



**Jordan Univesity of Science & Technology**  
**Faculty of Applied Medical Sciences**

**Curriculum for the Bachelor's Degree**  
**In**  
**PHYSICAL THERAPY**

**2024**



## About the Program

The Bachelor of Physical Therapy program at Jordan University of Science and Technology (JUST) was established to provide students with the knowledge, skills, and behaviors necessary to become qualified physical therapists. The program aims to develop a strong scientific foundation and an excellent ability to analyze and understand medical conditions, enabling students to assess patients, provide appropriate treatment, and enhance communication skills with patients. Over the course of four years, students study essential medical courses such as anatomy, physiology, pathology, surgery, and neurology, in addition to theoretical and practical courses in physical therapy. Graduates are prepared to work in various healthcare settings, including hospitals, rehabilitation centers, clinics, sports clubs, and senior care centers, with a focus on evidence-based practice and patient-centered care.

## Vision

The vision of the department is to lead, through academic and research excellence, regional and national health care delivery in the field of rehabilitation sciences.

## Mission

Consistent with the mission of Jordan University of Science and Technology (JUST) and the Faculty of Applied Medical Sciences (FAMS), our mission at the department of rehabilitation sciences is to be a premier in improving physical therapy profession through graduating fully qualified graduates to fulfill the need in the community and the region.

## Objectives

- ? Demonstrate Professionalism: Graduates of the PT program will exhibit professionalism by adhering to ethical standards, demonstrating integrity in their interactions with patients and colleagues, and upholding the values of the profession.
- ? Provide Community Support: Graduates will actively engage with their communities to promote health and wellness, provide education on preventive care and rehabilitation strategies, and advocate for equitable access to physical therapy services for diverse populations.
- ? Commit to Lifelong Learning: Graduates will hold a commitment to lifelong learning by actively seeking out opportunities for professional development, staying up-to-date of advancements in physical therapy practice and research, and continuously enhancing their knowledge and skills to deliver high-quality care to patients.

## Outcomes

1. Integrate principles and knowledge from biological, physical, behavioral, and clinical sciences to formulate comprehensive and effective physiotherapy interventions.
2. Maintain professional standards and ethical conduct consistent with the legal and moral expectations of the physiotherapy profession.
3. Demonstrate empathy, integrity, and respect for diversity in all interactions with patients/clients, families, healthcare providers, and stakeholders.
4. Communicate effectively and sensitively through verbal, nonverbal, and written means, considering cultural variation and individual preferences.
5. Critically evaluate research data and literature to inform evidence-based practice and enhance clinical decision-making in physiotherapy.
6. Conduct thorough patient/client screenings to determine suitability for physiotherapy interventions or the need for referral to other healthcare professionals or services.
7. Perform comprehensive patient/client examinations and re-examinations, analyze findings, and formulate accurate physiotherapy diagnoses and prognoses.
8. Apply critical thinking, reflection, and evidence-based principles to develop and implement individualized, evidence-based treatment plans in physiotherapy practice.



9. Collaborate effectively with patients/clients, caregivers, and interdisciplinary healthcare teams to optimize patient outcomes and resource utilization.
10. Provide education, counseling, and support to promote health, wellness, and disease prevention, and advocate for patients/clients and the profession of physiotherapy.



### The University Codes are as follows:

Code	Department
MED	DOCTOR OF MEDICINE (MD)
HSS	BASIC SCIENCES AND HUMANITIES
LM	ALLIED MEDICAL SCIENCES
P.T	PHYSICAL THERAPY
PHY	PHYSICS
NUR	NURSING
BT	BIOTECHNOLOGY & GENETIC ENGINEERING
CHEM	CHEMISTRY
PH	PUBLIC HEALTH

### Study Plan of The Bachelor's Degree in PHYSICAL THERAPY

The Bachelor's Degree in PHYSICAL THERAPY is awarded from Department of Rehabilitation Sciences at the Faculty of Applied Medical Sciences in Jordan University of Science & Technology (JUST) after the successful completion of 135 credit hours distributed as shown in the following table:

Requirements	Credit Hours		
	Compulsory Hours	Elective Hours	Total
University Requirements	16	9	25
Faculty Requirements	21	0	21
Department Requirements	89	0	89
Total	126	9	135

After fulfilling the requirements stipulated in the instructions for granting a Bachelor's degree (revised edition) at the Jordan university of Science and Technology issued by the Dean's Council abiding by the regulation concerned with issuing scientific degrees and diplomas at the Jordan university of Science and Technology for 1987.



### **Firstly: University Requirements**

Allocated to it (25 CHs) as stipulated in the instructions for granting a bachelor's degree, distributed as follows:

- a. Compulsory Requirements (16 CHs)
- b. Elective Requirements (9 CHs)

### **Secondly: Faculty Requirements**

Allocated to it (21 CHs) Compulsory as shown in the following table:

Course Number	Course Title	Credit Hours	Hrs Distribution		Prerequisite/Concurrent
			Theoretic	Lab	
MED230A	Human Physiology	3	3	0	HSS103BT.
MED230B	Human Physiology (Lab)	1	0	2	(MED230A OR Concurrent).
HSS103BT	General Biology	3	3	0	
HSS103PHY	General Physics	3	3	0	
HSS103CHEM	General Chemistry	3	3	0	
HSS218P.T	Gross Anatomy & Histology	2	2	0	(HSS103BT OR Concurrent).
HSS220P.T	Gross Anatomy And Histology (Lab)	1	0	2	Concurrent with HSS218P.T.
HSS311PH	Biostatistics	2	2	0	
HSS491ADS	Administration And Quality Assurance In Applied Medical Sciences	3	3	0	



### **Thirdly: Department Requirements**

Allocated to it (89 CHs) Compulsory as shown in the following table:

Course Number	Course Title	Credit Hours	Hrs Distribution		Prerequisite/Concurrent
			Theoretic	Lab	
MED226	Neuroscience (1)	2	2	0	MED230A AND HSS218P.T.
MED228	Neuroscience (1) (Lab)	1	0	2	Concurrent with MED226.
LM202	Pathology	3	3	0	HSS218P.T AND MED230A AND MED230B.
NUR252	Growth And Development	3	3	0	
HSS499LM	Graduation Project	3	0	3	
P.T102	Introduction To Physiotherapy	1	1	0	
P.T201	Musculoskeletal Anatomy	2	2	0	HSS218P.T.
P.T203	Musculoskeletal Anatomy (Lab)	1	0	2	Concurrent with P.T201.
P.T205	Biomechanics	2	2	0	HSS103PHY. (P.T203 OR Concurrent). P.T205.
P.T206	Kinesiology	2	2	0	
P.T207	Exercise Physiology	2	2	0	MED230A.
P.T208	Kinesiology( Lab)	1	0	2	Concurrent with P.T206.
P.T221	Musculoskeletal Assessment	1	1	0	(P.T203 OR Concurrent).
P.T223	Musculoskeletal Assessment (Lab)	1	0	3	Concurrent with P.T221.
P.T235	Therapeutic Exercise	2	2	0	(P.T207 OR Concurrent) AND (P.T223 OR Concurrent).
P.T236	Physical Modalities	2	2	0	MED230A.
P.T237	Therapeutic Exercise (Lab)	1	0	2	Concurrent with P.T235.
P.T238	Physical Modalities (Lab)	1	0	3	Concurrent with P.T236.
P.T242	Physical Therapy In Orthopedics (1)	2	2	0	P.T223.
P.T244	Physical Therapy In Orthopedics (1) (Lab)	1	0	3	Concurrent with P.T242.
P.T246	Imaging And Diagnostic Tools	1	1	0	MED226 AND P.T203.
P.T248	Pharmacology	1	1	0	(LM202 OR Concurrent).
P.T341	Physical Therapy In Orthopedics (2)	2	2	0	P.T244.
P.T343	Physical Therapy In Orthopedics (2) (Lab)	1	0	3	Concurrent with P.T341.
P.T345	Prosthetics And Orthotics	1	1	0	P.T203.
P.T347	Prosthetics And Orthotics (Lab)	1	0	2	Concurrent with P.T345.
P.T351	Physical Therapy In Neurology (1)	2	2	0	MED226.
P.T353	Physical Therapy In Neurology (1) (Lab)	1	0	3	Concurrent with P.T351.
P.T354	Physical Therapy In Neurology (2)	2	2	0	P.T353.
P.T355	Physical Therapy In Sport Injuries	1	1	0	P.T244. Concurrent with P.T341.



Course Number	Course Title	Credit Hours	Hrs Distribution		Prerequisite/Concurrent
			Theoretic	Lab	
P.T356	Physical Therapy In Neurology (2) (Lab)	1	0	3	Concurrent with P.T354.
P.T357	Physical Therapy In Sports Injuries (Lab)	1	0	2	Concurrent with P.T355.
P.T359	Physical Therapy In Surgical Conditions And Burns	2	2	0	P.T237 AND P.T238.
P.T362	Physical Therapy In Cardiopulmonary Diseases	2	2	0	LM202 AND P.T207.
P.T364	Physical Therapy In Cardiopulmonary Diseases (Lab)	1	0	3	Concurrent with P.T362.
P.T380	Physical Therapy In Pediatrics	2	2	0	NUR252.
P.T382	Physical Therapy In Pediatrics (Lab)	1	0	2	(P.T380 OR Concurrent).
P.T389	Neuromuscular Development	1	1	0	NUR252.
P.T392	Introduction To Clinical Practice	2	0	6	P.T223 AND P.T237.
P.T394	Physical Therapy In Women'S Health	1	1	0	P.T237.
P.T396	Physical Therapy In Geriatrics	2	2	0	NUR252.
P.T491	Clinical Training In Pediatrics (1)	3	0	6	P.T380 AND P.T392.
P.T492	Clinical Training In Pediatrics (2)	3	0	6	P.T491.
P.T493	Clinical Training In Orthopedics (1)	3	0	6	P.T343 AND P.T392.
P.T494	Clinical Training In Orthopedics (2)	3	0	6	P.T493.
P.T495	Clinical Training In Neurology (1)	3	0	6	P.T392 AND P.T356.
P.T496	Clinical Training In Neurology (2)	3	0	6	P.T495.
P.T497	Clinical Training In Cardiopulmonary	3	0	6	P.T364 AND P.T392.
P.T498	Advanced Clinical Training	5	0	10	P.T491 AND P.T493 AND P.T495.



## Guidance Plan

### First Year

#### First Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
HSS103BT General Biology	3	
HSS103CHEM General Chemistry	3	
HSS103PHY General Physics	3	
HSS110 Leader And Social Responsibility	3	
HSS119 Entrepreneurship And Innovation	2	
LG101 Communication Skills In English	3	Passing LG099 OR Passing ENG099. OR Passing the Placement Test with a mark of 50 or above.
<b>Total Hours</b>	<b>17</b>	

#### Second Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
ARB102 Communication Skills In Arabic	3	
HSS218P.T Gross Anatomy & Histology	2	(HSS103BT OR Concurrent).
HSS220P.T Gross Anatomy And Histology (Lab)	1	Concurrent with HSS218P.T.
LG103 Life Skills	2	
MED230A Human Physiology	3	HSS103BT.
MED230B Human Physiology (Lab)	1	(MED230A OR Concurrent).
NUR252 Growth And Development	3	
P.T102 Introduction To Physiotherapy	1	
<b>Total Hours</b>	<b>16</b>	



## Second Year

### First Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
LM202 Pathology	3	HSS218P.T AND MED230A AND MED230B.
P.T201 Musculoskeletal Anatomy	2	HSS218P.T.
P.T203 Musculoskeletal Anatomy (Lab)	1	Concurrent with P.T201.
P.T205 Biomechanics	2	HSS103PHY. (P.T203 OR Concurrent).
P.T207 Exercise Physiology	2	MED230A.
P.T221 Musculoskeletal Assessment	1	(P.T203 OR Concurrent).
P.T223 Musculoskeletal Assessment (Lab)	1	Concurrent with P.T221.
P.T235 Therapeutic Exercise	2	(P.T207 OR Concurrent) AND (P.T223 OR Concurrent).
P.T237 Therapeutic Exercise (Lab)	1	Concurrent with P.T235.
University Elective Requisite	3	
<b>Total Hours</b>	<b>18</b>	

### Second Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
MED226 Neuroscience (1)	2	MED230A AND HSS218P.T.
MED228 Neuroscience (1) (Lab)	1	Concurrent with MED226.
P.T206 Kinesiology	2	P.T205.
P.T208 Kinesiology( Lab)	1	Concurrent with P.T206.
P.T236 Physical Modalities	2	MED230A.
P.T238 Physical Modalities (Lab)	1	Concurrent with P.T236.
P.T242 Physical Therapy In Orthopedics (1)	2	P.T223.
P.T244 Physical Therapy In Orthopedics (1) (Lab)	1	Concurrent with P.T242.
P.T246 Imaging And Diagnostic Tools	1	MED226 AND P.T203.
P.T248 Pharmacology	1	(LM202 OR Concurrent).
University Elective Requisite	3	
<b>Total Hours</b>	<b>17</b>	



### Third Year

#### First Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
HSS311PH Biostatistics	2	
P.T341 Physical Therapy In Orthopedics (2)	2	P.T244.
P.T343 Physical Therapy In Orthopedics (2) (Lab)	1	Concurrent with P.T341.
P.T345 Prosthetics And Orthotics	1	P.T203.
P.T347 Prosthetics And Orthotics (Lab)	1	Concurrent with P.T345.
P.T351 Physical Therapy In Neurology (1)	2	MED226.
P.T353 Physical Therapy In Neurology (1) (Lab)	1	Concurrent with P.T351.
P.T355 Physical Therapy In Sport Injuries	1	P.T244. Concurrent with P.T341.
P.T357 Physical Therapy In Sports Injuries (Lab)	1	Concurrent with P.T355.
P.T359 Physical Therapy In Surgical Conditions And Burns	2	P.T237 AND P.T238.
P.T389 Neuromuscular Development	1	NUR252.
University Elective Requisite	3	
<b>Total Hours</b>	<b>18</b>	

#### Second Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
P.T354 Physical Therapy In Neurology (2)	2	P.T353.
P.T356 Physical Therapy In Neurology (2) (Lab)	1	Concurrent with P.T354.
P.T362 Physical Therapy In Cardiopulmonary Diseases	2	LM202 AND P.T207.
P.T364 Physical Therapy In Cardiopulmonary Diseases (Lab)	1	Concurrent with P.T362.
P.T380 Physical Therapy In Pediatrics	2	NUR252.
P.T382 Physical Therapy In Pediatrics (Lab)	1	(P.T380 OR Concurrent).
P.T392 Introduction To Clinical Practice	2	P.T223 AND P.T237.
P.T394 Physical Therapy In Women'S Health	1	P.T237.
P.T396 Physical Therapy In Geriatrics	2	NUR252.
<b>Total Hours</b>	<b>14</b>	



### Forth Year

#### First Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
HSS491ADS Administration And Quality Assurance In Applied Medical Sciences	3	
P.T491 Clinical Training In Pediatrics (1)	3	P.T380 AND P.T392.
P.T493 Clinical Training In Orthopedics (1)	3	P.T343 AND P.T392.
P.T495 Clinical Training In Neurology (1)	3	P.T392 AND P.T356.
P.T497 Clinical Training In Cardiopulmonary	3	P.T364 AND P.T392.
<b>Total Hours</b>	<b>15</b>	

#### Second Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
HSS499LM Graduation Project	3	
P.T492 Clinical Training In Pediatrics (2)	3	P.T491.
P.T494 Clinical Training In Orthopedics (2)	3	P.T493.
P.T496 Clinical Training In Neurology (2)	3	P.T495.
P.T498 Advanced Clinical Training	5	P.T491 AND P.T493 AND P.T495.
<b>Total Hours</b>	<b>17</b>	



## Description of Courses

### **P.T102: Introduction To Physiotherapy (1 CHs)**

#### **Prerequisite: None**

Students will explore the fundamental knowledge required in the physical therapy profession. Issues related to code of ethics, models of care, communication, documentation, and rehabilitation team are addressed.

### **P.T201: Musculoskeletal Anatomy (2 CHs)**

#### **Prerequisite: HSS218P.T.**

The course covers the axial and appendicular skeleton, articular and muscular systems in terms of structural and functional anatomy of bones, joints, muscle origins, insertions, innervation and blood supply.

### **P.T203: Musculoskeletal Anatomy (Lab) (1 CHs)**

#### **Prerequisite: Concurrent with P.T201.**

Students will visualize, label, and palpate the bony landmarks, joint structures, muscle attachments, innervations, and circulatory pathways.

### **P.T205: Biomechanics (2 CHs)**

#### **Prerequisite: HSS103PHY.**

#### **(P.T203 OR Concurrent).**

Comprehensive understanding of the mechanical principles of musculoskeletal function and human movement is addressed. Principles of stresses and strains in human tissue will be discussed. Posture and gait analysis will be covered.

### **P.T206: Kinesiology (2 CHs)**

#### **Prerequisite: P.T205.**

Analysis of biomechanical principles of motor control for human movements with understanding of lifting, reaching, and grasping. Additionally, concepts including muscle roles, kinematic chain movements, and muscle insufficiency will be discussed.

### **P.T207: Exercise Physiology (2 CHs)**

#### **Prerequisite: MED230A.**

Understanding of the acute responses and chronic adaptations of the cardiovascular, respiratory, endocrine, musculoskeletal, and metabolic systems to exercise. Principles of training and prescription for aerobic, resistance, and stretching exercises will be discussed.

### **P.T208: Kinesiology( Lab) (1 CHs)**

#### **Prerequisite: Concurrent with P.T206.**

Practical demonstration of kinesiological concepts including lifting, reaching, grasping, muscle roles, kinematic chain movements, and muscle insufficiency as well as normal gait analysis.

### **P.T221: Musculoskeletal Assessment (1 CHs)**

#### **Prerequisite: (P.T203 OR Concurrent).**

Understanding the evaluation of muscular strength, joint range of motion, cardiovascular endurance, gait and posture. Additionally, methods and equipment used to measure these variables will be identified.



**P.T223: Musculoskeletal Assessment (Lab) (1 CHs)**

**Prerequisite: Concurrent with P.T221.**

Students will practice evaluating muscular strength and endurance, joint range of motion, cardiovascular endurance, gait and posture.

**P.T235: Therapeutic Exercise (2 CHs)**

**Prerequisite: (P.T207 OR Concurrent) AND (P.T223 OR Concurrent).**

Understanding the principles, goals, indications, and contraindications for various exercise modes. The techniques and applications for range of motion, stretching, resistive, mobilization, balance, aquatic, and aerobic exercises will be explained.

**P.T236: Physical Modalities (2 CHs)**

**Prerequisite: MED230A.**

Studying the physiological effects and clinical applications of thermal and cryo agents, laser, electrotherapy and hydrotherapy. Additionally, the principles and techniques massage will be discussed.

**P.T237: Therapeutic Exercise (Lab) (1 CHs)**

**Prerequisite: Concurrent with P.T235.**

Students will practice prescribe and apply various exercise modes including range of motion, stretching, resistive, mobilization, balance, aquatic, and aerobic exercises.

**P.T238: Physical Modalities (Lab) (1 CHs)**

**Prerequisite: Concurrent with P.T236.**

The students will practice applying physical modalities including thermal and cryo agents, laser, electrotherapy, hydrotherapy and massage.

**P.T242: Physical Therapy In Orthopedics (1) (2 CHs)**

**Prerequisite: P.T223.**

Understanding the knowledge and skills of physical therapy assessment, differential diagnosis, and interventions related to individuals with orthopedic conditions of upper limbs and lower limbs.

**P.T244: Physical Therapy In Orthopedics (1) (Lab) (1 CHs)**

**Prerequisite: Concurrent with P.T242.**

Student will practice the skills of physical therapy assessment, differential diagnosis, and interventions related to individuals with orthopedic conditions of upper limbs and lower limbs.

**P.T246: Imaging And Diagnostic Tools (1 CHs)**

**Prerequisite: MED226 AND P.T203.**

Understanding the principles of interpreting medical imaging. The diagnostic tools including x-ray, CT-scan, MRI, fMRI, nerve conduction studies, EMG, EEG, MEG, PET and NIRS will be covered.

**P.T248: Pharmacology (1 CHs)**

**Prerequisite: (LM202 OR Concurrent).**

List of most common medications affecting musculoskeletal, nervous, cardiovascular, respiratory and metabolic systems in terms of their pharmacokinetics, uses, and their side effects.



**P.T341: Physical Therapy In Orthopedics (2) (2 CHs)**

**Prerequisite: P.T244.**

Understanding the knowledge and skills of physical therapy assessment, differential diagnosis, and interventions related to individuals with orthopedic conditions of lumber and cervical spine.

**P.T343: Physical Therapy In Orthopedics (2) (Lab) (1 CHs)**

**Prerequisite: Concurrent with P.T341.**

Student will practice the skills of physical therapy assessment, differential diagnosis, and interventions related to individuals with orthopedic conditions of lumber and cervical spine.

**P.T345: Prosthetics And Orthotics (1 CHs)**

**Prerequisite: P.T203.**

The course focuses on prescription and design of orthoses, braces, and artificial limbs. Appropriate use and maintenance of the orthoses and prosthesis will also be addressed

**P.T347: Prosthetics And Orthotics (Lab) (1 CHs)**

**Prerequisite: Concurrent with P.T345.**

Practicing the principle of prescribing, designing, using and maintaining common orthoses and prosthesis.

**P.T351: Physical Therapy In Neurology (1) (2 CHs)**

**Prerequisite: MED226.**

Understanding the physical therapy assessment and intervention techniques for neurological conditions and diseases.

**P.T353: Physical Therapy In Neurology (1) (Lab) (1 CHs)**

**Prerequisite: Concurrent with P.T351.**

Students will practice the physical therapy assessment and intervention techniques for neurological conditions and diseases.

**P.T354: Physical Therapy In Neurology (2) (2 CHs)**

**Prerequisite: P.T353.**

Understanding the pathophysiology and prognosis of different neurological conditions. Utilizing various assessment and interventions techniques for the management of neurological conditions will be emphasized.

**P.T355: Physical Therapy In Sport Injuries (1 CHs)**

**Prerequisite: P.T244.**

**Concurrent with P.T341.**

The course provides essential practical skills in physical therapy, focusing on the examination and rehabilitation techniques necessary for treating sports injuries in stadiums and rehabilitation centers.

**P.T356: Physical Therapy In Neurology (2) (Lab) (1 CHs)**

**Prerequisite: Concurrent with P.T354.**

Case studies will be provided for students to discuss and practice the related physical therapy assessment and intervention techniques for neurological conditions and diseases.



**P.T357: Physical Therapy In Sports Injuries (Lab) (1 CHs)**

**Prerequisite: Concurrent with P.T355.**

The course focuses on prescription and design of orthoses, braces, and artificial limbs. Appropriate use and maintenance of the orthoses and prosthesis will also be addressed

**P.T359: Physical Therapy In Surgical Conditions And Burns (2 CHs)**

**Prerequisite: P.T237 AND P.T238.**

Acquiring knowledge about surgical procedures and burn types. Assessment, and pre/post-operation management with emphasis on rehabilitation protocols for surgical procedures and burns will be covered.

**P.T362: Physical Therapy In Cardiopulmonary Diseases (2 CHs)**

**Prerequisite: LM202 AND P.T207.**

This course includes understanding of primary and secondary prevention, and rehabilitation in the management cardiovascular/pulmonary diseases, with emphasis on the etiology and pathology. Exercise testing, ECG, and designing specialized programs in cardiovascular diseases are also addressed.

**P.T364: Physical Therapy In Cardiopulmonary Diseases (Lab) (1 CHs)**

**Prerequisite: Concurrent with P.T362.**

Common laboratory and diagnostic tests, ECG, and rehabilitation approaches will be practiced.

**P.T380: Physical Therapy In Pediatrics (2 CHs)**

**Prerequisite: NUR252.**

Introducing rehabilitative methods and tools to examine, evaluate and treat pediatrics. The pathophysiology of common disorders in children will be covered.

**P.T382: Physical Therapy In Pediatrics (Lab) (1 CHs)**

**Prerequisite: (P.T380 OR Concurrent).**

This specialized practical course equips students with the knowledge and skills necessary to assess and treat a wide range of pediatric conditions. The course emphasizes critical areas, including understanding normal and abnormal developmental stages in children, conducting comprehensive assessments using standardized tests, and designing individualized treatment plans.

**P.T389: Neuromuscular Development (1 CHs)**

**Prerequisite: NUR252.**

The course covers the stages of motor and neurological development in newborns up to two years of age, highlighting the key motor skills acquired at each developmental stage.

**P.T392: Introduction To Clinical Practice (2 CHs)**

**Prerequisite: P.T223 AND P.T237.**

Observing assessment and management for patients with orthopedic, neurological, and cardiopulmonary disorders in clinical facilities. Understanding the local system in terms of referral, policies, roles and regulations, and patient documentation will be practiced.

**P.T394: Physical Therapy In Women'S Health (1 CHs)**

**Prerequisite: P.T237.**

The course provides an in-depth examination of significant issues and complications associated with pregnancy and childbirth, as well as urinary incontinence. It also covers essential physical therapy techniques relevant to these conditions.



**P.T396: Physical Therapy In Geriatrics (2 CHs)**

**Prerequisite: NUR252.**

Understanding age-related physiological and pathological changes. Concerns related to physical therapy in geriatric population will be emphasized. Services provided by the health care system and community as well as future needs for the geriatric population will be covered.

**P.T491: Clinical Training In Pediatrics (1) (3 CHs)**

**Prerequisite: P.T380 AND P.T392.**

Observing assessment and management for pediatric patients in clinical facilities.

**P.T492: Clinical Training In Pediatrics (2) (3 CHs)**

**Prerequisite: P.T491.**

Practicing assessment and management for pediatric patients in clinical facilities.

**P.T493: Clinical Training In Orthopedics (1) (3 CHs)**

**Prerequisite: P.T343 AND P.T392.**

Observing assessment and management for patients with musculoskeletal and rheumatological conditions in clinical facilities.

**P.T494: Clinical Training In Orthopedics (2) (3 CHs)**

**Prerequisite: P.T493.**

Practicing assessment and management for patients with musculoskeletal and rheumatological conditions in clinical facilities.

**P.T495: Clinical Training In Neurology (1) (3 CHs)**

**Prerequisite: P.T392 AND P.T356.**

Observing assessment and management for patients with neurological disorders in clinical facilities.

**P.T496: Clinical Training In Neurology (2) (3 CHs)**

**Prerequisite: P.T495.**

Practicing assessment and management for patients with neurological disorders in clinical facilities.

**P.T497: Clinical Training In Cardiopulmonary (3 CHs)**

**Prerequisite: P.T364 AND P.T392.**

**P.T498: Advanced Clinical Training (5 CHs)**

**Prerequisite: P.T491 AND P.T493 AND P.T495.**

Practicing assessment and management for patients with orthopedic, neurological, and cardiopulmonary disorders in clinical facilities with minimal supervision to gain sound appraisal and independency during clinical performance.