



## DISCIPLINE GRID

### 1. Programme

1.1.	UNIVERSITY OF MEDICINE AND PHARMACY “CAROL DAVILA” BUCHAREST
1.2.	DENTISTRY FACULTY
1.3.	DEPARTMENT: STOMATOLOGY III
1.4.	DISCIPLINE: PEDODONTICS
1.5.	STUDY DOMAIN: Health, sectoral regulated within European Union
1.5.	STUDY LEVEL: LICENCE
1.6.	STUDY PROGRAMME: DENTAL MEDICINE IN ENGLISH

### 2. Discipline

2.1.	Name of the discipline: PEDODONTICS I
2.2	Codul disciplinei: MD04S02EN
2.3.	Type of discipline (FD/SD/CD): DS
2.4.	Status of discipline (COD/ES/FAD): COD
2.5.	Lecture tenure: Assoc. Prof. Dr. Tănase Mihaela, Lecturer Dr. Farcașiu Cătălina
2.6.	Practical classes tenure: Assoc. Prof. Dr. Tănase Mihaela, Lecturer Dr. Farcașiu Cătălina, assistant professor Dr. Feraru Victor Ion, Lecturer Dr. Munteanu Aneta, Lecturer Dr. Stanciu Ioana-Andreea, assistant professor Dr. Zmărăndache Daciana, assistant professor Adriana Apostol, assistant professor Simona Enache
2.7. Study year	IV
2.8. Semester	8
2.9. Evaluation type	E

### 3. Estimated total time (hours / semester of teaching activity / personal study)

I. Academic education						
3.1 No. hours per week	6	Out of which:	3.2. course	2	3.3 clinical stage	4
3.4. Total hours in the curriculum	84	Out of which:	3.5 course	28	3.6 clinical stage	56
II. Individual study						
Time fund distribution						hours
Study by textbook, course support, bibliography and notes						30
Additional documentation in the library, on specialized electronic platforms and in the field						10
Preparation of seminars / laboratories, topics, papers, portfolio and essays						10
Preparation for presentations or evaluations, preparation for the final examination						10
Tutoring						3
Other activities						3
Total hours of individual study						66 hours
Total hours/semester						150 hours
Number of credits						5

#### 4. Preconditions (where applicable)

4.1. curricular	<ul style="list-style-type: none"> <li>- Knowledge of morphology and structure of teeth and dental arches</li> <li>- Basic knowledge related to dental caries</li> <li>- Knowledge of dental instruments used in prophylactic and curative treatment</li> </ul>
4.2. of skills	<p>To know:</p> <ul style="list-style-type: none"> <li>- materials used in pedodontics</li> <li>- child patient management.</li> </ul>

#### 5. Conditions (where applicable)

5.1. for course	Amphitheatre with minimum 70 seats, computer, video projector / smart blackboard
5.2. for the clinical stage	Pedodontics offices with dental units, desks, board, chairs, materials and instruments specific to Pedodontics, seminary hall

#### 6. Learning results

Knowledge	Aptitudes	Responsibility and autonomy
The student/graduate accumulates, describes, analyses and evaluates specialized knowledge regarding the particularities of the diagnosis and treatment of dento-periodontal and periodontal trauma, developmental dental anomalies, oral and periodontal mucosal diseases in children and adolescents and the complex pathology of the first permanent molar, through classical or digital methods/techniques.	The student/graduate acquires and demonstrates specialized clinical experience under appropriate supervision. Gradually and gradually, during the years of study, performs practical and clinical tasks necessary to ensure the specific professional competencies (knowledge, skills and abilities) of the dental profession.	Studentul/absolventul integrează și aplică competențe de specialitate necesare pentru activitățile de prevenire, diagnostic și tratament privind anomalile și afecțiunile dinților temporari și permanenți imaturi. Evaluează, analizează, diferențiază, estimează, interprează și folosește informațiile, cunoștințele, aptitudinile și responsabilitățile acumulate pe parcursul anilor de studiu, pentru obținerea competențelor necesare practicării profesiei de medic stomatolog.

#### 7. Objectives of the discipline (based on the grid of specific skills acquired)

7.1. General objective	The student needs know the particularities of the diagnosis and treatment of dental caries in children and adolescents
7.2. Specific objective	<p>The student needs to know:</p> <ul style="list-style-type: none"> <li>- Methods of behavioural management of the child (fear, anxiety, phobia of the dental act) necessary for dental examination and treatment</li> <li>- Peculiarities of the diagnosis of simple caries, pulpitis, necrosis and pulpal gangrene in temporary and permanent immature teeth,</li> <li>- Methods of prophylactic treatment of dental caries in children and adolescents, treatment (operating times and working technique) of simple and complicated caries in temporary and permanent immature teeth</li> </ul>

## 8. Content

8.1. Course	Teaching methods	Observations
1. The objectives of Pedodontics - content, history, development trends. Notions of odontogenesis and clinical implications	Power Point Theoretical support	
2. Dental eruption - stages, sequence of temporary and permanent tooth eruption, inflammatory pathology		
3. Chronology of dental development. Dental age		
4. Morphological and structural features of temporary teeth. Physiological resorption of the roots of the temporary teeth		
5. Etiology of dental caries-peculiarities in young temporary and permanent teeth		
6. Caries of temporary teeth - indices of appreciation of morbidity by caries, epidemiology, classification, clinical forms		
7. Early caries of temporary teeth: epidemiology, etiology, clinical picture, positive diagnosis, differential and treatment		
8. Simple caries in temporary teeth-symptomatology, diagnosis, treatment		
9. Pulp inflammation in temporary teeth - features, clinical forms, elements of positive and differential diagnosis, evolution and treatment		
10. Pulp gangrene in temporary teeth - features, clinical forms, complications, positive and differential diagnosis, evolution and treatment		
11. Peculiarities of young permanent teeth; caries in permanent teeth during the growing period - epidemiology; simple caries - symptomatology, diagnosis, treatment; early caries - early diagnosis methods, treatment principles		
12. Pulpal inflammation in permanent teeth with incompletely formed root - peculiarities, clinical forms, symptomatology, positive and differential diagnosis, treatment		
13. Pulp gangrene in permanent teeth with incompletely formed root - peculiarities, clinical forms, symptomatology, positive and differential diagnosis, treatment (apexification methods and techniques)		
14. Principles and methods of prevention of dental caries in children and adolescents. Peculiarities of the main methods of prophylaxis applied to children and adolescents. Sealing fissures.		

### Bibliography:

1. Tănase Mihaela (editor). Manual de Pedodontie. Ed. Universitară „Carol Davila”, Bucureşti, 2024.
2. Mihaela Tănase: Suport teoretic de curs
3. Ionescu Ecaterina (editor). Manual pentru rezidențiat, vol. II. Editura Universitară "Carol Davila" Bucureşti, 2021, cap.5.

8.2. Practical session	Teaching methods	Observations
1. Psychological behavioral treatment in children and tooth recognition on models	- oral presentation	
2. Instrumentation, clinical examination and indices of oral hygiene and gingival bleeding	- direct clinical examination of	

3. Prophylactic treatment in children and adolescents	<p>clinic patients,  - model study,  - study of radiography  - practical demonstrations by performing the prophylactic and curative clinical manoeuvres provided in the curriculum</p>	
4. Diagnosis of simple caries		
5. Treatment of simple caries		
6. Preventive fillings with resin		
7. Pulpitis diagnosis		
8. Pulpitis treatment		
9. Diagnosis of necrosis and gangrene		
10. Treatment of necrosis and gangrene		
11. Peculiarities of pulpal treatment in immature permanent teeth (apexogenesis)		
12. Peculiarities of pulpal treatment in immature permanent teeth (apexification)		
13. Temporary tooth extraction		
14. Designing a treatment plan - exemplifying clinical cases		
<b>Bibliography:</b>		
1. Anca Maria Răducanu - Pedodontie – Îndrumar Practic, Ediția a VI-a revizuită și adăugită, Ed. Bren, București, 2023. 2. Mihaela Tănase : support teoretic de lucrări practice.		

## 9. Evaluation

Activity type	Evaluation criteria	Evaluation methods	Percentage out of final grade
<b>9.4 Course</b>	Knowledge of the clinical stages of performing dental treatments in children and adolescents – reading the entire recommended bibliography.	<b>Final theoretical exam Written, essay</b> - 3 individualized topics from the 3 major chapters of the analytical curriculum to evaluate the student's acquisition and understanding of theoretical concepts and way of thinking	55%
		Control paper – written examination - 3 topics from the first half of the subject taught in the course.	15%
<b>9.5 Practical session</b>	In-depth knowledge of the clinical stages of performing dental treatments in children and adolescents - reviewing the entire recommended bibliography.	The group assistant will appreciate the student's attitude during the internship (attendance, punctuality, attitude, technical training in accordance with the work phase, attitude towards patients, and support staff)	15%
	Periodic check Practical examination	Verification of practical knowledge on the patient and on study models significant for the studied case studies. Realization of the treatment plan.	15 %
<b>Minimum performance standard</b>			
Basic knowledge of the clinical stages of dental treatments in children and adolescents.			