

MASTER OF PHYSIOTHERAPY

PROGRAM OUTCOMES

The aim of the course is to provide comprehensive, individually focused training that prepares the students for providing a quality and specialized physiotherapy care to the patients so that at the end of the course he/she will be able to perform the following

1. Recognize the role of Physiotherapy in the context of the health needs of the community and National priorities in the health sector.
2. Demonstrate professional and ethical behaviour appropriate to atleast the minimum standard expected for a Physiotherapy Post Graduate.
3. To acquire knowledge and skills in various fields like
 - Exercise testing physiology
 - Movement analysis
 - Electro diagnosis
 - Physiotherapy Diagnosis
4. Using an Evidence Based analysis interpret assessment findings and set realistic short and long term goals and undertake discharge plans.
5. To apply general principles of Practice and understand their applications in enhancement of Physiotherapy Practice.
6. To understand various physiotherapy treatment models like physiotherapy and rehabilitation model.
7. To understand the clinical manifestations and to apply the suitable management models in various electives.
8. To appreciate the importance of clinical epidemiology, research ethics and advance in computer applications and formulate research process in physiotherapy.

9. Experiment with new approaches, challenges, existing knowledge, boundaries and design novel solution to various critical problems through logical, analytical and critical thinking.

10. Able to practice recent trends in investigative methods and intervention modalities in the field of physiotherapy.

11. Able to teach Physiotherapy with appropriate teaching methodology.

MASTER OF PHYSIOTHERAPY- I YEAR

MPT101 Applied Anatomy, Kinesiology & Bio mechanics

COURSE OUTCOMES

Generic

On completion of the subject, students will have had the opportunity to develop the following generic skills:

An appreciation of the team approach to learning in complex areas.

The ability to critically evaluate research literature in the area of anatomy, functional applied anatomy, and apply this information towards understanding the mechanisms operating in musculoskeletal conditions resulting from injury or disease.

An appreciation of the importance of, and development of, good written and presentation skills to aid group learning.

An appreciation of the team approach to learning in complex areas.

Specific

On completion of the subject, students will have had the opportunity to develop the following specific skills:

Sound knowledge of the anatomy of the musculoskeletal system in the body.

Advanced understanding of the relationship between structure and function of the musculoskeletal system of the healthy and diseased subjects.

Developing ability to analyze mechanisms underlying selected musculoskeletal conditions resulting from injury or disease processes.

Advanced understanding of the anatomy / applied anatomy basis for clinical testing of musculoskeletal structures.

MPT102 Exercise Physiology & Electro Physiology

COURSE OUTCOMES

Generic

On completion of the subject, students will have had the opportunity to develop the following generic skills.

An appreciation of the team approach to learning in complex areas.

An appreciation of the need for intercultural sensitivity and understanding particularly of different learning styles.

An appreciation of the importance of, and development of, good written and verbal communication skills to articulate knowledge in exercise and electro physiology.

The ability to evaluate and synthesize research and professional literature and apply this information to novel situations.

Specific

On completion of this subject students should have the opportunity to:

Acquire a sound knowledge of the physiology of motor control.

Acquire theoretical knowledge of motor control theories postulated in the literature. Analyse and critique key motor control theories and models.

Acquire a thorough understanding of factors influencing learning including the learner and the environment, and how these factors can be applied in clinical practice situations.

Acquire sound theoretical knowledge of muscle physiology including muscle structure, mechanical properties, fiber types, neural activation, soreness, damage and adaptation, and the effects of aging, inactivity/disuse, training, fatigue and spasticity on muscle.

Acquire theoretical knowledge of exercise physiology including exercise metabolism, cardio-respiratory response to exercise, energy, nutrition and environmental factors in exercise.

Critically evaluate and synthesize research and professional literature relating to a chosen topic in the muscle/exercise physiology to analyze and interpret electro diagnostic procedures.

MPT103 Physical and Functional evaluation

COURSE OUTCOMES

Generic

On completion of the subject, students will have had the opportunity to develop the following generic skills.

Evaluate and analyses the physiological aspects of physical rehabilitation. Make clinical decision and plan for effective treatment.

Identify and recognize the importance of monitoring vital signs.

Plan strategies for management of various musculoskeletal, neurological, cardio pulmonary problems and in various medical and surgical conditions.

Specific

In this course, the student will learn the assessment of various conditions through appropriate and valid tools.

Frame comprehensive management of physical ailments to develop independent professional knowledge and skill.

MPT104 Evidence-Based Practice

COURSE OUTCOMES

Generic

On completion of this subject, students will be able to demonstrate:

Skills in and writing scientific communication, skills in oral communication and contribution to class discussion, a capacity to undertake searching of medical literature databases.

Specific

On completion of this subject, students will be able to demonstrate:

An understanding of the importance of valid and reliable objective measurement in clinical practice.

The ability to undertake detailed planning and analysis to successfully complete a research project.

A capacity to undertake searching computerised medical literature databases.

An understanding of research design principles, reliability and validity.

An understanding of basic statistical techniques.

To understand the principles of research methods and provides examples of their application in clinical physiotherapy research and practices.

Techniques required for the critical evaluation of all aspects of published research relevant to the physiotherapy profession.

The use of quantitative statistical analysis techniques.

MASTER OF PHYSIOTHERAPY- II YEAR

MPT IN MUSCULOSKELETAL SCIENCES

PROGRAM SPECIFIC OUTCOMES

To acquaint himself/herself with the past and current literature on relevant aspects of musculoskeletal Physiotherapy.

To acquaint with relevant education delivery system to be able to function as a health educator.

To assess, plan and interpret various musculoskeletal conditions and plan relevant advanced therapeutic methods.

To identify, frame and carry out research in the speciality.

Develop skills as a self-directed learner, recognize continuing educational needs, use appropriate learning resources, and critically analyze relevant published literature in order to practice evidence-based physiotherapy.

COURSE OUTCOMES

Generic

On completion of this subject, students will have had the opportunity to develop the following generic skills:

Advanced understanding of the scope of practice of musculoskeletal physiotherapy, advanced knowledge of physical, biological, medical and behavioural sciences.

Advanced clinical knowledge, skills and attitudes necessary for the competent assessment, prophylaxis, treatment and rehabilitation of patients with neuromusculoskeletal and related disorders.

The knowledge and skills in research design, research methodology and critical analysis of relevant clinical literature necessary to appreciate the role of research as a basis for evidence - based practice.

The ability to update further academic developments and advanced clinical skills in the speciality discipline of musculoskeletal physiotherapy.

Specific

On completion of the subject, students will have had the opportunity to develop the following specific skills:

A deeper understanding of the basic sciences and their integration with musculoskeletal physiotherapy clinical practice.

A sound theoretical knowledge and understanding of neuromusculoskeletal conditions affecting people.

The ability to perform an appropriate subjective and physical examination, with development of suitable analytical skills to evaluate data obtained.

The ability to develop and implement clinical analytical skills to evaluate data obtained.

The ability to develop and implement a clinical management plan based on the interpretation of assessment findings.

The ability to monitor patient response to modify or progress treatment appropriately. An awareness of the paramount importance of patient safety all times.

A knowledge of the role of other health care professionals involved in patient care.

MPT IN CARDIO PULMONARY SCIENCES

PROGRAM SPECIFIC OUTCOMES

Recognize the importance of Cardio Respiratory conditions, surgeries in the context of the health needs of the community and national priorities in the health sector.

To interpret relevant laboratory, radiological and cardio respiratory investigations.

To keep abreast of the current knowledge and recent advances in the field by self learning and /or participating in Continuing Medical Education Programmes and Life support courses.

To develop understanding and working knowledge of the sophisticated and routine equipments and emergency procedures used in Cardio Respiratory patients.

Demonstrate competence in basic concepts of research methodology and publication.

To be able to critically analyze relevant published research literature and use them appropriately to influence practice of cardiovascular medicine.

COURSE OUTCOMES

Generic

On completion of the subject, students will have had the opportunity to develop the following generic skills.

An understanding of professional responsibility and ethical principles in relation to individuals and community, both locally and internationally.

The ability to evaluate and synthesis research and professional literature and apply this information.

Well developed problem solving abilities in both the clinical and the theoretical aspects of cardiothoracic physiotherapy.

A capacity to manage competing demands on time, including self-directed project work.

Critical evaluation of assessment and treatment approaches.

Education of patients, caregivers and health professionals, consultancy and advocacy;

Goal setting, self evaluation and reflective practice.

Specific

On completion of the subject, students will have had the opportunity to develop the following specific skills.

Patient assessment and treatment planning, including integration and interpretation of patient problems and effective goal setting.

Physiotherapeutic intervention that is based on sound base of evidence and sensitive to service delivery models and the culture of both the patient and the organisation.

A capacity to be an effective member of a team-based approach to patient care and to take a leadership role in the team as appropriate.

