

<b>Faculty: Pharmacy</b>	
<b>Department: : Clinical Pharmacy</b>	<b>Program: BSc in Pharmacy</b>
<b>Semester: Second</b>	<b>Academic year: 2022/2023</b>



## Course Plan

### First: Course Information

<b>Course Name:</b>	<i>Clinical Nutrition</i>		<b>Course No. 1101597</b>		
<b>Credit Hours:</b>	<i>2</i>	<i>Theoretical</i>	<i>2</i>	<i>Practical</i>	<i>0</i>
<b>Prerequisite: Pharmacology 3</b>	<i>Class Number: 1</i>		<b>Lecture Time:</b> <i>Sunday, Tuesday: 2-3</i>		
<b>Level in JNQF</b>	<i>7</i>				
<b>Course Nature:</b>	<input type="checkbox"/> <i>Mandatory Faculty Requirement</i> <input type="checkbox"/> <i>Optional University Requirement</i> <input type="checkbox"/> <i>Mandatory University Requirement</i> <input type="checkbox"/> <i>Faculty Requirement</i> <input type="checkbox"/> <i>Ancillary Course</i> <input checked="" type="checkbox"/> <i>Optional Specialty Requirement</i> <input type="checkbox"/> <i>Mandatory Specialization requirement</i>				
<b>Type of Education:</b>	<input type="checkbox"/> <i>Face-to-Face Education</i> <input checked="" type="checkbox"/> <i>Blended Education (2 Face-to-Face + 1 Asynchronous)</i> <input type="checkbox"/> <i>Electronic Education Fully (1 Asynchronous + 2 Synchronous)</i>				

### Second: Instructor's Information

<b>Course coordinator</b>		
<i>Name: Dr. Lina Tamimi</i>	<i>Office Number: 272</i>	<i>Email: ltamimi@zu.edu.jo</i>
<b>Instructor</b>		
<i>Name: Dr. Lina Tamimi</i>	<i>Office Number: 272</i>	<i>Email: ltamimi@zu.edu.jo</i>
<b>Office Hours:</b>	<i>Sunday: 1-2    Tuesday: 1-2    Thursday: 11-12</i>	
	<i>Monday 12:30-1    Wednesday 12:30-1</i>	

### **Third: Short Description of the Course**

The course emphasizes the basic principles of clinical human nutrition in health and disease conditions, obesity, and the relation between nutrition and sports practice.

It describes the correlation between food and different types of allergies, special nutrition concepts in specific diseased clinical cases, and fundamentals of food- drugs interactions and enteral parenteral nutrition support.

In addition, it supports student knowledge and practice skills concerning assessment, diagnosis and monitoring of vitamins and minerals deficiencies, signs and symptoms, and consequent diseases and health abnormalities.

### **Fourth: Course objectives**

The course aims at enabling the students to acquire and understand the basic Knowledge and skills necessary to maintain optimal health and prevent diseases through Proper nutrition. And to collaborate with other members of the health care team in management of specialized nutrition conditions, illnesses and problems. Other objectives are:

- Ensure nutrition needs of patients
- Provide evidence-based medical nutrition therapy.
- Ensure the role of pharmacist with the health care team to provide patient and resident care.
- Act as a resource for the health care team and other health care professionals.

### Fifth: Learning Outcomes

<i>Level descriptor according to (JNQF)</i>	<i>CILOs Code</i>	<i>CILOs</i> If any CILO will not be assessed in the course, mark NA.	<i>Associated PILOs Code</i> Choose one PILO for each CILO*	<i>Assessment method</i> Choose at least two methods	<i>Scores out of 100</i> State the total score identified for each CILO**	<i>Minimum acceptable Score/percentage (%)</i> The percentage should not be less than 50% ***
<b>Knowledge</b>	<b>K1</b>	Understand the basic principle of clinical human nutrition in health and disease conditions	<b>P. K1</b>	Midterm exam Final exam	<b>20:</b> 10 10	<b>10 (50%)</b>
	<b>K2</b>	To describe the correlation between food and different types of allergies, special nutrition concepts in specific diseased clinical cases, and fundamentals of food- drugs interactions, diabetes, obesity, parenteral nutrition support and GIT disorders.	<b>P. K1</b>	Midterm exam Final exam	<b>30:</b> 10 20	<b>15 (50%)</b>
<b>Skills</b>	<b>S1</b>	To give the best and proper plan of the merged drug-diet plan as a major therapy, to know the nutritional clinical alternatives for therapy according to patient-related condition.	<b>P. S1</b>	Midterm exam Quiz 1 Final exam	<b>15:</b> 5 5 5	<b>8 (50%)</b>
	<b>S2</b>	Set up and evaluate the recommended nutrition support elements, micro and macronutrient deficiencies, and chronic diseases monitoring and evaluation for the appropriate patient care	<b>P. S2</b>	Midterm exam Quiz 2 Final exam	<b>15:</b> 5 5 5	<b>8 (50%)</b>



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	S3	N. A							
	S4	N. A							
<b>Competencies</b>	C1	Assess the factors that contribute to nutrition-based disease progression, therapy failure, and case worsening Set a patient-specific required health outcome (prevent disease progression, prevent recurrence and improve patient quality of life), set a plan for a patient-specific condition (drug modification, nutrients deficiency corrections, patient education, and counseling)	P. C1	Homework Final	10: 5 5	5 (50%)			
	C2		P. C2	Poster presentation Final	10: 5 5	5 (50%)			
	C3	N. A							
	C4	N. A							
	C5	N. A							

\*Refer to document (CC-2023-02) and page 2 in document (CC-2023-01)

\*\* Refer to document (CC-2023-05)

\*\*\*80% of the students must achieve the minimum acceptable percentage or higher for each CILO



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## Sixth: Learning Source

<b>Designated Book:</b>	. Modern Nutrition in Health and Disease . Basics in Clinical Nutrition	
<b>Author:</b> Maurice E. Shils, Chief Luboš Sobotka	<b>Print:</b> 10 <sup>th</sup> edition 4 <sup>th</sup> edition	<b>Year:</b> Year: 2018 Year: 2011
<b>Additional Sources:</b> <b>Website:</b>	Sobotka, L. and Forbes, Alastair (2019) <i>Basics in Clinical Nutrition</i> . Galen, Prague. ISBN 978-80-7492-427-9	
<b>Teaching Type:</b>	Classroom <input checked="" type="checkbox"/> Laboratory <input type="checkbox"/> Workshop <input type="checkbox"/> MS Teams <input type="checkbox"/> Moodle <input checked="" type="checkbox"/>	

## Seventh: Course Structure

Lecture Date	Topics	Teaching Procedures*	Teaching Methods**	Covered CILOs	References***
5-3-2023	Basic principles of clinical human nutrition in health and disease cases.	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	Chapter 1: Modern Nutrition in Health and Disease
7-3-2023	Basic principles of clinical human nutrition in health and disease cases	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	Chapter 1: Modern Nutrition in Health and Disease
12-3-2023	Basic principles of clinical human nutrition in health and disease cases	Asynchronous	Homework 1 refer to the model for direction	C1	Model- submitted ppt. slides and google scholar scientific articles Electronic documented database sources
14-3-2023	Obesity, weight management, and the relation between sports and nutrition	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	Basics in Clinical Nutrition: chapter 1
19-3-2023	Obesity, weight management, and the relation between sports and nutrition	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	Basics in Clinical Nutrition: chapter 1
21-3-2023	Obesity, weight management, and the relation	Asynchronous	Homework 2 refer to the model for direction	C1	Model -submitted ppt. slides and google scholar

	between sports and nutrition				scientific articles Electronic documented database sources
26-3-2023	Diabetes Mellitus	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	1.9. Basics in Clinical Nutrition
28-3-2023	Diabetes Mellitus	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	1.9. Basics in Clinical Nutrition
2-4-2023	Diabetes Mellitus	Asynchronous	Video: 30 min Followed by Quiz1: 10 min. refer to the model for direction	S1	Chapter 1: Modern Nutrition in Health and Disease  1.9. Basics in Clinical Nutrition
4-4-2023	Food allergy	Face to face	PPTs and Group Discussion	K1K2 S1 S2 C1 C2	8.26. Basics in Clinical Nutrition
9-4-2023	Food allergy	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	8.26. Basics in Clinical Nutrition
11-4-2023	Food allergy	Asynchronous	Homework3 refer to the model for direction	C1	Model- submitted ppt. slides and google scholar scientific articles Electronic documented database sources
16-4-2023	Drugs nutrients interactions	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	Section H, Chapter: 99. Modern Nutrition In Health And Disease, Basics in Clinical Nutrition
18-4-2023	Drugs nutrients interactions	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	Section H, Chapter: 99. Modern Nutrition In Health And Disease, Basics in Clinical Nutrition
23-4-2023	Drugs nutrients interactions	Asynchronous	Homework 4 refer to the model for direction	C1	Model- submitted ppt. slides and google scholar scientific articles Electronic documented

					database sources
25-4-2023	Diseases of the Upper Gastrointestinal Tract	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	8.5, 8.6. 8.9 Basics in Clinical Nutrition
30-4-2023	Diseases of the Upper Gastrointestinal Tract	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	8.5, 8.6. 8.9 Basics in Clinical Nutrition
2-5-2023	Diseases of the Upper Gastrointestinal Tract	Asynchronous	Video: 40 min followed by Quiz 2: 10 min. refer to the model for direction	S2	8.5, 8.6. 8.9 Basics in Clinical Nutrition
7-5-2023	Diseases of the Lower Gastrointestinal Tract	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	8.5, 8.6. 8.9 Basics in Clinical Nutrition
9-5-2023	Diseases of the Lower Gastrointestinal Tract	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	8.5, 8.6. 8.9 Basics in Clinical Nutrition
14-5-2023	Diseases of the Lower Gastrointestinal Tract	Asynchronous	Poster submission	C2	Model- submitted ppt. slides and google scholar scientific articles Electronic documented database sources
16-5-2023	Enteral and parenteral nutrition	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	Chapter 98: Modern Nutrition in Health and Disease
21-5-2023	Enteral and parenteral nutrition	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	Chapter 98: Modern Nutrition in Health and Disease
23-5-2023	Enteral and parenteral nutrition	Asynchronous	Homework 5 refer to the model for direction	C1	Model- submitted ppt. slides and google scholar scientific articles Electronic documented database sources
28-5-2023	Vitamins	Face to face	PPTs and Group Discussion	K1K2 S1 S2 C1 C2	Chapter 5: 5.5 and 5.6 book. basics in human clinical nutrition

30-5-2023	Vitamins	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	Chapter 5: 5.5 and 5.6 book. basics in human clinical nutrition
4-6-2023	Vitamins	Asynchronous	Homework 6 refer to the model for direction	C1	Model- submitted ppt. slides and google scholar scientific articles Electronic documented database sources
6-6-2023	Minerals	Face to face	PPTs and Group Discussion	K1 K2 S1 S2 C1 C2	Chapter 5: book. and 5.65.5 basics in human clinical nutrition

Education procedures: (Direct, synchronous, asynchronous). \* \* Refer to document (CC-2023-04) \*\*\*Reference: Pages of the book, number of the chapter, recorded lecture, video....)



### Eighth: Assessment methods

Methods	Fully Electronic Education	Integrated Teaching	Direct Teaching	Specific Course Output to be measured													
				K1	K2	S1	S2	S3	S4	C1	C2	C3	C4	C5			
Mid-term Exam		30		10	10	5	5										
Final Exam		50		10	20	5	5				5	5					
* Quizzes		10				5	5										
* Assignments (H.W)		5									5						
Poster presentation		5										5					
<b>Total out of 100</b>				<b>20</b>	<b>30</b>	<b>15</b>	<b>15</b>				<b>10</b>	<b>10</b>					

\*State the score identified for each CIL.O for each method of assessment out of 100  
 \*\*If any CIL.O will not be assessed in the course, mark NA.

\* Refer to document (CC-2023-03)




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## Ninth: Course Policies

- Meeting the deadline for the lecture.
- Commitment to interaction and participation.
- Interactive lectures will be given through a platform (MS Teams).
- Duties and tests will be given through a platform (Moodle).
- Commitment to the right appearance with the proper background in front of the camera.
- University regulations for attendance and absence from lectures and examinations are in force.
- Academic Integrity: According to university regulations and instructions, fraud or moral impersonation is unacceptable and punishable.

Approval	Name	Date	Signature
Head of Department	Dr. Hamzah Al Hamad	2-4-2023	
Faculty Dean	Dr. Ahlam Al Kilani	2-4-2023	