

BACHELOR OF PHYSIOTHERAPY
PAPER CODE – 03060601
GENERAL MEDICINE WITH GERIATRICS-II (THEORY)

Periods/Week Credits

T: 4 4

TEACHING HOURS: 64

MAX.

MARKS: 100

INTERNAL: 40

EXTERNAL: 60

TIME: 3 Hrs

BACHELOR OF PHYSIOTHERAPY
PAPER CODE – 03060601
GENERAL MEDICINE WITH GERIATRICS-II (PRACTICAL)

Periods/Week Credits

P: 4 2

TEACHING HOURS: 64

MAX.

MARKS: 50

INTERNAL: 20

EXTERNAL: 30

Course Description:

It covers relevant aspects of General Medicine and Geriatrics conditions in which Physiotherapy play a significant role

Course Objectives:

The objective of this course is that after 128 hours of lectures, demonstrations, in addition to clinics the student will be able to demonstrate a general understanding of the diseases that therapists would encounter in their practice. They should have a brief idea of the etiology and pathology, what the patient's symptoms and the resultant functional disability. This would help the candidates to understand the limitation imposed by the diseases on any therapy that may be prescribed.

This course is to design to make the students to understand the medical issues which impose various limitations in geriatric populations

Course Outcomes:

- A. To understand the patho physiological changes in GIT conditions with their treatment.
- B. To understand the patho physiological changes in Endocrinal problems with their treatment.

- C. To understand the patho physiological changes in Kidney conditions with their treatment.
- D. To understand the patho physiological changes in dermatological conditions with their treatment.
- E. To understand the patho physiological changes in Psychiatric issues with their treatment.
- F. To understand the various special therapies used in Medicine.
- G. To understand the common condition affecting the geriatric population and strategies to correct them

Date	Theme/ Topic	Duration	Learning Experiences & Learning Resources	Learning Objectives
	Diseases of Gastrointestinal System:	16 hrs	SIS Visit to IPD and OPD for case discussion Davidson principle and practice of medicine. Clinical methods of medicine by Hutchinson	Describe the etiology, classification, symptoms & management of diseases of Gastrointestinal System Explain Peptic Ulcer, Hematemesis, dyspepsia, diarrhea, mal-absorption syndrome, Describe the Diseases of liver, Jaundice, viral hepatitis, cirrhosis of liver, ascities.
	Diseases of Kidney	8 hrs	SIS Visit to IPD and OPD for case discussion Davidson principle and practice of medicine.	Describe the etiology, classification, symptoms & management of Diseases of Kidney Explain Post streptococcal glomerulonephritis, Nephritic syndrome, urinary tract infection. Urinary calculi, Chronic renal failure
	Diseases of Endocrine system	10 hrs	SIS Visit to IPD and OPD for case discussion Davidson principle and practice of medicine.	Describe the etiology, classification, symptoms & management of Diseases of Endocrine system Explain Hypothyroidism, Hyperthyroidism, Addison's diseases, Cushing's syndrome
	Dermatological condition	16 hrs	SIS Visit to IPD and OPD for case discussion Skin problems by Dr JS	Describe the etiology, classification, symptoms & management of Dermatological condition Explain Structure and function of

			Pasricha	<p>normal skin</p> <p>Explain Primary and Secondary lesion</p> <p>Pediculosis.</p> <p>Describe Fungal infection: Dermatophytosis, Pityriasis vesicular, Candidacies.</p> <p>Discuss Bacterial infection of the skin: impetigo & boil.</p> <p>Explain Viral infections: Herpes.</p> <p>Describe Eczema, Dermatitis & allergies.</p> <p>Discuss Acne, Alopecia, Vitiligo, leukoderma, Psoriasis, Leprosy.</p> <p>Explain Sexual Transmitted diseases & venereal Diseases- Syphilis, Gonorrhea, HIV.</p>
	Psychiatric disorder	10 hrs	<p>SIS</p> <p>Visit to IPD and OPD for case discussion</p> <p>Psychiatry by Kaplans</p>	<p>Describe the outline of psychiatric disorder</p> <p>Explain sign & symptoms, types of mental disorders psychosomatic complication</p>
	Miscellaneous Disorders.	16 hrs	<p>SIS</p> <p>Visit to IPD and OPD for case discussion</p> <p>Psychiatry by Kaplans</p>	<p>Describe the etiology, classification, symptoms & management of Miscellaneous Disorders</p> <p>Explain Psychosis, schizophrenia, delusional disorders, acute and transient psychotic disorders</p> <p>Describe Affective disorders: depression, disorders, mania, bipolar affective disorders.</p> <p>Explain Anxiety disorders: Agoraphobia, panic disorder, Generalized anxiety disorders</p> <p>Discuss Dissociative disorders: somatoform disorders, OCD</p> <p>Describe Organic conditions- dementia, delirium, traumatic</p>
	Special therapies:	12 hrs	<p>SIS</p> <p>Visit to IPD and OPD for case discussion</p> <p>Psychiatry by Kaplans</p>	<p>Explain Psychotherapy - psychoanalysis, narco, synerthesis, hypnosis, psychodrama.</p> <p>Group therapy.</p>

				Shock therapy
Introduction to ageing	8 hrs	SIS Chart & Models Students Seminar Geriatric Physical Therapy – Gucciona-Mosby	Understand the ageing process. Explain ageing process-Loss of sense, effect on skeletal system, altered homeostasis and how these may affect pathological process	
Adopting healthy lifestyle measures.	12 hrs	SIS Chart & Models Students Seminar Geriatric Physical Therapy – Gucciona-Mosby	Know How to make life active in old age Explain modifying risk factors which may cause other health problems: like treating hypertension, hypercholesterolemia to prevent stroke & MI.	
Preventing fall injury.	12 hrs	SIS Chart & Models Students Seminar Geriatric Physical Therapy – Gucciona-Mosby	Learn about the causes of frequent falls. Explain common fractures associated with fall, risk factors & Management of fractures.	
Common ageing conditions.	12 hrs	SIS Chart & Models Geriatric Physical Therapy – Gucciona-Mosby Aging the healthcare Challenge – Levis- F A Davis.	Learn about the Aetiopathogenesis, clinical presentations, investigations and management of Stroke and Incontinence.	
Bed sore care.	8 hrs	SIS Chart & Models Students Seminar Geriatric Physical Therapy – Gucciona-Mosby	Discuss Palliative care, prevention, causes & management of bed sores in old age	
Common Elderly conditions.	20 hrs	SIS Chart & Models Students Seminar Geriatric Physical Therapy – Gucciona-Mosby Aging the healthcare Challenge – Levis- F A Davis.	Explain Brief outline of the aetiology pathology, clinical presentation and management of the old age diseases. Discuss Depression, Parkinsonism, COPD, IHD & CCF, Rheumatoid arthritis, Osteoarthritis, Osteoporosis Diabetes mellitus.	
Examination	8 hrs	SIS Chart & Models Geriatric Physical Therapy – Gucciona-Mosby Aging the healthcare Challenge – Levis- F A Davis.	Discuss the Examination and Investigations in older person Explain Mini mental state examination. Geriatric depression scale	

BACHELOR OF PHYSIOTHERAPY
PAPER CODE – 03060602
GENERAL SURGERY WITH ENT & OPHTHALMOLOGY-II (THEORY)

Periods/Week Credits

T: 4 4

TEACHING HOURS: 64

MAX.

MARKS: 100

INTERNAL: 40

EXTERNAL: 60

TIME: 3 Hrs

BACHELOR OF PHYSIOTHERAPY
PAPER CODE – 03060602
GENERAL SURGERY WITH ENT & OPHTHALMOLOGY-II (SURGERY)-PRACTICAL

Periods/Week Credits

P: 4 2

TEACHING HOURS: 64

MAX.

MARKS: 50

INTERNAL: 20

EXTERNAL: 30

TIME: 3 Hrs

Course Description:

This course is designed to develop the basic science subjects which will help to provide the basic knowledge about relevant aspects of General Surgery. This will help student gain better understanding of various surgical conditions a therapist encounters during their practice. It will help them understand common surgical conditions and procedures so that implication of rehabilitation to surgical patients become easy.

This course is designed to develop the basic knowledge of ear, nose and throat related diseases . It also deals with basic clinical aspects of eye related diseases.

Course Objectives:

The objective of this course is that after 128 hours of lectures, demonstrations, in addition to clinics the student will be able to demonstrate a general understanding of the surgical procedures that therapists would encounter in their practice. They should have a brief idea of the surgical procedures, what the patient's symptoms and the resultant functional disability. This would help the candidates to understand the limitation imposed by the diseases on any therapy that may be prescribed.

They should have overview of Pathology of various diseases of the larynx and throat, trachea bronchial tree and their causative organisms.

They should have a brief idea of the surgical procedures, what the patient's symptoms and the resultant functional disability.

This would help the candidates to understand the limitation imposed by the diseases on any therapy that may be prescribed.

They should Plan rehabilitation of patients suffering from ocular illness and handicap, and those with special needs

Course Outcomes:

1. List the indications for surgery, etiology, clinical features and surgical methods for various conditions.
2. Plan a better rehabilitation care for the patients pre and post surgically
3. Clinical decision making ability & management expertise
4. Diagnose conditions from history taking clinical evaluation and investigations in ENT and ophthalmology conditions

Date	Theme/ Topic	Duration	Learning Experiences & Learning Resources	Learning Objectives
	Abdominal Surgery	16 hrs	SIS Visit to IPD and OPD for case discussion Textbook of Surgery: Bailey & Love Textbook of Surgery: S Das	Describe the Abdominal surgical incisions & their uses Explain Indications, incisions, drainage and complications and management of various surgeries (Laprosopic & Open Surgeries)
	Neuro- Surgery	20 hrs	SIS Visit to IPD and OPD for case discussion Textbook of Surgery: Bailey & Love Textbook of Surgery: S Das	Describe the indications, incisions, drainage & complications and Management about various surgeries of: Surgeries of cranium, scalp & brain, Surgeries of vertebral column & spinal cord and Surgeries of peripheral nerves. Explain Surgical interventions in hydrocephalus, Head injury, Benign

				& malignant tumors of brain and other congenital anomalies of brain
Burns & Plastic Surgery	16 hrs	SIS Visit to IPD and OPD for case discussion Textbook of Surgery: Bailey & Love Textbook of Surgery: S Das Physical Rehabilitation: O' Sullivan		Classify burns by depth and surface area Calculate percentage of burn by surface area Identify the causes, early & late complications and management of burn List the potential deformities due to burns Explain methods of prevention and precautions Mention cosmetics and functional treatment Discuss the Outline of plastic surgery procedures and management in burns, including common deformities and prevention of burns contractures Describe the Skin grafting & other procedures Explain Principles of tendon transplant, cosmetic surgeries, types of grafts & surgeries of hands
Breast Surgery	10 hrs	SIS Visit to IPD and OPD for case discussion Textbook of Surgery: S Das		Describe the Indications, Different incisions & post operative management of breast surgeries
Small And Large Intestine	10 hrs	SIS Visit to IPD and OPD for case discussion Textbook of Surgery: S Das		Describe the incision and surgical procedures of small and large intestine
Rectum and Anal canal surgeries	4 hrs	SIS Textbook of Surgery: Bailey & Love Textbook of Surgery: S Das		Describe anal fissure, fistula, hemorrhoids, carcinoma and rectal prolapse
Urogenital system	4 hrs	SIS Textbook of Surgery: S Das		Describe renal calculi with complications, urinary obstruction
Acute Rhino sinusitis and Chronic sinusitis.	4 hrs	Student Interactive Session ENT-P.L. Dhingra		Learn about acute and chronic sinusitis with its management. Discuss Clinical presentation, pathology, complications and treatment of sinusitis
Otitis Media	4 hrs	Student Interactive Session ENT-P.L. Dhingra		Describe about otitis media, pathology, classification, its clinical presentation and management.

Otosclerosis	4 hr	Student Interactive Session ENT-P.L. Dhingra	Discuss about otosclerosis , its clinical presentation and management
Hearing Loss	4 hrs	Student Interactive Session ENT-P.L. Dhingra	Describe about hearing loss & methods to detect hearing loss, presbycusis Discuss about hearing aids
Audiology	4 hr	Student Interactive Session ENT-P.L. Dhingra	Describe Pure tone audiometry, Impedance audiometry Discuss the types of speech, speech defects
Anatomy of throat	4 hrs	Student Interactive Session ENT-P.L. Dhingra	Discuss about the oral anatomy & larynx Explain swallowing disorder Discuss post laryngectomy
Examination of Eye	4 hrs	Student Interactive Session Ophthalmology-Comprehensive Ophthalmology by AK Khurana	Explain anatomy and physiology of eye.
Inflammatory and Infectious diseases	4 hrs	Student Interactive Session Ophthalmology-Comprehensive Ophthalmology by AK Khurana	Discuss common inflammation and infections of eye & their management
Infection of eyes	4 hrs	Student Interactive Session Ophthalmology-Comprehensive Ophthalmology by AK Khurana	Describe common infection of eye and eyelid.
Cataract	4 hrs	Student Interactive Session Ophthalmology-Comprehensive Ophthalmology by AK Khurana	Discuss cataract and its clinical presentation.
Refractive errors	4 hrs	Student Interactive Session Ophthalmology-Comprehensive Ophthalmology by AK Khurana	Discuss the different refractive errors and squint.
Accommodation & Convergence anomalies	4 hrs	Student Interactive Session Ophthalmology-Comprehensive Ophthalmology by AK Khurana	Describe accommodation and convergence anomalies.

BACHELOR OF PHYSIOTHERAPY
PAPER CODE – 03060603
GENERAL ORTHOPAEDICS -II (THEORY)

Periods/Week Credits

T: 4 4

TEACHING HOURS: 64

MAX.

MARKS: 100

INTERNAL: 40

EXTERNAL: 60

TIME: 3 Hrs

BACHELOR OF PHYSIOTHERAPY
PAPER CODE – 03060603
GENERAL ORTHOPAEDICS -II (PRACTICAL)

Periods/Week Credits

P: 4 2

TEACHING HOURS: 64

MAX.

MARKS: 50

INTERNAL: 20

EXTERNAL: 30

Course Description:

Following the basic science course, this course introduces the student to the orthopedic conditions which commonly cause disability. Particular effort is made in this course to avoid burdening the student with any detail pertaining to diagnosis which will not contribute to their understanding of the limitation imposed by orthopaedic pathology on the functioning of the

individual

Course Objectives:

The objective of the course is that after 64 hours of lectures, the students will be able to understand the pathophysiology, medical and surgical management of various musculoskeletal conditions

Course Outcomes:

1. To understand the pathological changes of degenerative and metabolic disorders of musculoskeletal system with their respective treatment protocols.
2. To understand the pathophysiology of bone tumors with their treatment.
3. To understand the various types of amputations with their limitations and treatment.
4. To understand the pathophysiology of various soft tissue injuries with their respective treatment protocols.
5. To understand the importance of various special surgeries and their treatments.

Date	Theme/ Topic	Duration (Hrs)	Learning Experiences & Learning Resources	Learning Objectives
	Degenerative & Metabolic disorders:	40	Student Interactive Session Visit to IPD and OPD for case discussion Outline of Orthopedics- By Adams	Describe the degenerative and metabolic disorders Discuss the Etiology, Pathology, Clinical features, Investigations, management of Osteoarthritis of major joints, spondylosis, spondylolisthesis, PIVD. Explain Etiology, Pathology, Clinical features, Investigations, management of rickets, osteomalacia, osteoporosis
	Bone Tumours & Amputations	30	Student Interactive Session Visit to IPD and OPD for case discussion Outline of Orthopedics- By Adams	Describe the Benign & Malignant bone tumours Discuss the Classification, Pathology, Clinical Features, Management including chemotherapy and Radiotherapy. Explain the level & causes of amputations
	Surgeries- Osteotomy, Arthroplasty Arthrodesis Tendon Transfers	28	Student Interactive Session Visit to IPD and OPD for case discussion Outline of Orthopedics- By Adams	Describe the osteotomy, bone grafting, tendon transfer Explain arthroplasty & arthrodesis Discuss about soft tissue release

	Soft tissue release			
	Miscellaneous conditions	30	Student Interactive Session Visit to IPD and OPD for case discussion Outline of Orthopedics- By Adams	Describe the miscellaneous conditions: De Quervain's Disease, Dupuytren's Contracture, Myositis Ossificans, Carpal Tunnel syndrome, Chondromalacia Patellae, Perthes's Diseases, Avascular necrosis of femoral head, Internal derangement of Knee, Osteochondrosis. Plantar fasciitis

**BACHELOR OF PHYSIOTHERAPY
PAPER CODE – 03060604
NEUROLOGY-II (THEORY)**

Periods/Week Credits

T: 4 4

TEACHING HOURS: 64

MAX.

MARKS: 100

INTERNAL: 40

EXTERNAL: 60

TIME: 3 Hrs

**BACHELOR OF PHYSIOTHERAPY
PAPER CODE – 03060604
NEUROLOGY-II (PRACTICAL)**

Periods/Week Credits

P: 4 2

TEACHING HOURS: 64

MAX.

MARKS: 50

INTERNAL: 20

Course Description:

Following the basic science and clinical science course, this course introduces the student to the neurological conditions which commonly cause disability.

Course Objectives:

The objective of this course is that after 128 hours of lectures & demonstrations. In addition to clinics, the students will be able to demonstrate an understanding of neurological conditions causing disability and their management in addition, the student will be able to fulfill with 75% accuracy (as measured by written, oral & practical, internal evaluation) the following objectives of the course.

An understanding of the approach of neurologists to the health care of people with neurologic conditions.

Begin to understand an educational plan for continuous learning throughout the professional career.

An understanding of the influence of family, community, and society in the care of people with neurological

Course Outcomes:

Acquisition of the clinical application of basic knowledge of the nervous system.

- Development of communication skills that will facilitate the clinical interaction with patients with neurologic disorders and their families and thus ensure that complete, accurate data are obtained.
- Development of competency in the single system neurological examination.
- Acquisition of the knowledge necessary for the diagnosis and initial management of common acute and chronic neurological conditions.
- Development of clinical problem-solving skills.
- Development of strategies for health promotion and prevention of neurological damage.
- Development of the attitudes and professional behaviors appropriate for clinical practice.

Date	Theme/ Topic	Duration (Hrs)	Learning Experiences & Learning Resources	Learning Objectives
	Congenital disorders a) Cerebral palsy. a) Hydrocephalus. c) Spina Bifida	16 hrs	Student Interactive Session Group discussion Case Discussion Visit to OPD&IPD Neurology & Neurosurgery Illustrated By Kenneth W. Lindsay & Ian Bone	Describe the Congenital disorders & its management in detail.
	CVA	30 hrs	Student Interactive Session Practical demonstration	Describe the General classification: thrombotic,

			Group discussion Neurology & Neurosurgery Illustrated By Kenneth W. Lindsay & Ian Bone	embolic, hemorrhagic & inflammatory strokes Explain Gross localization and its sequelae Discuss Hemiplegia & Its management in detail
	Spinal cord injuries	30 hrs	Student Interactive Session Case presentation Visit to OPD&IPD Group discussion Neurology & Neurosurgery Illustrated By Kenneth W. Lindsay & Ian Bone	Describe the Traumatic spinal disorders and its management Explain head injury & its management
	Spinal diseases a) Cranio cerebral junction anomalies. b) Syringomyelia c) Cervical and lumbar disc lesions. d) Spinal Tumors (Intra medullary & Extra medullary) e) Spinal archnoiditis.	20 hrs	Student Interactive Session Case presentation Visit to OPD&IPD Group discussion Neurology & Neurosurgery Illustrated By Kenneth W. Lindsay & Ian Bone	Describe the Diseases of spinal cords & its management in detail
	Demyelinating diseases (central and peripheral) & its management	12 hrs	Student Interactive Session Practical demonstration Group discussion Neurology & Neurosurgery Illustrated By Kenneth W. Lindsay & Ian Bone	Describe the classification, etiology, symptomatology & management of following a) Guillian- Barre syndrome. b) Acute disseminated encephalomyelitis c) Transverse myelitis. d) Multiple sclerosis.
	Degenerative disorders.	10 hrs	Student Interactive Session Practical demonstration Group discussion Neurology & Neurosurgery Illustrated By Kenneth W. Lindsay & Ian Bone	Describe the classification, etiology, symptomatology & management of: a) Parkinson's disease. b) Dementia
	Miscellaneous condition	10 hrs	Student Interactive Session Practical demonstration Group discussion	Describe classification, symptoms and management of: a) Epilepsy:

			Patient assessment Neurology & Neurosurgery Illustrated By Kenneth W. Lindsay & Ian Bone	b) Intracranial tumors: c) Motor neuron disease. d) Dystonia
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