

مختصر توصيف مقرر "نموذج 5"

كيمياء طبية	اسم المقرر:
CHM-464	رقم المقرر:
-	اسم ورقم المتطلب السابق:
-	اسم ورقم المتطلب المرافق:
المستوى السابع	مستوى المقرر:
3	الساعات المعتمدة:
Module Title:	Medical chemistry
Module ID:	CHEM 464
Prerequisite (Co-requisite):	CHM 362
Co-requisite:	-
Course Level:	Level 7
Credit Hours:	3

معلومات المقرر * (Course Information):

Module Description

وصف المقرر :

This course presents an overview of medical chemistry, it will describe the classification of drugs, structure activity relationship, synthesis of the drugs and will also cover Spectrum of activity of chemotherapy agents,

Module Aims

أهداف المقرر:

1	Know principal knowledge of medical chemistry
2	Classify different types of chemotherapeutic agents
3	Predict the activity of the drug by the structure of drug molecule
4	Describe the methods of synthesized chemotherapeutic agents
5	Draw the structure of different drugs

Learning Outcomes:

مخرجات التعليم:

The student after finishing this course will be able to

1.1	Describe the basic knowledge of medical chemistry	1
1.2	Classify different types of chemotherapeutic agents	2
2.1	Predict the activity of the drug by the structure of drug molecule	3
2.2	Describe the methods of synthesized chemotherapeutic agents	4
4.1	Draw the structure of different drugs	
	Detect the correct method for drug analysis	





محتوى المقرر
Course Contents

ساعات التدريس (Hours)	عدد الأسابيع (Weeks)	قائمة الموضوعات (Subjects)
6	2	<p>Drugs acting on Anti-inflammation/ Allergy</p> <ol style="list-style-type: none"> 1- Antihistamine SAR, receptor, antagonist, classification synthesis and drug profile 2- Prostaglandin Function, biosynthesis, synthesis and drug profile 3- Analgesic, antipyretic and NSAIDs Classification, SAR of <ol style="list-style-type: none"> 1. Salicylates 2. p-aminophenol 3. 3,5-pyrazolidine diones 4. Anthranilic acid derivatives
6	2	<p>Drugs acting on respiratory system (Expectorants and antitussive)</p> <p>Introduction to respiratory system, Expectorants and antitussive, classification synthesis and drug profile</p>
6	2	<p>Drugs acting on digestive system</p> <ol style="list-style-type: none"> 1. (Antilulcer agent) classification synthesis and drug profile, SAR 2. Antidiarrheal synthesis and drug profile
6	2	<p>Drugs acting on blood and blood forming organs</p> <ol style="list-style-type: none"> 1. Coagulant Classification and synthesis 2. Plasma expanders
6	2	<p>Drugs acting on endocrania system</p> <ol style="list-style-type: none"> 1- Oral hypoglycemic drugs. Classification, synthesis and SAR of Sulphonyl Urea's 2- Antithyroid drugs





		Classification and synthesis
9	3	Chemotherapy <ol style="list-style-type: none"> 1- History and development of chemotherapy (Spectrum of activity of chemotherapy agents) 2. Antibacterial sulphonamides (Classification, synthesis and SAR) 3. Effective antibacterial Quinolone (synthesis and SAR) 4. Antibiotic (Classification, synthesis and SAR) 5. Antitubercular (Classification, synthesis and SAR) 6. Antifungal agents (Classification, synthesis and SAR) 7. Antiviral agents (Classification, synthesis and SAR) 8. Anti-amoebic agents (Classification, synthesis and SAR) 9. Antimalarials agents (Classification, synthesis and SAR) 10. Anthelmintic agents (Classification, synthesis and SAR) 11. Antineoplastic agents (Classification, synthesis and SAR) 12. Antileprotic drugs (Classification, synthesis and SAR)
3	1	Pharmacopeia drug analysis
28	14	Total

Textbook and References:

الكتاب المقرر والمراجع المساندة:

ISBN	سنة النشر Publishing Year	اسم الناشر Publisher	اسم المؤلف (رئيسي) Author's Name	اسم الكتاب المقرر Textbook title
ISBN-978-81-312-2190-7	2010	Elsevier	V. Algarsamy	Medicinal chemistry



