

منهاج الصيدلة السريرية / الدكتوراه

	Subject Name	Chapters	References
1	Advanced Therapeutics III	1-Hypertension, 2-Heart Failure, 3-Stable ischemic Heart Disease, 4- Acute Coronary Syndromes, 5-Stroke, 6-Dyslipidemias, 7-Schizophrenia, 8-Depressive Disorder, 9-Bipolar Disorder, 10-substance related disorders, 11-Lymphomas, 12-Anemias, 13-Electrolyte Homeostasis, 14-Acid-Base disorders, 15-Chronic Kidney Disease	Pharmacotherapy Handbook. By Joseph T. DiPiro. Last edition
2	Advanced Therapeutics IV	1-Breast Cancer, 2-Colorectal Cancer, 3-Prostate Cancer, 4-Respiratory Tract Infections(lower), 5-Respiratory Tract Infections(Upper), 6-Tuberculosis, 7-Gastrointestinal Infections, 8-Hormone Therapy, 9-Peptic Ulcer Disease, 10-Inflammatory Bowel Disease, 11-Portal Hypertension and Cirrhosis, 12-Viral Hepatitis, 13-Adrenal Gland Disorders, 14-Psoriasis, 15-Benign Prostatic Hyperplasia, 16-Pancreatitis.	Pharmacotherapy Handbook. By Joseph T. DiPiro. Last edition
3	Advanced Clinical Pharmacokinetics II	1-Clinical Pharmacokinetic and pharmacodynamic Concepts. 2 Clinical Pharmacokinetic Equations and Calculations. 3-Drug Dosing in Special Populations. 4-The Aminoglycoside Antibiotics 5- Vancomycin. 6-Phenytoin & fosphenytoin. 7-Valproic acid.	Larry A. Bauer. Applied clinical pharmacokinetics. Last edition

4	Adv. Pharmaceutical Biotechnology	<p>Applications Of Recombinant DNA Techniques In Medicine,</p> <p>Techniques To Recognize Normal Or Pathologic Genetic Variations,</p> <p>Principles Of Genetics, DNA Polymorphism, Recombinant DNA Techniques,</p> <p>Techniques For Amplifying DNA Sequences</p> <p>Use Of Recombinant DNA Techniques For Diagnosis Of Disease</p> <p>use of recombinant DNA techniques for the prevention and treatment of disease</p> <p>Gene Therapy ,CRISPER</p>	<p>Mark's Basic Medical Biochemistry 10th edition 2015</p> <p>-Lehninger Principles of Biochemistry, <i>David Nelson</i> 8th edition 2021</p>
5	Advanced Pharmacology III	<ul style="list-style-type: none"> • Pharmacology and Toxicology • Clinical laboratory sciences • Pharmaceutics • Pharmaceutical chemistry • Pharmacognosy and medicinal plants • Clinical pharmacy 	<p>Cannabinoid receptors as therapeutic targets</p> <p>Renin- angiotensin system as target for drug treatment of different diseases.</p> <p>Novel target for anti-inflammatory agents.</p> <p>New drugs for treatment of diabetes and metabolic syndrome.</p> <p>Pharmacological bases of antiaging drugs.</p> <p>Gene therapy, theories, animal experiments and clinical applications.</p>
6	Advanced Clinical Biochemistry III	Diseases of Genetic origin , Oxidative stress related disorders, Advanced glycation end	-Clinical Biochemistry and Metabolic Medicine by Martin A. Crook;

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		<p>products & DM, Dyslipidemia, Biochemistry of trace elements, Clinical enzymology,</p> <p>Endocrine system and lab diagnosis techniques,</p> <p>Hypothalamus and pituitary glands with their diseases, Adrenal gland, Thyroid gland, Male and female reproductive glands & related diseases .</p>	<p>Latest edition</p> <p>-Tietz Textbook of Clinical Chemistry 5th edition Burtis C A</p>
7	Rate Process	<p>Chemical Kinetics and Stability: Reference: MARTIN'S physical pharmacy and pharmaceutical sciences physical chemical and biopharmaceutical principles in the pharmaceutical sciences</p>	<p>SIXTH EDITION, Editor PATRICK J. SINKO, PhD, RPh, Chapter 14</p>