

SUBJECT OUTLINE

1. Data on the program

1.1 Institution of higher learning	“VICTOR BABEȘ” UNIVERSITY OF MEDICINE AND PHARMACY TIMIȘOARA
1.2 Faculty	FACULTY OF MEDICINE
1.3 Department	VII
1.4 Study domain ¹⁾	Licence
1.5 Study cycle ²⁾	Licence
1.6 Study program/Qualification	Medicine

2. Data on the subject

2.1. Name of the subject	Nutrition in pathology							
2.2 Course coordinator								
2.3 Laboratory activities coordinator								
2.4 Year of study	V	2.5 Semester	1	2.6 Type of evaluation	Colloquium	2.7 Discipline regime	Content ³⁾	DS
							Obligation ³⁾	DO

3. Total estimated time (hours during the semester spent on didactic activities)

3.1 Number of hours per week	1	3.2 of which: course	1	3.3 laboratory	-
3.4 Total hours of the learning plan	14	3.5 of which: course	14	3.6 laboratory	-
Distribution of time					Hours
Study from the course book, course support, bibliography and notes					20
Supplementary documentation in the library, specialized electronic platforms and in the field					8
Preparation for seminars/laboratories/projects/homework/portfolios and essays					6
Tutorship					
Examinations					2
Other activities					
3.7 Total hours of individual studies	34				
3.8 Total hours per semester	50 (1 credit = 25 hours)				
3.9 Number of credits ⁵⁾	2				

4. Preconditions (where necessary)

4.1 curriculum	Biochemistry, Physiology, Internal Medicine
4.2 competences	

5. Conditions (where necessary)

5.1 de desfășurare a cursului	<ul style="list-style-type: none"> • Use of cell phones is forbidden during courses, as telephone conversations over the duration of the course, will not be tolerated; • Student tardiness will not be tolerated, as it is disruptive to the educational process; • Course attendance is mandatory in order to participate in the exam during the normal exam session, the maximum number of acceptable absences being 50 % of the total number of courses.
5.2 de desfășurare a seminarului/ laboratorului/ proiectului	

6. Acquired specific competences

Professional competences	<ol style="list-style-type: none"> 1. Learning the terms in the field of nutrition in various pathologies; 2. The ability to evaluate the energy and nutrient requirements of a person in various pathological states; 3. Describing the concepts and the nutritional requirements in various pathological states; 4. Interpreting and analyzing aspects regarding health in various pathological states and the recommended diets in these situations.
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Competences transversal	1. Identifying the roles and responsibilities in a multidisciplinary team, elaborating projects specific to this domain while correctly evaluating and applying the deontological and ethical norms
	2. Efficiently utilizing information sources, communication resources, vocational training in elaborating projects and studies that lead to continuous professional development;
	3. Preoccupation for the professional development by training the abilities for critical thinking by active participation during lectures;
	4. Involvement in the scientific research by writing papers, scientific studies or scientific articles;
	5. The efficient use of the informational sources and of the resources for communication and assisted professional development (Internet portals, various types of software, databases, on-line lectures etc.) in both Romanian and in a internationally used foreign language.

7. Subject objectives (shown from the accumulated specific competences)

7.1 General objective of the subject	Learning the fundamental notions regarding diet in various pathologies.
7.2 Specific objectives	<ol style="list-style-type: none"> 1. Advocating health and wellness in various pathological states. 2. Evaluating the state of health and nutrition in various pathologies and provide adequate nutritional counseling.

8. Content

8.1 Course	Teaching methods	Number of hours	Observations
1. The nutrition of the patient with obesity	Structured oral presentations supported by Powerpoint slides, interactive, accompanied by pictures.	2	
2. The nutrition of the patient with dyslipidemia		2	
3. The nutrition of the patient with type 1 diabetes		2	
4. The nutrition of the patient with type 2 diabetes		2	
5. The nutrition of the patient with gout	The lectures are periodically checked-up and completed with relevant new information.	2	
6. The nutrition of the patient with liver cirrhosis		2	
7. The nutrition of the patient with chronic kidney disease	Each lecture begins with the disclaimer of the educational objectives and finishes with a brief summary of the knowledge presented.	2	
8. The nutrition of the patient with hemorrhagic colitis and Crohn's disease		2	
9. The nutrition of the patient with gastro-duodenal ulcer		2	
10. The nutrition of the patient with coeliac disease and irritable bowel		2	
11. The nutrition of the patient with oncological pathology		2	
12. The nutrition of the patient with pancreatic pathology		2	
13. The nutrition of the patient with malnutrition		2	
14. The nutrition of the patient with hypertension and cardiovascular disease		2	
		28	
Mandatory bibliography:			
1. Width M, Reinhard T. The Clinical Dietitian's Essential Pocket Guide. Lippincott Williams and Wilkins, 2009.			
2. Luboš Sobotka et. al. ESPEN Book - Basics in Clinical Nutrition, fifth edition, 2019			

9. Corroborating the subject content with the expectations of the representatives of the epistemic communities, the professional associations and those of the representative employers afferent to the domain of the program

<p>The student is familiarized with the notions regarding calculating the dietary intake: ideal weight, energy requirement at rest, energy requirement for physical activities, necessary protein, carbohydrate, lipid, fiber, cholesterol and water intake. The student learns how to allocate energy the energy requirements to each meal and how to elaborate a meal plan for a healthy adult. The acquired information and abilities will allow the student to deal with the current healthcare job market, satisfying the educational and professional European standards.</p> <p>In order to sketch and uniformize the contend, as well as schosing the teaching/learning methods, the subject coordinators have organized and participated in didactic themed workshops in the Romanian Nutrition Society's congresses. The workshops targeted identifying the needs and expectations of employers working this domain and coordinating with similar programs from other medical universities. The acquired information and abilities will allow the student to deal with the current healthcare job market, satisfying the educational and professional European standards.</p>

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Proportion of the final grade
10.4 Course	<i>Knowledge for mark 5:</i> -summary notions regarding human nutrition based on associated pathologies <i>Knowledge for mark 10:</i> -elaborate notions in establishing a diet based on the associated pathologies -knowing the methods used to investigate nutritional status corelated with associated pathology -the steps in monitoring and evaluating interventional programs based on associated pathology	<i>Final evaluation:</i> a project based on a chosen theme	100%
10.5 Laboratory/Stage			
10.6 Minimum performance standard			
Knowing the clinical and paraclinical indicators necessary for the nutritional evaluation of patients with: cardiovascular, oncological, digestive and metabolic pathologies.			

Date of filling	Course coordinator's signature	Laboratory/stage coordinator's signature
Head of discipline's signature Prof. Dr. Romulus Timar		
Date of approval in the department	Department head's signature Conf. Dr. Viviana Ivan	