

**Third B.O.Th. Year**  
**301. MEDICINE**  
**A- GENERAL MEDICINE**

A.- General Medicine - (Theory & Clinical: 50 + 25 hrs)

B- Neurology - (Theory & Clinical :50 + 25 hrs)

Total hours - 150

Total marks – 100 (Theory — 70, Internal Assessment 30)

**Course Objectives**

The students will be able to fulfill with 75% accuracy as the following objectives measured by written evaluation. They should also be able to evaluate common medical condition that are routinely seen by occupational therapist

**Section — I**

- 1) Diseases of cardiovascular system:  
Describe ischemic heart diseases their clinical features investigation and management. Explain management of hypertension Describe rheumatic heart diseases with their clinical features investigation and management Enumerate the cause of peripheral vascular disease *and* discuss its management Describe etiology classification investigation & management of congenital heart diseases. Describe basics in ECG as applicable to ischemic heart diseases.
- 2) Diseases of endocrine system:  
Explain clinical features, investigations management and complication of diabetes Explain in brief hyperthyroidism, hypothyroidism and hypopituitarism, hypoadrenalism hyperadrenalism, calcium metabolism.
- 3) Diseases of respiratory system:  
Describe the investigation and management of the following respiratory condition as bronchia asthma, bronchiectasis, pulmonary embolism, tuberculosis, lung abscess, emphysema, lobar pneumonia, pleurisy, empyema & cor pulmonale.
- 4) Rheumatological diseases:  
Describe the pathogenesis clinical features, investigations, complications, and brief outline of management of the following diseases : RA, seronegative spondylosing arthritis, S.LE., gout, still disease and polymyositis.
- 5) Diseases of digestive system  
Discuss the management of gastric and duodenal ulcer, haematemesis, hepatitis, & malabsorption syndrome.
- 6) Deficiency diseases Describe the clinical features, investigation and management of rickets protein deficiency, beriberi & subacute combined

degeneration.

7) Obesity Describe the aetiology *and* management & complications in brief of obesity

8) Paediatrics

Explain normal process of growth and immunization schedule, importance of breast-feeding, birth injuries, nutritional deficiency, genetic anomalies and their management. Describe neuro-muscular, musculo-skeletal, & cardio-pulmonary conditions related to immunological conditions, nutritional deficiencies, infectious diseases, & genetically transmitted conditions.

Describe the management principles of intensive neonatological and paediatrics care.

9) Geriatrics

Describe the age-related problems 'in elderly and their management in health care and wellness clinics.

10) Dermatology:

Describe the clinical features, investigation and management of leprosy and HIV infections, in brief common skin infections: psoriasis and venereal diseases.

11) Nephrology:

Describe the clinical features and management of acute and chronic renal failure, glomerular nephritis, and urinary tract infection.

12) Haematology:

Describe the clinical features, and management of anaemias, haemophilia, thalassaemia, leukaemia, and Hodgkin's diseases.

13) Intensive medical care

14) Common Infectious Diseases:

Describe the causes, symptoms & management of malaria, rabies, leptospirosis, dengue.

## **COURSE CONTENTS**

**Total hrs**

1) Diseases of cardio-vascular system:

Ischaemic Heart Disease, Hypertensive Heart Disease, Rheumatic Heart Disease, Thyrotoxic Heart Disease, arrhythmias Vascular Disease, Thrombosis, Embolism and ECG reading.

**6**

2) Diseases of Endocrine system:	2
Emphasis on Diabetes mellitus — Definition, Diagnosis, classification & complications & management, outline of Hypopituitarism, Goitre, Hyperthyroidism & Hypothyroidism, hypoadrenalism & hyperadrenalism and calcium metabolism.	
3) Diseases of Respiratory system :	6
Diseases of lungs, Bronchi, Bronchial Asthama, Bronchiectasis, Pulmonary Embolism, Pulmonary Tuberculosis, Lung Abscess, Emphysema, Lobar pneumonia, Bronchopneumonia, cor pulmonale, Fibroid lung.	
4) Rheumatic Disease:	4
Rheumatic fever. Rheumatoid Arthritis, stills disease, SLE, polymyositis, seronegative arthritis gout aetiopathogenesis, clinical features, complications, diagnosis and brief outline of the management.	
5) Diseases of Digestive System:	1
Gastric and Duodenal ulcers, haematemesis, hepatitis, malabsorption syndrome.	
6) Deficiency Diseases:	1
Rickets, protein deficiency, beri beri, subacute combined degeneration	
7) Obesity:	2
aetiology and management	
8) Paediatrics:	12
Normal growth and development, immunization, breast feeding, Birth Injuries, C.N.S. involvement, nutritional deficiencies and associated systemic conditions, genetic anomalies, Intensive neonatological & paediatric care	
9) Geriatrics:	3
Age related changes in human body & response, health care for elderly patients, wellness clinic.	
10) Dermatology:	6
Common skin infections, Psoriasis, Leprosy, Venereal disease & infections diseases HIV infections.	
11) Nephrology:	2
Acute and chronic renal failure, glomerular nephritis, urinary tract infection	
12) Haematology:	2
Anaemia, haemophilia, thalassaemia, Ieukaemia, Hodgkin's disease.	

13) Intensive medical care	2
14) Common Infectious Diseases: malaria, rabies, leptospirosis, dengue	1
15) Clinical	25

**BOOK RECOMMENDED:**

- 1) API — Text book of Medicine 5 edition
- 2) Golwalla's medicine for students
- 3) Davidson Principles and Practice of medicine
- 4) Essentials of Pediatrics — by O.P. Ghai-Inter Print publications
- 5) D.K. series in Pediatrics
- 6) Handbook of practical medicine — P.J. Mehta

**B- NEUROLOGY**

**COURSE OBJECTIVES**

Describe the clinical features, investigation and management of the following neurology conditions.

- 1) Disorders of cerebral circulation (CVA)
- 2) Disorders of cerebella function : infections, tumors and hereditary conditions of cerebellum.
- 3) Hereditary and degenerative disorders, cerebral atrophy, multiple sclerosis, motorneuron diseases, syringomyelia & spin bifid.
- 4) Disorders of higher cortical function with respect to lobes and hemisphere (neuropsychological evaluation and treatment.)
- 5) Diseases of cranial nerves due to infections and entrapments and neuralgias.
- 6) Disorders of nerve roots & peripheral nerves — polyneuropathies, Gullain Barre Syndrome.
- 7) Disorders of muscles — types of dystrophies, & myasthenia gravis.

- 8) Disorders of extrapyramidal system — parkinsons, chorea, dystonia, athetosis, Hemiballismus.
- 9) Disorders of spinal cord and cauda equina mylopathies tumors and infections.
- 10) Infectionso f nervous system: meningitis, encephalitis, poliomyelitis, syphilis, tetanus.
- 11) Epilepsy.
- 12) Alzheimer's diseases.

**COURSE CONTENTS:**

	Total hrs
1 Disorders of cerebral circulation	6
2. Disorders of cerebellar function	5
3. Hereditary and degenerative disorders	5
4. Disorders of Higher Cerebral cortical function and behavioral neurology, Sp. areas of cerebral cortex, Neuro psychological syndromes, perceptions,	3
5 The Cranial Nerves & special senses	3
6 Disorders of nerve roots & peripheral nerves.	5
7 Disorders of muscle	5
8 Movement Disorders (Extra pyramidal syndrome)	6
9 Disorders of spinal cord & cauda equine	3
10 Infections of Nervous system	3
11 Epilepsy	4
12 Alzheimer's disease	2
13 Clinical hrs	25

**BOOK RECOMMENDED:**

- 1) Disease of Nervous System Walton
- 2) Clinical neurology — Roger Bannister
- 3) Clinical examination in neurology — Bickerstaff