PROGRAM OUTCOME

PO1: Ability to acquire knowledge about normal- abnormal basic medical and human movement sciences, understand relevant investigations, role of drugs related to various medical conditions, surgical treatment and application of physiotherapy interventions.

PO2: Understand moral value, professional ethics and accountability towards patient and colleagues Develop good behaviors skills with confidentiality and humanitarian approach maintaining the respect and privacy of patient.

PO3: Demonstrate the ability to provide evidence based practice for prevention, correction and rehabilitation of the patient.

PO4: Demonstrate the ability to acquire good listening potential with effective interpersonal and intra personal communication skills.

PO5: Extend the acquired knowledge to conduct research activities and publications that contribute to the upliftment in field of physiotherapy and betterment of society.

PO6: Demonstrate ability to acquire new knowledge skill and reflect upon their experience to enhance personal, professional growth and apply the information for patient care.

FIRST YEAR B.PTh.

COURSE OUTCOMES

	ANATOMY
	Dissect and identify the normal disposition, inter relationship, gross functional and
CO1	applied anatomy of various structures in the cadaver.
	Ability to identify the microscopic structures of basic tissues, organs in the human body
CO2	and basic principles of embryology in stages of normal development.
	Demonstrate different movements of joints, there attachments, palpate important bony
CO3	landmarks.
	Identify and describe various parts, structures and blood circulation of CNS and spinal
	cord. Describe the course of peripheral nerves and its importance. Understand
CO4	anatomical basis of clinical conditions of nervous system.
	Identify and describe various structures, mechanism, blood supply of cardiovascular
CO5	and respiratory system and understand its anatomical basis of clinical conditions.
	Ability to understand the knowledge of systemic anatomy, abdomen, endocrine and
CO6	exocrine system and sensory organs with their applied anatomy.
	Demonstrate the knowledge and application of imaging techniques and interpretation
CO7	of radiogram.
	PHYSIOLOGY
	Acquire the knowledge of general physiology and its contribution in each organ system
CO 1	to maintain homeostasis.

	Understand the basic physiological functions of various systems with special emphasis
	on Musculo-skeletal, Neuro-motor, cardio-respiratory, endocrine and uro-genital
CO 2	function and alteration in function with aging.
GO 2	Acquire the knowledge about structure and function of special sense organs and its
CO 3	applied physiology (eye & ear).
	Acquire the skills of basic clinical examination with special emphasis to peripheral and
00.4	central nervous system, cardiovascular and respiratory system and exercise tolerance/
CO 4	Ergography.
CO 5	Analyze physiological response and adaptation to environmental stresses with special
CO 5	emphasis on physical activity, attitude, and temperature.
CO (Explain and correlate the applied physiology of diseases and disorders related to organ
CO 6	systems of body which are commonly treated by the physiotherapist.
	DIO CHIEN HOPENA
	BIOCHEMISTRY
	Acquire and demonstrate the knowledge of formation, functioning and fate of
CO 1	biomolecules, their normal and abnormal levels to understand the disease process and
CO 1	their clinical interpretation.
CO 2	Acquire the knowledge of vitamins, minerals their functions, deficiency manifestations and their role in daily nutritive requirements.
CUZ	Acquire the knowledge about healthy balanced diet with its nutritive importance and
CO 3	dietary deficiencies.
CO 3	Describe the fundamentals aspect of enzymes and hormones with their role in various
	metabolic disorders where in regulation of enzymatic and hormonal mechanism is
CO 4	altered.
CO 5	Ability to understand mechanism and biochemical events in connective tissue.
000	Tability to disdessume internation and proprieting in connective dissue.
	FUNDAMENTALS OF KINESIOTHERAPY AND KINESIOLOGY
	Understand basic principles of biomechanics, biophysics and application of these
CO 1	principles in Kinesiotherapy.
	Understand classification of joints and muscles, types of movements along with their
~~ •	distinguishing characteristics. Demonstrate various starting and derived position used
CO 2	in therapeutics.
	Acquire the skills of assessment of basic evaluation like sensations, reflexes and vital
00.2	parameters and also the skills of objective assessment of range of motion by
CO 3	goniometry.
CO 4	Understand physiological principles and acquire the skills of application of therapeutic
CO 4	massage.
	Acquire the knowledge on physiological basis and principle of relaxation and the skills
CO 5	of relaxation methods. Understand principles of aerobic exercises for general fitness
CO 3	and demonstrate fitness skills on self and group. Acquire the knowledge on physiological principles and skills of performing
CO 6	Pranayama and Yogasan for maintaining general fitness.
	Tranagama and Togasan for maintaining general fluicss.
	FUNDAMENTALS OF ELECTROTHERAPY
	CO1: Ability to acquire basic physics principles, laws of electricity, electromagnetic
	spectrum, common electrical components, fundamentals of currents, sound waves and
CO 1	their effects.

	CO2: Ability to understand effects of environmental and manmade electromagnetic
CO 2	field at the cellular level and risk factors on prolong exposure.
	CO3: Describe and identify various types of electrodes used in electrotherapy, electrical
CO 3	skin resistance and significance of various media used to reduce skin resistance.
	CO4: Acquire knowledge of various superficial thermal agents and their skills of
CO 4	application.
	CO5: Ability to understand types and production of various therapeutic electrical
CO 5	currents and in application on different electrotherapeutic modalities.

MAPPING OF PROGRAM OUTCOMES & COURSE OUTCOMES

ANATOMY	PO1:	PO2	PO3	PO4	PO5	PO6
CO1	XXX	XXX	X	XXX	X	X
CO2	XXX	XX	X	XXX	X	X
CO3	XXX	XX	X	XXX	X	X
CO4	XXX	XX	X	XXX	X	X
CO5	XXX	XX	X	XXX	X	X
CO6	XXX	XX	X	XXX	X	X
CO7	XXX	XX	X	XXX	X	X
PHYSIOLOGY	PO1:	PO2	PO3	PO4	PO5	PO6
CO 1	XXX	XX	X	XX	X	X
CO 2	XXX	X	X	XX	X	X
CO 3	XXX	X	X	XX	X	X
CO 4	XXX	XX	X	XXX	X	X
CO 5	XXX	XX	X	X	X	X
CO 6	XXX	X	X	XXX	X	X
BIOCHEMISTRY	PO1:	PO2	PO3	PO4	PO5	PO6
CO 1	XXX	X	X	X	X	X
CO 2	XXX	X	X	X	X	X
CO 3	XXX	X	X	XX	X	X
CO 4	XXX	X	X	X	X	X
CO 5	XXX	X	X	X	X	X

FUNDAMENTALS OF KINESIOTHERAPY AND KINESIOLOGY	PO1:	PO2	PO3	PO4	PO5	PO6
CO 1	XXX	XX	X	XXX	X	X
CO 2	XXX	XXX	X	XXX	XX	X
CO 3	XXX	XX	X	XX	X	X
CO 4	XXX	XX	X	XX	X	X
CO 5	XXX	XX	X	XX	XX	X
CO 6	XXX	XX	X	XX	X	X
FUNDAMENTALS OF ELECTROTHERAPY	PO1:	PO2	PO3	PO4	PO5	PO6
CO 1	XXX	X	X	X	X	X
CO 2	XXX	X	X	X	X	X
CO 3	XXX	XX	X	XXX	X	X
CO 4	XXX	XX	XX	XXX	X	X
CO 5	XXX	XX	XX	XXX	X	X

2ND YEAR BPTh.

	COURSE OUTCOMES
	KINESIOLOGY
CO1	Understands the principles of Biomechanics
	Acquire the knowledge of kinetics & kinematics of Spine, Extremities, Thoracic
CO2	Cage
	Acquire the knowledge of musculoskeletal movements during normal gait &
CO3	activities of daily living
	KINESIOTHERAPY
	Understand the Biophysical properties of connective & non connective tissue &
	mechanical loading, & factors with which influence the muscle strength &
CO1	mobility of articular & particular soft tissue.
	• Apply the biomechanical principles for the efficacy in the assessment methods
	& Acquire the skills of subjective & objective methods of muscle strengthening,
CO2	joint mobility, muscle stretching, muscle testing.
	• Describe the physiological effects, therapeutic uses of Hydrotherapy &
	Demonstrate various therapeutic exercises on self & acquire the skill of
CO3	application on models with home program
	• Analyze the correct & faculty posture & all views of posture and acquire the
	knowledge of postural mechanism & factors affecting on posture, motor control
CO4	postural control & balance.
	• Demonstrate & acquire the skills of functional reeducation techniques on
CO5	models & also skills of balance & co-ordination exercise.
CO6	Acquire the skill of using various walking aids for traing of gait.
	• Acquire the knowledge & skills of demonstrating breathing exercise postural
CO7	drainage techniques.
	MICROBIOLOGY
	Knowledge about scope & the subject with classification of various Micro-
	organisms & best methods to prevent the development of infections in sets and
CO1	patients (Universal safety precautions)
	Demonstrate knowledge about laboratory diagnosis of the different micro-
	organisms causing infections epidemiology & prevention of the disease,
CO2	prophylaxis
	Knowledge about immunity its types, structure and function various antigen
CO3	antibody reactions with its application.
	Demonstrate the knowledge of etio-pathogenesis of different micro-organisms (
CO4	bacteria, viruses, fungi and parasites)
	Knowledge of prevalent communicable diseases and the agents responsible for
	causing clinical infections pertaining o CNS, CVS musculoskeletal, respiratory,
CO5	genitourinary, wound infections and of newer emerging pathogens.
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	PATHOLOGY

	Describe the concept of call injury & change produced by different tissues,
CO1	organs & capacity of the body in healing process
	Acquire the knowledge of common immunological circulatory disorders
CO2	vitamin deficiency & their resultant effects on the human body
	Develop an understanding of neoplastic change in the body in appreciate
CO3	need for early diagnostic & their management of neoplasia.
	· Recall the Etiology pathogens, pathological effects & the clinic-
CO4	pathological correlation of common infections & non-infections diseases.
	Understand correlate normal & alternate morphology of different organ system
	in different diseases needed for understanding disease process their clinical
CO5	significance
	· Understand in brief, about the common hematological disorders &
CO6	investigations necessary to diagnose them.
	PHARMACOLOGY
	Describe the Pharmacokinetics & Pharmaco dynamics, indication &
	contra -indication interactions & adverse reactions, precautions, formulation &
CO1	route of drug administration of various drug.
	Demonstrate knowledge about various drugs acting on CNS autonomic
CO2	nervous system CVS, respiratory system, endocrine system, CIT tract,
CO3	Demonstrate knowledge about various haematinic & dermatological drugs
	PSYCHIATRY
	Understand the increasing awareness of psycho-social issues faced by individual
CO1	with its significance at various points on the continuum of health & disability
	· Understand the term psychology with its importance in the health
	delivery system. Knowledge of psychological maturation during human
CO2	development & growth with alterations during aging process.
	Interpret theories of learning and its role in human life with the importance of
	psychological status in health & disease Environmental & emotional influence
CO3	on the mind & personality
	PSYCHOLOGY
	Evaluate psychiatric history a mental status Examination of Schizophrenia,
	Anxiety, personality somatoform, childhood & Adolescence, Organic brain
CO1	disorder, mood & eating disorders, with geriatric psychology
	· Knowledge about management of various psychiatric disorders with the
	help of ECT, pharmacotherapy group therapy, psycho therapy, cognitive
CO2	behavioural therapy & rational emotive therapy.

2ND YEAR BPTh SYLLABUS MAPPING

ELECTROTHERA

PY

Topic	CO1	CO2	CO3	CO4	CO5
Pain	Strong	Strong	Modera te	Weak	Weak
Low Frequency Current	Strong	Strong	Weak	Weak	Weak
Medium Frequency Currents	Strong	Strong	Weak	Weak	Weak
Biofeedback	Weak	Strong	Weak	-	-
High Frequency Current	Modera te	Strong	Strong	Weak	-
Ultra Sound	Strong	Strong	-	-	-
Action therapy	Modera te	Weak	Modera te	Strong	Strong
Electrotherapy: Wound care	-	Modera te	Strong	Strong	Strong

KINESIOLOGY

Topic	CO1	CO2	CO3
Introduction To Biomechanics	Strong	Modera te	Weak
Regional Kinesiology	Modera te	Strong	Weak
Kinetics &Kinematics Of Gait & ADL	Weak	-	Strong

KINESIO THERAPY

Topic	CO1	CO2	CO3	CO4	CO5	CO6	CO7
Biophysics	Strong	Strong	Strong	-	Weak	1	-
Posture	Modera te	Weak	Modera te	Strong	Weak	Modera te	Wea k

Motor & Postural Control And Balance	Weak	Weak	Weak	Strong	Strong	Modera te	-
Functional Reeducation	-	Weak	Strong	Strong	Strong	Modera te	-
Neuromuscular Co- Ordination	-	Weak	Modera te	Modera te	Strong	Strong	-
Gait &Walking Aids	Weak	Weak	Weak	Modera te	Modera te		-
Bronchial Hygiene	Weak	-	-	-	-	-	Stron g

PHARMAC OLOGY

Topic	CO1	CO2	CO3	CO4
General Pharmacology	Strong	Strong	Strong	Strong
Drugs Acting On C.N.S	Strong	Strong	-	-
Drugs Acting On Autonomic Nervous System	Strong	Strong	-	-
Drugs Acting On C.V.S.	Strong	Strong	-	-
Drugs Acting On Respiratory System	Strong	Strong	-	-
Chemotherapy	Strong	-	Strong	-
Other Chemo Therapeutic Drugs	Strong	-	Strong	1
Endocrine	Strong	Strong	-	-
Drugs In G.I. Tract	Strong	Strong	-	-
Heamatinics	Strong	-	Strong	-
Dermatological Drugs	Strong	-	-	Strong

PATHOLOGY

PATHOLOGY	CO1	CO2	CO3	CO4	CO5	CO6
General Pathology	Strong	Modera te	Weak	Modera te	-	-
Inflammation & Repair	Strong	Modera te	-	Weak	Modera te	-
Immuno –Pathology	-	Strong	Strong	Weak	-	-
Circulatory Disturbances	Weak	Strong	-	Weak	-	Weak
Pathologic Changes In Vitamin Deficiencies	-	Strong	-	-	-	-
Growth Disturbances	Weak	-	Strong	-	-	-
Medical Genetics	-	-	Strong	-	Modera te	-
Specific Pathology	Weak	Weak	-	Strong	Strong	-
Muscular Disorders	Weak	-	-	Strong	Strong	-
Neuro-Muscular Junction	Weak	-	-	Strong	Strong	-
Bone & Joints	Weak	-	Modera te	Strong	Strong	-
G.I. System	Weak	-	-	Strong	Strong	-
Endocrine	Weak	Modera te	-	Strong	Strong	-
Hepatic Diseases	Weak	-	-	Strong	Strong	-
Clinical Pathology	Weak	-	Weak	-	-	Strong

MICROBIOLOGY

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Topic	CO1	CO2	CO3	CO4	CO5	
General Microbiology	Strong	Modera te	-	Weak	-	
Laboratory Diagnosis Of Infection	Weak	Strong	Weak	Weak	Modera te	

Immunology	-	Weak	Strong	-	-
Systemic Bacteriology	Modera te	Modera te	-	Strong	Strong
Mycology	Weak	Modera te	-	Strong	Strong
Virology	Weak	Modera te	-	Strong	Strong
Parasitology	Weak	Modera te	-	Strong	Strong
Applied Microbiology	-	Modera te	-	Modera te	Strong

PSYCHIATRY

Topic	CO1	CO2	CO3	CO4	CO5
a. Psychiatric History & Mental Status Examination	Weak	Modera te	Modera te	Strong	Strong
b. Classification of Mental disorders	Modera te	Strong	Strong	Strong	Strong
c. Schizophrenia & its types	Modera te	Strong	Strong	Strong	Strong
d. Other psychotic disorders	Strong	Strong	Strong	Strong	Strong
e. Mood disorder	Strong	Strong	Strong	Strong	Modera te
f. Organic brain disorders (delirium, dementia, Amnestic syndromes, Organic personality disorder,)	Strong	Strong	Strong	Strong	Modera te
g. Anxiety disorders	Strong	Strong	Strong	Strong	Modera te
h. Somatoform disorder,	Modera te	Strong	Strong	Strong	Weak
i. Somatization disorder	Weak	Strong	Strong	Strong	Weak
j. Personality disorder	Weak	Modera te	Modera te	Strong	Modera te
k. Substance related disorder (alcohol)	Weak	Weak	Weak	Strong	Weak

l. Disorders of infancy – childhood &adolescence	Strong	Strong	Strong	Strong	Strong
m. Geriatric Psychiatry	Weak	Strong	Strong	1	Strong
n. Eating disorder	Weak	Modera te	-	Strong	Weak
o. Management:	Modera te	Modera te	Modera te	Modera te	Strong

PSYCHOLOGY

Topic	CO1	CO2	CO3	CO4	CO5
a) Psycholog y: Definition, understanding, Nature & its fields	Strong	Strong	Weak	Modera te	Modera te
b) Developm ental psychology and its theories in brief	Strong	Strong	Weak	Modera te	Strong
c) Learning: Theories of learning,	Weak	Weak	Strong	Weak	Weak
d) Memory – types – Forgetting causes	Weak	Weak	Weak	Strong	Modera te
e) Attention & perception	Weak	Weak	Weak	Strong	Weak
f) Motivatio n and theories: Types of Common Defence mechanisms, Stress	Weak	Weak	Modera te	Modera te	Strong