

Dr. D.Y. PATIL VIDYAPEETH, PUNE

(Deemed to be University)

(Re-accredited by NAAC with a CGPA of 3.62 on a four point scale at 'A' Grade) (An ISO 9001 : 2015 Certified University)

Dr. A. N. Suryakar Registrar

> Ref. No. : DPU/875= vii/2019 Date : 11/09/2019

NOTIFICATION

Whereas in pursuance of the following decisions taken by the Board of Management, it is hereby notified to all concerned that the "Syllabus for III M.B.B.S. Part-I and Part II-2014-15" is revised upto July 2019 and hereby published.

- Changes in syllabus for UG and PG in General Medicine, Pulmonary Medicine and General Surgery vide Resolution No. BM-07-(iii)-4 dated 28th January, 2014.
- Updation in UG and PG syllabus of General Medicine, Obstetrics & Gynecology, Orthopedics, Anaesthesiology, ENT and Ophthalmology vide Resolution No. BM-04(i)-15, dated 31st March, 2015.
- Structure format for evolution of History taking for 3rd Semester in General Medicine vide Resolution No. BM-26(v)-15, dated 29th December, 2015.
- Replacement of the term "one line answer by one Sentence answer in the Clinical subjects" vide Resolution No. BM-26(ix)-15, dated 29th December, 2015
- Introduction of Bioethical aspects in various chapters of all subjects vide Resolution No. BM-26(xi)-15, dated 29th December, 2015
- Modifications in UG Syllabus of Psychiatry vide Resolution No. BM-17(ix)-16, dated 22nd September, 2016.
- Consideration of weightage to the journal marks in internal assessment of III MBBS Clinical Subjects as continuous day to day assessment vide Resolution No. BM-05(ii)-17, dated 7th April, 2017.
- Conduct of prelim exam of 3rd MBBS only after the end of clinical postings, vide Resolution No. BM-38(ix)-17, dated 27th December, 2017.
- Enhancement of UG syllabus of General Medicine subject vide Resolution No. BM-16(x)-18, dated 21st July, 2018.
- Conduct of P.B.L. classes in E-library in the Department of Paediatrics vide Resolution No.BM-35(ii)-18, dated 12th October, 2018.
- Graduate Attributes, Programme Outcomes (POs), Course Outcomes (Cos) and gap analysis for all courses of UG and PG Programmes for Para-Clinical and Surgical Subjects vide Resolution No. BM-10(vii)-19 dated, 12th April, 2019.
- Interdisciplinary subjects (for Surgical Subjects) of M.B.B.S, M.D./M.S. and Super-specialty (D.M./M.Ch.) Programs under the Faculty of Medicine vide Resolution No. BM-10(viii) dated 12th April, 2019.



Sant Tukaram Nagar, Pimpri, Pune - 411018, Maharashtra (India) Tel. : +91-20-27805000, 27805001 • Fax : +91-20-27420010 • Email : info@dpu.edu.in



MAPPING OF PROGRAMME OUTCOMES [POs] AND COURSE OUTCOMES [COs] OF MBBS PROGRAMMES

Course Code	Course Title
MB401	General Medicine & Allied
MB402	General Surgery & Allied
MB403	Obstetrics & Gynaecology
MB404	Paediatrics

General Surgery and allied: (MB 402)		
СО	At the end of the course, the learner should	Mapped
No.	be able to:	Programme
		Outcomes
402.1	Describe aetiology, pathophysiology,	PO1,PO2,
	principles of diagnosis and management of	PO4,PO5,
	common surgical problems including	PO7,PO9
	emergencies in adults and children.	
402.2	Define indications and methods for fluid and	PO1,PO2,
	electrolyte replacement therapy including	PO4,PO5,
	blood transfusion;	PO7, PO9
402.3	Define asepsis, disinfection and sterilization	PO1,PO2,PO3
	and recommend judicious use of antibiotics;	,PO4,PO5,
		PO6,PO7,PO9
402.4	Diagnose common surgical conditions both	PO1,PO2,
	acute and chronic, in adult and children	PO3,PO5,
		PO7, PO9
402.5	Plan various laboratory tests for surgical	PO1,PO2,
	conditions and interpret the results;	PO3,PO4,
		PO5,PO6,PO9
402.6	Identify and manage patients of hemorrhagic,	PO1,PO2,PO4
	septicaemic and other types of shock	,PO5 ,PO9
402.7	Be able to maintain patient air-way and	PO1,PO2,
	resuscitate any critically ill patient	PO3,PO5,
		PO6,PO7,PO9
402.8	Monitor patients of head, chest, spinal and	PO1,PO2,
	abdominal injuries, both in adults and children;	PO3,PO5,PO6
		,PO7,PO9
402.9	Acquire principles of operative surgery,	PO1,PO2,
	including pre-operative, operative and	PO3,PO5,
	postoperative care and monitoring.	PO6, PO9
402.1	Treat open wounds including preventive	PO1,PO2,
	measures against tetanus and gas gangrene;	PO5,PO6,
		PO7,PO8,PO9
402.11	Diagnose neonatal and pediatric surgical	PO1,PO2,PO3
	emergencies and provide sound primary care	,PO5,PO6,
	before referring the patient to secondary /	PO7,PO9
	tertiary centres;	
402.12	Recognize the importance of clinical	PO1,PO2,PO3
	Orthopaedics & diagnose and manage majority	,PO4,PO5,
	of the conditions in clinical Orthopaedics on the	PO6,PO7,
	basis of clinical assessment & investigations	PO8, PO9

General Surgery and allied: (MB 402)		
СО	At the end of the course, the learner should	Mapped
No.	be able to:	Programme
		Outcomes
401.13	Carry out Bag Mask Ventilation and Basic Life	PO1,PO2,PO3
	Support(COLS)	,PO5,PO6,
		PO7,PO9
401.14	At the end of the course student should know	PO1,PO2,PO3
	basic principles of various imaging modalities	,PO4,PO5,
	to diagnose various diseases and basic	PO7,PO8,PO9
	principles of recent advances	



ORTHOPEDICS

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. Objectives:-

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 and 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 and diseases.
- 2. In Clinical posting, they are trained to examination various orthopaedic conditions involving bones and joints by taking history, clinical examination and relevant investigations
- 3. Evaluation done by post-term completion examination.

3. Integration:-

- 1. Lectures for 6, 7, 8, 9 semesters
- 2. Revision lectures for 9 semester
- 3. Tutorials for 8, 9 semesters
- 4. Bed side for clinics for 5,6,7,8,9 semester followed by term end exam

4. Learning Methods:-

Lectures, Tutorials bedside clinics Distribution of Teaching hours- \Box Lectures – 50 hours

 \Box *Tutorials and revision* – 50

 $\Box \quad fuidhais and revision = 50$

□ Clinical postings in Orthopaedics

Total clinical Posting of 07 weeks of 153 hours

5th Semester – 2 weeks 6th Semester – 2 weeks 9th Semester – 3 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 is given separately below after distribution as per semester

- 6th Semester Lectures 1 to 16
- 7th Semester Lectures 17 to 31
- 8th Semester Lectures 1 32 to 46
- 8th Semester Lectures 2 47 to 61
- 9th Semester Revision Lect. 62 to 72
- 8th Semester Tutorial 73 to 93
- 9th Semester Tutorial 94 to 117

5. Syllabus:-

TOPIC: GENERAL ORTHOPAEDICS

Lectures

- 1. Introduction and scope of Orthopaedics Traumatology and Orthopaedic Diseases. Idea about Scheme of Examination.
- 2. Defination 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.
- 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 Osteoarthrosis 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 humours.
- 2. Supracondylar fracture humerus with complications
- 3. Fracture Forearm bones, Monteggia and Galeassi 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 Imperfecia spina Bifida and Torticollis
- 3. Osteochondritis various types
- 4. Post Polio Residual Palsy with stress on preventive and rehabilitation aspect.
- 5. Acute Osteomyelitis.
- 6. Chromic Osteomyelitis
- 7. Pyogenis 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, Glant cell tumour Unicameral Bone cyst, Aneurysmal cyst, Aneurysmal cyst.
- 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 fascitis.

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

Торіс	Lesson Plan
Basic of fractures Polytrauma	a) Introduction
	b) Local examination
	c) Classification
	d) Diagnosis
	a) Defination
	b) management
Principles of fracture management.	a) Conservative
	b) Operative
Stages of fracture healding	a) Cortical bonehealing
	b) Cancellous bone healing
Complications of fractures	a) Immediate
	b) Early
	c) late
Injuries to nerves, tendons muscles	Injuries to nerves, tendons,
ligaments	muscles ligaments
Plaster technique, plaster	Plaster technique ,plaster
complications and plaster diseases	complications and plaster disease
Fractures of carpels, metacarpels,	a) classification
phalanges	b) treatment
Fracture of both bones forearm	a) signs symptoms
Monteggia and galleazzi fracture	b) treatement
Diseases	
Injuries around the elbow	a) Dislocations elbow
	b) Fracture olecrenon
	a) Classification
	b) Signs and symptoms
	c) Treatement
	c) Fracture radial head
	d) Classification
	e) Signs and symptoms
	f) Treatement
Fractures of the distel humerus	a) Supra condylar fractures of
	the humerus
	a) Classification
	b) Signs and symptoms
	c) Closed treatement
	d) Operative treatement
	e) Complications
	b) Condylar fractures

6th Semester Lectures

Emotymes of elevicel and	a) Closed treatement
Fractures of clavical and	a) Closed treatement
Acromioclavicular joint	b) Operative treatment
Fractures of proximal humerus and	a) Classification
shaft	b) Signs and symptoms
	c) Treatement
Dislocation Shoulder	d) Classification
	e) Signs and symptoms
	f) Treatement
Fractures of the foot	1. Fracture talus and calcaneum
	a) Classification
	b) Signs and symptoms
	c) Treatement
	2. Metatarsal and phalanx
	fractures
Ankle Fractures	a) Classification
	b) Signs and symptoms
	c) Radiological features
	d) treatement
Fractures of the tibial shaft and fibula	a) classification
	b) signs and symptoms
	c) treatement
Fractures of the proximal tibia	a) classification
_	b) signs and symptoms
	c) treatement
Fractures of patella	a) classification
-	b) signs and symptoms
	c) treatment

Торіс	Lesson Plan
Fracture olecrenon	Aim is to achieve early diagnosis to institute
a) Classification	early proper treatment & rehabilitation for full
b) Signs and symptoms	functionally recovery & early return to work
c) Treatment	
d) Operative Treatment	
e) Complication	
Ankle fractures	Aim is to achieve early diagnosis to institute
a) Classification	early proper treatment & rehabilitation for full
b) Signs and symptoms	functionally recovery & early return to work
investigation	
c) Closed treatment	
d) Operative treatment	
e) Complication	
Fracture radial head	Aim is to achieve early diagnosis to institute
a) Classification	early proper treatment & rehabilitation for full
b) Signs and symptoms	functionally recovery & early return to work
c) Treatment	
Fractures of the tibial	Aim is to achieve early diagnosis to institute
shaft and fibula	early proper treatment & rehabilitation for full
a) Classification	functionally recovery & early return to work
b) Signs and symptoms	
investigation	
c) Closed treatment	
d) Operative treatment	
e) Complication	
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	Aim is to achieve early diagnosis to institute
a) Classification	early proper treatment & rehabilitation for full
b) Signs and symptoms	functionally recovery & early return to work
investigation	
c) Closed treatment	
d) Operative treatment	
e) Complication	
Supracondylar fractures	Aim is to achieve early diagnosis to institute
of the humerus	early proper treatment & rehabilitation for full
a) Classification	functionally recovery & early return to work
b) Signs and symptoms	
investigation	

7th Semester Lectures

Торіс	Lesson Plan
c) Closed treatment	
d) Operative treatment	
e) Complication	
Fractures of the proximal	Aim is to achieve early diagnosis to institute
tibia	early proper treatment & rehabilitation for full
a) Classification	functionally recovery & early return to work
b) Signs and symptoms	
investigation	
c) Closed treatment	
d) Operative treatment	
e) Complication	
Fractures of the clavicle	Aim is to achieve early diagnosis to institute
a) Classification	early proper treatment & rehabilitation for full
b) Signs and symptoms	functionally recovery & early return to work
investigation	
c) Closed treatment	
d) Operative treatment	
e) Complication	
Supracondylar fractures	Aim is to achieve early diagnosis to institute
of femur	early proper treatment & rehabilitation for full
a) Classification	functionally recovery & early return to work
b) Signs and symptoms	
investigation	
c) Closed treatment	
d) Operative treatment	
e) Complication	
Fractures proximal	Aim is to achieve early diagnosis to institute
humerus and shaft	early proper treatment & rehabilitation for full
a) Classification	functionally recovery & early return to work
b) Signs and symptoms	
investigation	
c) Closed treatment	
d) Operative treatment	
e) Complication	
Fractures of the femoral	Aim is to achieve early diagnosis to institute
shaft	early proper treatment & rehabilitation for full
a) Classification	functionally recovery & early return to work
b) Signs and symptoms	
investigation	
c) Closed treatment	
d) Operative treatment	

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

Торіс	Lesson Plan
Superacondylar Fractures of the	1) Classification
Femur.	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
En store No. 1- Es mar	
Fracture Neck Femur.	a) Classification
	b) Signs and symptoms
	d) Trastment
Dislanation of his isint	a) Classification
Dislocation of htp joint	a) Classification b) Signs and symptoms
	a) Padiological features
	d) Treatment
A cotabular fracture	a) Anatomy
fracture Polvis	b) Classification according to mode
	of injuries
	c) Signs and symptoms with
	associated injuries
	d) Radiological features
	e) Treatment
	f) Complication

8th Semester Lectures (01)

Injuries to the spine	a) Anatomy
J	b) Classification
	c) Signs & symptoms
	d) Treatment & Complication
Fracture s Pelvis	a) Classification
	b) Signs of Symptoms
	c) Radiological features
	d) Treatment & Complication
Introduction of peripheral	a) Anatomy
nerve injury	b) Types classification of Nerve
	injuries
	(Sedden-Sunderland
	Classification)
	c) Signs & Symptoms
	d) Nerve Conduction Studies
	i) EMG
	ii) NCV
	e) Treatment and Complications
Brachial Plexus injury	a) Anantomy – Classification /
Brachial Plexus injury	a) Anantomy – Classification / Types of Injuries
Brachial Plexus injury	 a) Anantomy – Classification / Types of Injuries b) Signs and Symptoms
Brachial Plexus injury	 a) Anantomy – Classification / Types of Injuries b) Signs and Symptoms c) Treatment
Brachial Plexus injury Peripherial nerve injury cont	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Multi
Brachial Plexus injury Peripherial nerve injury cont	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Median nerve
Brachial Plexus injury Peripherial nerve injury cont	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Median nerve c) Radial nerve
Brachial Plexus injury Peripherial nerve injury cont	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Median nerve c) Radial nerve d) Lateral popliteal nerve
Brachial Plexus injury Peripherial nerve injury cont	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Median nerve c) Radial nerve d) Lateral popliteal nerve e) Sciatic nerve
Brachial Plexus injury Peripherial nerve injury cont Amputation.	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Median nerve c) Radial nerve d) Lateral popliteal nerve e) Sciatic nerve a) Defination
Brachial Plexus injury Peripherial nerve injury cont Amputation.	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Median nerve c) Radial nerve d) Lateral popliteal nerve e) Sciatic nerve a) Defination b) Types and level
Brachial Plexus injury Peripherial nerve injury cont Amputation.	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Median nerve c) Radial nerve d) Lateral popliteal nerve e) Sciatic nerve a) Defination b) Types and level c) Complications b) Definition
Brachial Plexus injury Peripherial nerve injury cont Amputation.	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Median nerve c) Radial nerve d) Lateral popliteal nerve e) Sciatic nerve a) Defination b) Types and level c) Complications d) Rehabilitation
Brachial Plexus injury Peripherial nerve injury cont Amputation. Osteomyelitis	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Median nerve c) Radial nerve d) Lateral popliteal nerve e) Sciatic nerve a) Defination b) Types and level c) Complications d) Rehabilitation a) Defination
Brachial Plexus injury Peripherial nerve injury cont Amputation. Osteomyelitis	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Median nerve c) Radial nerve d) Lateral popliteal nerve e) Sciatic nerve a) Defination b) Types and level c) Complications d) Rehabilitation a) Defination b) Types
Brachial Plexus injury Peripherial nerve injury cont Amputation. Osteomyelitis	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Median nerve c) Radial nerve d) Lateral popliteal nerve e) Sciatic nerve a) Defination b) Types and level c) Complications d) Rehabilitation a) Defination b) Types c) Clinical and radiological features
Brachial Plexus injury Peripherial nerve injury cont Amputation. Osteomyelitis	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Median nerve c) Radial nerve d) Lateral popliteal nerve e) Sciatic nerve a) Defination b) Types and level c) Complications d) Rehabilitation a) Defination b) Types c) Clinical and radiological features d) treatment
Brachial Plexus injury Peripherial nerve injury cont Amputation. Osteomyelitis Septic arthritis	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Median nerve c) Radial nerve d) Lateral popliteal nerve e) Sciatic nerve a) Defination b) Types and level c) Complications d) Rehabilitation a) Defination b) Types c) Clinical and radiological features d) treatment a) Clinical Features
Brachial Plexus injury Peripherial nerve injury cont Amputation. Osteomyelitis Septic arthritis	 a) Anantomy - Classification / Types of Injuries b) Signs and Symptoms c) Treatment a) Ulnar nerve b) Median nerve c) Radial nerve d) Lateral popliteal nerve e) Sciatic nerve a) Defination b) Types and level c) Complications d) Rehabilitation a) Defination b) Types c) Clinical and radiological features d) treatment a) Clinical Features b) Investigations

Tuberculosis of joint	a) Hip joint
5	b) Knee joint
	c) Shoulder joint
	d) Treatment
Tuberculosis of spine	a) Clinical Features
-	b) Investigations
	c) Treatment
Regional examination of foot	a) History
and and ankle	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)

Торіс	Lesson Plan
Congential anomalies	a) CTEV
-	b) CVT
	c) Osteogenesis imperfect
	d) Spine bifida
	e) Torticolis
	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) Defination
	b) Classification

Торіс	Lesson Plan
	c) Signs & symptoms
	d) Diagnosis
	e) Treatment
Malignant and metastatic	a) Defination
tumors	b) Classification
	c) Signs & symptoms
	d) Diagnosis
	e) Treatment
Arthritis	a) Osteoarthritis
	b) Rheaumatoid arthritis
	c) Crystal arthritis
	d) Alkeptonuric arthritis
	e) Haemophilic arthritis
Arthritis	a) Osteoarthritis
	b) Rheaumatoid arthritis
	c) Crystal arthritis
	d) Malkeptonuric arthritis
	e) Haemophilic arthritis
Miscellaneous topic	a) Dequervien's disease
i i i i i i i i i i i i i i i i i i i	b) Dupuyterens contracture
	c) Frozen shoulder
	d) Ossgood schlatter's disease
	e) OCD
	f) Plantar fasciitis
	g) Tennis elbow
Miscellaneous topic	a) Dequervien's disease
	b) Dupuyterens contracture
	c) Frozen shoulder
	d) Ossgood schlatter's disease
	e) OCD
	f) Plantar fasciitis
	g) Tennis elbow
Polimyelitis	a) Defination
	b) Classification/ Types
	c) Symptoms & Signs
	d) Investigation
	e) Treatment
Cerebral palsy	a) Types
	b) Medical Management
	c) Surgical Management

Торіс	Lesson Plan
Leprosy and Fungal infection	a) Clinical features
	b) Investigations
	c) Treatement
Examination of upper limb-	a) History taking
hand, wrist and forearm	b) General examination
	c) Inspection
	d) palpation
Examination of shoulder joint	a) History taking
and elbow joint	b) General examination
	c) Inspection
	d) palpation
Regional examination of spine	a) History taking
	b) General examination
	c) Inspection
	d) palpation

9th Semester Revision Lectures

Торіс	Lesson Plan
Fractures around wrist & hand	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	1) Carpel tunnel Syndrome,
end radius	2) Sudeck's osteodyystrophy
Fractures of fracture dislocation	3) Galeazzi Fracture Dislocation
end radius	4) Monteggia fracture
	Dislocatipon
	5) Supracondylar fracture
	Humers
	6) Lateral condylar fracture
	7) Olecranon Fracture
	8) Radial head Fracture
	9) Dislocation of elbow
Complication of Supracondylar	1) Cubitus varus
fracture of humorous	2) Myositis ossification
	3) Volkmann,s ischaemic
	contracture

Торіс	Lesson Plan
	4) Acromio clavicular joint
	dislocation
Fractures around shoulder joint	1) Proximal humorous
	2) Dislocation Of Shoulder
	3) Fracture Of clavicle
	4) Acromio clavicular joint
	dislocation
Fractures around Hip	1) Dislocation of Hip
	2) Fracture Neck Femur
Fracture Of Spine	1) Fracture of Cervical Spine
_	2) Fracture of Dorsolumbar spine
Case presentation	Tumors of Bones
Fractures of femur around knee	1) Fracture femur
	2) Fracture of surfaces around knee
Fractures of Tibia	Fractures of Tibia
Fractures around ankle & foot	1) Bimalleolar fracture, ankle
	dislocation
	2) Fracture & Dislocation of foot

8th Semester Tutorial

Торіс	Lesson Plan
Tuberculosis (Seminar)	a) Introduction Bone TB
	b) Common Sites of Bone TB
	c) Classification
Case taking general	a) Basic Data Collection
	b) Chief Complaint
	c) Present History
	d) Personal History
	e) Family History
Tuberculosis (Seminar)	a) Investigation
	b) Management of Complications
First aid and advance trauma Life	a) Introduction
saving (ATLS) measures	b) Primary Survey
(Seminar)	A- Airway
	B- Breathing
	C- Circulation
	D- Disability
	E- Exposure
	c) Secondary Survey
	d) Technically Survey
	e) History of ATLS

V CI 1'1 (
X-rays of Lower limb, trauma,	a) Pelvic Fractures
infection	b) Femur/Tibia Fibula/Patella
	Fracture
	c) Ankle /Plafond Fractures
	d) Foot Fractures
	e) Osteomyelities in Proximal
	Tibia
Bone tumors (Seminar)	a) Defination
	b) Classification
	- Benign
	- Malignant
	c) Signs and Symptoms
	d) Treatment
	- Non Surgical
	- Surgical
Examination – implants	a) Intramedulary Nails
Examination implants	b) DHS
	c) Scraw-Twngs
	d) Dunamia compression plates /
	<i>a) Dynamic compression plates /</i>
	LC-DCI
	e) R-wire
Case taking general	a) Basic Data Collection
	b) Chief Complaint
	c) Present History
	d) Personal History
	e) Family History
Case taking diseases	Shorts
	a) Arthritis
	b) Infection
	c) Deformities
	- Congenital
	- Acquired
X-rays of upper limb, trauma,	a) Shoulder girdle fractures
infection	b) Humerus / Elbow / Forearm
	Fractures
	c) Wrist and Hand Fractures
	d) Osteomyelitis in Long Bones
X-rays, specimen of tumors	a) GCT (Giant Cell Tumors)
	b) Enchondrama
	c) Osteochandrama –
	Osteosarcoma
	d) Ewing's Sarcoma

	•
X-rays & disease of spine and	a) Spine
pelvis	- Traumatic fractures
•	- TB Spine (Infection)
	- Tumors
	b) Pelvis
	- Traumatic fractures
	- AVN Perthesis
Osteomyelitis (Seminar)	a) Overview / Defination
Osteomyenus (Seminar)	b) Classification/Types
	b) Classification/ Types
	c) Signs & Symptoms
	a) Investigation
	e) Treatment
	- Nonsurgical
	- Surgical
	f) Complication
X-rays disease of upper limb	a) Trauma/Fractures
	b) Tumors
	c) Infection/Osteomyelitis
	d) Primary & Secondary Arthritis
Exam of Ortho case presentation	Joints
_	a) Inspection
	b) Palpation
	c) Range of Movements
	d) Special Test's
Examination – specimen	a) GCT (Giant Cell Tumors)
1	b) Enchondrama
	c) Osteochandrama –
	Osteosarcoma
	d) Ewing's Sarcoma
Examination - Orthosis	a) Defination
	b) Ankle foot Orthosis
	(lower limb)
	c) Knee Orthosis
	d) Wrist / Flbow Orthosis
	(Unner Limb)
	(Upper Limb)
Case taling transmis	e) Finger Ormosis
Case taking trauma	a) Basic Data Collection
	b) Chief Complaint
	c) Present History
	d) Personal History
	e) Family History

X-rays & disease of upper limb	 a) Trauma / Fractures b) Tumors c) Infection / Osteomyelitis d) Primary and Secondary Arthritis
X-rays & disease of spine and pelvis	a) Spine - Traumatic fractures - TB Spine (Infection) - Tumors b) Pelvis - Traumatic fractures - AVN Perthesis
Examination – specimen	 a) GCT (Giant Cell Tumors) b) Enchondrama c) Osteochandrama – Osteosarcoma d) Ewing's Sarcoma

9th Semester Tutorial

Торіс	Lesson Plan
X-rays & disease of upper limb	a) Trauma / Fractures
	b) Tumors
	c) Infection / Osteomyelitis
	d) Primary & Secondary Arthritis
X-rays & disease of lower limb	a) Pelvic Fractures
	b) Femur / Tibia Fibula / Patella
	Fracture
	c) Ankle / Plafond Fractures
	d) Foot Fractures
	e) Osteomyelities in Proximal
	Tibia
X-rays & disease of spine and	a) Spine
pelvis	- Traumatic fractures
	- TB Spine (Infection)
	- Tumors
	b) Pelvis
	- Traumatic fractures
	- AVN Perthesis
X-rays of tumors	a) GCT (Giant Cell Tumors)
_	b) Enchondrama
	c) Osteochandrama – Osteosarcom
	d) Ewing's Sarcoma

X-Ray of Infection	a) Osteomyelitis
	b) TB- Spine
	c) TB Joints – Hip/Knee
Examination Speciman	a) GCT (Giant Cell Tumors)
	b) Enchondrama
	c) Osteochandrama –
	Osteosarcoma
	d) Ewing's Sarcoma
Examination – Implants	a) Intramedulary Nails
	b) DHS
	c) Screw-Types
	d) Dynamic compression plates/
	LC-DCP
	K-wire
Orthotics –Lower Limb	a) Ankle Foot Orthosis
	b) Knee Orthosis
Orthotics – Upper Limb	a) Wrist Orthosis
	b) Hand Orthosis
	c) Finger Orthosis
Elbow of Examination	a) Inspection
	b) Palpation
	c) Range of Movements
	d) Special Test's
Hip of Examination	a) Inspection
	h) Palpation
	c) Range of Movements
	d) Special Test's
Knee of Examination	a) Inspection
	h) Palpation
	c) Range of Movements
	d) Special Test's
Spine of Examination	a) Inspection
Spine of Examination	h) Palpation
	c) Range of Movements
	d) Special Test's
Shoulder of Examination	a) Inspection
Shoulder of Examination	e) Inspection f) Palnation
	a) Panas of Movements
	 g) Kunge of Movements h) Spacial Tast's
East & Aphla (Aratamy	n) Special Test s
Piour & Ankie (Anatomy,	a) Anatomy
Biomechanics & Clinical	<i>b)</i> Biomechanics
examination)	c) Clinical Examination

	- Inspection
	- Palnation
	- I alpanon Range of Movements
	- Range of Movements Spacial Tast's
	- Special Test s
Hand & wrist (deformity	Deformity
congenital, post-traumatic, post-	- Congenital
infectious, recent advances,	- Post Traumatic
tumors)	- Post Infection
	Recent advances
	Tumors
Splints commonly used in	Foot Drop Splints
orthopaedics	Wrist Drop Splint
L.	Thumb Abduction Splints
	Wrist Splint
	Cock up Splint
	Hand Splints /Mallatle Finger
	Solint
Pole of mri et and use in	MRI
orthopaedies	a) Spine
ormopaedics	a) Spine b) Lointa
	b) Joinis
	c) Iumors
	a) Intraarticular Fractures
	b) Uses
	USG
	a) Principles of USG in
	Orthopaedics
	b) Shoulder Rotator Cuff Injuries
	c) Soft tissue swellings
Back Pain – cause, Investigation &	Back pain Management
diagnosis	a) Causes of Types of Back Pain
	b) Symptoms
	c) Investigations
	d) Treatment
	- Non surgical
	- Surgical Management
Management of back pain	Back pain Management
interregentent of ouer puin	e) Causes of Types of Rack Pain
	f) Symptoms
	a) Investigations
	b) Treatment
	n) Treumeni
	- Non surgical

	- Surgical Management
AVN	 a) Defination b) Signs & Symptoms c) Classification d) Aaetiopathogeneses e) Diagnosis f) Treatment
Perthe's disease	a) Defination b) Signs & Symptoms c) Classification d) Aaetiopathogeneses e) Diagnosis f) Treatment
Polio	a) Defination b) Classification/ Types c) Symptoms & Signs d) Investigation e) Treatment
СР	 a) Types b) Medical Management c) Surgical Management

7. Evaluation Methods –

7.1 Internal assessment: Total 40 Marks (Practical 40 Marks)7.2 Internal Assessment in Practical 40 Marks

8. Pattern of final Examination	
One line Answer Question	1x5=05 Marks
Short notes	4x2=08 Marks
Long Question	1x9=09 Marks

9. Books Recommended

9.1 Text books:

- 1. Essential orthopedics J Maheshwari
- 2. Textbook Of Orthopedics With Clinical Examination Methods In Orthopedics John ebnezar
- 3. Textbook of surgery S. Das

9.2 Reference Books:

- 4. Campbell operative orthopedics
- 5. Rock wood & Green Trauma,
- 6. Tureks Orthopedics,
- 7. Macray Clinical examination