



## DISCIPLINE SHEET

### 1.-Info about the program

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

### 2.-Information about the discipline

2.1- Name of the discipline		<b>PEDIATRICS_I</b>						
2.2-Course Coordinator			Professor, MD, PhD, <b>MARIS Ioana-Diana</b>					
2.3-Seminar Coordinator			Associate Professor, Lecturer, Assistant Professor					
2.4-Study Year	<b>V</b>	2.5 Semester	<b>I</b>	2.6 Evaluation type	Exam	2.7. Discipline regime	Content	<b>DS</b>
							Mandatory	<b>DOB</b>

### 3. -Total time (hours of teaching per semester)

3.1-Number of hours per week	3	3.2 -course	1	3.3- laboratory	2
3.4-Total hours per curriculum	42	3.5 -course	14	3.6 -laboratory	28
Hours distribution					Hours
Textbook study, course support, bibliography and notes					35
Additional documentation in the library, on specialized electronic platforms and on the field					15
Training seminars/laboratories/projects, papers, portfolios, and essays					4
Tutoring					-
Examination					2
Other activities					2
3.7-Individual study hours	58				
3.8-Total hours per semester	100				
3.9-Credit number	4				

### 4.-Preconditions (if applicable)

4.1.-Curriculum	<p><b>Fundamental Knowledge of Human Biology and Physiology:</b></p> <ul style="list-style-type: none"> <li>Understanding of basic biological processes, including the anatomy and physiology of human body systems, which are essential for understanding child development and health.</li> </ul>
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	<p><b>Knowledge of General Medicine:</b></p> <ul style="list-style-type: none"> <li>• Previous courses in general medicine to include concepts of general pathology, diagnosis and treatment of common conditions.</li> </ul>
4.2.-Competency	<p><b>Prior Experience in General Medicine or Pediatrics:</b></p> <ul style="list-style-type: none"> <li>• It is recommended that students have completed clinical rotations in the field of pediatrics.</li> <li>• Communication skills and empathy</li> <li>• Ability to interact with patients and families in an empathetic and respectful manner, considering their vulnerability.</li> </ul>

5.-Conditions (where applicable)

5.1. Course Conditions	Classroom equipped with multimedia equipment (projector, laptops, interactive whiteboard).
5.2. Seminar/laboratory Conditions	<p>Students require appropriate hospital equipment.</p> <p><b>Small Working Groups:</b> Seminars and laboratories should be organized in small groups of students (e.g., 10-12 students) to ensure direct interaction and active involvement of each participant.</p> <p><b>Adequate Locations:</b> rooms must be equipped with multimedia equipment (projector, laptops, interactive whiteboard).</p> <p><b>Access to Clinical Simulation:</b> use of simulators for students (e.g., mannequins for simulating physical examination, CPR, vaccine administration, intervention procedures).</p> <p><b>Digital Educational Resources:</b> access to online educational platforms (e.g., Canvas, Moodle, Google Classroom, etc.) to distribute course materials, worksheets, scientific articles, case studies, and laboratory assignments.</p>

6. Learning outcomes

<b>Knowledge</b>	Describes, identifies and evaluates physiological and pathological processes related to human reproduction, development and pediatric pathology, specific clinical and surgical interventions for supporting the health and treatment of pregnant women, newborns and children.
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<p><b>Skills</b></p>	<p>Demonstrates, interprets, and applies appropriate clinical and surgical methods to support the health of pregnant women, children, and newborns and to prevent, diagnose, treat, and monitor conditions associated with reproduction and pediatric development.</p>
<p><b>Responsibilities and autonomy</b></p>	<p>Planifică, susține și coordonează, sub supraveghere corespunzătoare, intervenții medicale și chirurgicale care să asigure sănătatea mamei și a copilului, asumând responsabilitatea și integrând colaborarea interdisciplinară.</p>

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

<p>7.1 -General objectives</p>	<p>Acquisition of necessary knowledge for understanding core notions of pediatric pathology, and particularities of pediatric diagnosis and treatment.</p>
<p>7.2- Specific objectives</p>	<p>Understanding child development:</p> <ul style="list-style-type: none"> <li>• To gain in-depth understanding of the physical, cognitive, emotional, and social development of the child from birth through adolescence.</li> <li>• To recognize normal and abnormal patterns of development and be able to differentiate between them.</li> </ul> <p>Clinical skills in pediatric examination:</p> <ul style="list-style-type: none"> <li>• To develop the ability to perform thorough physical examinations on children of all ages.</li> <li>• To interpret clinical findings in conjunction with laboratory tests, and diagnostic imaging, in order to make an accurate diagnosis.</li> </ul> <p>Diagnosis and management of common pediatric disease:</p> <ul style="list-style-type: none"> <li>• To acquire the necessary knowledge to diagnose and treat common pediatric conditions such as respiratory infections, gastrointestinal disorders, and dermatological conditions.</li> <li>• To be able to manage the care of children with chronic conditions, including asthma, diabetes, and congenital heart disease.</li> </ul> <p>-Management of pediatric emergencies:</p>



- To develop the skills necessary to recognize and treat pediatric medical emergencies, including respiratory failure, dehydration and septic shock.
- To gain proficiency in pediatric advanced life support (PALS)

Preventive pediatric care:

- To understand the role of immunization, health screenings, and preventive measures in promoting child health.
- To apply principles of health education to families and caregivers, emphasizing nutrition, hygiene, and safety practices.

Understanding pediatric pharmacology:

- To gain knowledge of pediatric pharmacology, including appropriate drug dosages, drug interactions, and side effects in children.
- To learn the differences in pharmacodynamics in children compared to adults and adjust treatment accordingly.

Childhood nutrition and growth monitoring:

- To understand the nutritional requirements for children at different stages of growth and development.
- To monitor growth patterns and intervene appropriately when abnormalities such as faltering growth or obesity are observed.

Psychosocial issues in pediatric care:

- To understand the impact of family dynamics, social factors, and psychological conditions on child development.
- To diagnose and manage behavioral disorders, developmental delays, and psycho-social issues in children.

Ethical decision-making in pediatric care:

- To apply ethical principles in making clinical decisions regarding pediatric patients, including considerations of informed assent/consent, child protection, and confidentiality.
- To involve parents and guardians in decision-making processes and address any ethical dilemmas in pediatric care.

Multidisciplinary collaboration in pediatric care:

- To develop the ability to work as part of a multidisciplinary team in pediatric care, collaborating with nurses, psychologists, social workers, and other health care professionals.



	<ul style="list-style-type: none"> <li>To understand the roles and responsibilities of different team members in providing holistic care to children.</li> </ul>
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8.-Content

8. 1-Course (topics, number of hours, references)	Teaching methods	hours/ 2 weeks
1. Upper Respiratory Tract Infections	Power Point Presentations Discussions	2
2. Lower Respiratory Tract Infections - bronchiolitis, bacterial pneumonia, bronchopneumonia, atypical pneumonia, parasitic and fungal pneumonia, pleural effusions	Power Point Presentations Discussions	2
3. Allergic rhinitis. Asthma. Respiratory Distress/Respiratory Failure	Power Point Presentations Discussions	2
4. Growth and Development in Children and Adolescents	Power Point Presentations Discussions	2
5. Childhood Diabetes and Obesity	Power Point Presentations Discussions	2
6. Hematological disorders	Power Point Presentations Discussions	2
7. Tumors: Langerhans histiocytosis, neuroblastoma, nephroblastoma, brain tumors	Power Point Presentations Discussions	2
References: 1. Nelson Textbook of Pediatrics, 22nd Edition, 2 Volumes, Elsevier 2. Kumar and Clark's Clinical Medicine , 10 <sup>th</sup> Edition, Elsevier		
8. 2- Seminars	Teaching methods	hours/ week
1. Pediatric Observation Chart	Oral presentation and digital support Bedside tutorial	2
2. Clinical Examination of the Infant and Young Child	Bedside tutorial	2
3. Clinical Simulation Rotation	Oral presentation and digital support Use of mannequins and performance of specific procedures	2
4. Upper Respiratory Tract Infections: Pharyngitis, Tonsillitis, Adenoiditis	Bedside tutorial to include clinical examination, clinical	2



	notes, differential diagnosis and treatment	
5. Upper Respiratory Tract Infections: Croup, Sinusitis, Otitis media	Bedside tutorial to include clinical examination, clinical notes, differential diagnosis and treatment	2
6. Bronchiolitis and viral induced wheeze	Bedside tutorial to include clinical examination, clinical notes, differential diagnosis and treatment	2
7. Lower Respiratory Tract Infections: Bacterial Pneumonia, Bronchopneumonia	Bedside tutorial to include clinical examination, clinical notes, differential diagnosis and treatment	2
8. Lower Respiratory Tract Infections: Atypical Pneumonia, Gram-Negative Bacterial Pneumonia, Fungal Pneumonia	Bedside tutorial to include clinical examination, clinical notes, differential diagnosis and treatment	2
9. Asthma, Acute Respiratory Failure	Bedside tutorial to include clinical examination, clinical notes, differential diagnosis and treatment	2
10. Growth and Development	Bedside tutorial to include clinical examination, use of growth charts, developmental assessment	2
11. Childhood diabetes	Bedside tutorial to include clinical examination, clinical notes, differential diagnosis and treatment	2
12. Childhood Obesity	Bedside tutorial to include clinical examination, clinical notes, differential diagnosis and treatment	2
13. Hematological disorders: anemia, thrombocytopenia, clotting disorders, leukemia, lymphoma	Bedside tutorial to include clinical examination, clinical notes, differential diagnosis and treatment	2
14. Childhood tumors	Bedside tutorial to include clinical examination, clinical notes, differential diagnosis and treatment	2
References:		
1. Nelson Textbook of Pediatrics, 22nd Edition, 2 Volumes, Elsevier		



2. Kumar and Clark's Clinical Medicine , 10<sup>th</sup> Edition, Elsevier

9.-Correlating the content of the discipline with the expectations of the representatives of the epistemic community, of professional associates 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 -Course	MCQ grade	MCQ test	80%
10.5-Seminar / practical activity class	Average grades during the semester	Continuous assessment	20%
	Topics from practical activities / seminars / clinical cases	clinical cases / practical skills	Pass/Fail
10.6-Minimum Performance Standard			
Minimal level of performance: Minimal pass grade 5 (five)			

Date: 25.04.2025	Signature of the Course coordinator: Professor, MD, PhD, <b>MARIS Ioana-Diana</b> 	Signature of the Seminar coordinator:
Date of approval in the Department		
Signature of the Director of Department		

**Reprezentant legal F.D.M.**  
Presedinte  
Prof. Univ. Dr. POSTAVARU Nicolae