<table>
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<th>General Medicine</th>
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<td>Psychiatry</td>
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<td>5</td>
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<td>Obstetrics and Gynaecology</td>
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<td>10</td>
<td>Radiology</td>
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</table>
ORTHOPAEDICS
1. **GOAL**:
The student shall be able to:
1. Take relevant points in the history, Clinical examination to diagnose fractures and deformities.
2. Deliver first aid measures for common fractures and sprains
3. Use techniques of splinting, plaster, immobilization
4. Diagnose congenital anomalies, skeletal deformity and metabolic bone diseases, infections of bone and joint, joint arthritis,

2. **SKILLS**
At the end of the course, the student should be able to:
1. Detect sprains and deliver first aid measures for common fractures and sprains and manage uncomplicated fractures of clavicle, Colles’s, forearm, phalanges etc.
2. Techniques of splinting, plaster, immobilization etc.
3. Management of common bone infections, learn indications for sequestration, amputations and corrective measures for bone deformities.
4. Aspect of rehabilitation for Polio, Cerebral Palsy and Amputation.

3. **APPLICATION**
Be able to perform certain orthopedic skills, provide sound advise of skeletal and related conditions at primary or secondary health care level.

4. **INTEGRATION**
Integration with anatomy, surgery, pathology, radiology and Forensic Medicine be don

**5th Semester**
1. Students must be able to take relevant points in the history
2. Clinical examination to diagnose fractures and deformities.
3. Evaluations done by post term completion examinations
6th Semester

1. Students must know the basic physiology of fracture healing, types of fractures and complication of fractures.
2. Basic principles of plaster techniques and complications.
3. Lectures on injuries of upper limb.

7th Semester

1. Lectures on injuries of lower extremities.
2. Clinically, Student must be able to examine & diagnose common diseases of upper limb.

8th Semester

1. Students are taught about injuries of the pelvis and spine
2. Common congenital anomalies
3. Common arthritic conditions, neoplastic & neurological conditions like poliomyelitis, cerebral palsy etc.
4. Theoretical knowledge regarding chronic & acute infection of bone & joints
5. During their clinical posting they are taught to examine various orthopedic conditions of spine.

9th Semester

1. Tutorial & Lectures include revision of all orthopaedic conditions & diseases.
2. In Clinical posting, they are trained to examination various orthopaedic conditions involving bones & joints by taking history, clinical examination & relevant investigations
3. Evaluation done by post-term completion examination.
3. Integration:
Lectures for 6, 7, 8, 9 semesters
Revision lectures for 9 semesters
Tutorials for 9 semester
Bed side for clinics for 5, 6, 7, 8, 8 semester followed by term end exam.

4. Learning Methods:
Lectures, Tutorials bedside clinics and lecture cum demonstrations.

Distribution of Teaching hours
- Lectures – 50 hours
- Tutorials and revision – 50 hours
- Clinical postings in Orthopaedics

Total clinical Posting of 10 weeks of 180 hours
5<sup>th</sup> Semester - 4 weeks
6<sup>th</sup> Semester - 4 weeks
9<sup>th</sup> Semester - 2 weeks

Course contents and suggested lecture program of Orthopaedics (Total 100 hours)
This is suggested programme and can vary at institute
Total 100 hours of teaching has to be done in Orthopaedics including Tutorials
Details of syllabus in given separately below after distribution as per semester
- 6<sup>th</sup> Semester Lectures 1 to 16
- 7<sup>th</sup> Semester Lectures 17 to 32
- 8<sup>th</sup> Semester Lectures 33 to 48
- 9<sup>th</sup> Semester Revision Lectures 49 to 60
- 8<sup>th</sup> Semester Tutorial 61 to 81
- 9<sup>th</sup> semester Tutorial 82 to 100
5. Syllabus:

**Topic: General Orthopaedics**

**Lectures**

1. Introduction and scope of Orthopaedics Traumatology and Orthopaedic Diseases. Idea about Scheme of Examination.
2. Definition and Classification of Fracture and Dislocation Signs, Symptoms and diagnosis of sprain, contusion fracture and dislocation.
3. First aid measures in Poly-trauma patient, spinal cord injury patient and knowledge about various splints.

PDD

Principles of Management of sprain Fracture and Dislocation with emphasis on various aspects of closed reduction, immobilization including internal fixation and rehabilitation.

6, 7, 8 Complications of fracture and its management with specific reference to malunion Delayed union, Non union, Myosistis Ossificans, Sudeck’s dystrophy, Volkman’s ischaemia, Avascular Necrosis, Fat embolism, secondary Osteoarthrosis and injury to Muscles, Tendon, Nerve and Bpkd vessels

9. Plaster technique, plaster complications and plaster disease

10. Fracture Healing in cortical and cancellous bones and factors affecting fracture healing.

**Topic: Orthpaedic Traumatology**

11. Fracture clavicle, scapula, neck humerus and shaft humours.
12. Supracondylar fracture humerus with complications
13. Fracture Forearm bones, Monteggia and Galeassi fracture dislocations, fracture olecranon head and neck radius.
14. Fractures scaphoid, Metacarpals and phalanges
15. Colles fracture and complications.
16. Dislocation (Acute and Recurrent) of shoulder and elbow
17. Fracture of Vertebrae with complications
18. Fracture of Pelvis with complications
19. Facture shaft femur and fractures around knee
20. Fracture neck femur and trochanteric fracture.
22. Fracture dislocation around ankle.
23. Dislocation of Hip, knee, ankle, tarsals and small bones in foot

**Topic: Orthopaedic Diseases**
25, 26 Congenital skeletal anomalies with emphasis on congenital Talipes Equino Varus(CTEV)
27. Congenital dislocation of hip (CDH), Osteogenesis Imperfecia spina Bifida and Torticollis
28. Osteochondritis - Various types
PDDYPU 192 MBBS Syllabus
29. Post Polio Residual Palsy with stress on preventive and rehabilitation aspect.
30. Acute Ostemyelitis.
31. Chromic Osteomyelitis
32. Pyogenis arthritis of Hip, knee
33, 34 Osteo-articular Tuberculosis with special reference to tuberculosis with special reference to Tuberculosis of Hip, knee and elbow :
35. Tuberculosis spine and paraplegia
36. Fungal infections and leprosy in Orthopaedics
37. Cerebral palsy, Diagnosis and rehabilitation
38. Rheumatoid arthritis
39. Degenerative arthritis
40. Nerve injuries and principles of management
41. Amputation and Disarticulation - Indications methods and complications.
42. Metabolic bone disease : Rickets, Osteomalacia and Osteoporosis.
43, 44 Thumours of bones and its classification, Benign : osteochondroma, Glant cell tumour Unicameral Bone cyst, Aneurysmal cyst, Aneurysmal cyst.
45. 46 Malignant – Osteogenic sarcoma, Ewing’s tumour, Fibrosarcoma, Chondrosarcoma, Multiple Myeloma, Secondaries from Primary Carcinoma (Metastatic tumours)

47. Back ache


**Practical and Lecture cum Demonstration Classes, in MBBS in Orthopaedics**

Once a week class for two hours in 8th / 9th semester

Topics of Demonstrations

1. Paster technique and splint applications.
2. Traction, application, orthopaedic appliances demonstration, Demonstration of Physiotherpy equipments.
3. Specimens of sequestrum and Tumours, Madura foot etc.
4. Common instruments and Implants
   5 to 7 Common X-Ray of traumatology, bony infection, joint infection and tuberculosis, Malunited Colle’s fracture, forearm or Supracondylar humerus fracture.

PDDYPU 193 MBBS Syllabus

8 to 10 Chronic osteomyelitis case, knee effusion case, Non-union case, bony tumour case

**Seminar Topics :**

11. Osteomyelitis
12. Tuberculosis
13. Bone tumours
14. First aid and Acute Trauma Life Saving (ATLS) measures.

**Tutorials Topics**

1. Supracondylar fracture Humerus
2. Colle’s fracture
3. Fracture neck femur
4. Spine examination, Pott’s spine and paraplegia
5. CTEV
6. Shoulder, Elbow and wrist examination
7. Hip examination
8. Knee, ankle foot examination
9. Nerve examination and nerve injuries

6. Lectures, Tutorials (Total Number, Topics) In Each Semester :-

6th Semester Lectures

<table>
<thead>
<tr>
<th>Topic</th>
<th>Lesson Plan</th>
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</table>
| 1) Basic of fractures Polytrauma | a) Introduction  
b) Local examination  
c) Classification  
d) Diagnosis  
a) Definition  
b) management |
| 2) Principles of fracture management. | a) Conservative  
b) Operative  
Stages of fracture healing | a) Cortical bonehealing  
b) Cancellous bone healing |
| 3) Complications of fractures | a) Immediate  
b) Early  
c) late |
| 4) Injuries to nerves,tendons muscles ligaments | Injuries to nerves , tendons ,muscles ligaments |
| 5) Plaster technique, plaster complications and plaster diseases | Plaster technique ,plaster complications and plaster disease |
| 6) Fractures of carpels, metacarpels, phalanges | a) classification  
b) treatment |
| 7) Fracture of both bones forearm Monteggia & galleazzi fracture Diseases | a) signs symptoms  
b) treatment |
<table>
<thead>
<tr>
<th>Topic</th>
<th>Lesson Plan</th>
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</thead>
</table>
| 8) Injuries around the elbow | a) Dislocations elbow  
b) Fracture olecrenon  
a) Classification  
b) Signs and symptoms  
c) Treatment  
c) Fracture radial head  
d) Classification  
e) Signs and symptoms  
f) Treatment |
| 9) Fractures of the distal humerus | a) Supra condylar fractures of the humerus  
a) Classification  
b) Signs and symptoms  
c) Closed treatment  
d) Operative treatment  
e) Complications  
b) Condylar fractures |
| 10) Fractures of clavical and Acromioclavicular joint | a) Closed treatment  
b) Perative treatment |
| 11) Fractures of proximal humerus and shaft | a) Classification  
b) Signs and symptoms  
c) Treatment |
| 12) Dislocation Shoulder | d) Classification  
e) Signs and symptoms  
f) Treatment |
<table>
<thead>
<tr>
<th><strong>Topic</strong></th>
<th><strong>Lesson Plan</strong></th>
</tr>
</thead>
</table>
| 13) Fractures of the foot | • Fracture talus and calcaneum  
  a) Classification  
  b) Signs and symptoms  
  c) Treatment  
  • Metatarsal and phalanx fractures |
| 14) Ankle Fractures | a) Classification  
  b) Signs and symptoms  
  c) Radiological features  
  d) Treatment |
| 15) Fractures of the tibial shaft and fibula | a) classification  
  b) signs and symptoms  
  c) treatment  
  Fractures of the proximal tibia  
  a) classification  
  b) signs and symptoms  
  c) treatment |
| 16) Fractures of patella | a) classification  
  b) signs and symptoms  
  c) treatment |

**7th Semester Lectures**

<table>
<thead>
<tr>
<th><strong>Topic</strong></th>
<th><strong>Lesson Plan</strong></th>
</tr>
</thead>
</table>
| 17) Fracture olecranon | a) Classification  
  b) Signs and symptoms  
  c) Treatment |
<p>| 18) Fracture radial head | a) classification |</p>
<table>
<thead>
<tr>
<th>Topic</th>
<th>b) Signs and symptoms</th>
<th>c) treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>19) Dislocations elbow</td>
<td></td>
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<tr>
<td>20) Supracondylar fractures of the humerus</td>
<td>a) Classification</td>
<td>b) Signs and symptoms</td>
</tr>
<tr>
<td>21) Fractures of the clavicle</td>
<td>a) Closed treatment</td>
<td>b) Operative treatment</td>
</tr>
<tr>
<td>22) Fractures proximal humerus and shaft</td>
<td>a) Classification</td>
<td>b) Signs and symptoms</td>
</tr>
<tr>
<td>23) Dislocation shoulder</td>
<td>a) classification</td>
<td>b) signs and symptoms</td>
</tr>
<tr>
<td>24) Injuries of the acromioclavicular joint</td>
<td></td>
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<tr>
<td>25) Fractures talus and calcaneum</td>
<td>a) classification</td>
<td>b) signs and symptoms</td>
</tr>
<tr>
<td>26) Metatarsal and phalanx fractures</td>
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</tr>
<tr>
<td>27) Ankle fractures</td>
<td>a) classification</td>
<td>b) signs and symptoms</td>
</tr>
<tr>
<td>28) Fractures of the tibial shaft and fibula</td>
<td>a) classification</td>
<td>b) signs and treatment</td>
</tr>
<tr>
<td>29) Fractures of patella</td>
<td>a) classification</td>
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<tr>
<td>Topic</td>
<td>Lesson Plan</td>
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</table>
| 30) Fractures of the proximal tibia | 1) Classification  
2) Signs and symptoms  
3) Treatment  
a) classification  
b) signs and symptoms  
c) treatment |
| 31) Supracondylar fractures of femur | 1) Classification  
2) Signs and treatment  
3) Treatment  
a) classification  
b) signs and treatment  
c) treatment |
| 32) Fractures of the femoral shaft | 1) Classification  
2) Signs and symptoms  
3) Treatment  
a) classification  
b) signs and symptoms  
c) treatment |
| 34) Inter Trochanteric fracture. | 1) Classification  
2) Signs and symptoms  
3) Radiological features  
4) Treatment  
a) Classification  
b) Signs and symptoms  
c) Radiological features  
d) Treatment |
| Sub Trochanteric Fracture. | 1) Classification  
2) Signs and symptoms  
3) Radiological features  
4) Treatment  
a) Classification  
b) Signs and symptoms  
c) Radiological features  
d) Treatment |
| Fracture Neck Femur. | 1) Classification  
2) Signs and symptoms  
a) Classification  
b) Signs and symptoms |
| 35) Dislocation of hip joint | **c)** Radiological features  
|                            | **d)** Treatment  
| **a)** Classification  
| **b)** Signs and symptoms  
| **c)** Radiological features  
| **d)** Treatment  
| 36) Acetabular fracture Pelvis | Acetabular fracture  
|                             | Fracture Pelvis  
| 37) Injuries to the spine | Injuries to Spine  
| Fracture s Pelvis | Fractures and complications  
| 38) Introduction of peripheral nerve injury | Introduction of peripheral nerve injury  
| Brachial Plexus injury | Brachial Plexus Injury  
| **39) Peripheral nerve injury cont...** | **a)** Ulnar nerve  
|                            | **b)** Median nerve  
|                            | **c)** Radial nerve  
|                            | **d)** Lateral popliteal nerve  
|                            | **e)** Sciatic nerve  
| 40) Amputation. | **a)** Definition  
|                             | **b)** Types and level  
|                             | **c)** Complications  
|                             | **d)** Rehabilitation  
| 41) Osteomyelitis | **a)** Definition  
|                             | **b)** Types  
|                             | **c)** Clinical and radiological features  
|                             | **d)** treatment  
| 42) Septic arthritis | **a)** Clinical Features  
|                             | **b)** Investigations  
|                             | **c)** Treatment  
| 43) Tuberculosis of joint | **a)** Hip joint  
|                             | **b)** Knee joint  
|                             | **c)** Shoulder joint  
|                             | **d)** Treatment  
| 44) Tuberculosis of spine | **a)** Clinical Features  
|                             | **b)** Investigations  

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<th>Lesson Plan</th>
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<td>c) Treatment</td>
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<td>a) History</td>
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<td>b) General examination</td>
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<td>c) Inspection</td>
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<tr>
<td>d) Palpation</td>
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<td><strong>46) Regional examination of knee</strong></td>
<td>a) History</td>
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<tr>
<td>b) General examination</td>
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<tr>
<td>c) Inspection</td>
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<tr>
<td>d) Palpation</td>
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<tr>
<td><strong>47) Regional examination of hip</strong></td>
<td>a) History</td>
</tr>
<tr>
<td>b) General examination</td>
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<tr>
<td>c) Inspection</td>
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<tr>
<td>d) Palpation</td>
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<tr>
<td><strong>48) Revision</strong></td>
<td>Revision</td>
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**9th Semester Revision Lectures**

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<tr>
<td><strong>49) Fractures around wrist &amp; hand</strong></td>
<td>1) Fracture of Phalanx &amp; metacarpal</td>
</tr>
<tr>
<td>2) Bennett’s Fracture Dislocation, Roland Fracture, Kaplan dislocation, Fracture Scaphoid, dislocation of Lunate</td>
<td></td>
</tr>
<tr>
<td>3) Colles Fracture, smith fracture, Barton Fracture dislocation</td>
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<tr>
<td><strong>50) Complication of fracture dislocation end radius</strong></td>
<td>1) Carpel tunnel Syndrome,</td>
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<tr>
<td>2) Sudeck’s osteodystrophy</td>
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<tr>
<td><strong>51) Fractures of fracture dislocation end radius</strong></td>
<td>3) Galeazzi Fracture Dislocation</td>
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<tr>
<td>4) Monteggia fracture Dislocatipon</td>
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<td>5) Supracondylar fracture Humers</td>
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<td>6) Lateral condylar fracture</td>
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<tr>
<td>7) Olecranon Fracture</td>
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<tr>
<td>8) Radial head Fracture</td>
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<tr>
<td>9) Dislocation of elbow</td>
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<tr>
<td><strong>52) Complication of Supracondylar fracture of humorous</strong></td>
<td>1) Cubitus varus</td>
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<tr>
<td>2) Myositis ossification</td>
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<tr>
<td>3) Volkmann’s ischaemic contracture</td>
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<tr>
<td>4) Acromio clavicular joint dislocation</td>
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<thead>
<tr>
<th>Topic</th>
<th>Lesson Plan</th>
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</table>
| 53) Fractures around shoulder joint | 1) Proximal humorous  
2) Dislocation Of Shoulder  
3) Fracture Of clavicle  
4) Acromio clavicular joint dislocation |
| 54) Fractures around Hip | 1) Dislocation of Hip  
2) Fracture Neck Femur |
| 55) Fracture Of Spine | 1) Fracture of Cervical Spine  
2) Fracture of Dorsolumbar spine |
| 56) Case presentation | Tumors of Bones |
| 57) Fractures of femur around knee | 1) Fracture femur  
2) Fracture of surfaces around knee |
| 58) Fractures of Tibia | Fractures of Tibia |
| 59) Fractures around ankle & foot | 1) Bimalleolar fracture,ankle dislocation  
2) Fracture & Dislocation of foot |
| 60) Revision | Revision |

8th Semester Tutorial

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<tr>
<td>61) Fist aid and acute trauma Life saving (ATLS) measures (Seminar)</td>
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<tr>
<td>62) Case taking general</td>
<td></td>
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<tr>
<td>63) Tuberculosis (Siminar)</td>
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<tr>
<td>64) Tuberculosios (Siminar)</td>
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<tr>
<td>65) X-ray &amp; disease of Lower limb</td>
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<tr>
<td>66) Bone tumours (Seminar)</td>
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</tr>
<tr>
<td>67) Examination – implants</td>
<td></td>
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<tr>
<td>68) Case taking general</td>
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<td>69) Case taking diseases</td>
<td></td>
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<tr>
<td>70) X-rays &amp; disease of Lower limb</td>
<td></td>
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<tr>
<td>71) X-ray of tumors</td>
<td></td>
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<tr>
<td>72) University examination pattern</td>
<td></td>
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<tr>
<td>73) Osteomyelitis (Seminar)</td>
<td></td>
</tr>
<tr>
<td>74) X-rays &amp; disease of upper limb</td>
<td></td>
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<tr>
<td>75) X-rays &amp; Disease of spine and pelvis</td>
<td></td>
</tr>
</tbody>
</table>
76) Examination – specimen
77) Examination – orthosis
78) Case taking trauma
79) X-ray & disease of upper limb
80) X-ray & disease of spine and pelvis
81) Examination - specimen

9th Semester Tutorial

<table>
<thead>
<tr>
<th>Topic</th>
<th>Lesson Plan</th>
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<tbody>
<tr>
<td>82) Introduction</td>
<td>Introduction</td>
</tr>
<tr>
<td>83) University examination pattern</td>
<td>University Examination Pattern</td>
</tr>
<tr>
<td>84) Case taking general</td>
<td>Case taking general</td>
</tr>
<tr>
<td>85) Case taking trauma</td>
<td>Case taking Trauma</td>
</tr>
<tr>
<td>86) Case taking diseases</td>
<td>Case taking disease</td>
</tr>
<tr>
<td>87) X-rays &amp; disease of Lower limb</td>
<td>X-rays &amp; disease of Upper Limb</td>
</tr>
<tr>
<td>88) X-rays &amp; disease of Lower limb</td>
<td>X-rays &amp; disease of Lower Limb</td>
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<tr>
<td>89) X-rays &amp; disease of spine and pelvis</td>
<td>X-rays &amp; disease of spine and pelvis</td>
</tr>
<tr>
<td>90) X-rays of tumors</td>
<td>X-rays of tumors</td>
</tr>
<tr>
<td>91) Examination specimen</td>
<td>Examination-specimen</td>
</tr>
<tr>
<td>92) Examination - implants</td>
<td>Examination-implants</td>
</tr>
<tr>
<td>93) Reconstructive surgeries in polio &amp; CP</td>
<td>Reconstructive surgeries in polio &amp; CP</td>
</tr>
<tr>
<td>94) Orthotics-Lower limb</td>
<td>Orthotics-Lower limb</td>
</tr>
<tr>
<td>95) Orthotics-Upper limb</td>
<td>Orthotics-Upper limb</td>
</tr>
<tr>
<td>96) Role of MRI in Orthopaedics</td>
<td>Role of MRI in Orthopaedics</td>
</tr>
<tr>
<td>97) Role of C.T. in Orthopaedics</td>
<td>Role of C.T. in Orthopaedics</td>
</tr>
<tr>
<td>98) Back pain &amp; its M/M</td>
<td>Back pain &amp; its M/M</td>
</tr>
<tr>
<td>99) Vascular disorders (AVN, Perthe’s disease)</td>
<td>Vascular disorders (AVN, Perthe’s disease)</td>
</tr>
<tr>
<td>100) Splints commonly used in Orthopaedics</td>
<td>Splints commonly used in Orthopaedics</td>
</tr>
</tbody>
</table>
7. Evaluation methods

7.1 Internal assessment: Total 100 Marks (Theory 50 Marks + Practical 50 Marks)

7.2 Internal Assessment in Theory 50 Marks

7.3 Internal Assessment in Practical 50 Marks

8. Pattern of final Examination (Surgery Paper – I Section - C)

Long Question 1 x 8 = 8 Marks

Short notes 4 x 3 = Marks

9. Books Recommended

9.1 Text books:
   - Maheshwari
   - Ebnesar
   - Surgery Das

9.2 Reference Books:
   - Campbell operative orthopaedics
   - Rock wood & green Trauma
   - Tureks Orthopaedics
   - Macray Clinical examination.