

T6. Course Specification (CS) توصيف المقرر

Institution: Najran University	Date of Report 1437-1438
College/Department : college of medicine	

A. Course Identification and General Information

1. Course title and code: Orthopedics (593-Ortho -4) جراحة العظام (593 – عظم – 4)		
2. Credit hours: 4 (2+2)		
3. Program(s) in which the course is offered. Medicine and Surgery		
4. Name of faculty member responsible for the course Coordinator : Dr.Osman Tagalsir		
5. Level/year at which this course is offered: 9th level/5th year		
6. Pre-requisites for this course : Courses of 5th to 8th levels.		
7. Co-requisites for this course : None.		
8. Location if not on main campus: University hospital King Khalid Teaching Hospital (KKH) Najran general hospital		
9. Mode of Instruction (mark all that apply)		
a. Traditional classroom	<input type="checkbox"/>	What percentage? <input type="text"/>
b. Blended (traditional and online)	<input checked="" type="checkbox"/>	What percentage? <input type="text" value="35%"/>
c. e-learning	<input type="checkbox"/>	What percentage? <input type="text"/>
d. Correspondence	<input type="checkbox"/>	What percentage? <input type="text"/>
f. Other	<input checked="" type="checkbox"/>	What percentage? <input type="text" value="65%"/>
Comments: Other include:		
a) Bed side teaching		
b) Skill lab		
c) Emergency room duty		

- d) Assignments.
- e) Seminars.
- f) Case reports

B. Objectives

1. What is the main purpose for this course?

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

- 1) Acquire sound knowledge of general principles of orthopaedics & fractures.
- 2) Describe the symptoms and signs of fractures & their radiological appearances & general plan of treatment & treatment of multiple injured patients.
- 3) Develop a problem solving approach to common fractures & orthopaedics disorders.
- 4) Explain the pathogenesis of common orthopaedics disease categories and their presentation.

2. Briefly describe any plans for developing and improving the course that are being implemented.

- 1) Continuous updating of the information, knowledge and skills included in the course through the continuous search for new knowledge and skills available in recent publications (books, researches, internet and others).
- 2) Continuous improvements in teaching methods to encourage the students to participate effectively in their various academic activities.
- 3) Continuous evaluation of the course content, student level and establish plans accordingly.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

- This course guides the students to acquire sound knowledge of general principles of orthopaedics & fractures, and describe the pathogenesis, diagnosis, management, and complications of the common traumatic and non traumatic orthopedic disorders, in the different age groups.

1. Topics to be Covered			
List of Topics	No of	Number of Weeks	Contact hours
Introduction to the course	L	0.03	1(1+0)
Diagnosis in orthopedic	L2 ,BST	0.13	5(2+3)
Principles of fractures	L	0.02	1(1+0)
injury of the shoulder girdle	L2 ,ER	0.13	5(2+3)

Shoulder dislocation	L , BST	0.11	4(1+3)
fracture of the humerus	L2, ER	0.13	5(2+3)
Supracondylar fracture in children	Se , ER	0.13	5(2+3)
Colle's, Smith's and Barton's fractures	Se , ER	0.13	5(2+3)
elbow dislocation	L ,BST	0.11	4(1+3)
Joint examination upper and lower limbs	SL 2,BST	0.23	9(0+9)
Compartment syndrome	Se ,BST	0.13	5(2+3)
fractures in children	Se ,ER	0.13	5(2+3)
Fracture radius and ulna & Scaphoid bone in adult	Se ,ER	0.13	5(2+3)
Pelvic fracture	Se ,ER	0.13	5(2+3)
fractures of the femur	Se ,ER	0.13	5(2+3)
Knee dislocation	L,ER	0.11	4(1+3)
Fracture of the tibia (tibial plateau –tibial shaft)	Se ,ER	0.13	5(2+3)
Metabolic bone diseases	SDL	0.05	2(2+0)
injuries of the extensor mechanism of the knee	Se ,BST	0.13	5(2+3)
Hip dislocation	L , ER	0.11	4(1+3)
Hip fractures	Se ,ER	0.13	5(2+3)
management of poly trauma pt	SL , ER	0.16	6(3+3)
Infection in Orthopedic	L2 ,ER	0.13	5(2+3)
Spinal fracture	L , ER	0.11	4(1+3)
Open fracture	Se , ER,BST	0.18	7(1+6)
Ankle fracture	Se ,ER	0.13	5(2+3)
Scoliosis	L	0.03	1(1+0)
TEV(club foot)	L ,BST	0.11	4(1+3)
Achondroplasia	L	0.03	1(1+0)
Introduction to the Bone tumors	L3 ,BST	0.16	6(3+3)
Nerve injury	Se ,BST	0.13	5(2+3)
Osteoarthritis	L ,BST	0.11	4(1+3)
Frozen shoulder & rotator cuff disorder	L	0.03	1(1+0)
DDH	Se	0.05	2(2+0)
Torticollis	L	0.03	1(1+0)
Principles of cast application	SL , ER	0.16	6(0+6)

Introduction to orthopedic Instruments and procedures	L	0.03	1(1+0)
Pott's disease of the spine	Se	0.05	2 (2+0)

Teaching strategy	Lecture	seminars	Skill labs	Bed Side Teaching	Emergency Room Duties	Total
Contact Hours	25 (1*25)	32 (2*16)	12 (3*4)	33 (3*11)	51 (3*17)	153
Credit	1.4	0.8	0.2	0.6	1.0	4

2. Additional private study/learning hours expected for students per week.
14 hours

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge		
1.1	Describe principles of management of common traumatic musculo-skeletal disorders, among adult, and children, their complications and management of those complications.	<ul style="list-style-type: none"> Lectures. Seminars BST. Skill labs. ER 	<ul style="list-style-type: none"> Continuous assessment (all or some of, logbook, assignments, seminars, case presentation, case report) midterm MCQs examination final examination (MCQs and all or some of, OSPE, OSCE, short case, long case)
1.2	Describe principles of management of common non traumatic musculo-skeletal disorders, among adult, and children, their complications and management of those	<ul style="list-style-type: none"> Lectures. Seminars BST. Skill labs. ER 	<ul style="list-style-type: none"> Continuous assessment (all or some of, logbook, assignments, seminars, case presentation, case report) midterm MCQs examination final examination (MCQs and all or some of, OSPE, OSCE, short case, long case)

	complications.		
2.0	Cognitive Skills		
2.1	Analyze principles of management of common traumatic musculo-skeletal disorders, among adult, and children, their complications and management of those complications.	<ul style="list-style-type: none"> • Lectures. • Seminars • BST. • Skill labs. • ER 	<ul style="list-style-type: none"> • Continuous assessment (all or some of, logbook, assignments, seminars, case presentation, case report) • midterm MCQs examination • final examination (MCQs and all or some of, OSPE, OSCE, short case, long case)
2.2	Analyze principles of management of common non traumatic musculo-skeletal disorders, among adult, and children their complications and management of those complications.	<ul style="list-style-type: none"> • Lectures. • Seminars • BST. • Skill labs. • ER 	<ul style="list-style-type: none"> • Continuous assessment (all or some of, logbook, assignments, seminars, case presentation, case report) • midterm MCQs examination • final examination (MCQs and all or some of, OSPE, OSCE, short case, long case)
3.0	Interpersonal Skills & Responsibility		
3.1	Present a talk to his colleagues in the student seminars.	seminars	<ul style="list-style-type: none"> • Continuous assessment (seminars)
3.2	Act as an efficient team member.	Skill lab, BST	<ul style="list-style-type: none"> • Continuous assessment (logbook) • final examination (OSCE or ,short cases, or ,long cases)
4.0	Communication, Information Technology ,Numerical		
5.0	Psychomotor		
5.1	Perform basic clinical assessment of the musculoskeletal system to the patients of different age group.	BST, Skill lab, Case presentation	<ul style="list-style-type: none"> • Continuous assessment (logbook, case presentation, case report) • Final examination (all or some of, OSPE, OSCE, short case, long case)

5.2	Apply the basic principles of management of patients with traumatic and/or non traumatic orthopedic disorders.	BST, skill labs,ER	<ul style="list-style-type: none"> • Continuous assessment (logbook, case presentation, case report) • Final examination(all or some of,OSPE,OSCE,short case, long case)
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5. Schedule of Assessment Tasks for Students During the Semester			
Assessment	Assessment task	Week due	Proportion of Final Assessment
1.	Continuous assessment - Log book (5%) - Seminars (5%) - Assignments (10%)	Through the 4 weeks	20%
2.	Mid of course exam (MCQ)	In the beginning of the 3 rd weeks	20 %
3.	End of course exam MCQs (30%) OSCE (30%),	At the end of the 4 th week	60%

D. Student Academic Counseling and Support

1. Allocation of office hours by the departments
2. Academic advisory unit.
3. Academic surveillance.

E. Learning Resources

1. List Required Textbooks:
 - Louis Solmon,David Warwick,Selvadurai Nayagam,Apley's system of orthopedic and trauma,9th edition,puplisher:Hodder Arnold.2010.
 - Louis Solmon,David Warwick,Selvadurai Nayagam ,Apley's concise of orthopedic and fracture,4th edition,puplisher: CRC Press,2014.
 - Mark D.Miller,Miller's review of orthopedics,7th edition,puplisher:Elsevier,2015
2. List Essential References Materials (Journals, Reports, etc.):
 - Journal or bone & joint Surgery (JBJS) UK-USA
3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - Clinical Orthopaedic Examination :by Ronald Mac Rae,6th edition , June /2010
4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
 - Saudi Digital Library.

- WWW.Pubmed.com
- www.Medscape.com

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

1. Lecture room suitable for the number of the students.
2. Teaching hospital for bedside teaching.

2. Computing resources (data show, Smart Board, software, etc.)

Computers, multimedia in lecture room, and hospital.

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

- Skill lab, prepared with different mannequins suitable for performing different orthopedics procedures
- Library supplied with reference text books, electronic resources.

G Course Evaluation and Improvement Processes

1 -Strategies for Obtaining Student Feedback on Effectiveness of Teaching

1. Continuously throughout the course by direct interviewing of the students.
2. End of the course students questionnaire

2 - Other Strategies for Evaluation of Teaching by the Program/Department Instructor

1. Feedback from colleagues.
2. Class observation by supervisors.

3 - Processes for Improvement of Teaching

1. Continuous updating of course contents.
2. Regular department council meetings where problems are discussed and recommendations made.
3. Workshops about teaching methods.
4. Review of recommended teaching strategies

4-Processes for Verifying Standards of Student Achievement

1. Arrange with another institution to have common test items included in an exam and compare student's performance.
2. Invitation of an external examiner on a regular basis.

5-Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

- There will be an evaluation at the end of the course to assess the execution, student's performance, and feedback from different sources, to plan the necessary modifications needed if any.

Faculty or Teaching Staff: Dr.Osman Tagalsir Osman Ali

Signature: *Osman. Tagalsir Osman . Ali*

Date Report completed: 1437-1438

Received by: _____

Dean/Department Head

Signature: _____

Date: _____