

3. 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.
4. Principles of Management of sprain Fracture and Dislocation with emphasis on various aspects of closed reduction, immobilization including internal fixation and rehabilitation.
5. Complications of fracture and its management with specific reference to malunion Delayed union, Non-union, Myositis Ossificans, Sudeck's dystrophy, Volkman's ischaemia, Avascular Necrosis, Fat embolism, secondary Osteoarthritis and injury to Muscles, Tendon, Nerve and Blood vessels
6. Plaster technique, plaster complications and plaster disease
7. Fracture Healing in cortical and cancellous bones and factors affecting fracture healing.

TOPIC: ORTHOPAEDIC TRAUMATOLOGY

1. Fracture clavicle, scapula, neck humerus and shaft humerus.
2. Supracondylar fracture humerus with complications
3. Fracture Forearm bones, Monteggia and Galeazzi fracture dislocations, fracture olecranon head and neck radius.
4. Fractures scaphoid, Metacarpals and phalanges
5. Colles fracture and Complications.
6. Dislocation (Acute and Recurrent) of shoulder and elbow
7. Fracture of Vertebrae with complications
8. Fracture of Pelvis with complications

9. Fracture shaft femur and fractures around knee
10. Fracture neck femur and trochanteric fracture.
11. Meniscus and ligaments injury at knee
12. Fracture Tibia-fibula, fracture of tarsals, metatarsals and phalanges.
13. Fracture dislocation around ankle.
14. Dislocation of Hip, knee, ankle, tarsals and small bones in foot

TOPIC: ORTHOPAEDIC DISEASES

1. Congenital skeletal anomalies with emphasis on congenital Talipes Equino varus (CTEV)
2. Congenital dislocation of hip (CDH), Osteogenesis Imperfecta spina Bifida and Torticollis
3. Osteochondritis - various types
4. Post Polio Residual Palsy with stress on preventive and rehabilitation aspect.
5. Acute Osteomyelitis.
6. Chronic Osteomyelitis
7. Pyogenic arthritis of Hip, knee
8. Osteo-articular Tuberculosis with special reference to tuberculosis with special reference to Tuberculosis of Hip, knee and elbow :
9. Tuberculosis spine and paraplegia
10. Fungal infections and leprosy in Orthopaedics
11. Cerebral palsy, Diagnosis and rehabilitation
12. Rheumatoid arthritis
13. Degenerative arthritis.
14. Nerve injuries and principles of management
15. Amputation and Disarticulation – Indications methods and complications.
16. Metabolic bone disease : Rickets, Osteomalacia and Osteoporosis.
17. Tumours of bones and its classification, Benign :- osteochondroma, Giant cell tumour Unicameral Bone cyst,

Aneurysmal cyst, Aneurysmal cyst.

19. Malignant – Osteogenic sarcoma, Ewing’s tumour, Fibrosarcoma, Chondrosarcoma, Multiple Myeloma, Secondaries from Primary Carcinoma (Metastatic tumours)
20. Back ache
21. Frozen shoulder, Tennis Elbow, Dequervain’s disease, Dupuytren’s Contracture, Osgood – Schlatterd’s disease, planter fasciitis.

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

6th Semester Lectures

Topic	Lesson Plan
Basic of fractures Polytrauma	<ol style="list-style-type: none"> a) Introduction b) Local examination c) Classification d) Diagnosis <ol style="list-style-type: none"> a) Defination b) management
Principles of fracture management .	<ol style="list-style-type: none"> a) Conservative b) Operative
Stages of fracture healding	<ol style="list-style-type: none"> a) Cortical bonehealing b) Cancellous bone healing
Complications of fractures	<ol style="list-style-type: none"> a) Immediate b) Early c) late
Injuries to nerves, tendons muscles ligaments	Injuries to nerves, tendons, muscles ligaments
Plaster technique, plaster complications and plaster diseases	Plaster technique ,plaster complications and plaster disease
Fractures of carpels, metacarpels, phalanges	<ol style="list-style-type: none"> a) classification b) treatment
Fracture of both bones forearm Monteggia and galleazzi fracture Diseases	<ol style="list-style-type: none"> a) signs symptoms b) treatement

Injuries around the elbow	<ul style="list-style-type: none"> a) Dislocations elbow b) Fracture olecranon <ul style="list-style-type: none"> a) Classification b) Signs and symptoms c) Treatment c) Fracture radial head <ul style="list-style-type: none"> d) Classification e) Signs and symptoms f) Treatment
Fractures of the distal humerus	<ul style="list-style-type: none"> a) Supra condylar fractures of the humerus <ul style="list-style-type: none"> a) Classification b) Signs and symptoms c) Closed treatment d) Operative treatment e) Complications b) Condylar fractures
Fractures of clavical and Acromioclavicular joint	<ul style="list-style-type: none"> a) Closed treatment b) Operative treatment
Fractures of proximal humerus and shaft	<ul style="list-style-type: none"> a) Classification b) Signs and symptoms c) Treatment
Dislocation Shoulder	<ul style="list-style-type: none"> d) Classification e) Signs and symptoms f) Treatment
Fractures of the foot	<ul style="list-style-type: none"> 1. Fracture talus and calcaneum <ul style="list-style-type: none"> a) Classification b) Signs and symptoms c) Treatment 2. Metatarsal and phalanx fractures
Ankle Fractures	<ul style="list-style-type: none"> a) Classification b) Signs and symptoms c) Radiological features d) treatment
Fractures of the tibial shaft and fibula	<ul style="list-style-type: none"> a) classification b) signs and symptoms c) treatment
Fractures of the proximal tibia	<ul style="list-style-type: none"> a) classification b) signs and symptoms c) treatment
Fractures of patella	<ul style="list-style-type: none"> a) classification b) signs and symptoms c) treatment

7th Semester Lectures

Topic	Lesson Plan
Fracture olecranon a) Classification b) Signs and symptoms c) Treatment d) Operative Treatment e) Complication	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for fullfunctionally recovery & early return to work
Ankle fractures a) Classification b) Signs and symptoms investigation c) Closed treatment d) Operative treatment e) Complication	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for fullfunctionally recovery & early return to work
Fracture radial head a) Classification b) Signs and symptoms c) Treatment	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for fullfunctionally recovery & early return to work
Fractures of the tibialshaft and fibula a) Classification b) Signs and symptoms investigation c) Closed treatment d) Operative treatment e) Complication	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for fullfunctionally recovery & early return to work
Dislocations elbow	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for full functionally recovery & early return to work
Fractures of patella a) Classification b) Signs and symptoms investigation c) Closed treatment d) Operative treatment e) Complication	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for fullfunctionally recovery & early return to work

Supracondylar fractures of the humerus a) Classification b) Signs and symptoms investigation	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for fullfunctionally recovery & early return to work
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Topic	Lesson Plan
c) Closed treatment d) Operative treatment e) Complication	
Fractures of the proximaltibia a) Classification b) Signs and symptoms investigation c) Closed treatment d) Operative treatment e) Complication	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for fullfunctionally recovery & early return to work
Fractures of the clavicle a) Classification b) Signs and symptoms investigation c) Closed treatment d) Operative treatment e) Complication	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for fullfunctionally recovery & early return to work
Supracondylar fractures of femur a) Classification b) Signs and symptoms investigation c) Closed treatment d) Operative treatment e) Complication	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for fullfunctionally recovery & early return to work

Fractures proximal humerus and shaft a) Classification b) Signs and symptoms investigation c) Closed treatment d) Operative treatment e) Complication	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for fullfunctionally recovery & early return to work
Fractures of the femoralshaft a) Classification b) Signs and symptoms investigation c) Closed treatment d) Operative treatment	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for fullfunctionally recovery & early return to work

Topic	Lesson Plan
e) Complication	
Dislocation shoulder f) Classification g) Signs and symptoms investigation h) Closed treatment i) Operative treatment j) Complication	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for fullfunctionally recovery & early return to work
Injuries of the acromioclavicular joint	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for fullfunctionally recovery & early return to work
Fractures talus andcalcaneum a) Classification b) Signs and symptoms investigation c) Closed treatment d) Operative treatment e) Complication	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for fullfunctionally recovery & early return to work

Metatarsal and phalanx fractures	Aim is to achieve early diagnosis to institute early proper treatment & rehabilitation for full functionally recovery & early return to work
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8th Semester Lectures (01)

Topic	Lesson Plan
Supracondylar Fractures of the Femur.	1) Classification 2) Signs and symptoms 3) Treatment
Fractures of the femoral shaft.	a) Classification b) Signs and symptoms c) Treatment
Inter Trochanteric fracture.	a) Classification b) Signs and symptoms c) Radiological features d) Treatment
Sub Trochanteric Fracture.	a) Classification b) Signs and symptoms c) Radiological features d) Treatment
Fracture Neck Femur.	a) Classification b) Signs and symptoms c) Radiological features d) Treatment
Dislocation of hip joint	a) Classification b) Signs and symptoms c) Radiological features d) Treatment
<i>Acetabular fracture fracture Pelvis</i>	<i>a) Anatomy b) Classification according to mode of injuries c) Signs and symptoms with associated injuries d) Radiological features e) Treatment f) Complication</i>

<i>Injuries to the spine</i>	<ul style="list-style-type: none"> a) <i>Anatomy</i> b) <i>Classification</i> c) <i>Signs & symptoms</i> d) <i>Treatment & Complication</i>
<i>Fracture s Pelvis</i>	<ul style="list-style-type: none"> a) <i>Classification</i> b) <i>Signs of Symptoms</i> c) <i>Radiological features</i> d) <i>Treatment & Complication</i>
<i>Introduction of peripheralnerve injury</i>	<ul style="list-style-type: none"> a) <i>Anatomy</i> b) <i>Types classification of Nerveinjuries (Sedden-Sunderland Classification)</i> c) <i>Signs & Symptoms</i> d) <i>Nerve Conduction Studies</i> i) <i>EMG</i> ii) <i>NCV</i> e) <i>Treatment and Complications</i>
<i>Brachial Plexus injury</i>	<ul style="list-style-type: none"> a) <i>Anatomy – Classification /Types of Injuries</i> b) <i>Signs and Symptoms</i> c) <i>Treatment</i>
Peripheral nerve injury cont...	<ul style="list-style-type: none"> a) Ulnar nerve b) Median nerve c) Radial nerve d) Lateral popliteal nerve e) Sciatic nerve
Amputation.	<ul style="list-style-type: none"> a) Defination b) Types and level c) Complications d) Rehabilitation
Osteomyelitis	<ul style="list-style-type: none"> a) Defination b) Types c) Clinical and radiological features d) treatment
Septic arthritis	<ul style="list-style-type: none"> a) Clinical Features b) Investigations c) Treatment
Tuberculosis of joint	<ul style="list-style-type: none"> a) Hip joint b) Knee joint c) Shoulder joint d) Treatment

Tuberculosis of spine	a) Clinical Features b) Investigations c) Treatment
Regional examination of foot and ankle	a) History b) General examination c) Inspection d) Palpation
Regional examination of knee	a) History b) General examination c) Inspection d) Palpation
Regional examination of hip	a) History b) General examination c) Inspection d) Palpation

8th Semester Lectures (2)

Topic	Lesson Plan
Congenital anomalies	a) CTEV b) CVT c) Osteogenesis imperfect d) Spine bifida e) Torticollis f) Scoliosis g) Kyphosis h) Sprengel's shoulder
Metabolic disorders	a) Scurvy b) Osteomalacia c) Osteoporosis d) Rickets
Bones tumors	a) Introduction b) Clinical features c) Classification d) Presentation e) Investigation f) Treatment
Benign tumors	a) <i>Defination</i> b) <i>Classification</i>

Topic	Lesson Plan
	<ul style="list-style-type: none"> <i>c) Signs & symptoms</i> <i>d) Diagnosis</i> <i>e) Treatment</i>
Malignant and metastatic tumors	<ul style="list-style-type: none"> <i>a) Definition</i> <i>b) Classification</i> <i>c) Signs & symptoms</i> <i>d) Diagnosis</i> <i>e) Treatment</i>
Arthritis	<ul style="list-style-type: none"> a) Osteoarthritis b) Rheumatoid arthritis c) Crystal arthritis d) Allopurinol arthritis e) Hemophilic arthritis
Arthritis	<ul style="list-style-type: none"> a) Osteoarthritis b) Rheumatoid arthritis c) Crystal arthritis d) Allopurinol arthritis e) Hemophilic arthritis
Miscellaneous topic	<ul style="list-style-type: none"> a) De Quervain's disease b) Dupuytren's contracture c) Frozen shoulder d) Osgood-Schlatter's disease e) OCD f) Plantar fasciitis g) Tennis elbow
Miscellaneous topic	<ul style="list-style-type: none"> a) De Quervain's disease b) Dupuytren's contracture c) Frozen shoulder d) Osgood-Schlatter's disease e) OCD f) Plantar fasciitis g) Tennis elbow
Polymyelitis	<ul style="list-style-type: none"> <i>a) Definition</i> <i>b) Classification/ Types</i> <i>c) Symptoms & Signs</i> <i>d) Investigation</i> <i>e) Treatment</i>

Cerebral palsy	<ul style="list-style-type: none"> a) Types b) Medical Management c) Surgical Management
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Topic	Lesson Plan
Leprosy and Fungal infection	<ul style="list-style-type: none"> a) Clinical features b) Investigations c) Treatment
Examination of upper limb-hand ,wrist and forearm	<ul style="list-style-type: none"> a) History taking b) General examination c) Inspection d) palpation
Examination of shoulder joint and elbow joint	<ul style="list-style-type: none"> a) History taking b) General examination c) Inspection d) palpation
Regional examination of spine	<ul style="list-style-type: none"> a) History taking b) General examination c) Inspection d) palpation

9th Semester Revision Lectures

Topic	Lesson Plan
Fractures around wrist & hand	<ul style="list-style-type: none"> 1) Fracture of Phalanx and metacarpal 2) Bennett's Fracture Dislocation, Rolando Fracture, Kaplan dislocation, Fracture of Scaphoid, dislocation of lunate 3) Colles Fracture, smith fracture, barton Fracture dislocation
Complication of fracture dislocation end radius	<ul style="list-style-type: none"> 1) Carpel tunnel Syndrome , 2) Sudeck's osteodyystrophy

Fractures of fracture dislocation end radius	<ul style="list-style-type: none"> 3) Galeazzi Fracture Dislocation 4) Monteggia fracture Dislocation 5) Supracondylar fracture Humerus 6) Lateral condylar fracture 7) Olecranon Fracture 8) Radial head Fracture 9) Dislocation of elbow
Complication of Supracondylar fracture of humerus	<ul style="list-style-type: none"> 1) Cubitus varus 2) Myositis ossification 3) Volkmann's ischaemic contracture

Topic	Lesson Plan
	4) Acromio clavicular joint dislocation
Fractures around shoulder joint	<ul style="list-style-type: none"> 1) Proximal humerus 2) Dislocation Of Shoulder 3) Fracture Of clavicle 4) Acromio clavicular joint dislocation
Fractures around Hip	<ul style="list-style-type: none"> 1) Dislocation of Hip 2) Fracture Neck Femur
Fracture Of Spine	<ul style="list-style-type: none"> 1) Fracture of Cervical Spine 2) Fracture of Dorsolumbar spine
Case presentation	Tumors of Bones
Fractures of femur around knee	<ul style="list-style-type: none"> 1) Fracture femur 2) Fracture of surfaces around knee
Fractures of Tibia	Fractures of Tibia
Fractures around ankle & foot	<ul style="list-style-type: none"> 1) Bimalleolar fracture, ankle dislocation 2) Fracture & Dislocation of foot

8th Semester Tutorial

Topic	Lesson Plan
Tuberculosis (Seminar)	<ul style="list-style-type: none"> a) <i>Introduction Bone TB</i> b) <i>Common Sites of Bone TB</i> c) <i>Classification</i>

Case taking general	<ul style="list-style-type: none"> a) Basic Data Collection b) Chief Complaint c) Present History d) Personal History e) Family History
Tuberculosis (Seminar)	<ul style="list-style-type: none"> a) Investigation b) Management of Complications
First aid and advance trauma Lifesaving (ATLS) measures (Seminar)	<ul style="list-style-type: none"> a) Introduction b) Primary Survey <ul style="list-style-type: none"> A- Airway B- Breathing C- Circulation D- Disability E- Exposure c) Secondary Survey d) Technically Survey e) History of ATLS
X-rays of Lower limb, trauma, infection	<ul style="list-style-type: none"> a) Pelvic Fractures b) Femur/Tibia Fibula/Patella Fracture c) Ankle /Plafond Fractures d) Foot Fractures e) Osteomyelities in ProximalTibia
Bone tumors (Seminar)	<ul style="list-style-type: none"> a) Defination b) Classification <ul style="list-style-type: none"> - Benign - Malignant c) Signs and Symptoms d) Treatment <ul style="list-style-type: none"> - Non Surgical - Surgical
Examination – implants	<ul style="list-style-type: none"> a) Intramedulary Nails b) DHS c) Screw-Types d) Dynamic compression plates /LC-DCP e) K-wire
Case taking general	<ul style="list-style-type: none"> a) Basic Data Collection b) Chief Complaint c) Present History d) Personal History e) Family History

Case taking diseases	Shorts a) <i>Arthritis</i> b) <i>Infection</i> c) <i>Deformities</i> - <i>Congenital</i> - <i>Acquired</i>
X-rays of upper limb, trauma, infection	a) <i>Shoulder girdle fractures</i> b) <i>Humerus / Elbow / Forearm Fractures</i> c) <i>Wrist and Hand Fractures</i> d) <i>Osteomyelitis in Long Bones</i>
X-rays, specimen of tumors	a) <i>GCT (Giant Cell Tumors)</i> b) <i>Enchondroma</i> c) <i>Osteochondroma – Osteosarcoma</i> d) <i>Ewing’s Sarcoma</i>
X-rays & disease of spine and pelvis	a) <i>Spine</i> - <i>Traumatic fractures</i> - <i>TB Spine (Infection)</i> - <i>Tumors</i> b) <i>Pelvis</i> - <i>Traumatic fractures</i> - <i>AVN Perthes</i>
Osteomyelitis (Seminar)	a) <i>Overview / Definition</i> b) <i>Classification/ Types</i> c) <i>Signs & Symptoms</i> d) <i>Investigation</i> e) <i>Treatment</i> - <i>Nonsurgical</i> - <i>Surgical</i> f) <i>Complication</i>
X-rays disease of upper limb	a) <i>Trauma/Fractures</i> b) <i>Tumors</i> c) <i>Infection/Osteomyelitis</i> d) <i>Primary & Secondary Arthritis</i>
Exam of Ortho case presentation	Joints a) <i>Inspection</i> b) <i>Palpation</i> c) <i>Range of Movements</i> d) <i>Special Test’s</i>
Examination – specimen	a) <i>GCT (Giant Cell Tumors)</i> b) <i>Enchondroma</i> c) <i>Osteochondroma – Osteosarcoma</i> d) <i>Ewing’s Sarcoma</i>

Examination - Orthosis	<ul style="list-style-type: none"> a) <i>Defination</i> b) <i>Ankle foot Orthosis(lower limb)</i> c) <i>Knee Orthosis</i> d) <i>Wrist / Elbow Orthosis(Upper Limb)</i> e) <i>Finger Orthosis</i>
Case taking trauma	<ul style="list-style-type: none"> a) <i>Basic Data Collection</i> b) <i>Chief Complaint</i> c) <i>Present History</i> d) <i>Personal History</i> e) <i>Family History</i>
X-rays & disease of upper limb	<ul style="list-style-type: none"> a) <i>Trauma / Fractures</i> b) <i>Tumors</i> c) <i>Infection / Osteomyelitis</i> d) <i>Primary and Secondary Arthritis</i>
X-rays & disease of spine and pelvis	<ul style="list-style-type: none"> a) <i>Spine</i> <ul style="list-style-type: none"> - <i>Traumatic fractures</i> - <i>TB Spine (Infection)</i> - <i>Tumors</i> b) <i>Pelvis</i> <ul style="list-style-type: none"> - <i>Traumatic fractures</i> - <i>AVN Perthesis</i>
Examination – specimen	<ul style="list-style-type: none"> a) <i>GCT (Giant Cell Tumors)</i> b) <i>Enchondroma</i> c) <i>Osteochondroma – Osteosarcoma</i> d) <i>Ewing’s Sarcoma</i>

9th Semester Tutorial

Topic	Lesson Plan
X-rays & disease of upper limb	<ul style="list-style-type: none"> a) <i>Trauma / Fractures</i> b) <i>Tumors</i> c) <i>Infection / Osteomyelitis</i> d) <i>Primary & Secondary Arthritis</i>
X-rays & disease of lower limb	<ul style="list-style-type: none"> a) <i>Pelvic Fractures</i> b) <i>Femur / Tibia Fibula / Patella Fracture</i> c) <i>Ankle / Plafond Fractures</i> d) <i>Foot Fractures</i> e) <i>Osteomyelities in Proximal Tibia</i>

X-rays & disease of spine and pelvis	<ul style="list-style-type: none"> a) <i>Spine</i> <ul style="list-style-type: none"> - <i>Traumatic fractures</i> - <i>TB Spine (Infection)</i> - <i>Tumors</i> b) <i>Pelvis</i> <ul style="list-style-type: none"> - <i>Traumatic fractures</i> - <i>AVN Perthes</i>
X-rays of tumors	<ul style="list-style-type: none"> a) <i>GCT (Giant Cell Tumors)</i> b) <i>Enchondroma</i> c) <i>Osteochondroma – Osteosarcoma</i> d) <i>Ewing’s Sarcoma</i>
X-Ray of Infection	<ul style="list-style-type: none"> a) <i>Osteomyelitis</i> b) <i>TB- Spine</i> c) <i>TB Joints – Hip/Knee</i>
Examination Speciman	<ul style="list-style-type: none"> a) <i>GCT (Giant Cell Tumors)</i> b) <i>Enchondroma</i> c) <i>Osteochondroma – Osteosarcoma</i> d) <i>Ewing’s Sarcoma</i>
Examination – Implants	<ul style="list-style-type: none"> a) <i>Intramedullary Nails</i> b) <i>DHS</i> c) <i>Screw-Types</i> d) <i>Dynamic compression plates/LC-DCP</i> <i>K-wire</i>
Orthotics –Lower Limb	<ul style="list-style-type: none"> a) <i>Ankle Foot Orthosis</i> b) <i>Knee Orthosis</i>
Orthotics –Upper Limb	<ul style="list-style-type: none"> a) <i>Wrist Orthosis</i> b) <i>Hand Orthosis</i> c) <i>Finger Orthosis</i>
Elbow of Examination	<ul style="list-style-type: none"> a) <i>Inspection</i> b) <i>Palpation</i> c) <i>Range of Movements</i> d) <i>Special Test’s</i>
Hip of Examination	<ul style="list-style-type: none"> a) <i>Inspection</i> b) <i>Palpation</i> c) <i>Range of Movements</i> d) <i>Special Test’s</i>
Knee of Examination	<ul style="list-style-type: none"> a) <i>Inspection</i> b) <i>Palpation</i> c) <i>Range of Movements</i> d) <i>Special Test’s</i>
Spine of Examination	<ul style="list-style-type: none"> a) <i>Inspection</i> b) <i>Palpation</i> c) <i>Range of Movements</i> d) <i>Special Test’s</i>

Shoulder of Examination	<ul style="list-style-type: none"> <i>e) Inspection</i> <i>f) Palpation</i> <i>g) Range of Movements</i> <i>h) Special Test's</i>
Foot & Ankle (Anatomy , Biomechanics & Clinical examination)	<ul style="list-style-type: none"> <i>a) Anatomy</i> <i>b) Biomechanics</i> <i>c) Clinical Examination</i>
	<ul style="list-style-type: none"> - <i>Inspection</i> - <i>Palpation</i> - <i>Range of Movements</i> - <i>Special Test's</i>
Hand & wrist (deformity congenital, post-traumatic, post-infectious, recent advances, tumors)	<p><i>Deformity</i></p> <ul style="list-style-type: none"> - <i>Congenital</i> - <i>Post Traumatic</i> - <i>Post Infection</i> <p><i>Recent advances Tumors</i></p>
Splints commonly used in orthopaedics	<p><i>Foot Drop Splints Wrist Drop Splint Thumb Abduction Splints Wrist Splint Cock up Splint Hand Splints /Mallatle Finger Splint</i></p>
Role of mri, ct and usg in orthopaedics	<p><i>MRI</i></p> <ul style="list-style-type: none"> <i>a) Spine</i> <i>b) Joints</i> <i>c) Tumor</i> <p><i>sCT</i></p> <ul style="list-style-type: none"> <i>a) Intraarticular Fractures</i> <i>b) Use</i> <p><i>sUSG</i></p> <ul style="list-style-type: none"> <i>a) Principles of USG in Orthopaedics</i> <i>b) Shoulder Rotator Cuff Injuries</i> <i>c) Soft tissue swellings</i>

Back Pain – cause, Investigation & diagnosis	Back pain Management a) <i>Causes of Types of Back Pain</i> b) <i>Symptoms</i> c) <i>Investigations</i> d) <i>Treatment</i> - <i>Non surgical</i> - <i>Surgical Management</i>
Management of back pain	Back pain Management e) <i>Causes of Types of Back Pain</i> f) <i>Symptoms</i> g) <i>Investigations</i> h) <i>Treatment</i> - <i>Non surgical</i> - <i>Surgical Management</i>
AVN	a) <i>Defination</i> b) <i>Signs & Symptoms</i> c) <i>Classification</i> d) <i>Aaetiopathogeneses</i> e) <i>Diagnosis</i> f) <i>Treatment</i>
Perthe's disease	a) <i>Defination</i> b) <i>Signs & Symptoms</i> c) <i>Classification</i> d) <i>Aaetiopathogeneses</i> e) <i>Diagnosis</i> f) <i>Treatment</i>
Polio	a) <i>Defination</i> b) <i>Classification/ Types</i> c) <i>Symptoms & Signs</i> d) <i>Investigation</i> e) <i>Treatment</i>
CP	a) <i>Types</i> b) <i>Medical Management</i> c) <i>Surgical Management</i>

