

DISCIPLINE SHEET**ACADEMIC YEAR****2022 - 2023****1. DATA ABOUT THE STUDY PROGRAM**

1.1 High education institution	UNIVERSITY OF MEDICINE AND PHARMACY CRAIOVA
1.2 Faculty	MEDICINE
1.3 Department	4
1.4 Studies domain	HEALTH
1.5 Studies cycle	LICENCE
1.6 Studies program/Qualification	MEDICINE

2. DATA ABOUT THE DISCIPLINE

2.1 DISCIPLINE NAME	DIABETES, NUTRITION AND METABOLIC DISEASES				
2.2. Discipline code	MED 4102				
2.3 The holder of course activities	Simona Popa, Mihaela Vladu				
2.4 The holder of seminar activities	Simona Popa, Mihaela Vladu, Gheonea Theodora, Adina Mitrea, Diana Clenciu				
2.5. Academic degree	Associate Professor, Assistant Professor.				
2.6. Employment (base norm/associate)					
2.7. Year of study	IV	2.8. Semester	I	2.9. Discipline type (content) 2.10. Discipline regime (compulsoriness)	CSD

3. TOTAL ESTIMATED TIME (teaching hours/ semester)

3.1 Number of hours per week	2	out of which: 3.2 course	1	3.3 seminar/laboratory	1
3.4 Total hours in curriculum	28	out of which: 3.5 course	14	3.6 seminar/laboratory	14
Time found distribution (hours)					
Study from manual, course support, bibliography, and notes					6
Additional documentation in the library, specialized electronic platforms and, on the field					5
Training seminars / labs, homework, reports, portfolios, and essays					4
Tutoring					3
Examinations					2
Other activities, counselling, student scientific programs					2
3.7 Total hours of individual study	22				
3.8 Total hours per semester	50				
3.9 Number of credits	2				

4. PREREQUISITES (where appropriate)

4.1 of curriculum	-
4.2 of competences	-

5. CONDITIONS (where appropriate)

5.1. for course deployment	Lecture hall University of Medicine and Pharmacy Craiova / online
5.2. for seminar/laboratory deployment	Nutrition and Diabetes Clinic, 9th floor at the Emergency Hospital / online

6. PROFESSIONAL COMPETENCES ACCRUED

PROFESSIONAL COMPETENCE	<p>C1-identify the disease status and diagnosis of the disease (diseases).</p> <p>C2-design and implementation of a plan of appropriate therapeutic disease (diseases) identified.</p> <p>C3-correct assessment of the risk of illness or of a context of individual/collective illness</p> <p>C4-addressing the issue of health/disease from the perspective of community</p> <p>C5-initiation and development of a scientific research activities and/or formative in its scope of competence</p>
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TRANSVERSAL COMPETENCES	CT1. Autonomy and responsibility
	<ul style="list-style-type: none"> the acquisition of moral reference points, the formation of professional and civic attitudes, that will allow to the students to be fair, honest, helpful, understanding, unconflictuals, to cooperate and to be comprehensive in the face of suffering, to be available to help people, and to be interested in community development; to know, to respect and to contribute to the development of moral values and professional ethics; to learn how to recognize the problems when they arise, and provide solutions for solving them.
	CT2. Social interaction
	<ul style="list-style-type: none"> to recognize and to have respect for diversity and multiculturalism; to have or to learn how to develop teamwork skills; to communicate orally and in writing the manner of work requirements, the obtained results, to consult with the team; to engage themselves in voluntary activities, to know the essential problems of the community.
	CT3. Personal and professional development
	<ul style="list-style-type: none"> to have opening to lifelong learning; to be aware for self-study as a basis of personal autonomy and professional development; to derive the optimum and creative potential in their own collective activities; to know how to use information and communication technologies.

7. DISCIPLINE OBJECTIVES (based on the grid of specific competences acquired)

7.1 The general objective of the discipline	General notions about intermediary metabolisms, hydro-electrolytic balance, acid-basic balance Metabolic-nutrition pathology Cardio-vascular risk evaluation in metabolic pathology Primary, secondary and tertiary prevention in metabolic diseases Healthy and ill person's diet
7.2 The specific objectives of the discipline	Get necessary knowledge about the importance of the metabolic pathology its diagnosis, prevention and treatment Healthy life style role in pathology prevention and health keeping Habituation in training the healthy person to respect the healthy life style

8. CONTENTS

8.1 Course (content units)	No. hours
Diabetes mellitus - definition, epidemiology, classification, diagnostic criteria	2
Diabetes mellitus - management	2
Diabetes mellitus – chronic complications	
Diabetes mellitus - acute complications (ketoacidosis coma, hyperosmolar coma, lactic acidosis)	2
Hypoglycemia	2
Obesity - definition, epidemiology, classification, diagnostic criteria, complications. Principles of nutrition	2
Hyperuricemia and gout. Dyslipidemia, atherogenesis and cardiovascular risk	2
BIBLIOGRAPHY	
1. Guideline: ADA 2022 Standards of Medical Care in Diabetes. https://diabetesjournals.org/care/issue/45/Supplement_1	
2. Dincă ME, Popa SG, Vladu IM. Diabet, boli de nutriție și metabolism – ediția a II-a, revăzută și actualizată – Ed. Medicală Universitară, Craiova, 2021. ISBN 978-973-106-337-9	
3. Kumar and Clark Clinical Medicine. Diabetes mellitus (Chapter 23), Disorders of lipid metabolism (Chapter 24). ISBN: 978-0-7020-7868-2; International ISBN: 978-0-7020-7869-9	
4. Abbas E. Kitabchi, Guillermo E. Umperrez, John M. Miles, Joseph N. Hyperglycemic Crises in Adult Patients With Diabetes. Diabetes Care 2009 Jul; 32(7): 1335-1343. https://doi.org/10.2337/dc09-9032	
5. Dincă ME, Moța M. Patologia Nutrițional Metabolică. Ed. Medicală Universitară Craiova, 2010. ISBN 978-973-106-154-2	
6. Șerban V – Tratat român de boli metabolice, Vol.I,II, Editura Brumar 2011	
8.2 Practical works (subjects/themes)	
Clinical evaluation in patients with nutritional and metabolic diseases. Clinical case presentation	2
Paraclinical evaluation in the patient with nutrition and metabolism diseases. Clinical case presentation	2
Non-insulin antidiabetic therapy in patients with diabetes. Presentation of devices. Clinical case presentation	2
Insulin antidiabetic therapy in patients with diabetes. Presentation of insulin administration devices. Clinical case presentation	2
Diabetes mellitus - acute and chronic complications. Clinical case presentation	2
Healthy lifestyle	2
Elaboration of the nutritional plan for the healthy and sick person. Clinical case presentation	2

BIBLIOGRAPHY

1. Guideline: ADA 2022 Standards of Medical Care in Diabetes. https://diabetesjournals.org/care/issue/45/Supplement_1
2. Dincă ME, Popa SG, Vladu IM. Diabet, boli de nutriție și metabolism – ediția a II-a, revăzută și actualizată – Ed. Medicală Universitară, Craiova, 2021. ISBN 978-973-106-337-9
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4. Abbas E, Kitabchi, Guillermo E, Umpierrez, John M, Miles, Joseph N. Hyperglycemic Crises in Adult Patients With Diabetes. Diabetes Care 2009 Jul; 32(7): 1335-1343. <https://doi.org/10.2337/dc09-9032>
5. Dincă ME, Moța M. Patologia Nutrițional Metabolică. Ed. Medicală Universitară Craiova, 2010. ISBN 978-973-106-154-2
6. Șerban V – Tratat român de boli metabolice, Vol.I,II, Editura Brumar 2011

9. CORROBORATING THE DISCIPLINE CONTENT WITH THE EXPECTATIONS OF EPISTEMIC COMMUNITY REPRESENTATIVES, PROFESSIONAL ASSOCIATIONS AND EMPLOYEE REPRESENTATIVES RELATING TO THIS PROGRAM

- Nutrition and Metabolism Diseases is an important and fundamental discipline, mandatory for a student in his preparation for becoming a doctor.
- The knowledges, practical skills and the attitudes learned on this discipline are offering the basics of the pathological processes that will be studied in other disciplines and it is the basis for comprehension and understanding and learning of every medical attitude regarding the prevention, diagnosis, curative and the recovery processes.

10. METHODOLOGICAL LANDMARKS

Types of activity	Teaching Techniques / learning materials and resources: Note: In case of special situations (emergency states, alert states emergency, other types of situations that limit the physical presence of people) the activity can be carried out online using platforms computer science approved by the faculty / university. The process of Online education will be properly tailored to ensure fulfillment of all the objectives provided in the discipline file.
Course	The following mixed methods are used: Inter-active course and expound/ PP presentation
Practical works	The following mixed methods are used: Inter-active course and expound/ PP presentation
Individual study	

11. RECOVERY PROGRAM

Absences recoveries	No. absences that can recover	Location of deployment	Period	In charge	Scheduling of topics
	3	Nutrition and Diabetes Clinic, 9th floor at the Emergency Hospital / online	The last week of the semester	Teaching Assistant	According to the internal schedule
Schedule consultations / Students' Scientific Program	2 hours /week	Nutrition and Diabetes Clinic, 9th floor at the Emergency Hospital / online	Weekly	Teaching Assistant	Topic from that specific week
Program for students poorly trained	2 hours /week	Nutrition and Diabetes Clinic, 9th floor at the Emergency Hospital / online	Weekly	Teaching Assistant	According to the situation of each student Topic from that specific week

12. ASSESMENT

Activity	Types of assesment	Method of evaluation	Percentage from final grade
Lecture	Formative assesment through essays, projects and surveys during the semester Summative assesment during the exam	Multiple Choice Questions Answering System (MCQ)/MCQ with the help of the IT platform in the online version.	60%
Practical work	Formative assesment through Multiple Choice Questions Answering System (MCQ) or/and descriptive, projects, survey during the semester.	Multiple Choice Questions Answering System (MCQ) simultaneously with the one	20%

	Periodic assesment during the semester Summative assesment during the exam	from the course / with the help of the video platform in the online version.	
Periodic assesment			10%
Assesment of individual activity			10%
Minimum performance standard	At least 50% for each component of the evaluation		
13. GUIDANCE AND COUNSELLING PROGRAMS			
Professional guidance and counselling programs (2 hours/monthly)			
Scheduling the hours	Location	In charge	
Every last Friday of the month	Nutrition and Diabetes Clinic, 9th floor at the Emergency Hospital / online	Lecture holders	

Endorsement date in the department: 28.09.2022

**Department director,
Prof. Paul MITRUT**

**Coordinator of study program,
Prof. Marius Eugen CIUREA**

**Discipline holder,
Conf. univ. dr. Simona POPA**