

**Curriculum
Syllabus/Courses of Study
FOR
Continuous Professional Education /
Professional Deficiencies Make up Course**



**Gandhara University
Mahboob School of Physiotherapy (MSP) Peshawar
www.hpcpk.org**

CONTENTS

- ***CONTENTS:*** _____ **2**
- ***INTRODUCTION:*** _____ **3**
- ***ASSESSMENT CRITERIA / PLAN:*** _____ **4**
- ***GRADING SYSTEM:*** _____ **5**
- ***COURSE DESCRIPTION:*** _____ **5**
- ***COURSE OUTLINES:*** _____ **7 - 20**

Introduction to Continues Professional Educational Courses Program in Physical Therapy

Mahboob School of Physical Therapy (MSP) started its DPT Program in () and realized the course deficiency of highly qualified Physical Therapist whom are going abroad. Thus, keeping the need of those Physical Therapist we are proud to announce the program of Requisite courses in Physical Therapy in the category of General education and in Professional education in November, 2014.

This program will provide physiotherapy graduates with advanced, specialized training in respective disciplines of physiotherapy and also enhance their General education. They will have a sound base of scientific knowledge and clinical skills required to critically evaluate and contribute to current research in the basic and applied sciences relevant to the domain of Physical Therapy.

This program has been designed to meet both national and international standards fulfilling criteria for further education and job opportunities.

Program Mission:

The Requisite Program is committed to providing an educational opportunity for its students, which is excellent, innovative and consistent with the mission of the MSP/GU. With an emphasis on problem-based, self-directed learning, and integrated academic and clinical education, the Program provides professional, inter-personal and inter-professional educational opportunities in partnership with the community and university at large.

Aim of the Course:

1. To upgrade the knowledge and skills of graduates who are regarded as expert by physiotherapy colleagues, other health professionals and the wider community.
2. To produce leaders in the field of physiotherapy management for clients with Disorders related to Physical Therapy, who are able to provide and promote best quality services?
3. To encourage willingness and ability to embark on lifelong continuing education to promote optimal care of patients.
4. To develop a highly proficient physiotherapist whose clinical skills and knowledge are exemplary?
5. To facilitate high levels of analytical and interpretative skills and abilities to integrate information in a holistic manner in the clinical problem solving process.
6. To enhance interpersonal and communicative skills and awareness of all aspects of a patients problem to encourage practice of high ethical and professional standards.
7. To further develop skills of critical evaluation of the literature and published research; and to encourage active participation in clinical outcome evaluation and research.

Program Out-Comes:

After completion of the program students will be able to;

Examine and provide Physical Therapy services to the patients having disorders related to Physical Therapy in their own discipline.

Function as a member of multidisciplinary rehabilitation team in disabled community. Design education based and research oriented Physical Therapy practice.

Use communication skills verbally and in descriptive pattern to interact with patients and community.

Conduct their activities in a professional and ethical manner. Develop lifelong learning and professional growth.

Describe problem in the Physical Therapy practice and understand their difficulties. Design experiments, collect data, analyze and interpret results.

Course Title	Continues professional educational courses in Physical Therapy (GENERAL CATEGORY+ PROFESSIONAL CATAGORY):
Course Duration	Semester-based

Assessment Criteria/Plan

Seasons Exam after 8 weeks

Final semester Exam after 18 weeks

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Subjects with theory, viva and practical:

a) Theory paper: 100% MCQs, marks =100

b) Duration of paper = 2 hours

Assessment Criteria:

c) Assignments=10%

d) Session Exam=30%

e) Final Exam =40 %

f) Viva & practical=20 %

g) Cumulative 60%=Pass

■

Subjects only have theory papers:

a) Theory paper: 100% MCQs marks =100

b) Duration of papers =2 hours

c) Assessment Criteria:

d) Assignments=10%

e) Session Exam=40%

f) Final Exam =50%

g) Cumulative 60%=Pass

GRADING SYSTEM:

S No	Letter Grade	Grade Point Value	Numerical Grade (%)
01	A	4.0	80% to 100%
02	B	3.0	70% to 79.9%
03	C	2.0	60% to 69.9%
04	F	0	Below 60% considered FAIL

COURSES DESCRIPTION:

Continues professional educational courses in physical therapy

(General + Professional category):

Course Code:	Course Title	Credit Hours			Contact Hours/Week		Total Contact Hours/Semester
		Theor y	Practical / Labs.	Total	(Theory + Practical / Labs.)	Total /wk	
PT/GU-CPE#1	Psychology Examination and evaluation: (Marks distribution) 30% Discussion/ Presentation 20% Case study/Assignments 50% Examination	3	0	3	(3+0)	3	48
PT/GU-CPE#2	Genetics Examination and evaluation: (Marks distribution) 30% Discussion/ Presentation 20% Case study/Assignments 50% Examination	3	1	4	(3+2)	5	80
PT/GU-CPE#3	Biochemistry with Lab Examination and evaluation: (Marks distribution) 30% Discussion/	3	1	4	(3+2)	5	80

	Presentation 20% Case study/Assignments 50% Examination						
PT/GU- CPE#4	Emergency Procedure Examination and evaluation: (Marks distribution) 30% Discussion/ Presentation 20% Case study/Assignments 50% Examination	2	0	2	(2=0)	2	32
PT/GU- CPE#6	Professional Practice /Consultation, Screening and Delegation Examination and evaluation: (Marks distribution) 30% Discussion/ Presentation 20% Case study/Assignments 50% Examination	3	0	3	(3+0)	3	48
PT/GU- CPE#5	Examination, Evaluation and intervention Examination and evaluation: (Marks distribution) 30% Discussion/ Presentation 20% Case study/Assignments 50% Examination	2	1	3	(2+2)	4	64
Total Credit hours & Clock hours					19	22	352

BEHAVIORAL SCIENCES

(Psychiatry & Psychology)

COURSE CODE # PT/GU-CPE#1

CREDIT HOURS 3(3+0)

COURSE DESCRIPTION:

This course is designed to increase awareness of psychosocial issues faced by individuals and their significant reference groups at various points on the continuum of health and disability, including factors that influence values about health promotion, wellness, illness and disability. Personal and professional attitudes and values are discussed as they relate to developing therapeutic relationships. Communication skills are emphasized for effective interaction with clients, health-care professionals and others

DETAILED COURSE

OUTLINE: INTRODUITION

- Behavioral Sciences and their importance in health
- Bio-Psycho-Social Model of Healthcare
- Desirable attitudes
- Correlation of brain, mind and Behavioral Sciences
- Roles of a doctor

UNDERSTANDING BEHAVIOUR

- Sensation, sense organs / special organs
- Perception and factors affecting it
- Attention and concentration
- Memory and its stages, types and methods to improve it
- Types and theories of thinking
- Cognition and levels of cognition
- Problem solving and decision making strategies
- Communication Its types, modes and factors affecting it Non-verbal cues
- Characteristics of a good communicator

PERSONALITY AND INTELLIGENCE

- Stages and characteristics of psychological growth and development
- Personality and development theories of personality Factors affecting personality development
- Assessment of personality Influence of personality in determining reactions during health, disease, hospitalization, stress, etc
- Intelligence and its types Relevance of IQ and EQ Methods of enhancing EQ and effectively using IQ Factors affecting intelligence and their assessment

STRESS MANAGEMENT

- Definition and classification of stress and stressors
- Relationship of stress and stressors with illness
- Stress and health
- Anxiety
- Coping skills
- Psychological defence mechanisms
- Conflict and frustration

- Adjustment and maladjustment
- Patient anxiety / stress
- Psychological theories of pain perception and patients' experience of pain
Treatment adherence and compliance
- Psychological techniques including hypnosis

DOCTOR – PATIENT RELATIONSHIP

- Concept of boundaries and psychological reactions in doctor – patient relationship (such as transference and counter transference)

PAIN, SLEEP AND CONSCIOUSNESS

- Concept of pain
- Physiology of pain, psychosocial assessment and management of chronic /intractable atypical facial pain
- Stages of sleep
- Physiology of consciousness
- Attend states of consciousness
- Psychological influence on sleep and consciousness
- Non-pharmacological methods of inducing sleep
- Changes in consciousness

COMMUNICATION SKILLS

- Principles of effective communication
- Active listening
- Art of questioning
- Good and bad listener
- Counseling: steps, scope, indication and contraindications
- Dealing with real life crisis and conflict situations in health settings
- A practical method of communication between the doctor and patient about disease, drugs, prognosis etc

INTERVIEWING

- Collecting data on psychosocial factors in Medicine / Surgery / Reproductive Health / Paediatrics and other general health conditions
- Types of interview
- Skills of interviewing

HEALTH PSYCHOLOGY

- Importance of psychological consideration in clinical management of patients
- Psychological therapies
- Key concepts in child's social and cognitive development
- Psychological changes during adolescence and old age and their clinical management
- Impact of illness on a patient's psychological well being including the ability to cope and understand the association between psychological stress and physical well being
- Role of doctor in patient reassurance and allaying anxiety and fear

SOCIAL AND COMMUNITY PERSPECTIVE

- Inequalities of healthcare and the relationship of social class
- Ethnicity, culture and racism, How disease pattern and medical care vary by culture and ethnicity?
- Gender and Healthcare
- Influence of health and illness on behaviour

APPLICATION OF BEHAVIOURAL PRINCIPLES IN HEALTH AND DISEASE

- Mentally / emotionally handicapped

- Physically handicapped
- Chronically ill
- Homebound
- Medically compromised

Recommended Text Books:

- ❖ A Handbook of Behavioural Sciences for Medical and Dental Students By: Mowadat H Rana, Sohail Ali and Mansoor Mustafa, , University of Health Sciences Lahore
- ❖ Medicine in Society ; Behavioural Sciences for Medical Students, By: Christopher Dowrick, , Arnold Publisher
- ❖ Behavioural Sciences in Clinical Medicine By: Wolf & Stewart
- ❖ Developmental Psychology for Healthcare Professions By: Katherine A Billingham

Genetics

CREDIT HOURS 4(3+1)

COURSE CODE # PT/GU-CPE#2

COURSE OBJECTIVES:

Genetics is a course that is designed for students who would like a more in depth study of the biology of inheritance and inheritance patterns. This course focuses on classical Mendelian genetics, the DNA molecule and molecular genetics, and on population genetics. Topics covered include:

- Chromosomes and Cellular Reproduction
- Basic Principles of Heredity
- Sex Determination and Sex-Linked Characteristics
- Pedigree Analysis and Applications
- Linkage and Recombination
- Bacterial Genetics
- The Chemistry of DNA
- DNA Replication and Recombination
- Transcription, Translation and Protein Synthesis
- Population and Evolutionary Genetics

Appropriate laboratory and field experiences will be provided to allow students the opportunity to develop and use scientific inquiry skills. Additionally, students will also learn the mathematical skills necessary for a solid understanding of the course material.

- DNA Replication and Protein Synthesis
- Chromosomes and Cellular Reproduction
- Basic Principles of Heredity
- Linkage and Recombination
- Pedigree Analysis and Human Genetic Disorders
- Bacterial Genetics
- Population Genetics

OUTLINE OF COURSE CONTENT :

Part I – Heredity and Phenotype

- Mitosis and Meiosis
- Mendelian Genetics
- Modifications of Mendelian Ratios
- Sex, Determination, Sex Differentiation, and Sex Linkage
- Linkage, Crossing Over, and Chromosome Mapping.
- Quantitative Inheritance, Phenotypic Expression and Heritability

Part II – DNA – The Chemical Basis of Heredity

- .DNA – The Genetic Material
- Nucleic Acids
- Replication and Synthesis of DNA
- The organization of DNA in Chromosomes

Part III – Genetic Variation

- Variations in Chromosome Number and Arrangement
- Mutation and Mutagenesis
- Bacterial and Viral Genetics 4. Extrachromosomal Inheritance

Part IV – Gene Structure, Function, and Regulation

- Genes and Proteins
- The Genetic Code
- Synthesis of RNA and Protein: Transcription and Translation
- Gene Structure and Organization 5. Genetic Regulation

Part V—Genomics, Proteomics and Genetic Engineering

- Genomic Sequences and Analysis
- The Human Genome: The Human Genome Project
- Genetic Engineering: Techniques
- Proteomic Technology
- . Applications of Biotechnology

Part VI – Genetics of Organisms and Populations

- Molecular Genetics of the Cell Cycle and Cancer
- The Role of Genes In Development
- Somatic Cell Genetics
- Genes and Behavior
- Population Genetics
- Molecular Evolution

Reference Books:

- ❖ Genetics, A Conceptual Approach, Benjamin Pierce, W.H. Freeman Publishers, Most Recent Edition
- ❖ Concepts of Genetics, William Klug, et al., Pearson/Prentice Hall, Most Recent Edition

BIOCHEMISTRY WITH LAB
CREDIT HOURS 4(3+1)
COURSE CODE # PT/GU-CPE#3

COURSE DESCRIPTION:

This course provides the knowledge and skills in fundamental organic chemistry and introductory biochemistry that are essential for further studies. It covers basic biochemical, cellular, biological and microbiological processes, basic chemical reactions in the prokaryotic and eukaryotic cells, the structure of biological molecules, introduction to the nutrients i.e. carbohydrates, fats, enzymes, nucleic acids and amino acids. The nutritional biochemistry concludes the course.

DETAILED COURSE

OUTLINE: CELL

- Introduction to Biochemistry
- Cell: (Biochemical Aspects)
- Cell Membrane Structure
- Membrane Proteins
- Receptors & Signal Molecules

BODY FLUIDS

- Structure and properties of Water
- Weak Acids & Bases
- Concept of pH & pK
- Buffers, their mechanism of action
- Body buffers

BIOMOLECULES

AMINO ACIDS, PEPTIDES & PROTEINS

- Amino acids: Classification
- Acid-Base Properties
- Functions & Significance.
- Protein Structure, Primary, Secondary & Super secondary. &, Structural Motifs
- Tertiary & Quaternary Structures of Proteins
- Protein Domains
- Classification of Proteins
- Fibrous proteins (collagens and elastins) & Globular proteins

ENZYMES

- Introduction
- Classification & Properties of Enzymes
- Coenzymes
- Isozymes & Proenzymes
- Regulation & Inhibition of Enzyme activity & enzymes inhibitors
- Clinical Diagnostic Enzymology

NUCLEIC ACIDS

- Structure, Functions & Biochemical Role of Nucleotides
- Structure & Functions of DNA
- Structure & Functions of RNA

NUTRITIONAL BIOCHEMISTRY

MINERALS & TRACE ELEMENTS

- Sources
- Biochemical Functions & Clinical Significance of Calcium & Phosphorus
- Sources
- Biochemical Functions & Clinical Significance of Sodium Potassium & Chloride
- Metabolism of Iron, Cu, Zn, Mg, Mn, Se, I, F

VITAMINS

- Sources
- Biochemical Functions & Clinical Significance of Fat Soluble Vitamins
- Source
- Biochemical Functions & Clinical Significance of Water Soluble
- Vitamins

NUTRITION

- Dietary Importance of Carbohydrates, Lipids & Proteins
- Balanced Diet

MOLECULAR BIOLOGY

- DNA Replication & Repair in Prokaryotes
- DNA Replication & Repair in Eukaryotes

TISSUE BIOCHEMISTRY

- Extracellular Matrix
- Collagen
- Elastin and Extracellular Matrix Components
- Biochemistry of Proteoglycans
- Bone & Teeth
- Muscle & Cytoskeleton

METABOLISM

BIOENERGETICS

- Introduction to Bioenergetics,
- Biological Oxidations
- Electron Transport Chain and Oxidative Phosphorylation

METABOLISM OF CARBOHYDRATES

- Digestion & Absorption of Carbohydrates
- Glycolysis & its Regulation
- Citric Acid Cycle
- Metabolism of Glycogen
- Gluconeogenesis and regulation of blood glucose
- Pentose Phosphate Pathway & its Significance

METABOLISM OF LIPIDS

- Digestion & Absorption of Lipids
- Metabolism & Clinical Significance of Lipoproteins
- Fatty acid oxidation biosynthesis and metabolism of Triacylglycerols
- Metabolism & clinical Significance of Cholesterol
- Metabolism of Eicosanoids

METABOLISM OF PROTEINS & AMINO ACIDS

- Digestion of Proteins & Absorption of Amino Acids
- Transamination & Deamination of Amino Acids and urea cycle
- Specialized products formed from Amino Acids

MOLECULAR BIOLOGY

- Transcription in Prokaryotes
- Transcription in Eukaryotes
- Translation: (Genetic Code) Protein Synthesis in Prokaryotes
- Translation: (Genetic Code) Protein Synthesis in Eukaryotes
- Translation Inhibition by Antibiotics
- Regulation of Gene Expression

- Recombinant DNA Technology & Polymerase Chain Reaction

HORMONES

- Classification & Mechanism of Action of Hormones
- Signal Transduction, Second Messengers and Receptors
- Steroid Hormones: Glucocorticoids and Mineralocorticoids
- Insulin & Glucagon

Recommended Text Books:

- ❖ Harper's Biochemistry by Robbert K. Murray, Daryl K. Granner, Peter A. Mayes, Victor W. Rodwell, Latest Ed.
- ❖ Lippincott's Illustrated Review of Biochemistry by Pamela C. Champe and Richard A. Harvey, Latest Ed.
- ❖ Practical Clinical Biochemistry by Varley.
- ❖ Textbook of Biochemistry by Devlin, 5th Ed.
- ❖ Textbook of Medical Biochemistry Vol-I and II by M.A. Hashmi. Biochemistry by Stryer, Lubert, Latest Ed

EMERGENCY PROCEDURES & PRIMARY CARE IN PHYSICAL THERAPY

CREDIT HOURS 2(2-0)

Course Code # PT/GU-CPE#4

COURSE DESCRIPTION:

This course provides the student with all of the skills necessary to take appropriate action in an emergency in any practice setting. Basic life support, advanced cardiac life support, and first aid and emergency preparedness are the content areas of this course. The course is designed to provide knowledge and skill in emergency techniques and in the application of appropriate action necessary to take care of the patient/client.

DETAILED COURSE OUT LINE

ORGANIZATION AND ADMINISTRATION OF EMERGENCY CARE

- Develop and implement emergency action plan
- Emergency team
- Initial patient assessment and care
- Emergency communication
- Emergency equipment and supplies
- Venue location
- Emergency transportation
- Emergency care facilities
- Legal need and documentation

PHYSICAL EXAMINATION OF THE CRITICALLY INJURED

PATIENT/ATHLETE

- Scene assessment and safety
- Body substance isolation precautions
- Primary survey
- Secondary survey
- Vital signs

AIRWAY MANAGEMENT

- Air way anatomy
- Air way compromise
- Oxygen therapy
- Advanced airway devices

SUDDEN CARDIAC DEATH

- Incidence and etiology of sudden death in general population
- Sudden cardiac arrest in athletes
- Screening and recognition of cardiac warning signs
- Preparation for cardiac emergencies
- Management of sudden cardiac arrest

HEAD INJURIES

- Pathomechanics of brain injuries
- Types of pathology
- Classification of cerebral concussion
- Cerebral contusion
- Cerebral hematoma
- Second impact syndrome
- Initial on site assessment
- Sideline assessment
- Special tests for assessment of coordination
- Special tests for assessment of cognition
- Other tests
- Medications
- Wake ups and rest

EMERGENCY CARE OF CERVICAL SPINE INJURIES

- Anatomy
- Mechanism of injuries
- Injuries to the spinal cord
- Assessment
- Management

EMERGENT GENERAL MEDICAL CONDITIONS

- Sudden death
- Exercise induced anaphylaxis
- Acute asthma
- Diabetes mellitus
- Mononucleosis
- Sick cell traits
- Hypertension

ENVIRONMENT-RELATED CONDITIONS

- Heat related emergencies and their prevention
- Cold related injuries
- Lightning
- Altitude related emergencies

ORTHOPEDIC INJURIES

- Basic emergency medical care
- Fundamentals of skeletal fractures
- Splinting techniques
- Fractures and dislocations of upper extremity
- Fractures and dislocations of lower extremity
- Fractures and dislocations of spine

ABDOMINAL INJURIES

- Initial evaluation

- Specific injuries: abdominal wall contusions, splenic injuries, liver injuries, renal injuries, intestinal injuries, pancreatic injuries
- Non-traumatic abdominal injuries: Appendicitis, ectopic pregnancy

THORACIC INJURIES

- Assessment
- Management of different Types of injuries: fractures, Pneumothorax, hemothorax, pulmonary embolism

SPINE BOARDING IN CHALLENGING ENVIRONMENTS

- The soft foam pit in gymnastics
- The pole vault pit
- The swimming pole and diving well
- The ice hockey rink

THE PSYCHOLOGICAL AND EMOTIONAL IMPACT OF EMERGENCY SITUATIONS

- Defining psychological trauma
- Psychological interventions in crisis situations
- Psychological trauma in athletic environment
- The psychological emergency response team
- Internal team members
- External team members
- The psychological interventions recommendations.

PRIMARY CARE FOUNDATION

- Primary care: physical therapy modles1
- Evidence - Based examination of diagnostic information
- Cultural competence: An essential of primary health care
- Pharmacologic considerations for the physical therapist
- The patient interview: the science behind the art

EXAMINATION/EVALUATION

- Prologue
- Symptoms investigation, Part I: Chief complaint by body region
- Symptoms investigation, Part II: Chief complaint by symptom
- Patient health history including identifying health risk factor
- Review of systems
- Patient interview: the physical examination begins
- Review of cardiovascular and pulmonary systems and vital signs
- Upper quadrant screening examination
- Lower quadrant screening examination
- Diagnostic imaging
- Laboratory tests and values

DISORDERS AND MANAGEMENT

- Acute Care Physical Therapy Examination and Discharge Planning.
- Clinical Laboratory Values and Diagnostic Testing.
- Physiologic Monitors and Patient Support Equipment.
- Bed Rest, Deconditioning, and Hospital-Acquired Neuromuscular Disorders.
- The Immune System and Infectious Diseases and Disorders.
- Cardiovascular Diseases and Disorders.
- Pulmonary Diseases and Disorders.
- Musculoskeletal/Orthopedic Diseases and Disorders

- Neurologic and Neurosurgical Diseases and Disorders.
- Endocrine Diseases and Disorders.
- Gastrointestinal Diseases and Disorders.
- Genitourinary Diseases and Disorders.
- Oncological Diseases and Disorders.
- Transplantation.
- Integumentary Diseases and Disorders
- Wound Management.

SPECIAL POPULATIONS

- The Pediatric and adolescent population
- The obstetric client
- The geriatric population
- Health and wellness perspective in primary care

Recommended Text Books:

- ❖ *Emergency Care in Athletic Training* by: Keith M.Gorse, Robert O. Blanc, Francis Feld, Matthew Radelet, 1st edition, 2010, FA Davis Company
- ❖ Acute care hand book for Physical Therapists by: Jaime C paz, Michelle P West, 2nd edition, 2002, Butterworth Heinemann

**PROFESSIONAL PRACTICE/
CONSULTATION, SCREENING AND DELEGATION
CREDIT HOURS3 (3+0)
COURSE CODE # PT/GU-CPE#5**

COURSE DESCRIPTION:

The course will discuss the role, responsibility, ethics administration issues and accountability of the physical therapists. The course will also cover the change in the profession to the doctoral level and responsibilities of the professional to the profession, the public and to the health care team. The topic of health care system in Pakistan with comparison with current health system abroad will be discussed too.

DETAILED COURSE OUTLINE

THE PHYSICAL THERAPIST AS PROFESSIONAL

- What does professional mean?
- Preliminary definitions of profession and professional
- Sociological perspective
- Structural approach
- Processual approach
- Characteristics of professions cited in the literature
- Power approach
- Dimensions of occupation & profession
- Autonomy, self-regulation of ethical standards, and accountability
- Privileges of autonomous practice in 2020
- Self-regulation of ethical standards
- Accountability of professionals
- Individual professionalism—professionalism without professions?
- The history of a profession

- Professional recognition

CONTEMPORARY PRACTICE ISSUES

- A vision for the future
- The doctorate in physical therapy
- Perspective of the profession
- Perspective of the practitioner
- Direct access issue
- Selected curriculum requirements from evaluative criteria for physical therapist
- Plan of care
- Social responsibility
- Career development
- Physical therapy practice patterns
- Components of a practice pattern
- Important factors that affect health

THE FIVE ROLES OF THE PHYSICAL THERAPIST

THE PHYSICAL THERAPIST AS PATIENT/CLIENT MANAGER

- evaluation and diagnosis
- Diagnosis as clinical decision making
- Prognosis
- Discharge planning and discontinuance of care
- Discontinuance of care
- Outcomes
- Clinical decision making
- Referral relationships
- Interpersonal relationships
- Ethical and legal issues
- Informed consent
- Managed care and fidelity

THE PHYSICAL THERAPIST AS CONSULTANT

- Physical therapy consultation
- Building a consulting business
- The consulting process
- The skills of a good consultant
- Trust in the consultant/client relationship
- Ethical and legal issues in consultation
- Components of a consulting agreement

THE PHYSICAL THERAPIST AS CRITICAL INQUIRER

- History of critical inquiry
- Evidence-based medicine
- Outcomes research
- Whose responsibility is research?
- Roles of the staff physical therapist in critical inquiry
- Collaboration in clinical research
- Ethical and legal issues in critical inquiry

THE PHYSICAL THERAPIST AS EDUCATOR

- History of physical therapy education
- Contemporary educational roles of the physical therapist
- Teaching opportunities in continuing education

- Academic teaching opportunities
- Theories of teaching and learning in professional education
- Ethical and legal issues in physical therapy education

THE PHYSICAL THERAPIST AS ADMINISTRATOR

- History of physical therapy administration
- Contemporary physical therapy administration
- Patient/client management
- First-line management
- Midlevel managers and chief executive officers
- Leadership
- Ethical and legal issues

PROFESSIONAL DEVELOPMENT, COMPETENCE, AND EXPERTISE

- Lifelong process of skill enhancement
- The professional development continuum: from competence to expertise
- Activities that promote professional development
- Evaluation of competence and professional development
- Professional development planning
- Possible evaluators of professional achievement
- Career advancement
- Organizational impact on professional development

FUTURE CHALLENGES IN PHYSICAL THERAPY

- Physical therapy's moral mission
- The future in three realms, individual, institutional & societal.
- Professionalism and the physical therapist

Recommended Text Books:

- ❖ Professionalism in Physical Therapy: History, Practice, & Development, Lisa L. Dutton, PT, PhD
- ❖ APTA. Guide to Physical Therapy Practice: Revised second edition. Alexandria, VA: American Physical Therapy Association; 2003. ISBN: 978-1-887759-85-

EXAMINATION, EVALUATION AND INTERVENTION TECHNIQUES IN

PHYSICAL THERAPY **(CREDIT HOUR =3 (2+1))**

COURSE LEARNING OBJECTIVES: **COURSE CODE # PT/GU-CPE#6**

Upon successful completion of this course the student will be expected to:

I. Communication

Seek communication with instructor(s) for greater learning in a clinical setting

Seek constructive feedback in communication for improved clinical performance
Balance conflicts and accept responsibility in conflict resolution
Examine influences of nonverbal communication in patient care

II. Individual and Cultural Differences

Recognize cultural influences on the provision of physical therapy service under the plan of care within a clinical setting

III. Behavior and Conduct

Display clinical setting professional appearance and demeanor standards
Display punctual and consistent attendance

Display responsibility for professional behaviors specific to a clinical setting

IV. Plan of Care – Understanding [toward goals and intended outcomes] Apply knowledge of relevant anatomy and physiology of encountered pathophysiologies in a clinical setting with regard to intervention options

Employ knowledge of characteristics of encountered pathophysiologies in a clinical setting
Employ intervention strategies for intended goals and outcomes in the physical therapy plan of care in a clinical setting

V. Plan of Care - Implementation [under the direction and supervision of a Physical Therapist])

Coordinate psychomotor skills acquired in didactic and clinical training in the areas listed below as relevant to the assigned clinical setting under the assistance of the clinical instructor*

Functional training

Infection control procedures

Manual therapy techniques

Physical agents and mechanical agents

Therapeutic exercise

Wound management

VI. Plan of Care - Competency in Data Collection [under the direction and supervision of a Physical Therapist]

Coordinate psychomotor skills acquired in didactic and clinical training in areas listed below as relevant to the assigned clinical setting under the assistance of the clinical instructor* Aerobic capacity and endurance

Anthropometric characteristics

Arousal, mentation, and cognition

Assistive, adaptive, orthotic, protective, supportive, and prosthetic Gait, locomotion, balance

Integumentary integrity

Joint integrity and mobility

Muscle performance

Neuromotor development

Pain

Posture

Range of motion

Self-care/home management; Community/work reintegration

Ventilation, respiration, circulation examination

VII. Scope of Practice – Plan of Care: adjusts, recognizes, reports, clarifies with supervising PTEstablish patient progression therapeutic strategies within the physical therapy plan of care in a clinical setting

Report patient progression and/or regression requiring update and/or revision of the physical therapy plan of care and consult accordingly with clinical instructor and supervising Physical Therapist in a clinical setting

VIII. Plan of Care - education of patient, caregiver and non-healthcare others with supervising PT

Explain components of the physical therapy plan of care to patients and other relevant individuals for understanding and best outcomes

Express effective teaching methods to patients and other relevant individuals according to the physical therapy plan of care

IX. Emergency Response

Follow safety and emergency procedures in physical therapy interventions in a clinical setting with the assistance of the clinical instructor

Follow immediate emergency procedures regarding patient medical status in a clinical setting with the assistance of the clinical instructor

X. Documentation and Discharge Planning [with supervising PT]

Inform clinical instructor of necessary patient characteristics in medical and physical therapy documentation for effective and safe physical therapy provision

Provide effective physical therapy documentation in a patient care setting

XI. Healthcare Literature

Integrate research in a clinical scenario for investigation of the physical therapy plan of care

XII. Education – other healthcare members; role of PHYSICAL THERAPIST

Support the role of the Physical Therapist Assistant in the provision of the physical therapy plan of care in the education of others

XIII. Administration

Demonstrate ethical and legal standards of the Physical Therapist Assistant

Demonstrate fiscal responsibility as a Physical Therapist Assistant

Demonstrate compliance with positions, policies, and procedures of APHYSICAL THERAPIST and clinical setting

XIV. Social Responsibility Value the responsibility of a Physical Therapist Assistant in educating patients in available alternative methods of care, other than physical therapy, with the support of the supervising Physical Therapist

XV. Career Development – lifelong learning; PHYSICAL THERAPIST in clinical education

Examine the relationships among individuals in physical therapy rehabilitation: physical therapist, physical therapist assistant, rehabilitation aide, and physical therapist assistant student

Examine strengths and weakness in self-assessment of learning abilities in a clinical setting
*The range of exposure for these objectives is dependent upon placement in the specifically assigned clinical site. Students experience completion of requirements in the clinical setting according to the policies and procedures for clinical education.

Recommended Text Books:

- ❖ *Dutton's Orthopedic Examination, Evaluation, and Intervention*
- ❖ Physical Rehabilitation: Evidence-Based Examination, Evaluation, and Intervention; Michelle H. Cameron, Linda Monroe.
- ❖ Dutton's Introduction to Physical Therapy and Patient Skills