## **DPH020040 - PHARMACOTHERAPEUTICS - THEORY**

## 75 Hours (3 Hours/week)

**Scope:** This course is designed to impart basic knowledge on etiopathogenesis of common diseases and their management along with quality use of medicines.

# Course Objectives: This course will discuss about

- 1. Etiopathogenesis of selected common diseases and evidence-based medicine therapy
- 2. Importance of individualized therapeutic plans based on diagnosis
- 3. Basic methods for assessing the clinical outcomes of drug therapy

# Course Outcomes: Upon successful completion of this course, the students will be able to

- 1. Help assessing the subjective and objective parameters of patients in common disease conditions
- 2. Assist other healthcare providers to analyse drug related problems and provide therapeutic interventions
- 3. Participate in planning the rational medicine therapy for common diseases
- 4. Design and deliver discharge counselling for patients

Chapter	Topic	Hours
1	Pharmacotherapeutics – Introduction, scope, and objectives. Rational use of	8
	Medicines, Evidence Based Medicine, Essential Medicines List, Standard	
	Treatment Guidelines	
	(STGs)	
2	Definition, etiopathogenesis, clinical manifestations, nonpharmacologic	al and
	pharmacological management of the diseases associated with	
	(a) Cardiovascular System	8
	Hypertension	
	Angina and Myocardial infarction	
	Hyperlipidaemia	
	Congestive Heart Failure	
	(b) Respiratory System	4
	Asthma	
	• COPD	
	(c) Endocrine System	5
	• Diabetes	
	Thyroid disorders - Hypo and Hyperthyroidism	
	(d) Central Nervous System	8
	• Epilepsy	
	Parkinson's disease	
	Alzheimer's disease	
	• Stroke	
	Migraine	
	(e) Gastro Intestinal Disorders	8
	Gastro oesophageal reflux disease	
	Peptic Ulcer Disease	
	Alcoholic liver disease	
	<ul> <li>Inflammatory Bowel Diseases (Crohn's Disease and Ulcerative Colitis)</li> </ul>	
	(f) Haematological disorders	4
	Iron deficiency anaemia	
	Megaloblastic anaemia	
	(g) Infectious diseases	12
	Tuberculosis	
	Pneumonia	
	Urinary tract infections	

	1
Hepatitis	
Gonorrhoea and Syphilis	
Malaria	
HIV and Opportunistic infections	
<ul> <li>Viral Infections (SARS, CoV2)</li> </ul>	
(h) Musculoskeletal disorders	3
Rheumatoid arthritis	
Osteoarthritis	
(i) Dermatology	3
• Psoriasis	
• Scabies	
Eczema	
(j) Psychiatric Disorders	4
Depression	
Anxiety	
<ul> <li>Psychosis</li> </ul>	
(k) Ophthalmology	2
Conjunctivitis (bacterial and viral)	
Glaucoma	
(I) Anti-microbial Resistance	2
(m) Women's Health	4
Polycystic Ovary Syndrome	
Dysmenorrhea	
Premenstrual Syndrome	

## DPH020040 - PHARMACOTHERAPEUTICS - PRACTICAL

25 Hours (1 Hour/week)

**Scope:** This course is designed to train the students in the basic skills required to support the pharmaceutical care services for selected common disease conditions.

Course Objectives: This course will train the students on

- 1. How to prepare a SOAP (Subjective, Objective, Assessment and Plan) note for clinical cases of selected common diseases
- 2. Patient counselling techniques/methods for common disease conditions

Course Outcomes: Upon successful completion of this course, the students will be able to

- 1. Write SOAP (Subjective, Objective, Assessment and Plan) notes for the given clinical cases of selected common diseases
- 2. Counsel the patients about the disease conditions, uses of drugs, methods of handling and administration of drugs, life-style modifications, and monitoring parameters.

## Practicals

- I. Preparation and discussion of SOAP (Subjective, Objective, Assessment and Plan) notes for at least SIX clinical cases (real / hypothetical) of the following disease conditions.
  - 1. Hypertension
  - 2. Angina Pectoris
  - 3. Myocardial Infarction
  - 4. Hyperlipidaemia
  - 5. Rheumatoid arthritis
  - 6. Asthma
  - 7. COPD
  - 8. Diabetes

- 9. Epilepsy
- 10. Stroke
- 11. Depression
- 12. Tuberculosis
- 13. Anaemia (any one type as covered in theory)
- 14. Viral infection (any one type as covered in theory)
- 15. Dermatological conditions (any one condition as covered in theory)

II. Patient counselling exercises using role plays based on the real / hypothetical clinical case scenarios. The students are expected to provide counselling on disease condition, medications, life-style modifications, monitoring parameters, etc. and the same shall be documented. (Minimum 5 cases)

III. Simulated cases to enable dose calculation of selected drugs in paediatrics, and geriatrics under various pathological conditions. (Minimum 4 cases)

## **Recommended Books:**

- 1. Clinical Pharmacy and Therapeutics Roger and Walker, Churchill Livingstone Publication
- 2. Clinical Pharmacy and Therapeutics Eric T. Herfindal, Williams and Wilkins Publication
- 3. Applied Therapeutics: The clinical Use of Drugs. Lloyd Young and Koda-Kimble MA Lippincott, Williams and Wilkins Publication.
- 4. Pharmacotherapy: A Pathophysiologic approach Joseph T. Dipiro et al. Appleton and Lange Publication.
- 5. National Formulary of India, Indian Pharmacopoeia Commission, Ghaziabad.