PHARMACOTHERAPEUTICS - THEORY

Course Code: ER20-24T 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.	8
	Rational use of Medicines, Evidence Based Medicine,	
	Essential Medicines List, Standard Treatment Guidelines	
	(STGs)	
2	Definition, etiopathogenesis, clinical manifestations	, non-
	pharmacological and pharmacological management	of the
	diseases associated with	
	(a) Cardiovascular System	
	Hypertension	8
	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	
 Inflammatory Bowel Diseases (Crohn's Disease and 	
Ulcerative Colitis)	
(f) Haematological disorders	4
Iron deficiency anaemia	
Megaloblastic anaemia	
(g) Infectious diseases	12
Tuberculosis	
Pneumonia	
Urinary tract infections	
Hepatitis	
Gonorrhoea and Syphilis	
Malaria	
HIV and Opportunistic infections	
 Viral Infections (SARS, CoV2) 	
(h) Musculoskeletal disorders	3
Rheumatoid arthritis	
Osteoarthritis	
(i) Dermatology	3
Psoriasis	
• Scabies	
Eczema	
(j) Psychiatric Disorders	4
Depression	
Anxiety	
Psychosis	
(k) Ophthalmology	2
Conjunctivitis (bacterial and viral)	
Glaucoma	
(I) Anti-microbial Resistance	2
	4
(m) Women's Health	
• •	
(m) women's HealthPolycystic Ovary SyndromeDysmenorrhea	

PHARMACOTHERAPEUTICS - PRACTICAL

Course Code: ER20-24P 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)

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