

Bachelor of Science in Physiotherapy Study Plan and Course Descriptions Ref: UC/ P725/2024

As approved by University Council Decision No. UC/2563/14/2023-24 of meeting No. UC/14/2023-24 held on Wednesday the 24th of July 2024. Effective From NQF Placement (Target First Semester 2024-2025)

BSPT 24-25 - FIRST YEAR (41 CREDITS)

First Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ARAB	101	Composition for Native Speakers of Arabic I	3	0	3	
HIST	121	Modern History of Bahrain	3	0	3	
ENGL	101	Academic English I	3	0	3	
ANAT	101	General Anatomy I	2	2	3	
MATH	101	Calculus I	3	0	3	
CHEM	101	General Chemistry for Health Sciences	3	0	3	
					18	

Second Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ENGL	102	Academic English II	3	0	3	ENGL 101
ITCS	101	Introduction to Computers & IT	2	2	3	
MATH	102	Calculus II	3	0	3	MATH 101
ANAT	121	General Anatomy II	2	2	3	ANAT 101
STAT	101	Introduction to Statistics	3	0	3	
PHYS	101	General Physics I	3	0	3	
					18	

Summer Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
HUMR	101	Principles of Human Rights	2	0	2	
HU/SS	XXX	Humanities/Social Sciences	3	0	3	
					5	

BSPT 24-25 - SECOND YEAR (38 CREDITS)

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ENGL	211	English for Health Sciences I	3	0	3	ENGL 102
PHYG	211	General Physiology	2	2	3	ANAT 121
РНТН	215	Musculoskeletal Anatomy	3	2	4	ANAT 121
РНТН	216	Psychological Aspects of Disability	3	0	3	ANAT 121 AND ENGL 102
CHEM	214	Biochemistry	3	0	3	CHEM 101 AND ANAT 121
XXXX	XXX	Free Elective	X	Х	3	
					19	

Second Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
PHTH	227	Biomechanics	2	2	3	PHTH 215
PHTH	222	Neuroanatomy & Physiology	2	2	3	PHYG 211 AND PHTH 215
PHTH	223	Introduction to Radiology & Pathology	2	2	3	PHYG 211 AND PHTH 215
PHTH	224	Principles of Electrotherapy	2	2	3	PHYS 101 AND PHYG 211 AND PHTH 215
PHTH	228	Introduction to Exercise Physiology	2	0	2	PHYG 211 AND PHTH 215
PHTH	229	Basic Clinical Practice	0	10	5	PHYG 211 AND PHTH 215
					19	

BSPT 24-25 - THIRD YEAR (38 CREDITS)

First Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ENGL	212	English for Health Sciences II	3	0	3	ENGL 211 AND Completion of at least 3 credits
PHTH	312	Orthopedic, Sports & Rheumatology Physiotherapy	2	2	3	PHTH 227 AND PHTH 223 AND PHTH 229
PHTH	318	Manual Therapy	2	2	3	PHTH 227 AND PHTH 223 AND PHTH 229
PHTH	314	Principles of Therapeutic Exercise	2	2	3	PHTH 228 AND PHTH 227 AND PHTH 229
PHTH	315	Clinical: Orthopedic Medicine & Surgery	2	2	3	PHTH 227 AND PHTH 223 AND PHTH 229
PHTH	316	Clinical: Orthopedic, Sports & Rheumatology Physiotherapy	0	8	4	PHTH 227 AND PHTH 223 AND PHTH 229
					19	

Second Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
PHTH	321	Theories of Cardiopulmonary Physiotherapy	2	2	3	PHTH 223 AND PHTH 229
PHTH	322	Medical Physiotherapy	3	0	3	PHTH 229
PHTH	323	Clinical: Cardiopulmonary Medicine & Surgery	2	2	3	PHTH 223 AND PHTH 229
PHTH	324	Clinical: Cardiopulmonary & Medical Physiotherapy	0	8	4	PHTH 223 AND PHTH 229
PHTH	325	Organization & Ethics in Physiotherapy	3	0	3	PHTH 216
STAT	201	Medical Statistics	3	0	3	STAT 101
					19	

BSPT 24-25 - FOURTH YEAR (38 CREDITS)

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
PHTH	412	Theories of Neurological Physiotherapy	2	2	3	PHTH 222 AND PHTH 223 AND PHTH 229
РНТН	413	Clinical: Neurological Medicine & Surgery	2	2	3	PHTH 222 AND PHTH 223 AND PHTH 229
РНТН	414	Clinical: Neurological Physiotherapy	0	8	4	PHTH 222 AND PHTH 223 AND PHTH 229
PHTH	415	Introduction to Pharmacology	3	0	3	CHEM 214
HCRM	498	Research Methodology in Health Sciences	3	0	3	STAT 201 AND PHTH 325 AND Completion of at least 90 credits
XXXX	XXX	Major Elective	X	X	3	
					19	

Second Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
PHTH	499	Major Project	0	6	3	HCRM 498 AND Completion of at least 90 credits
PHTH	421	Clinical: Pediatric Physiotherapy	0	8	4	PHTH 222 AND PHTH 223 AND PHTH 229
PHTH	422	Theories of Pediatric Physiotherapy	2	2	3	PHTH 222 AND PHTH 223 AND PHTH 229
PHTH	423	Clinical: Pediatric Medicine & Surgery	2	2	3	PHTH 222 AND PHTH 223 AND PHTH 229
PHTH	424	Clinical: Community Physiotherapy	0	6	3	PHTH 315 AND PHTH 323
PHTH	425	Occupational Health & Ergonomics in Physiotherapy	2	2	3	PHTH 314
					19	

LIST OF MAJOR ELECTIVE COURSES

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
PHTH	426	Community Well-being and Public Health	3	0	3	
PHTH	427	Human Physical Growth and Development	3	0	3	
PHTH	428	Sports Injuries	3	0	3	
PHTH	429	Women's Health	3	0	3	

BSPT 24-25 - FIRST YEAR (41 CREDITS)

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ARAB	101	Composition for Native Speakers of Arabic I	3	0	3	
	ing short tex	which aims at developing the students' skills in analy ts. The course focuses on skills such as journalistic w le.				
HIST	121	Modern History of Bahrain	3	0	3	
the rise of Zubar	ra; the begin	nportance of the strategic location of the Kingdom of ning of Al-Khalifa era; Bahrain under the British prot l administrative and legal systems; economic and soc	ection 8	indep	endenc	e and the building of the modern state;
ENGL	101	Academic English I	3	0	3	
		ents' ability to use the language in business-related s g and writing a single paragraph on themes related t				
					-	
ANAT	101	General Anatomy I	2	2	3	
This course intro anatomical term system, Respirat	duces gener s and referent tory system e	General Anatomy I alized knowledge pertaining to structure of the humances of motion, gross anatomy of human body and for etc. Teaching is supplemented with practical laborate	in body w body	on a s	system I ms inclu	iding Skeletal system, Cardiovascular
This course intro anatomical term system, Respirat	duces gener s and referent tory system e	alized knowledge pertaining to structure of the humanes of motion, gross anatomy of human body and for	in body w body	on a s	system I ms inclu	iding Skeletal system, Cardiovascular
This course intro anatomical term system, Respirat General Anatom MATH Math 101 is calc covers limits and division, and cha	oduces gener s and referent tory system of y II. 101 ulus I, which d continuity, ain rules. App	ralized knowledge pertaining to structure of the humances of motion, gross anatomy of human body and for etc. Teaching is supplemented with practical laborato	n body w body ry class 3 ngineer nctions and mi	on a s syste es. Th o ring, IT with c nima),	system I ms inclu is cours 3 , Multir different optimiz	Iding Skeletal system, Cardiovascular e provides a progression pathway for nedia, and Physiotherapy. This course rules, which involve multiplication, ation, and mean value theorem are also
This course intro anatomical term system, Respirat General Anatom MATH Math 101 is calc covers limits and division, and cha	oduces gener s and referent tory system of y II. 101 ulus I, which d continuity, ain rules. App	Calculus I and differentiation of algebraic and transcendental for the and differentiation of algebraic and transcendental for the section of the section of the section of the section of the the section of the section of the section of the section of the the section of the section of the section of the section of the the section of the sectio	n body w body ry class 3 ngineer nctions and mi	on a s syste es. Th o ring, IT with c nima),	system I ms inclu is cours 3 , Multir different optimiz	Iding Skeletal system, Cardiovascular e provides a progression pathway for nedia, and Physiotherapy. This course rules, which involve multiplication, ation, and mean value theorem are also
This course intro anatomical term system, Respirat General Anatom MATH Math 101 is calc covers limits and division, and cha covered in this c CHEM This course will the foundations concepts and un	oduces gener s and referent tory system of y II. 101 ulus I, which d continuity, ain rules. App course. Assig 101 provide gener of life chemi nique mechar	Calculus I and differentiation of algebraic and transcendental functions calculus I calculus I cal	n body w body ry class angineer nctions and mints to so 3 uulas ar ieralizer	on a syste y syste es. Th oning, IT with c nima), olve to 0 0 d cher d know	system I ms inclu is cours 3 7, Multir different optimiz prepar 3 nical eq <i>i</i> ledge a	Iding Skeletal system, Cardiovascular e provides a progression pathway for media, and Physiotherapy. This course r rules, which involve multiplication, ation, and mean value theorem are also e them for the exams. Uuations and to prepare the learners with bout the basic principles, fundamental

BSPT 24-25

Second Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ENGL	102	Academic English II	3	0	3	ENGL 101
A continuation o	f ENGL 101	which further develops students' skills in reading and	writing	basec	l on bus	iness-related topics.
ITCS	101	Introduction to Computers & IT	2	2	3	
This course is ar and software) to	n introduction the student	n to computer and information technology. It introduces and to teach them how to use MS Office.	ces con	nputers	s (their ı	uses, development, components, hardware
MATH	102	Calculus II	3	0	3	MATH 101
continuation of (and Maclaurin th	Calculus I pro neorems, pov	university requirement for the BSc program in Engine ogram with emphasis on integration methods and tec ver series, infinite series and polar coordinates are all pared for the exam.	hnique	s follov	ved by f	urther integration and applications. Taylor
ANAT	121	General Anatomy II	2	2	3	ANAT 101
This course intro neurological dige supervised pract and exchange. T	duces detail estive and er cice. This cou	General Anatomy II ed knowledge related to the structure of the human l idocrine systems will be discussed in detail. Teaching irse provides some physiological knowledge will be in ill provide progression pathways for courses related t	body or is supp troduce	n a sys plemen ed as M	tem bas ted with letabolis	is. Musculoskeletal, cardiopulmonary, practical laboratory demonstrations and m and Nutrition & Gas transport system
This course intro neurological dige supervised pract and exchange. T	duces detail estive and er cice. This cou	ed knowledge related to the structure of the human l adocrine systems will be discussed in detail. Teaching rrse provides some physiological knowledge will be in	body or is supp troduce	n a sys plemen ed as M	tem bas ted with letabolis	is. Musculoskeletal, cardiopulmonary, practical laboratory demonstrations and m and Nutrition & Gas transport system
This course intro neurological dige supervised pract and exchange. T physiology. STAT is an elementar random sets of c	poduces detail estive and er cice. This cou The course w 101 y course tha data. It cove	ed knowledge related to the structure of the human l docrine systems will be discussed in detail. Teaching irse provides some physiological knowledge will be in ill provide progression pathways for courses related t	body or is supp troduce o gene 3 ts as a l its dis	n a sys olemen ed as M ral phy 0 pplied tributio	tem bas ted with letabolis 'siology 3 to extra	is. Musculoskeletal, cardiopulmonary, n practical laboratory demonstrations and sm and Nutrition & Gas transport system and musculoskeletal anatomy &
This course intro neurological dige supervised pract and exchange. T physiology. STAT is an elementar random sets of c	poduces detail estive and er cice. This cou The course w 101 y course tha data. It cove	ed knowledge related to the structure of the human la docrine systems will be discussed in detail. Teaching irse provides some physiological knowledge will be in ill provide progression pathways for courses related t Introduction to Statistics t begins by familiarizing the student with new concep rs descriptive statistics and leads on to frequency and	body or is supp troduce o gene 3 ts as a l its dis	n a sys olemen ed as M ral phy 0 pplied tributio	tem bas ted with letabolis 'siology 3 to extra	is. Musculoskeletal, cardiopulmonary, n practical laboratory demonstrations and sm and Nutrition & Gas transport system and musculoskeletal anatomy &
This course intro neurological dige supervised pract and exchange. T physiology. STAT is an elementar random sets of c expected values, PHYS This course cove	oduces detail estive and er cice. This cou The course w 101 y course tha data. It cove , discrete an 101 ers units and	ed knowledge related to the structure of the human l indocrine systems will be discussed in detail. Teaching irse provides some physiological knowledge will be in ill provide progression pathways for courses related t Introduction to Statistics t begins by familiarizing the student with new concep rs descriptive statistics and leads on to frequency and d continuous probability distributions, correlation and	body or is supp troduce o gene 3 ts as a l its dis regres 3	a sysplemen ed as M ral phy 0 pplied tributic sion. 0	tem bas ted with letabolis sology 3 to extra- on, varia 3	is. Musculoskeletal, cardiopulmonary, n practical laboratory demonstrations and sm and Nutrition & Gas transport system and musculoskeletal anatomy & ction of meaningful information from nce and standard deviation, probability,

Summer Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
HUMR	101	Principles of Human Rights	2	0	2	
Conventions of H International Con Torture and Othe	luman Righ nvenient for er Cruel, Inl	principles of human rights through the definition of h ts, which includes the following documents: United Na Civil and Political Rights, International Convenient for human or Degrading Treatment or Punishment. It also in the Kingdom of Bahrain.	itions C Econo	harter mic, S	, Univers	sal Declaration of Human Rights, I Cultural Rights and Convention against
HU/SS	XXX	Humanities/Social Sciences	3	0	3	
					5	

BSPT 24-25 - SECOND YEAR (38 CREDITS)

	Code	Course Title	Lec	Lab	Cr	Prerequisite	
ENGL	211	English for Health Sciences I	3	0	3	ENGL 102	
The first in the s vocabulary throu	eries of integ Igh selected	prated language courses, which develops and improv readings based on physiotherapy-related topics.	es stud	ents' r	eading s	kills in English, whilst increasing medical	
PHYG	211	General Physiology	2	2	3	ANAT 121	
This course provides a detailed knowledge related to the normal function of body structures is taught on system basis. The course includes the function of different cells, tissues, organ, and systems including functions of immune system and defense mechanisms, blood circulation, neurophysiology. The course includes measurement of physiological parameters including heart rate, blood pressure etc. in a lab setting. This course provides progression pathways for course related to neuroanatomy and physiology as well as radiology and pathology.							
PHTH	215	Musculoskeletal Anatomy	3	2	4	ANAT 121	
and tendons. Thi	is will include	knowledge related to anatomy and physiology of joi e overview of general tissue structure followed by reg laboratory classes.					
PHTH	216		3	0	3	ANAT 131 AND ENCL 103	
		Psychological Aspects of Disability	3	0	3	ANAT 121 AND ENGL 102	
	ides detailed	rsychological Aspects of Disability knowledge to social and psychological aspects of dis hizophrenia as well as motivation, denial and accepta	ease ar		bility. T	opics include personality, mood disorders,	
	ides detailed	knowledge to social and psychological aspects of dis	ease ar		bility. T	opics include personality, mood disorders,	
Mental disorders CHEM The course focus will include the e metabolic system	ides detailed including sc 214 ses providing energetics of ns. Additiona	knowledge to social and psychological aspects of dis hizophrenia as well as motivation, denial and accept	ease ar ince of 3 sical pr s, carb	phase 0 inciples ohydra	bility. To s of disa 3 s of livin ates, as	ppics include personality, mood disorders, bility. CHEM 101 AND ANAT 121 g things and of biological processes. Topic well as lipids; and the integration of	
CHEM CHEM The course focus will include the e metabolic system	ides detailed including sc 214 ses providing energetics of ns. Additiona	knowledge to social and psychological aspects of dis hizophrenia as well as motivation, denial and accepta Biochemistry detailed knowledge related to the chemical and phy metabolism; the structure and metabolism of proteir Ily, the chemistry of nitrogenous bases and how prot	ease ar ince of 3 sical pr s, carb	phase 0 inciples ohydra	bility. To s of disa 3 s of livin ates, as	ppics include personality, mood disorders, bility. CHEM 101 AND ANAT 121 g things and of biological processes. Topics well as lipids; and the integration of	
mental disorders CHEM The course focus will include the e metabolic systen This course prov	ides detailed including sc 214 ses providing energetics of ns. Additiona ides a progre	knowledge to social and psychological aspects of dis hizophrenia as well as motivation, denial and accepta Biochemistry detailed knowledge related to the chemical and phy metabolism; the structure and metabolism of proteir lly, the chemistry of nitrogenous bases and how prot ession pathway to introduction to pharmacology.	ease ar ince of 3 sical pr s, carb ein syn	phase 0 inciples ohydra	bility. To s of disa 3 s of livin ates, as is accor	ppics include personality, mood disorders, bility. CHEM 101 AND ANAT 121 g things and of biological processes. Topics well as lipids; and the integration of	

BSPT 24-25

Second Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite	
PHTH	227	Biomechanics	2	2	3	PHTH 215	
includes descripti exercises, abnorr	ion of static nal force ap d activities c	knowledge and understanding related to the applica and dynamic laws on human motion, levers and type plication and injury mechanism, forces, momentums, of daily living. This course provides a progression path	s of foi action	rces ac -reactio	ting on on theor	human joints, mechanics of therapeutic ies, friction, and normal and dysfunctional	
PHTH	222	Neuroanatomy & Physiology	2	2	3	PHYG 211 AND PHTH 215	
This course provides detailed knowledge and understanding related to the neurophysiologic and neuroanatomic basis of human body movement, function and motor control of the musculoskeletal system. This includes topics in neurophysiology, neural transmission, mechanism, cerebral functions and control, pyramidal and extra-pyramidal function, peripheral nerve functions and neuromuscular transmission, and other related topics. This course provides a progression pathway related to clinical courses.							
PHTH	223	Introduction to Radiology & Pathology	2	2	3	PHYG 211 AND PHTH 215	
This course introduces pathology with emphasis on cellular adaptations and tissue/cellular reaction to inflammation, injury, degenerative processes, and tissue repair. Building on this knowledge, the course then focuses on the basics of interpreting and utilizing common laboratory results and radiological findings in relation to physiotherapy practice. Teaching is supplemented with practical laboratory classes. This course provides progression pathway to clinical courses related to orthopedic medicine and surgery, sports and rheumatology physiotherapy etc.							
PHTH	224	Principles of Electrotherapy	2	2	3	PHYS 101 AND PHYG 211 AND PHTH 215	
The principles of electrotherapy modalities including Ultrasound, Diathermy, Therapeutic uses of electric currents, and Laser are discussed in this course. The principles of the modalities along with the physiological effects and interaction of the electrical and non-electrical sources of energy pertaining to different human body tissue is discussed. The principles, methods, of administering different electrotherapy modalities are included with their indication, effects and contra-indications.							
PHTH	228	Introduction to Exercise Physiology	2	0	2	PHYG 211 AND PHTH 215	
The course provides detailed knowledge and describes the series of physiological functions, reactions and biochemical principles involved in creation, maintenance, and malfunction of human movements. Topics included are physical fitness and health, physiological responses to exercises, the physiological basis of training and fitness assessment. This course provides a progression path for courses related to principle for therapeutic exercise.							
PHTH	229	Basic Clinical Practice	0	10	5	PHYG 211 AND PHTH 215	
patient goal setti	ng, and phy	plication of theoretical knowledge history taking, phy siotherapy management formulation relevant to the o osure in the hospital with simulated sessions on releva	lifferen	it clinic	al areas	of physiotherapy with opportunities to	
					19		

BSPT 24-25 - THIRD YEAR (38 CREDITS)

ENGL		Course Title	Lec	Lab	Cr	Prerequisite		
	212	English for Health Sciences II	3	0	3	ENGL 211 AND Completion of at least 3 credits		
		ntegrated language courses, which further develops a extensive readings based on health- related topics.	and imp	roves	students	s' reading skills in English, whilst increasing		
PHTH	312	Orthopedic, Sports & Rheumatology Physiotherapy	2	2	3	PHTH 227 AND PHTH 223 AND PHTH 229		
njuries are taug ndications of ph	ht. Joints ar siotherapy	e knowledge related to principles of physiotherapy fo ad bone diseases are presented in systemic approach treatment. Pre- and post-operative physiotherapy pro ent techniques, gait training, muscle testing are inclu	followe ocedure	d by p	hysiothe	rapy assessment, indications, and contra-		
PHTH	318	Manual Therapy	2	2	3	PHTH 227 AND PHTH 223 AND PHTH 229		
approach. The c spine techniques	ourse will al s, lumbar an	ntra-indications, physiological and therapeutic effects so include introduction in mobilization theory, upper ed d sacroiliac mobilization, and orientation in common so laboratory setting.	extremit	ies tec	hniques	, lower extremities, cervical spine, thoracio		
This course is designed to teach the students on the basic principles of therapeutic exercise. Emphasis is given on assessment and treatment protocols in the different fields of therapeutic exercise particularly range of motion, progressive resistive, stretching, peripheral joint mobilization exercise, McKenzie techniques, nags and snags, The course also focus on the principles of soft tissue healing and the protocols that are necessary for proper therapeutic exercises. The course is reinforcing with practical components.								
PHTH	315	Clinical: Orthopedic Medicine & Surgery	2	2	3	PHTH 227 AND PHTH 223 AND PHTH 229		
This course provides advance knowledge and understanding related to common orthopedic diseases and injuries are included in this course. The main topics are fracture types and complications, fractures closed and open reduction techniques, joint arthritis classification and diagnosis, systemic inflammatory diseases, auto-immune disorders affecting bones and joints, peripheral nerve injury types and management, total joint replacement, congenital musculoskeletal diseases, soft tissue and sports injuries and other related topics. The course is reinforced with clinical rounds with orthopaedic consultants and senior physiotherapists. This course provides a progression pathway for clinical courses related to Orthopaedic, sports and rheumatology physiotherapy.								
	316	Clinical: Orthopedic, Sports & Rheumatology	0	8	4	PHTH 227 AND PHTH 223 AND PHTH 229		
Physiotherapy								
This practical sk		overs advance level of knowledge and applied knowle nusculoskeletal, sports and rheumatologic conditions	5			, ,		

BSPT 24-25

Second Semester

cardiac and pulmo and contraindicati	onary condi ions of phys ysiotherapy	Theories of Cardiopulmonary Physiotherapy I knowledge and understanding pertaining to principle tions. Respiratory and cardiac conditions are presente siotherapy management. Pre and post-operative phys		2 nysioth	3	PHTH 223 AND PHTH 229	
cardiac and pulmo and contraindicati	onary condi ions of phys ysiotherapy	tions. Respiratory and cardiac conditions are presenter siotherapy management. Pre and post-operative phys		nysioth			
		assessment techniques, postural drainage, Intensive is supplemented with practical skills training in the la	e Care	py pro Jnit ca	tic appro cedures re, COPI	ach followed by assessment, indications, are discussed for cardio-pulmonary	
PHTH	322	Medical Physiotherapy	3	0	3	PHTH 229	
This course provides advance knowledge and understanding related to general medical and surgical conditions encountered in physiotherapy practice medical conditions such as burns, amputation, cancers, lymphedema, gynaecologic & obstetric issues and chronic pain are discussed. Medical, surgical and physiotherapy management are discussed.							
РНТН	323	Clinical: Cardiopulmonary Medicine & Surgery	2	2	3	PHTH 223 AND PHTH 229	
The course provides advance knowledge and understanding related to cardiac and pulmonary conditions commonly encountered in physiotherapy with a discussion on etiology, pathomechanics and pathophysiology, clinical presentation, medical and surgical management, as well as prognosis. Teaching is supplemented with clinical visits.							
PHTH	324	Clinical: Cardiopulmonary & Medical Physiotherapy	0	8	4	PHTH 223 AND PHTH 229	
This course provides advance knowledge and practical application of cardiopulmonary and medical physiotherapy principles in a supervised clinical setting. The purpose of the course is that the learners equipped with techniques and be competent in cardio-pulmonary rehabilitation, burns, kidney care patients and amputation. Topics of the course includes post-operative cardio-pulmonary rehabilitation, ischemic heart disease physiotherapy, postural drainage techniques, COPD rehabilitation, ICU patient management, respiratory exercise techniques and applications and related topics in cardio-pulmonary rehabilitation, medical condition and post-operative surgical patients.							
PHTH	325	Organization & Ethics in Physiotherapy	3	0	3	PHTH 216	
This course provides advance level of knowledge and understanding related to health care planning, delivery system and ethical issues in the field of physiotherapy. The main topics in the course are professionalism, accountability, patient-therapist relationship challenges, patient rights, medicolegal aspects of health care, malpractice issues, Professional standards, Code of Ethics, Standards of Practice in Physiotherapy profession and other related topics.							
STAT	201	Medical Statistics	3	0	3	STAT 101	
encompassed in n	nedical stat	elementary statistics to basic principles and methods istics. The emphasis will be on the design and interpr ith the main epidemiological content, and practical se	etation	of epi	demiolo	gical studies. Appropriate statistical	
					19		

BSPT 24-25 - FOURTH YEAR (38 CREDITS)

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
PHTH	412	Theories of Neurological Physiotherapy	2	2	3	PHTH 222 AND PHTH 223 AND PHTH 229
review of basic c management of	oncepts in n commonly e	with critical knowledge and principles of physiothera euroanatomy relevant to the neurological sciences. D ncountered neurological conditions are presented. Pro ussed. Teaching is supplemented with practical skills t	iscussi e- and	ons of post-o	the basi perative	ic principles in the rehabilitation physiotherapy procedures for
PHTH	413	Clinical: Neurological Medicine & Surgery	2	2	3	PHTH 222 AND PHTH 223 AND PHTH 229
management will including central	l be discusse and periphe	al knowledge and understanding of different neurologed in this course. Students will be trained on proper nearly nerve system diseases, spinal cord diseases and interacting is supplemented with clinical visits.	eurolog	gical as	ssessme	nt and differential diagnosis. Conditions
PHTH	414	Clinical: Neurological Physiotherapy	0	8	4	PHTH 222 AND PHTH 223 AND PHTH 229
physiotherapy as central and perip discussed.	sessment ar heral nerve	alized applied knowledge and practical exposure in cli nd treatment skills. The training includes providing ph system diseases, spinal cord diseases and injuries, tr	ysiothe aumati	erapy t	echniqu injury a	es for patients with conditions including ind common neurosurgical procedures are
PHTH	415	Introduction to Pharmacology	3	0	3	CHEM 214
The course inclue	des an intro	I knowledge related to pharmacology aims to introduc duction to basics of drugs used for therapeutic purpos a-blocker indications, analgesics and other related to	ses, ma			
HCRM	498	Research Methodology in Health Sciences	3	0	3	STAT 201 AND PHTH 325 AND Completion of at least 90 credits
academic researd analyzing data, a	ch project. T and thesis wi	with critical knowledge and understanding related to the course covers important concepts including select riting and presentation. The course is delivered throu y to the final project in physiotherapy.	ing an	approp	oriate re	search design, sampling, data collection,
XXXX	XXX	Major Elective	Х	Х	3	
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BSPT 24-25

Second Semester

	Code	Course Title	Lec	Lab	Cr	Prerequisite
PHTH	499	Major Project	0	6	3	HCRM 498 AND Completion of at least 90 credits
project. Each lea	arner will be	nduct scientific research in the field of physiotherapy a required to select and complete a research project ur and an oral presentation. The major project should co	der th	e supe	rvision o	f a faculty member. Assessment will take
PHTH	421	Clinical: Pediatric Physiotherapy	0	8	4	PHTH 222 AND PHTH 223 AND PHTH 229
	udes provid	ing physiotherapy techniques for patients with cerebra ric conditions.				
PHTH	422	Theories of Pediatric Physiotherapy	2	2	3	PHTH 222 AND PHTH 223 AND PHTH 229
	, 5	enital, acquired malformations are presented in systen nerapy treatment. The course includes pre- and post-				, ,
surgical cases, p PHTH	eractical train	ning in assessment techniques, cerebral palsy testing, Clinical: Pediatric Medicine & Surgery				
PHTH The course cove genetics, embry orthopaedic pae	423 ers diagnosis ology, intrau diatric devel		and Bo 2 cric cas es &dia mmon	bath c 2 es, the gnosis paediat	oncept. 3 main to Erb's p rric surg	PHTH 222 AND PHTH 223 AND PHTH 229 ppics in the course are introduction to alsy and other peripheral neonatal injuries
PHTH The course cove genetics, embry orthopaedic pae	423 ers diagnosis ology, intrau diatric devel	Clinical: Pediatric Medicine & Surgery c, clinical presentation & treatment of common paediat uterine male function, neonatology, cerebral palsy type lopmental, normal physiological developments and com	and Bo 2 cric cas es &dia mmon	bath c 2 es, the gnosis paediat	oncept. 3 main to Erb's p rric surg	PHTH 222 AND PHTH 223 AND PHTH 229 ppics in the course are introduction to alsy and other peripheral neonatal injuries,
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LIST OF MAJOR ELECTIVE COURSES

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
PHTH	426	Community Well-being and Public Health	3	0	3			
This course provides critical knowledge related to community wellbeing and public health principles for graduate level students in health field. Community wellbeing and public health focuses on the health of populations or groups. The course will cover a broad range of community wellbeing and public health issues and will focuses on strategies to improve the health of the populations with emphasis on health protection, disease prevention, health promotion and nutritional problem and its rehabilitation. At the end of the course the learners will be able to identify different practices for community wellbeing and share public health schemes that support improving the community at large.								
PHTH	427	Human Physical Growth and Development	3	0	3			
principles of grow psychological asp	The course presents a description of the changes that a human being undergoes from conception to old age. It concentrates on theories and principles of growth and development; various stages of growth and development in terms of motor, perceptual, cognitive, language and psychological aspects; including effects of disability on the growth pattern in each age group. Such knowledge is important in approaching and evaluating patients with various ages and backgrounds.							
PHTH	428	Sports Injuries	3	0	3			
This course is designed to provide critical understanding of how sporting injuries can occur, the assessment, diagnosis, treatment and management of such injuries. The course will also investigate the principles behind the rehabilitation of sports injuries. By using a variety of techniques and approaches, the therapist will provide a valuable service to clients in this specialist area, either on a freelance basis or as part of their employment in a health and fitness facility.								
PHTH	429	Women's Health	3	0	3			
childbearing, me can deal with the programs concer	nopause and ese such issu ning obstetri	knowledge and understanding on the topics of the we postmenopausal. It focuses on theories and principles es, like pregnancy, labor, postnatal, menstrual probler cal and gynecological operations, obesity and its impa- ts to deal with new era in the health system.	s of ph ms, pel	ysiothe vic floo	erapy as or dysfu	ssessment, techniques and modalities that inction, pre and post operative treatment		