

LESSON PLAN

PHARMACOTHERAPEUTICS – THEORY

Course Code: ER20-24T 75 Hours +25 Hour Tutorial (4 Hours/week)

Name of Tutor/Teacher: Dr. Pooja Saini Lecturer in Pharmacy

Schedule of Classes: Theory: Tuesday: 10.00-11.00 AM, Tuesday: 2.00-3.00 PM, 4.00 to 5.00 PM, Friday: 4.00 to 5.00 PM (Sh. Dalbir Singh, Senior Lecturer in Pharmacy)

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

CO1.2T.1. Help assessing the subjective and objective parameters of patients in common disease conditions

CO1.2T.2. Assist other healthcare providers to analyze drug related problems and provide therapeutic interventions

CO1.2T.3. Participate in planning the rational medicine therapy for common diseases

CO1.2T.4. Design and deliver discharge counselling for patients

Chapter	Topic	Date	Hour	CO	PO	Coverage	Reason for discrepancy	Plans for compensation in backlog	Taught by	Verified by
1	Introduction to Pharmacotherapeutics: Scope and objectives		1							
	Rational use of Medicines		2							
	Evidence Based Medicines		3							
	Essential Medicines List		4							
	Standard Treatment Guidelines (STGs): introduction		5							
	Standard Treatment Guidelines (STGs): Scope, Aim and Objective		6							
	Applications of STGs		7,8							
2	Definition, etiopathogenesis, clinical manifestations, nonpharmacological and pharmacological management of the diseases: Introduction		1							
	Cardiovascular diseases: Introduction		2							
	Hypertension		3							
	Angina and Myocardial infarction		4							
	Hyperlipidemia		5,6							
	Congestive Heart Failure		7,8							
	Respiratory System: Introduction		1							
	Asthma		2,3							
	COPD: Introduction		4							
	Endocrine System: Introduction		1							
	Diabetes		2							
	Thyroid disorders – Hypothyroidism		3							

Hyperthyroidism		4,5							
Central Nervous System: Introduction		1							
Epilepsy		2,3							
Parkinson's disease		4,5							
Alzheimer's disease		6,7							
Stroke, Migraine		8							
Gastro Intestinal Disorders: Introduction		1							
Gastro oesophageal reflux disease		2,3							
Peptic Ulcer Disease		4							
Alcoholic liver disease		5							
Inflammatory Bowel Diseases: Crohn's Disease		6							
Inflammatory Bowel Diseases (Ulcerative Colitis)		7							
Haematological disorders: Introduction		1							
Iron deficiency anaemia		2,3							
Megaloblastic anaemia		4							
Infectious diseases: Introduction		1							
Tuberculosis: Introduction		2,3							
Pneumonia		4							
Urinary tract infections		5,6							
Hepatitis		7,8							
Gonorrhoea and Syphilis		9							
Malaria		10							
HIV and Opportunistic infections		11							

Viral Infections (SARS, CoV2)		12							
Musculoskeletal disorders: Introduction		1							
Rheumatoid arthritis		2							
Osteoarthritis		3							
Dermatology: Introduction		1							
Psoriasis		1							
Scabies		2							
Eczema		3							
Psychiatric Disorders: Introduction		1							
Depression		2							
Anxiety		3							
Psychosis		4							
Ophthalmology: Introduction		1							
Conjunctivitis (bacterial and viral)		2							
Glaucoma		3							
Anti-microbial Resistance		1,2							
Women's Health: Introduction		1							
Polycystic Ovary Syndrome		2							
Dysmenorrhea		3							
Premenstrual Syndrome		4							

PHARMACOTHERAPEUTICS – PRACTICAL

Course Code: ER20-24P

25 Hours (1 Hour/week)

Name of Tutor/Teacher: Dr. Pooja Saini Lecturer in Pharmacy

Schedule of Classes:

Practical: *Batch A*: Monday (11.00 – 12.00 PM)

Practical: *Batch B*: Wednesday (11.00 – 12.00 PM)

Practical: *Batch C*: Thursday (11.00 – 12.00 PM)

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

CO1.2P.1. Write SOAP (Subjective, Objective, Assessment and Plan) notes for the given clinical cases of selected common diseases

CO1.2P.2. Counsel the patients about the disease conditions, uses of drugs, methods of handling and administration of drugs, life-style modifications, and monitoring parameters.

Exp. No.	Experiment	Batch	Date	CO	PO	Coverage	Reason for discrepancy	Plans for compensation in backlog	Taught by	Verified by
1	Preparation and discussion of SOAP (Subjective, Objective, Assessment and Plan) of Hypertension	A								
		B								
		C								
2	Preparation and discussion of SOAP (Subjective, Objective, Assessment and Plan) of Angina Pectoris	A								
		B								
		C								
3	Preparation and discussion of SOAP (Subjective, Objective, Assessment and Plan) of Myocardial Infarction	A								
		B								
		C								
4	Preparation and discussion of SOAP (Subjective, Objective, Assessment and Plan) of Hyperlipidemia	A								
		B								
		C								
5	Preparation and discussion of SOAP (Subjective, Objective, Assessment and Plan) of Rheumatoid arthritis	A								
		B								
		C								
6	Preparation and discussion of SOAP (Subjective, Objective, Assessment and Plan) of Asthma	A								
		B								
		C								
7	Preparation and discussion of SOAP (Subjective, Objective, Assessment and Plan) of COPD	A								
		B								
		C								
8	Preparation and discussion of SOAP (Subjective, Objective, Assessment and Plan) of Diabetes	A								
		B								
		C								
9	Patient counselling on disease condition, medications, life-style modifications, monitoring parameters of Diabetes	A								
		B								
		C								
10	Patient counselling on disease condition, medications, life-style modifications, monitoring parameters of Epilepsy	A								
		B								
		C								
11	Patient counselling on disease condition, medications, life-style modifications, monitoring parameters of Asthma	A								
		B								
		C								

13	Patient counselling on disease condition, medications, life-style modifications, monitoring parameters of Hypertension	A								
		B								
		C								
14	Patient counselling on disease condition, medications, life-style modifications, monitoring parameters of Depression	A								
		B								
		C								
15	Patient counselling on disease condition, medications, life-style modifications, monitoring parameters of Stroke	A								
		B								
		C								
16	Calculating the dose in pediatrics according to body surface area	A								
		B								
		C								
17	Calculating the dose in pediatrics according to body weight	A								
		B								
		C								
18	Calculating the dose in pediatrics according to height	A								
		B								
		C								
19	Calculating the dose in geriatrics according to body weight.	A								
		B								
		C								
20	Calculating the dose in geriatrics as per body Surface area	A								
		B								
		C								
21	Calculating the dose in geriatrics as per body diseased condition.	A								
		B								
		C								
22	Calculating the dose in geriatrics as per body diseased condition	A								
		B								
		C								

SUGGESTED READINGS

1. Clinical Pharmacy and Therapeutics - Roger and Walker, Churchill Livingstone Publication
2. Clinical Pharmacy and Therapeutics - Eric T. Herfindahl, 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.
Indian Pharmacopoeia
5. National Formulary of India, Indian Pharmacopoeia Commission, Ghaziabad
