

Course title:	Integrated Therapeutics IV
Course code:	Phar4164
Course ECTS: 7 ECTS (189 hours)	<ul style="list-style-type: none"> • Lecture: 64 hours • Ward attachment : 30 hours • Tutorial: 32 hours • Home study: 43 hours • Project work/presentation :12 hours • Assessment : 8 hours
Contact hours/ week:	<ul style="list-style-type: none"> • 9 cr.hrs/week
Pre-requisite if any:	Integrated Therapeutics III
Course description:	This course is a continuation of integrated therapeutics III. It is designed to prepare graduate pharmacy students to manage a number of common diseases, including infectious, immunological, oncologic, and nutritional disorders. It also prepares students to develop rational drug therapy plans, identify conditions for monitoring pharmacotherapy, and conditions that require referral.
Course objectives:	<p>After completion of this course, the student will be able to describe, analyze and identify various infectious, oncologic, immunologic, and nutritional disorders; and manage drug therapy.</p> <p>Specific Objectives</p> <p>To meet this objective students will:</p> <ul style="list-style-type: none"> • Describe the pathophysiologic processes underlying infectious diseases, oncologic, immunologic, nutritional disorders. • Analyze and interpret diagnostic findings relevant to infectious, oncologic, immunologic, and nutritional disorders. • Recommend appropriate treatment regimen for patients suffering from infectious, oncologic, immunologic, and nutritional disorders. • Provide follow up and monitor outcomes in patients who have infectious, oncologic, immunologic, and nutritional disorders • Perform research and activities in pharmacotherapy of infectious, oncologic, immunologic, and nutritional disorders.
Delivery mode/methodology:	<p>During this course the following mode of teaching can be used:</p> <ul style="list-style-type: none"> • Illustrated lectures and group discussions • Individual and group exercise and assignments • Role plays and case studies • Simulation

Assessment mechanisms: • Audiovisuals
 • Clinical scenarios
 • Tutorials
 • Demonstration
 Continuous assessment & summative assessment

- Test: 10%
- Quizzes: 15%
- Seminar presentations: 10%
- Case presentations: 10%
- Journal club presentation: 5%
- Assignments (5%)
- Pharmacy Patient profile (5%)
- Final Exam (40%)

References: Your Reading Materials for the Course:

1. Dipiro JT, Talbert RL, Yee GC, et.al. Pharmacotherapy, a Pathophysiologic Approach. 7th or later edition.
2. A Practical Guide to Pharmaceutical Care, American Pharmacists Association, 3rd edition.
3. Koda - Kimble MA, Young LY , Kradjan WA, et.al. Applied Therapeutics, The Clinical Use of Drugs. 9th or later edition.
4. Walker R and Edwards C. Clinical Pharmacy and Therapeutics. 3rd or later edition.
5. Atkinson A, Daniels C, Dedrick R, et.al. Principles of Clinical Pharmacology. 1st or later edition.
6. Kasper, Braunwald, et al. Harrison's Principles of Internal Medicine, 18th or later edition
7. Tierney, McPhee, Papadakis. Current Medical Diagnosis and Treatment 2008 or later edition
8. Conn's Current therapy 2008
9. Washington Manual of Medical Therapeutics 32nd edition
10. Jacobs & DeMott Laboratory Test Handbook, 5th edition
11. Handouts including copies of PowerPoint slides from lectures
12. Guidelines and articles as specified by the instructor

Course outline

Week #	Lect. #	Topics	Reading Material
1	1	Infectious diseases Pharmacotherapy: Principles of antimicrobial regimen selection	Reference No. 1, 3, 6
	2	Infectious diseases Pharmacotherapy: Upper respiratory tract infections	
2	3	Infectious diseases Pharmacotherapy: Lower respiratory tract infections	
	4	Infectious diseases Pharmacotherapy: Infective Endocarditis, Eye infections	
3	5	Infectious diseases Pharmacotherapy: Skin and soft tissue infections	
	6	Infectious diseases Pharmacotherapy: Urinary tract infections and Prostatitis	
4	7	Infectious diseases Pharmacotherapy: Gastrointestinal infections	
	8	Infectious diseases Pharmacotherapy: Intra-abdominal infections	
5	9	Infectious diseases Pharmacotherapy: Parasitic infections; Osteomyelitis and Septic arthritis	
	10	Infectious diseases Pharmacotherapy: Central Nervous System infections	
6	11	Infectious diseases Pharmacotherapy: Tuberculosis	Reference No. 1, 3
	12	Infectious diseases Pharmacotherapy: Sexually Transmitted Infections	
7	13	Infectious diseases Pharmacotherapy: Human Immunodeficiency Virus infection and OIs	
	14	Infectious diseases Pharmacotherapy: Human Immunodeficiency Virus infection and OIs	
8	15	Infectious diseases Pharmacotherapy: Human Immunodeficiency Virus infection and OIs	
	16	Infectious diseases Pharmacotherapy: Human Immunodeficiency Virus infection and OIs	
9	17	Infectious diseases Pharmacotherapy: Superficial fungal infections	
	18	Infectious diseases Pharmacotherapy: Invasive fungal infections	
10	19	Infectious diseases Pharmacotherapy: Surgical antibiotic prophylaxis 50% continuous assessment report	
	20	Immunological Disorders Pharmacotherapy: Systemic Lupus Erythematosus and Other Collagen-Vascular diseases	
11	21	Immunological Disorders Pharmacotherapy: Allergic and Pseudo-allergic Drug Reactions	
	22	Immunological Disorders Pharmacotherapy: Solid-Organ Transplantation	
12	23	Oncologic disorders Pharmacotherapy: Pituitary gland Disorders	

	24	Oncologic disorders Pharmacotherapy: Principles of cancer treatment and chemotherapy	Reference No. 1, 3
13	25	Oncologic disorders Pharmacotherapy: Breast cancer	
	26	Oncologic disorders Pharmacotherapy: Lung cancer	
14	27	Oncologic disorders Pharmacotherapy: Colorectal cancer; Multiple myeloma	
	28	Oncologic disorders Pharmacotherapy: Prostate cancer	
15	29	Oncologic disorders Pharmacotherapy: Lymphomas; Ovarian and cervical cancer	
	30	Oncologic disorders Pharmacotherapy: Acute Leukemias; Chronic Leukemias	
16	31	Oncologic disorders Pharmacotherapy: Oncologic emergencies	
17	32	Nutritional disorders Pharmacotherapy: Parenteral & Enteral Nutrition	
18	33	Nutritional disorders Pharmacotherapy: Obesity; Nutritional considerations in major organ failure	
19	34	Research in Pharmacotherapy:	