Course plan							
Year: 2025	Semester: First Second, Su	nmmer Number of students: 6					
Major: medicine	Basic sciences, Physiopath	Department: Biochemistry and Nutrition					
Course Title: Biochemistry and Nutrition	Theoretical, Practical	Credit: Code N.:					
Prerequisite:	Day & Time: Tuesday 15 -17	Course type:					
Instructor:	Office address:	Tel:					
Email: ammar .salehi.nut@gmail.com	Response Hours and Days:	Student representative name and mobile number:					
Main objective: To familiarize students with the general principles of nutrition and its role in individual health.							
After completing this course, students should be able to:							
<ol> <li>Understand the general effects of nutrition on health.</li> <li>Identify the nutrients (macronutrients and micronutrients, including vitamins and minerals), their dietary sources, and the signs of their deficiency and toxicity.</li> <li>Explain the general principles of nutrition for different population groups.</li> <li>Describe how to develop dietary recommendations for individuals with varying needs.</li> </ol>							
References (Text books): 1- Krause's Principles of Nutrition							
Student evaluation and the value related to each evaluation: (The assessment tools that will be used to test student ability to understand the course material and gain the skills and competencies stated in learning outcomes)							
ASSESSMENT TOOLS	From						
Assignments	1						
Quiz	-						
Presence in online courses	1						
Midterm Exam	- 10						
Final Exam (Written exam) TOTAL MARKS	18 20						
TOTAL WARRS 20							
Students responsibilities:							
1- Mobile phones must be turned off during class or exams.							
2- Attending class on time							
3- It is necessary for the student to attend all class hours. Unexcused absence during the course will result in a grade							

## Discipline and educational rules:

deduction.

It is applied according to the regulations of the educational regulations

Mid exam date: Final exam date:

Row	date	Time	Торіс	Professor	References	Chapter	Pages
1	Tuesday	10-12	Principles of nutrition	salehi	Krause and		
			science and human		Mahan's Food & the Nutrition		
			requirements for dietary biomolecules; familiarity		Care Process.		
			with concepts such as				
			DIR, RDA, adequate				
			intake, upper limit, etc.				
2	Tuesday	15-17	Assessment of nutritional	salehi	Krause and		
			status in individuals,		Mahan's Food		
			including anthropometric		& the Nutrition Care Process.		
			evaluations in children		Care i focess.		
			and adults such as BMI, body composition,				
			skinfold thickness,				
			MUAC, z-score concept,				
			and growth curves.				
3	Tuesday	10-12	Assessment of dietary	salehi	Krause and		
			intake, including 24-hour		Mahan's Food & the Nutrition		
			dietary recall, food		Care Process.		
			record, and food frequency questionnaire.				
4	Tuesday	15-17	Evaluation of food	salehi	Krause and		
•	Tuesday	15 17	consumption at the	saiciii	Mahan's Food		
			community level and the		& the Nutrition		
			concept of food balance		Care Process.		
			sheets.				
5	Tuesday	10-12	Assessment of energy	salehi	Krause and		
			status and principles of		Mahan's Food & the Nutrition		
			calorimetry in nutrition; types of weight loss diets		Care Process.		
			and their biochemical				
			basis.				
6	Tuesday	15-17	Growth and nutrition.	salehi	Krause and		
					Mahan's Food		
					& the Nutrition Care Process.		
7	Tuesday	10-12	Nutrigenomics and the	salehi	Krause and		
			relationship between		Mahan's Food		
			nutrition and epigenetics.		& the Nutrition		
8	Tuesday	15-17	Hormonal and neural	salehi	Care Process.  Krause and		
	Tucsuay	15-17	regulation of eating	BuiCili	Mahan's Food		
			behaviors, satiety and		& the Nutrition		
			hunger, and related		Care Process.		
			disorders.				
9	Tuesday	10-12	Obesity and metabolic	salehi	Krause and		
			syndrome, types of		Mahan's Food & the Nutrition		
			malnutrition, anorexia,		Care Process.		
10	Tuesday	15-17	cachexia.  The role of diet in	salehi	Krause and		
10	ruesuay	1,3-1/	The fole of the In	Saielli	Krause and		

11	Tuesday	10-12	cardiovascular diseases, hypertension, diabetes, and cancer.  Application of biochemical tests in	salehi	Mahan's Food & the Nutrition Care Process. Krause and Mahan's Food	
			nutritional status assessment.		& the Nutrition Care Process.	
12	Tuesday	15-17	Principles of dietary therapy in metabolic diseases, dietary management in acute illness, monitoring response to treatment.	salehi	Krause and Mahan's Food & the Nutrition Care Process.	
13	Tuesday	10-12	Trace elements and their role in health and disease.	salehi	Krause and Mahan's Food & the Nutrition Care Process.	
14	Tuesday	15-17	Toxic minerals and fat- soluble vitamins in foods.	salehi	Krause and Mahan's Food & the Nutrition Care Process.	
15	Tuesday	10-12	Nutrition in athletes, dietary supplements, and their effects on performance and muscle strength.	salehi	Krause and Mahan's Food & the Nutrition Care Process.	
16	Tuesday	15-17	Nutrition during pregnancy and lactation.	salehi	Krause and Mahan's Food & the Nutrition Care Process.	
17	Tuesday	10-12	Drug-nutrient interactions, the effect of diet on drug absorption and excretion, and the impact of drugs on vitamin and mineral status.	salehi	Krause and Mahan's Food & the Nutrition Care Process.	