S29-60 A1-10,12-A56	Arthroplasty principles Orthopedic instruments	12 <sup>th</sup>		1.5
13.	S1-S13, S15-27, S29-60 A1-10,12-A56	Common clinical cases	13 <sup>th</sup>		1.5
14.	S1-S13, S15-27, S29-60 A1-10,12-A56	Common clinical cases	14 <sup>th</sup>		1.5
		Total			21

<sup>\*</sup>Date is recorded in the timetable

# Self -Directed Learning and Group Discussion (SDL & GD) (Cases scenario with 10 MCQs) In addition to real patients

	Learning		-	Date*	Hours	
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No.	outcomes (K and A)	Title of cases and reference	Weeks	from	to	
1.	K1-4, K6-7, K11, K14, K22- 27, K49 – K70	ACL + MM Injury	1 <sup>st</sup> 2 <sup>nd</sup>			3
2.	A1-65 K1-4, K6-7, K11, K14, K22- 27, K49 – K70 A1-65	Knee osteoarthritis + malalignment	3rd 4 <sup>th</sup>			3
3.	K1-4, K6-7, K11, K14, K22- 27, K49 – K70 A1-65	Peripheral nerve injury	5 <sup>th</sup> 6 <sup>th</sup>			3
4.	K1-4, K6-7, K11, K14, K22-27, K49 – K70	Hand tendon injuries//Ilizarov device uses	7 <sup>th</sup> 8 <sup>th</sup>			3
5.	K1-4, K6-7, K11, K14, K22-27, K49 – K70 A1-65	Lumbar disc prolapse	9 <sup>th</sup> 10 <sup>th</sup>			3
6.	K1-4, K6-7, K11, K14, K22- 27, K49 – K70 A1-65	Bone and joint infection	11 <sup>th</sup> 12 <sup>th</sup>			3
7.	K1-4, K6-7, K11, K14, K22-27, K49 - K70 A1-65	CTEV + DDH	13 <sup>th</sup> 14 <sup>th</sup>			3
		Total				21

<sup>\*</sup>Date is recorded in the timetable





# **Portfolio**

No.	Week number	Task to be recorded in the portfolio	Quiz Case Based MCQs	Formative assessment
1.	1 <sup>st</sup>	<ul><li>History taking</li><li>ACL + MM Injury</li></ul>	Answer the quiz of each lecture in this week (e-Learning).	
2.	2 <sup>nd</sup>	<ul><li>Knee examination</li><li>ACL + MM Injury</li></ul>	Answer the quiz of each lecture in this week (elearning).	Attend and pass the formative exam at the end of the week
3.	3rd	• Spine examination • Knee osteoarthritis + malalignment	Answer the quiz of each lecture in this week (elearning).	
4.	4 <sup>th</sup>	<ul> <li>Peripheral nerve examination</li> <li>Knee osteoarthritis + malalignment</li> </ul>	Answer the quiz of each lecture in this week (elearning).	Attend and pass the formative exam at the end of the week
5.	5 <sup>th</sup>	<ul> <li>Hand tendon injuries</li> <li>Peripheral nerve injury</li> <li>Ilizarov device uses</li> </ul>	Answer the quiz of each lecture in this week (elearning).	
6.	6 <sup>th</sup>	<ul> <li>Comment in plain x-rays of limbs fractures</li> <li>Peripheral nerve injury</li> </ul>	Answer the quiz of each lecture in this week (elearning).	Attend and pass the formative exam at the end of the week
7.	7 <sup>th</sup>	<ul> <li>Comment in spine imaging Bone tumors imaging</li> <li>Hand tendon injuries</li> </ul>	Answer the quiz of each lecture in this week (elearning).	





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8.	8 <sup>th</sup>	<ul> <li>Pyogenic arthritis – osteomyelitis – Pott's disease</li> <li>Hand tendon injuries</li> </ul>	Answer the quiz of each lecture in this week (elearning).	Attend and pass the formative exam at the end of the week
9.	9 <sup>th</sup>	<ul> <li>CTEV DDH</li> <li>Lumbar disc prolapse</li> </ul>	Answer the quiz of each lecture in this week (elearning).	
10.	10 <sup>th</sup>	• Bone healing – cast – splint – traction Principles of plate fixation • Lumbar disc prolapse	Answer the quiz of each lecture in this week (elearning).	Attend and pass the formative exam at the end of the week
11.	11 <sup>th</sup>	<ul> <li>Principles of Intramedullary nail and plates fixation</li> <li>Bone and joint infection</li> </ul>	Answer the quiz of each lecture in this week (elearning).	
12.	12 <sup>th</sup>	<ul> <li>Arthroplasty principles</li> <li>Orthopedic         <ul> <li>instruments Bone</li> <li>and joint infection</li> </ul> </li> </ul>	Answer the quiz of each lecture in this week (elearning).	Attend and pass the formative exam at the end of the week
13.	13 <sup>th</sup>	<ul><li>Common clinical cases</li><li>CTEV + DDH</li></ul>	Answer the quiz of each lecture in this week (elearning).	
14.	14 <sup>th</sup>	<ul><li>Common clinical cases</li><li>CTEV + DDH</li></ul>	Answer the quiz of each lecture in this week (elearning).	Attend and pass the formative exam at the end of the week
	Total	28		

# 6- Teaching and learning methods:-

- 6.1 Lectures for knowledge outcomes:- Interactive face to face & online Lectures.
- 6.2 Practical (Bedside/skill lab) sessions to gain clinical skills.
- 6.3 Task based log (may use incision academy/clinical key cases).
- 6.4 Group discussions (Case based).

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# 7- Student assessment methods:-

#### I- Formative assessment:-

- This is used to monitor student's learning to provide ongoing feedback that can be used by instructors to improve their teaching and by students to improve their learning. It's given once weekly and the answers are presented and discussed immediately with you after the assessment.
- MCQ Debrief.

#### II- Summative assessment:-

It is used to evaluate student's achievements at the end of an instructional unit. The grades tell whether the student achieved the learning goal or not.

#### **Blueprint**

Lectures Titles	Week	Marks	
		End of block 22	Final 44
Introduction to trauma in Orthopedic	1 <sup>st</sup>	3	4
Compartmentsyndrome/ Open fractures		3	
Dislocations ( shoulder, Hip,and elbow)	2nd		
<ul><li>Shoulder injuries</li><li>/ Fractures /</li><li>Arm Injuries /fractures</li></ul>		4	8
Elbow injuries /fractures /     Forearm injuries /fractures	3rd		
<ul> <li>Femoral fractures(fracture neck of femur – trochanteric fractures – subtrochanteric fractures – Supracondylar fracture)</li> <li>Tibial fractures (tibial plateau fracture)/ankle &amp;foot fractures</li> </ul>	4 <sup>th</sup> and 5 <sup>th</sup>	6	
		3	2
Pelvic fractures			
<ul> <li>Ilizarov</li> </ul>	6 <sup>th</sup>		
		3	2
Traumatic spinal injuries and spinal cord injuries	<b>7</b> <sup>th</sup>		





Lumbar disc prolapse, Potts disease and related pathologies		0	4
Lambar dice prelapse, i ette dicedee and related patriologice		V	
	8 <sup>th</sup>		
		0	4
Knee injuries -Meniscus injuries	9th		
Ligamentous			
Ligamentous			
	10th	0	4
Osteomyelitis – pyogenic arthritis			
ry against manning			
		0	4
Osteoarthritis			
Rheumatoid arthritis	11th		
Gouty arthritis			
Carpal tunnel syndrome		0	4
	124		
Common tendon injuries	12th		
Brachial plexus surgical anatomy			
Obstetric brachial plexus injury			
		0	4
Benign bone tumors		0	4
Malignant bone tumors	13th		
Congenital Talipes Equinovarus		0	4
Developmental Dislocated Hip	14th		
Septic hip			
Knee deformity			
Ilizarov			





#### Weighting of assessments:-

The student's performance will be assessed according to the following:-

Assessment task	Type of assessment	Proportion of total assessment	
<b></b>		Percentage	Marks
End block	case based MCQ (single answer)	20%	22
exam			
Portfolio	Case presentation, May include incision	10%	11
	academy certificates		
Final written	MCQ (single correct answer)	40%	44
exam		clinical	
OSCE Final	Typical OSCE stations using	30%	33
	standardized, real or skill lab encounters		
Total		100%	110

#### 8- List of References:-

- 1- Course notes:-Lectures notes.
- 2- Essential books (text books):-
- Kaplan USMLE (2019) Surgery.
- Campell's Operative Orthopedic.
- Eltorai, A. E. M., Eberson, C. P., & Daniels, A. H. (2018). Essential Orthopedic Review: Questions and Answers for Senior Medical Students. In Essential Orthopedic Review: Questions and Answers for Senior Medical Students. https://doi.org/10.1007/978-3-319-78387-1
- 3- Recommended books:-
  - Case Competencies in Orthopaedics.
  - Comprehensive Board Review in Orthopaedic Surgery.
- 4- Periodicals, Web sites, etc.
  - -British bone and joint Journal
  - American bone and joint Journal
  - Journal of Clinical Orthopedics





# 9- Facilities Required for Teaching and Learning:-

- 1. Lecture halls.
- 2. Medical Wards and clinical teaching rooms, operating theatres, outpatient clinics and casualty in emergency hospital.
- 3. Data show and PC with windows as an operating system and office.
- 4. Skill labs.
- 5. Software: Moodle and Microsoft teams.

# 10-Block evaluation:- Students' results.

- Students' feedback.
- Tutors' feedback.