DISCIPLINE SHEET

1.-Info about the program

FOUNDATION FOR DEVELOPMENT AND MANAGEMENT	
1.2-Faculty	FACULTY OF MEDICINE
1.3-Departament	Clinical/Specialization Discipline
1.4-Study domain	Health
1.5-Study cycle	Bachelor
1.6-Study program/ Calification	Medicine-English

2.-Info about discipline

2.1- Name of the discipline					VACCINOLOGY			
2.2-Course lecturer					Lect. Dr. **LOGIGAN Cătalina**, MD, PhD			
2.3-Seminary lecturer					Lect. Dr. **LOGIGAN Cătalina**, MD, PhD Lect. Dr. **VARZARU Marinela-Carmen**, MD, PhD)			
2.4-Year of study	**V**	2.5 Semester	**II**	2.6 Evaluation type	**Exam**	2.7. Discipline regime	Content Optional	**DS** **DOP**

3. -Total time (hours of didactic activity per semester)

3.1-Number of hours per week	2	3.2 -course	1	3.3- laboratory	1
3.4-Total hours of the curriculum	28	3.5 -course	14	3.6 -laboratory	14

Distribution of time	Hours
Study after manual, course support, bibliography and notes	10
Additional documentatin in the library, on the specialized electronic platforms and on the field	10
Training seminars/laboratories/projects, themes, papers,portofolios and essays	1
Tutoring	-
Examination	1
Other activities	-

3.7-Individual study hours	**22**
3.8-Total hours per semester	50
3.9-Credit number	2

4.-Preconditions (if applicable)

4.1.-Curriculum	Knowledge of allergology-immunology and epidemiology
4.2.-Learning Outcomes	Not the case

5.-Conditions (where applicable)

5.1. -Course Conduct	Not the case
5.2.-conducting the seminary	Seminary room with video projector

6. Learning outcomes

Knowledge	Knowledge and understanding of how vaccines work. Various types of vaccines Knowledge of the development of vaccine science and technology;
Skills	Identifying the philosophical concepts and historical events that have shaped medical conception and practice from the beginning to the present.
Responsibilities and autonomy	Vaccine knowledge, what are the different types of vaccination technologies Influencing vaccination during pregnancy and early

7.-Objectives of the discipline (resulting from the grid of specific skills accumulated)

7.1 -General objective of the discipline	Knowing and understanding how the vaccine works. Various types of vaccine
7.2- Specific objectives	·-Knowledge of the development of vaccine science and technology; ·-Knowledge of the vaccine, what are the different types of vaccination technologies ·-Getting to know the most outstanding medical personalities who have made an important contribution to the progress of medicine;

	·-Identify the philosophical concepts and historical events that have shaped medical conception and practice from the beginning to the present; ·-Influencing vaccination during pregnancy and early childhood

8.-Contents

-		
8. 1- Course	hours /week	Teaching methods
1-2. Various types of vaccine. How the vaccine works.	2	Lecture, case study
3-4. Development of vaccine science and technology. What are the different types of vaccination technologies. What is the role of technology in Covid-19 vaccination. How long does mRNA last in the body.	2	
5-6.II. Immunizations and vaccines: benefits, risks, effectiveness.	2	
7-8. Vaccine hesitancy - an overview. What is the impact of the lack of vaccination. Is it important to get vaccinated? What diseases have been eradicated by vaccines.	2	
9-10. mRNA vaccination work. What is the difference between the mRNA vaccine and the traditional vaccine. What is the advantage of the mRNA vaccine. What are the side effects of the mRNA vaccine.	2	
11-12. Vaccination in pregnancy and early life. Historical aspects of vaccination in pregnancy. vaccines in early pregnancy. What vaccines should be avoided during pregnancy.	2	
13-14.-Infectious diseases and vaccines. How vaccines help with infectious diseases. What infectious diseases have been eradicated by vaccines. How vaccines are useful in the treatment of bacterial infections.	2	

Mandatory bibliography:

1.-Yehuda Shoenfeld -Vaccinurile si autoimunitatea EdituraChristiana,2016

2.-Barry R. Bloom and Paul-Henri Lambert, *The Vaccine Book, Second Edition*, Imprint Academic Press, 2016 Elsevier Inc.

3.-Hahn Susan-Vaccination Programmes: Epidemiology, Monitoring, Evaluation, Editura Routledge,2021

Optional bibliography

1. Pamela G. Rockwell, *Vaccine Science and Immunization Guideline A Practical Guide for Primary Care*, Publisher Springer Cham, Published: 17 November 2017

2. Indreptar de vaccinare in cabinetul medicului de familie, Editura Amaltea,2018
3. Viorel Alexandrescu-Mic dictionar de vaccinuri si vaccinari. Norme si recomandari pentru copii, adulti si categorii speciale de populatie, Editura: Amaltea,2015
4. Veronica Lazăr, Carmen Chifiriuc, Alina Holban, Doina Bulai, Duncan Stewart-Tull-Imunologie,2022
5. Mihaescu, Grigore-Imunologie si imunopatologie (editia a 2-a)Editura: MEDICALA,2021
6. Martina Lenzen-Schulte .Vaccinuri. 99 de lucruri esențiale .Editura Paralela 45,2019.

8. 2- Seminar (themes, number of hours, bibliography	hours /week	Teaching methods
1-2. Various types of vaccine. How the vaccine works.	2	Lecture, case study
3-4. Development of vaccine science and technology. What are the different types of vaccination technologies. What is the role of technology in Covid-19 vaccination. How long does mRNA last in the body.	2	
5-6.II. Immunizations and vaccines: benefits, risks, effectiveness.	2	
7-8. Vaccine hesitancy - an overview. What is the impact of the lack of vaccination. Is it important to get vaccinated? What diseases have been eradicated by vaccines.	2	
9-10. mRNA vaccination work. What is the difference between the mRNA vaccine and the traditional vaccine. What is the advantage of the mRNA vaccine. What are the side effects of the mRNA vaccine.	2	
11-12. Vaccination in pregnancy and early life. Historical aspects of vaccination in pregnancy. vaccines in early pregnancy. What vaccines should be avoided during pregnancy.	2	
13-14.-Infectious diseases and vaccines. How vaccines help with infectious diseases. What infectious diseases have been eradicated by vaccines. How vaccines are useful in the treatment of bacterial infections.	2	

Mandatory bibliography:

1.-Barry R. Bloom and Paul-Henri Lambert, *The Vaccine Book, Second Edition*, Imprint Academic Press, 2016 Elsevier Inc.

2.-Hahn Susan-Vaccination Programmes: Epidemiology, Monitoring, Evaluation, Editura Routledge,2021

9.-Corroborating/validating the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and employers representative of the field related to the program

The contents of the discipline are in accordance with the RNCIS standards.

10.-Evaluation

Activity Type	10.1-Evaluation criteria	10.2-Evaluation methods	10.3-Weight of the final grade
10.4-Curse	-	-	-
10.5- -Seminary		Final assessment: 50-question grid test	100%
10.6 -Minimum Performance Requirement			
Obtaining a grade of 5 in the practical test			

Date: 28.04.2025	Signature of the discipline coordinator: Lect. Dr. **LOGIGAN Cătalina**, MD, PhD -	Holder of the seminar activities: 1.- Lect. Dr. **LOGIGAN Catalina**, MD, PhD 2.- Lect. Dr. **VARZARU Marinela-Carmen**, MD, PhD
Date of approval in the Department		
Signature of the Director of Department		

Reprezentant legal F.D.M.
Presedinte
Prof. Univ. Dr. POSTĂVARU Nicolae