



St. Andrews Education Foundation's

(An ISO 9001:2015 Certified Minority Institution)

St. Andrews College of Physiotherapy

(Christian Minority Institution)

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Course Outcomes-3rd B.P.Th

SURGERY-I

(General Surgery, Cardiovascular & Thoracic Surgery Plastic/ Reconstructive Surgery)

At the end of the course, the candidate will be able to:

1. Describe the effects of surgical trauma & Anaesthesia in general
2. Clinically evaluate & describe the surgical management in brief of
 - a) General Surgery
 - b) Neuro Surgery
 - c) Cardiovascular and Thoracic Surgery
 - d) ENT & Ophthalmic Surgery
 - e) Plastic & Reconstructive Surgery
3. Describe pre-operative evaluation, surgical indications in various surgical approaches, management and post-operative care in above mentioned areas with possible complications.
4. Be able to read & interpret findings of the relevant investigations

SURGERY-II (ORTHOPAEDICS)

At the end of the course, the candidate will –

- a) Be able to discuss the, aetiology, Pathophysiology, clinical manifestations & conservative / surgical management of various traumatic & cold cases of the Musculoskeletal Conditions.
- b) Gain the skill of clinical examination; apply special tests & interpretation of the preoperative old cases & all the post-operative cases.
- c) Be able to read & interpret salient features of the X-ray of the Spine & Extremities and correlate the radiological findings with the clinical findings.
- d) Be able to interpret Pathological / Biochemical studies pertaining to Orthopaedic conditions.

MEDICINE-1

(Cardiovascular Respiratory Medicine, General Medicine & Gerontology)

At the end of the course, the candidate will:

1. Be able to describe Etiology, Pathophysiology, Signs & Symptoms & Management of the various Endocrinal, Metabolic, Geriatric & Nutrition Deficiency conditions.
2. Be able to describe Etiology, Pathophysiology, Signs & Symptoms, Clinical Evaluation & Management of the various Rheumatologic Cardiovascular & Respiratory Conditions.
3. Acquire skill of history taking and clinical examination of Musculoskeletal, Respiratory, Cardio-vascular & Neurological System as a part of clinical teaching.
4. Be able to interpret auscultation findings with special emphasis to pulmonary system.
5. Study Chest X-ray, Blood gas analysis, P.F.T. findings & Haematological studies, for Cardiovascular, Respiratory, Neurological & Rheumatological conditions.
6. Be able to describe the principles of Management at the Intensive Care Unit.
7. Be able to acquire the skills of Basic Life Support.
8. Acquire knowledge of various drugs used for each medical condition to understand its effects and its use during therapy.

MEDICINE-II

(Neurology & Paediatrics)

At the end of the course, the candidate will:

1. Be able to describe Aetiology, Pathophysiology, signs & Symptoms & Management of the various Neurological & Paediatric conditions.
2. Acquire skill of history taking and clinical examination of Neurological & Paediatric conditions as a part of clinical teaching.
3. Acquire knowledge of various drugs used for each medical condition to understand its effects and its use during therapy.
4. Acquire knowledge in brief about intra-uterine development of the foetus.
5. Be able to describe normal development & growth of a child, importance of Immunization, breast-feeding & psychological aspect of development.
6. Be able to describe neuromuscular, musculoskeletal, cardio-vascular & respiratory conditions related to immunological conditions, nutritional deficiencies, infectious diseases, & genetically transmitted conditions.

7. Acquire skill of clinical examination of a neonate / child with respect to neurological, musculoskeletal & respiratory function.

GYNAECOLOGY & OBSTETRICS

At the end of the course, student will be able to describe:

- a) Normal & abnormal physiological events, complications and management during Puberty.
- b) Normal and abnormal physiological events, complications and management of pregnancy (Pregnancy, Labour, Puerperium)
- c) Normal and abnormal physiological events, complications and management of menopause.
- d) Normal and abnormal physiological events, complications and management of urogenital dysfunction.(Antenatal, Postnatal, during menopause)
- e) The student will be able to acquire the cognitive skill of clinical examination of the pelvic floor.

DERMATOLOGY

At the end of the course, the student will be able to

- a) describe the Pathophysiology, Signs & Symptoms, Clinical Features, Examination & Management of Common Skin Conditions like Leprosy, Psoriasis, Bacterial & Fungal Infections of the skin, connective tissue disorder, hand eczema, drug reaction, cutaneous manifestation of HIV, & Sexually Transmitted Diseases

FUNCTIONAL DIAGNOSIS & PHYSIOTHERAPEUTIC SKILLS

At the end of the course, student will be able to:

1. Understand the use of ICF.
2. Acquire the knowledge of human growth and development from new life to birth and adulthood
3. Understand structure and function of nerve and muscle as a base for understanding the electro-diagnostic assessment.
4. Understand the use of appropriate tools or instruments of assessment in Musculoskeletal, Neurological and Cardio-vascular conditions.
5. Understand the theoretical basis and principles of manipulative skills, neurotherapeutic skills and skills of cardiopulmonary care and resuscitation

6. Document results of assessment to evaluate the patient from time to time.
7. Perform assessment of measures of body structures and functions related to tissue mechanics.
8. Perform assessment of measures of body structures and functions related to motor control affecting activity and participation, quality of life and independence.
9. Perform the skill of electro-diagnosis (SD Curve) and observe skills of EMG and NCV studies, to understand the documentation of finding of these studies.
10. Interpretation and analysis of assessment and findings.
11. Demonstrate skills of manual therapy musculoskeletal, neurotherapeutics and cardiovascular and respiratory skills on models (Laboratory work).
12. Select appropriate assessment techniques to facilitate safety, sensitive practices in patient comfort and effectiveness.
13. Demonstrate safe, respectful and effective performance of physical therapy handling techniques taking into account patient's clinical condition, need for privacy, resources available and the environment.
14. Follow the principles of appropriate handling technique that is draping, hand placement, body part positioning, manual techniques, lifting and transfer techniques.
15. Communicate with patients and their families/caregivers regarding the need and uses of various assessment techniques.