هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

Course Specifications

Course Title:	Orthopedic Surgery
Course Code:	**593 ORT-4**
Program:	Bachelor of Medicine and Bachelor of Surgery (MBBS)
Department:	N/A
College:	Medicine
Institution:	Najran University

A. Course Identification

1. Credit hours: **4(2+2)**
2. Course type **a.** University ☐ College ☐ Department ☐ Others (Program) √ **b.** Required √ Elective ☐
3. Level/year at which this course is offered: Year 5 - Semester-2 (level 14)
4. Pre-requisites for this course (if any)**:** None
5. Co-requisites for this course (if any)**:** None

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**		
2	**Blended**	**40**	30.8%
3	**E-learning**		
4	**Distance learning**		
5	**Other**	90	69.2%

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	**Lecture**	20
2	**Others** (specify)	
a	**Seminar**	20
b	**Clinical Skill lab**	24
d	**Bedside teaching**	33
e	**Field Work Visit**	33
	Total	130

B. Course Objectives and Learning Outcomes

1. Course Description

This course is delivered to the medical students at the fourteenth level / fifth year; it has been designed to provide them with the required knowledge, skills, and values; to enable them to deal with common traumatic & non-traumatic orthopedic disorders in different age groups.

2. Course Main Objective

1) Discuss general principles of orthopedic & fractures.
2) Examine clinical patients with traumatic & non-traumatic orthopedic disorders at different age groups.
3) Interpret the radiological appearances, general plan of treatment, and complications of traumatic & non-traumatic orthopedic disorders.
4) Apply a problem-solving approach to traumatic & non-traumatic orthopedic disorders.
5) Discuss the pathogenesis of non-traumatic orthopedic disorders, investigations, and management.

C. Course Content

No	List of Topics	Contact Hours
1	Introduction to the course & Basic principles in the management of fracture- L	1+0
2	Diagnosis in orthopedic -L	1+0
3	Diagnosis in orthopedic - BST	0+3
4	Examination of the shoulder joint- SL	0+3
5	Examination of the elbow joint- SL	0+3
6	Examination of the Spine -SL	0+3
7	Examination of the hip joint -SL	0+3
8	Examination of the knee joint -SL	0+3
9	Principles of cast application - SL	0+3
10	Principles of cast application - FWV	0+3
11	Injuries of the shoulder girdle – L	1+0
12	Injuries of the shoulder girdle – BST	0+3
13	Shoulder dislocation- L	1+0
14	Shoulder dislocation- FWV	0+3
15	Fracture humerus - L	1+0
16	Fracture humerus- BST	0+3
17	Management of Poly trauma and RTA- SL	0+3
18	Management of Poly trauma and RTA – FWV	0+3
19	Supracondylar fracture of the humerus in children – L	1+0
20	Supracondylar fracture of the humerus in children – FWV	0+3
21	Elbow joint dislocation – L	1+0
22	Elbow joint dislocation – FWV	0+3
23	Monteggia, and Galiazi fractures- SE	2+0
24	Monteggia, and Galiazi fractures- BST	0+3
25	Fractures distal radius and scaphoid fracture – SE	2+0
26	Fractures distal radius and scaphoid fracture – FWV	0+3
27	Spinal injury I -L	1+0
28	Spinal injury II- L	1+0
29	Pelvic fractures – SE	2+0
30	Pelvic fractures – BST	0+3
31	Hip joint dislocation – L	1+0
32	Hip joint dislocation – FWV	0+3
33	Hip fractures – SE	2+0
34	Hip fractures – BST	0+3
35	Fractures of the femur- SE	2+0
36	Fractures of the femur- BST	0+3
37	Knee joint dislocation - L	1+0
38	Knee joint dislocation- FWV	0+3
39	Injuries of the extensor mechanism of the knee- SE	2+0
40	Injuries of the extensor mechanism of the knee- FWV	0+3
41	Fractures of the tibial plateau and shaft of the tibia – SE	2+0
42	Fractures of the tibial plateau and shaft of the tibia – BST	0+3
43	Open fractures & Compartment syndrome- SE	2+0
44	Open fractures & Compartment syndrome- BST	0+3

45	Complications of fractures- L	1+0
46	Injuries around ankle & foot- L	1+0
47	Injuries around ankle & foot- FWV	0+3
48	Orthopedic Implants& Skin and skeletal traction application techniques- SL	0+3
49	Orthopedic Implants& Skin and skeletal traction application techniques- BST	0+3
50	Growth plate injuries (Salter Harris fractures) - SE	2+0
51	Tendinitis and overuses syndrome and Rotator cuff syndrome- L	1+0
52	CTEV (club foot) -L	1+0
53	Orthopedic infections (Bone and joint infection) – L	1+0
54	Orthopedic infections (Bone and joint infection) – BST	0+3
55	Bone tumors- L	1+0
56	Back pain- L	1+0
57	Osteoarthritis - L	1+0
58	Osteoarthritis - FWV	0+3
59	Developmental Dysplasia of the Hip - L	1+0
60	Metabolic bone diseases (rickets-Osteomalacia-osteoporosis) - SE	2+0
Total		130

Key: L=Lecture, BST=Bed Side Teaching, SL=Skill lab, FWV=Field Work Visit, SE=Seminar, RTA=Road Traffic Accident.

2. Assessment Tasks for Students

No	Assessment task*	Week Due	Percentage of Total Assessment Score
A	Continuous assessment		
1	Midblock exam 1.MCQs 2.OSPE	3rd	15% 15%
2	Seminar assessment rubric	2nd -3rd	5%
3	Case presentation checklist.	2nd -3rd	5%
B	Final exam		
1	OSPE and/or OSCE	4th	30%
2	MCQs	4th	30%
C	Practice during the session logbook	3rd	Formative assessment

***Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	1. Ashely Blom, David Warwick, Michael R. White house, APLEY's & SOLOMOM'S System of Orthopedics and trauma,10th edition, publisher: CRC Press (Tylor & Francis Group).2018. 2. Ronald Mac Rae,6th edition, Clinical Orthopedics Examination ,6th edition, publisher: Churchill Livingstone, June 10 /2010 3. Mark D.Miller, Miller's review of orthopedics,8th edition, publisher: Elsevier,25th /October/2019

Essential References Materials	• Journal of bone & joint Surgery (JBJS) UK-USA
Electronic Materials	1. Saudi Digital Library. 2. WWW.Pubmed.com 3. www.Medscape.com 4. WWW.Orthobullet.com
Other Learning Materials	None

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	1. Lecture room suitable for students. 2. Laboratory (clinical skills) suitable for students. 3. Teaching hospital for bedside teaching
Technology Resources (AV, data show, Smart Board, software, etc.)	1. Computers, multimedia in lecture room, and clinical skill lab. 2. There is a need for computers with networking and internet access for student learning. As well as a number of computers and multimedia projectors in the other rooms.
Other Resources e.g., if specific laboratory ,(Specify list requirements or ,equipment is required attach a list)	1. Library supplied with reference, textbooks, and electronic resources

H. Specification Approval Data

Council / Committee	Department Of Surgery
Reference No.	Surgery Meeting -4
Date	11/10/2022 -15/03/1444