

BACHELOR OF PHYSIOTHERAPY

PROGRAM OUTCOMES

The aim of the course is to provide comprehensive, individually focused training that prepares the students for providing a quality 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 Graduate.
3. Ability to acquire knowledge on Basic Medical sciences, Human Movement Sciences, Various Medical Conditions and Surgical Treatments to identify Psychological, Social, Economical, Cultural aspects of diseases and its impact on community.
4. Ability to perform a safe, systematic and appropriate physiotherapy assessment for various conditions.
5. Identify, Define and Deal with problems of professional practice through logical, analytical and critical thinking.
6. Ability to analyze and interpret physical assessment and diagnosis and set appropriate short and long term goals.
7. Ability to choose, demonstrate intervention safely and document the progression appropriately.
8. Communicate effectively across wide range of professional and personal contexts.
9. An ability to work independently or collaboratively as a part of rehabilitation team.
10. Ability to understand and conduct research activities.
11. Engage in activities that contribute to the betterment of society and behave ethically and responsible in social environment.

PROGRAM SPECIFIC OUTCOMES

Demonstrate sufficient understanding of knowledge in Physiotherapy.

Able to integrate theoretical knowledge with clinical assessment.

Develop the ability to collect history, perform relevant clinical assessment and frame appropriate electrotherapeutic and exercise therapy management for the patients.

Demonstrate clinical decision making ability and provide appropriate patient care.

Develop effective communication with patients, family, colleagues and students.

Promote health education and improved quality of life through the practice of the profession.

To carry out research and publications towards upliftment of the field of Physiotherapy.

Actively engage in lifelong learning activities.

Work effectively in various inter professional collaborative settings like hospitals, Rehabilitation Centres, Special Schools, Educational Institutions, Health and Fitness Centers, Geriatric Centers, Ergonomic Consultant in Corporate Sectors, Private Consultation, Home Care Services, Industrial Sectors, Sports Management, Fitness Consultant

COURSE OUTCOMES

BPT I YEAR

BPT101 ANATOMY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Identify all gross anatomical structures, particular emphasis will be placed on description of bones, joints, muscles, brain, cardio-pulmonary and nervous systems as these relate to the application of Physiotherapy.

Demonstrate knowledge in human anatomy as in necessary for the study and practice of physiotherapy.

BPT102 PHYSIOLOGY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Understand the basis of normal human physiology with special emphasis on the functioning of the cardiovascular, musculo-skeletal and nervous systems.

Demonstrate an understanding of elementary human physiology and Bio-Chemistry.

Understand how abnormal Physiology affects human function and dysfunction of the human body.

BPT103 BIOCHEMISTRY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Demonstrate comprehensive understanding of biochemistry. Acquire the knowledge in biochemistry that are required to be practiced in community and at all levels of health care system.

Understand relevant investigations which will help to know about the important medical conditions.

Demonstrate empathy and have a human approach towards patients & respect their sensibilities.

BPT104 FUNDAMENTALS OF EXERCISE THERAPY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Analyse the various types of therapeutic exercises, movements and demonstrate different techniques and describe their effects.

Provide high quality, ethical, effective, and cost efficient practices by students and gain expertise in the exercise prescription to patients.

Practice various assessment strategies like Goniometer for detailed learning.

Understand principles and procedures, indications, contraindications and precautions, appropriate methods of application of each of the assessment strategy and treatment techniques hands on and on models.

Communicate with the patient in a professional and ethical manner.

BPT105 FUNDAMENTALS OF ELECTRO THERAPY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Know the principles, technique and effects of electrotherapy as a therapeutic modality in the restoration of physical function in conditions.

List the indications and contraindications of various types of electrotherapy, demonstrate different techniques and describe their effects.

Utilize Contemporary and recent methods and to select the most appropriate method to moderate and alleviate pain for patients.

Aware of the construction, Biophysical principles and effects , dangers, safety measures, judicial use, appropriate methods of application ,contraindications of the various equipments.

BPT II YEAR

BPT201 PATHOLOGY & MICROBIOLOGY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Learn the pathological changes in various conditions, diseases and disorders, which are commonly treated by physiotherapy.

Demonstrate an understanding of the pathology and microbiology of common diseases that therapists would encounter in their daily practice.

Understand how to protect themselves and their patients from infections during their interactions.

BPT202 PHARMACOLOGY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Possess a relevant knowledge in basic principles of pharmacology and its recent advances

Understand the basic pharmacology of common drugs used, their importance in the overall treatment including Physiotherapy

Understand the general principles of drug action and the handling of drugs by the body.

Understand the contribution of both drug and physiotherapy factors in the outcome of treatment.

BPT203 PSYCHOLOGY AND PSYCHIATRY

COURSE OUTCOMES

On completion of this subject, the student will be able to

Recognize and help with the psychological factors involved in disability, pain, disfigurement, unconscious patients, chronic illness, death, bereavement and medical-surgical patients/conditions.

Understand the elementary principles of behaviour for applying in the therapeutic environment.

Perform psychosocial assessment of patients in various developmental stages.

Understand the concept of stress and its relationship to health, sickness and one's profession.

Understand Ego defense mechanisms and learn counselling techniques to help those in need.

Find reasons for non-compliance among patients and improving compliance behaviour.

BPT204 EXERCISE THERAPY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Learn the principles, technique and effects of exercise as a therapeutic modality in the restoration of physical function.

Analyse the various types of therapeutic exercises, movements and demonstrate different techniques and describe their effects.

Practice different exercise therapy techniques and gain confidence in performing these skills before implementing the same on the patients so that high quality patient care is ensured.

Provide high quality, ethical, effective, and cost efficient practices by students and gain expertise in the exercise prescription to patients.

Practice various assessment strategies like Muscle power assessment etc for detailed learning.

Understand principles and procedures, indications, contraindications and precautions, appropriate methods of application of each of the assessment strategy and treatment techniques hands on and on models.

Communicate with the patient in a professional and ethical manner.

BPT205 BIOMECHANICS

COURSE OUTCOMES

On completion of this subject, the students will be able to

Analyze normal human movement from a global perspective, integrating biomechanics, muscle mechanics and motor control theory.

Experience quantitative methods of movement analysis using various methods.

Apply the analytic methods to specific example of normal human motor performance.

Use these methods for evaluation and treatment of disorders of the musculoskeletal system.

BPT206 ELECTROTHERAPY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Know the principles, technique and effects of electrotherapy as a therapeutic modality in the restoration of physical function in condition like nerve injuries .

List the indications and contraindications of various types of electrotherapy, demonstrate different techniques and describe their effects.

Utilize Contemporary and recent methods and to select the most appropriate method to moderate and alleviate pain for patients.

Aware of the construction, Biophysical principles and effects , dangers, safety measures, judicial use, appropriate methods of application ,contraindications of the various equipments.

Practice evidence based physiotherapy

BPT III YEAR

BPT301 GENERAL MEDICINE

COURSE OUTCOMES

On completion of this subject, the students will be able to

Demonstrate a general understanding of the diseases that therapists would encounter in their practice.

Understand the etiology and pathology, the patient's symptoms and the resultant functional disability.

Understand the limitations imposed by the diseases on any therapy.

Elaborate broad outline of goals of pharmacological and surgical therapy imparted in those diseases in which physical therapy will be an important component of overall management.

BPT302 GENERAL SURGERY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Demonstrate a general understanding of the diseases that therapists would encounter in their practice.

Understand the etiology and pathology, the patient's symptoms and the resultant functional disability.

Understand the limitations imposed by the diseases on any therapy.

Elaborate broad outline of goals of pharmacological and surgical therapy imparted in those diseases in which physical therapy will be an important component of overall management.

BPT303 COMMUNITY MEDICINE

COURSE OUTCOMES

On completion of this subject, the students will be able to

Understand the effects of the environment and the community dynamics on the health of the individual.

Demonstrate an understanding of the influence of social and environmental factors on the health of the individual and society.

Be aware of the physical, social, psychological, economic, and environmental health determinants of health and disease.

Apply the clinical skills to recognize and manage common health problems including their physical, emotional and social aspects at the individual, family and community levels and deal with public health emergencies.

BPT304 SOCIOLOGY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Demonstrate an understanding of the role of socio-cultural factors as determinants of health and behaviour in health and sickness.

Relate to therapeutic situations in the practice of physiotherapy.

Understand the role of family and community in the development of behaviours.

Develop a holistic outlook toward the structure of society and community resources.

Identify the subtle influence of culture in the development of human personality, the role of beliefs and values as determinants of individual and group behaviours.

Understand the social and economical aspects of community that influence the health of the people.

Learn to assess the social problems and participate in social planning.

Identify social institutions and resources.

Understand the significance of social interactions in the process of rehabilitation.

Appreciate the role of therapist as a member of society and the interdependence between individuals and society.

BPT305 FUNCTIONAL DIAGNOSIS AND THERAPEUTIC SKILLS

COURSE OUTCOMES

On completion of this subject, the students will be able to

Understand the basic neurological conditions which commonly cause disability and their management. Know the aetiology, Classification, Pathology, Clinical Features, Relevant

Investigations, Complications, Surgical & Non Surgical Management of various Neurological Conditions.

Understand the basic orthopaedic conditions which commonly cause disability and their management. Know the aetiology, Classification, Pathology, Clinical Features, Relevant Investigations, Complications, Surgical & Non Surgical Management of various Orthopaedic Conditions.

Understand the basic cardiorespiratory conditions which commonly cause disability and their management. Know the aetiology, Classification, Pathology, Clinical Features, Relevant Investigations, Complications, Surgical & Non Surgical Management of various cardiorespiratory Conditions

BPT306 OBSTETRICS AND GYNAECOLOGY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Understand the anatomy, physiology and various conditions in Obstetrics and Gynaecological conditions relevant to Physiotherapy.

Assess and provide physiotherapeutic techniques in Obstetrics and Gynaecological conditions for relief of pain, relaxation, conditioning and posture.

BPT IV YEAR

BPT401 PROFESSIONAL PRACTICE AND ETHICS AND MANAGEMENT STUDIES

COURSE OUTCOMES

On completion of this subject, the students will be able to

Understand the ethical principles of physiotherapy profession.

Understand principles of management in personal management, time management and administration including budgeting.

BPT 402 MUSCULOSKELETAL PHYSIOTHERAPY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Integrate the knowledge gained by the students in clinical orthopaedics with skills gained to apply these in clinical situation of dysfunction and musculo - skeletal pathology.

Identify disability due to musculo skeletal dysfunction, set treatment goals and apply their skills gained in exercise therapy, electrotherapy and massage in clinical situations to restore musculoskeletal function.

BPT 403 NEURO PHYSIOTHERAPY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Integrate the knowledge gained by the students in Clinical Neurology, with the skills gained in exercise therapy, electrotherapy and massage.

Apply these in clinical situations of dysfunction due to pathology in the nervous system.

Identify disability due to neurological dysfunction, set treatment goals and apply their skills in exercise therapy, electrotherapy and massage in clinical situation to restore neurological function.

BPT404 CARDIORESPIRATORY PHYSIOTHERAPY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Integrate the knowledge gained by the students in clinical cardio respiratory conditions with skills gained in exercise therapy electrotherapy and massage, thus enabling them to apply these in clinical situations of dysfunction due to cardio respiratory pathology.

Use physiotherapeutic measures as preventive / restorative Rehabilitative purposes for pulmonary / cardiac patients.

Identify cardio-respiratory dysfunction, set treatment goals and apply their skills in exercise therapy, electrotherapy and massage in clinical situation to restore cardio-respiratory function.

BPT405 COMMUNITY BASED PHYSIOTHERAPY

COURSE OUTCOMES

On completion of this subject, the students will be able to

Have a community based perspective with physiotherapeutic approach.

Describe the health care delivery system including rehabilitation of the disabled in the country.

Describe the health information systems.

Enunciate the principles and components of primary health care and the national health policies to achieve the goal of 'Health for All'.

Identify the environmental and occupational hazards and their control.

Describe the importance of ergonomics in human health.

BPT406 RESEARCH METHODOLOGY AND BIO-STATISTICS

COURSE OUTCOMES

On completion of this subject, the students will be able to

Apply the principles of research and biostatistics to health practice including the design and implementation of health related research studies.

Plan and execute a research study, including clinical trials.

Use / organize bio-statistical analysis using computers and software and prepare reports / papers.

Critically evaluate research activities.

Make recommendations on policy and procedures.

Plan and conduct an educational session / programme.

