Mutah University

Detailed Syllabus Form



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First : Course Information:

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| • Course Title: Special Surgery/ orthopaedics and trauma | • Course Number: |   |
| • College: School of medicine | • Credit Hours:  |  |
| • Department: Special Surgery | • Pre-requisite pass 4th year ( 5th year level ) |  |
| • Semester & Academic Year: 5th year | • Instructor: Dr. Alaa Akel |  |
| • E-mail: alaakel@mutah.edu.jo | • phone number | : +962798133439 |
| • the time of the lecture: 9am-2pm | • Office Hours:  |  |
| • Office Num: 201 | • Building Name: faculty of medicine ( Clinical Building ) | • Foor Num: GF |
| • Virtual office hours on Microsoft Teams: 2-4pm |  |

Second : General Course Description

This course covers a wide variety of common Orthopaedics and traumatology topics,

Students learn about the basics, etiology, pathogenesis, signs and symptoms of different Orthopaedics and traumatology conditions and to be able to integrate the clinical, laboratory and radiological means to reach for diagnosis of common ones, in addition to ways of their medical and surgical treatment including physiotherapy and rehabilitation for a period of four weeks of clinical training including lectures, seminars and group discussions

 Third : Course Objectives

For the student to be able to perform a focused history and physical examination of the patient

with 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

Fourth: Expected Learning Outcomes

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| * 1.Demostrate the ability to take a history from the orthopaedic patient
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| * 2. Carry out a thorough physical examination of the orthopaedic patient
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| * 3. Recall the orthopaedic histology
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| * 4. Recognize long bone components
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| * 5. Describe long bone fractures
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| * 6. Describe X-rays of fractures and common orthopaedic pathologies
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| * 7. Identify fractures mechanisms
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| * 8.To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of osteomyelitis and septic arthritis
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| * 9. Grade and approach open fractures
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| * 10. Outline the differences and major characteristics of benign and malignant bone lesions and tumors
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| * 11. To know basics ,stages,types and complications of bone healing
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| * 12. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the knee disorders
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| * 13. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the sports injuries
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| * 14. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the pediatrics fractutres
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| * 15. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the pediatrics hip disorders
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| * 16. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the pediatric foot disorders
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| * 17. To know Principles of fractures and trauma
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| * 18. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the osteoarthrosis and arthroplasty
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| * 19. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the spinal deformities
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| * 20. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the low back pain and spinal disorders
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| * 21. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the spinal injuries
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| * 22. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the shoulder disorders
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| * 23. To know the principles of rehabilitation in orthopaedics
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| * 24. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the peripheral nerve injuries
 |
| * 25. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the upper limb fractures
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| * 26. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the lower limb fractures
 |
| * 27. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the hand infections
 |
| * 28. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the osteoporosis
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| * 29. To be able to differentiate between normal and abnormal gait.
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* Fifth : Course Plan Distribution & Learning Resources

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|  Week No. |  Topics to be Covered |  Learning Resources  |
| 1.  | Introduction to trauma and principles of fracture management | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 2.  | upper limb fracture | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 3.  | Lower limb fracture | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 4.  | Spinal fractures | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 5.  | Pediatric fractures | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 6.  | Pediatric hip disorders | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 7.  | Pelvis and acetabular fractures | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 8.  | Disc herniation and canal stenosis | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 9.  | Spondylolysis and spondylolisthesis | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 10.  | Osteoarthritis | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 11.  | Shoulder and Elbow disorders | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 12.  | Osteoporosis and metabolic bone disease | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 13.  | Peripheral nerve and brachial plexus injury | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 14.  | Knee Disorders | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 15.  | Ankle and foot disorders | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 16.  | Acute and chronic osteomyelitis, and septic arthritis | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 17. | Spinal deformities | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 18. | Benign and malignant bone tumors | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 19. | Hand disorders and infections | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |
| 20. | Entrapment Neuropathy | Appley’s concise textbookAppley’s textbookMiller’s orthopedics |

Sixth : Teaching Strategies and Methods

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| No  | Teaching Strategies and Methods  |
| 1  |  Two daily seminars with consultants covering the major topics in orthopaedics and trauma |
| 2  |  Three outpatient clinics attendance per week |
| 3  |  The attendance of elective and emergency orthopaedic surgeries. |
| 4  |  On call duties to recognize the role of the orthopaedic surgeon in the emergency department |
| 5  |  Patient history discussions during rounds and clinics. |

Seventh : Methods of Assessment

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| No . | Week & Date |  Methods of Evaluation  |  Proportion of Final Evaluation |
|  1. |  All weeks | Monthly end of rotation evaluation  | 20%  |
|  2. | end of 4th week  | Monthly end of rotation clinical exam | 40%  |
|  3. | End of the year  | Written MCQ end of year exam.  |  40% |
|  |  Total |   |  (100%) |

Eighth : Required Textbooks

1. Apley's System of Orthopaedics and Fractures, Ninth Edition

Louis Solomon, David Warwick, SelvaduraiNayagam

August 27, 2010

Reference - 992 Pages

ISBN 9780340942055

2. Miller's Review of Orthopaedics, Seventh Edition

By Mark D. Miller, MD and Stephen R. Thompson, MD, MEd, FRCSC

ISBN: 978-0-323-35517-9

 - Primary Textbook:

 Apley's System of Orthopaedics and Fractures, Ninth Edition

Louis Solomon, David Warwick, SelvaduraiNayagam

August 27, 2010

Reference - 992 Pages

ISBN 9780340942055

 - Secondary References

 Miller's Review of Orthopaedics, Seventh Edition

By Mark D. Miller, MD and Stephen R. Thompson, MD, MEd, FRCSC

ISBN: 978-0-323-35517-9

Ninth : General Instructions

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|  No | Additional Notes, Office hours, Incomplete Exams, Reports, Papers,  …etc |
|  1 | Attendance policies: According to the regulations of the University of Mutah.  |
|  2 | Absences from exams and handing in assignments on time: According to the regulations of the University Mutah |
|  3 | Health and safety procedures :According to the regulations of the University of Mutah |
|  4 | Honesty policy regarding cheating, plagiarism, misbehavior : According to the regulations of the University of Mutah  |
|  5 | Grading policy : According to the regulations of the University of Mutah  |
| 6 | Available university services that support achievement in the course:.Students can utilize Mutah University medical or main library facilities. In addition, they can access e-journals and e-books within campus. They can access the Moodle e- learning through the Mutah university wireless internet facilities for free or through the computer lab in the Faculty of Medicine. A lot of other facilities and support can be provided through the Deanship of Student Affairs. |