



GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Pharmacy

PHARMACOTHERAPEUTICS - THEORY

Course Code: DP204TP

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 Medicines, Evidence Based Medicine, Essential Medicines List, Standard Treatment Guidelines (STGs)	8
2	Definition, etiopathogenesis, clinical manifestations, non-pharmacological and pharmacological management of the diseases associated with	
	(a) Cardiovascular System <ul style="list-style-type: none">• Hypertension• Angina and Myocardial infarction• Hyperlipidaemia• Congestive Heart Failure	8
	(b) Respiratory System <ul style="list-style-type: none">• Asthma• COPD	4
	(c) Endocrine System <ul style="list-style-type: none">• Diabetes• Thyroid disorders - Hypo and Hyperthyroidism	5
	(d) Central Nervous System <ul style="list-style-type: none">• Epilepsy	8



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	<ul style="list-style-type: none">• Parkinson's disease• Alzheimer's disease• Stroke• Migraine	
	(e) Gastro Intestinal Disorders <ul style="list-style-type: none">• Gastro oesophageal reflux disease• Peptic Ulcer Disease• Alcoholic liver disease• Inflammatory Bowel Diseases (Crohn's Disease and Ulcerative Colitis)	8
	(f) Haematological disorders <ul style="list-style-type: none">• Iron deficiency anaemia• Megaloblastic anaemia	4
	(g) Infectious diseases <ul style="list-style-type: none">• Tuberculosis• Pneumonia• Urinary tract infections• Hepatitis• Gonorrhoea and Syphilis• Malaria• HIV and Opportunistic infections• Viral Infections (SARS, CoV2)	12
	(h) Musculoskeletal disorders <ul style="list-style-type: none">• Rheumatoid arthritis• Osteoarthritis	3
	(i) Dermatology <ul style="list-style-type: none">• Psoriasis• Scabies• Eczema	3
	(j) Psychiatric Disorders <ul style="list-style-type: none">• Depression• Anxiety• Psychosis	4
	(k) Ophthalmology <ul style="list-style-type: none">• Conjunctivitis (bacterial and viral)• Glaucoma	2
	(l) Anti-microbial Resistance	2
	(m) Women's Health <ul style="list-style-type: none">• Polycystic Ovary Syndrome• Dysmenorrhea• Premenstrual Syndrome	4



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Diploma Pharmacy

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)