

Course Syllabus of Food and Drug Interaction

Faculty: Medicine and Health Sciences

Department: Health Sciences

Program: Bachelor in Clinical Nutrition and Dietetic

I. General information about the course instructor :							
Name	Mohammed Battah	Office Hours(3 Hours Weekly)					
Location & phone number	2nd floor 777404880	Sat	Sun	Mon	Tue	Wed	Thu
Email	m.albattah@ust.edu				1		2

II. General information about the course:						
1.	Course Title :	Food and Drug Interaction				
2.	Course Code and Number :	BND355				
3.	Credit Hours :	Credit Hours				Total
		Theoretical	Seminar/Tutorial	Practical	Training	
		2	-	-	-	2
4.	Study Level and Semester:	3 rd level/ 1 st semester				
5.	Pre-requisites :	BND234				
6.	Co-requisites :	None				
7.	Program in which the course is offered:	Bachelor in Clinical Nutrition and Dietetic				
8.	Teaching Language:	English				
9.	Instruction location:	University of Science and Technology, Sana'a, Yemen				

III. Course Description:
<p>This course aimed to prepare students for understanding the basic concepts of general pharmacology and food-drugs interactions, effects of nutritional, herbal & dietary supplements intake with drugs categories as well as their adverse effects. The teaching will include lecture, collaborative learning, self-learning discussion and assignment. The students will be evaluated through report, written exam and Assignment evaluation. Principles of human nutrition is an prerequisite course.</p>

عميد الكلية:
د. عبد الله المخلافي

رئيس القسم:
د. عبد الحبيب القباطي

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APPROVED

المراجع:
د. احمد المحمدي
د. مجاهد نصار

الموصف:
د. محمد بطاح

IV. Course Aims: This course aims to:-

1. Provide the student the knowledge to recognize the basic concepts of pharmacology and food drug interactions.
2. Assist students to explore the best methods to prevent food drug interactions, and choose the suitable drugs and food during pregnancy & lactation.
3. Enable students to monitor the nutritional status in drug regimen, and demonstrate the adverse effects of food intake with drugs categories.

Learn the student to communicate with others in team-work.

V. Course Intended Learning Outcomes (CILOs) :

After completing this course, students would be able to:

1. Define the different terms in pharmacology and food drug interactions, and classify the different types of drug categories that may cause interactions with food.
2. Select the appropriate meals to avoid interactions for patients who use different categories of drugs.
3. Describe the adverse effects of drug categories intake with meals for the patients.
4. Design the proper nutritional program for patients with different drugs use to prevent food drug interactions.
5. Manage the suitable monitoring of nutritional status in drug regimen.
6. Interpret the rationale for choosing the suitable food intake with drugs categories and their adverse effects in individual or group patients.
7. Schedule the suitable drugs during pregnancy and lactation, and the appropriate drug to decrease appetite and obesity.
8. Cooperate effectively while working with other health care professionals in hospitals, clinics or health centers.

VI. Course Content

First: Theoretical Aspects

No.	Course Topics/Units	Sub-topics	No. of Weeks	Contact Hours
1	Introduction and Basic concept	Definitions of drug & food drug interaction Routes of drug administration Drug-body reactions: Pharmacodynamics & mechanism of drug action Pharmacokinetics: absorption, bioavailability, distribution, metabolism and excretion.	1 st -3 rd	6

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2	Food and Drug Interactions	Basic Concepts, Mechanisms of drug–drug and drug–food interactions: Pharmacodynamics interactions Pharmacokinetics interactions Some important pharmacological terms	4 th -5 th	4
3	Monitoring Nutritional Status in Drug Regimen	Drug-induced malnutrition: Causes of drug-induced malnutrition, Drug- nutrient interaction complications	6 th	2
4	Effects of Food Intake With Drugs Categories	Adverse effects of food intake with drugs: Analgesics, Antibiotics, Antiprotozoal, Anticonvulsants and Cardiovascular Agents	7 th	2
5	Drug Interactions with Nutrition Support	Definition of nutrition support, Indications for nutritional support , Drug interactions in nutrition Support	8 th	2
6	Midterm Exam	-	9 th	2
6	Drug Interactions with Herbal & Dietary Supplement	Herbal, Dietary supplement and interactions with drugs Prevention of food–drug interactions	10 th -11 th	4
7	Obesity and Appetite Drugs	Definition of obesity & BMI, Etiology of obesity, Management of obesity: Medicine that decrease appetite, Medicine that increase appetite	12 th -13 th	4
9	Drugs and the Life Cycle	Drugs in pregnancy and lactation: FDA classification of drugs risk to fetus, Known teratogens, Drugs and lactation	14 th	2
10	Anti-microbial agents	Introduction, antibacterial agents, antifungal and antiviral	15 th	2
11	Final exam.	-	16 th	2
Total number of weeks and hours			16	32

جامعة العلوم والتكنولوجيا
إدارة ضمان الجودة والاعتماد
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