**SYLLABUS**

1. **Programme Details**

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| **1.1.** | **GRIGORE T. POPA UNIVERSITY OF MEDICINE AND PHARMACY IASI** |
| **1.2.**  | **FACULTY : DENTAL MEDICINE / DEPARTMENT: SURGICAL**  |
| **1.3.** | **DISCIPLINE: PEDODONTICS** |
| **1.4.**  | **FIELD of STUDY:** **HEALTH** |
| **1.5.** | **STUDY CYCLE: BACHELOR**  |
| **1.6.** | **PROGRAMME of STUDY: Dental Medicine - English**  |
| 1. **Discipline Details**
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| **2.1.** | **Name of the Discipline: PEDODONTICS** |
| **2.2.** | **Teaching staff in charge with lectures: Associate Professor Dr. Savin Carmen** |
| **2.3.** | **Teaching staff in charge with seminar activities: Associate Professor Dr. Savin Carmen, Assist. Dr. Mârțu Alexandra, Assist. Dr. Vasîlca-Gavrilă Laura** |
| **2.4. Year**  | **IV** | **2.5. Semester** | **I, II** | **2.6. Type of evaluation**  | **Exam** | **2.7. Discipline regimen**  | **Compulsory** |

1. **Overall Time Estimates (hours/semester of didactic activity)**

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| --- | --- | --- | --- | --- | --- |
| * 1. **Number of hours per week**
 | **6** | **Of which: 3.2. lectures** | **2** | * 1. **seminar/ laboratory**
 | **4** |
| * 1. **Total hours in the curriculum**
 | **114** | **Of which: 3.5. lectures** | **52** | **3.6. seminar/ laboratory** | **62** |
| **Distribution of time**  |  |  |  |  | Hours |
| **Study time using course book materials, bibliography and notes**  | **38** |
| **Further study time in the library, online and in the field** | **20** |
| **Preparation time for seminars / laboratories, homework, reports, portfolios and essays** | **24** |
| **Tutoring** | **-** |
| **Examinations** | **4** |
| **Other activities** | - |
| **3.7. Total hours of individual study** |  | **86** |
| **3.8. Total hours / semester** |  |  **114** |
| **3.9. Number of credits**  |  | **8** |

1. **Prerequisites (where applicable)**

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| **4.1. curriculum** | It is not necessary |  |
| **4.2. competences** | It is not necessary |  |

1. **Conditions (where applicable)**

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| **5.1. for lecture delivery** | It is not necessary |  |
| **5.2. for seminar / laboratory delivery** | It is not necessary |  |

1. **Specific Competences Acquired**

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| **Professional Competences (knowledge and skills)** | * Student qualification in actual paediatric dentistry behavioral shaping and desensitization procedures – premedication, methods and techniques of pain control (pharmacological and non-pharmacological).
* The assimilation of the methods for the dental age assessment and determining.
* Knowing the morphological, structural and functional particularities of the deciduous and young permanent teeth.
* The assimilation of the techniques and methods of loco-regional analgesia and of short time general anesthesia used in pediatric dentistry.
* Student qualification in clinical and therapeutical management of decay in deciduous and young permanent teeth.
* Student qualification in clinical and therapeutical management of the deciduous and young permanent teeth pulpopathies.
* Knowing the particularization of the medical therapy in paediatric dentistry.
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| **Transversal Competences (roles, personal and professional development)** | * Students enabling and empowering in the methodology of epidemiological evaluation and monitoring of child dental diseases at community level – conducting screenings concerning the observed dental diseases.
* Assimilation of the "*4 hand dentistry*" in pediatric dental practice.
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1. **Objectives of the Discipline (related to the acquired competences)**

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| **7.1. General Objective** | * Empowerment of the student in particularization of the semiology and prevention in pediatric dentistry at various child age stages.
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| **7.2. Specific Objectives**  | * Customizing behavioral management in paediatric dentistry.
* Etiologic, pathogenic, clinic and therapeutic particularities of simple and complicated dental diseases in children and adolescents.
* Approaching complex oral rehabilitation from pedodontic point of view.
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1. **Contents**

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| **8.1. Lecture** | **Teaching methods**  | **Comments** |
| Introductory course - the Paediatric Dentistry particularization as definition, aim, objectives, content.  | Electronic presentation (MS PowerPoint) | 2 hours |
| The physiological and pathological particularities of the childhood in pediatric dentistry; the relevance of the psycho-sociological factor in pediatric dentistry. | Electronic presentation (MS PowerPoint) | 2 hours |
| Determinants of psycho-behavioral development of the child; inter-relations between the child's personality structure and his/her dental pathology. Risk factors in the child psycho-behavioral demodulation. | Electronic presentation (MS PowerPoint) | 2 hours |
| Temporary and young permanent teeth odontogenesis. | Electronic presentation (MS PowerPoint) | 2 hours |
| Dental eruption – patterns, dental age assessment, normal and pathological variations of the deciduous and permanent teeth eruption.  | Electronic presentation (MS PowerPoint) | 2 hours |
| Occlusion dynamics in temporary, mixed and young permanent dentition.  | Electronic presentation (MS PowerPoint) | 2 hours |
| The diagnostic and prognostic algorithm in pediatric dentistry.  | Electronic presentation (MS PowerPoint) | 2 hours |
| The morphological, structural, biological and physiological particularities of the temporary and young permanent teeth. | Electronic presentation (MS PowerPoint) | 2 hours |
| The particularization, relevance, objectives and strategy of dental prevention and education for pediatric oral health, on age stages in pedodontic practice. | Electronic presentation (MS PowerPoint) | 2 hours |
| Particularities of local and loco-regional analgesia in pediatric dentistry practice.  | Electronic presentation (MS PowerPoint) | 2 hours |
| Deciduous teeth simple decay – epidemiology, etiology, classifications, diagnostic, prognostic, therapeutic management particularities.  | Electronic presentation (MS PowerPoint) | 6 hours |
| Young permanent teeth simple decay – epidemiology, etiology, classifications, diagnostic, prognostic, therapeutic management particularities.  | Electronic presentation (MS PowerPoint) | 4 hours |
| Temporary teeth pulp diseases in pediatric dentistry practice: epidemiology, etiology, classifications, diagnostic and prognostic; therapeutical particularities.  | Electronic presentation (MS PowerPoint) | 8 hours |
| Young permanent teeth pulp diseases in pediatric dentistry practice: epidemiology, etiology, classifications, diagnostic and prognostic; therapeutical particularities.  | Electronic presentation (MS PowerPoint) | 6 hours |
| Particularities of medication in pediatric dentistry.  | Electronic presentation (MS PowerPoint) | 2 hours |
| Particularities of deciduous teeth extraction in pediatric dentistry. | Electronic presentation (MS PowerPoint) | 2 hours |
| The value of first permanent molar in harmonious development of dento-maxillary system. First permanent molar pathology – etiological and pathogenical, clinical and therapeutical particularities. | Electronic presentation (MS PowerPoint) | 2 hours |
| The premature loss of temporary teeth. | Electronic presentation (MS PowerPoint) | 2 hours |
| **Bibliography**1. Bălan A, Păsăreanu M - Elemente introductive în pedodonţie, Ed. Junimea, Iaşi, 2001.
2. Bratu E, Glăvan F - Practica pedodontică, Ediţia III, Ed. Orizonturi Universitare, Timişoara, 2005.
3. Casamassimo PS, Fields HW, McTigue DJ, Nowak A - Pediatric Dentistry: Infancy through Adolescence, 5th Edition, Ed. Elsevier Saunders 2013.
4. Dănilă I. - Dentistică preventivă, Ed. Didactică şi Pedagogică, Bucureşti, 2005, pag. 13-20, 20-28, 83-93, 226-302.
5. Dean JA, Avery DR, McDonald RE – McDonald and Avery’s Dentistry for the Child and Adolescent, 9th Edition, Ed. Mosby Elsevier, 2011.
6. Fucks AB, Peretz B – Pediatric Endodontics – Current Concepts in Pulp Therapy for Primary and Young Permanent Teeth, Ed. Springer, 2016.
7. Koch G, Poulsen S – Pediatric Dentistry – A Clinical Approach, 2nd Edition, Blackwell Publishing Ltd, 2009.
8. Luca R. - Pedodonţie Vol. I, II, Ed. Cerma, Bucureşti, 2003.
9. Maxim A, Bălan A, Păsăreanu M, Nica M. - Stomatologie comportamentală pediatrică, Ed. Contact International, Iaşi, 1998.
10. Mesaros M, Muntean A – Medicină Dentară Pediatrică, Ed. Medicală Universitară „Iuliu Hațieganu” Cluj Napoca, 2016.
11. Welbury R, Duggal MS, Hosey MT – Pediatric Dentistry, 4th Edition, Ed. Oxford University Press, 2012.

Wright GZ, Kupietzky A – Behavioral Management in Dentistry for Children – 2nd Edition, Ed. Wiley-Blackwell, 2014. |
| **8.2. Seminar / Laboratory** | **Teaching methods**  | **Comments** |
| Child briefing for the first visit at the dental office. Child's first visit at dental office (first appointment). | Power Point presentation, practical demonstrations | 1 hour |
| Methods of initiation and development of inter-human communication in the context of pedodontic triangle. Current behavioural shaping and desensitization procedures in paediatric dentistry. | Power Point presentation, practical demonstrations | 2 hours |
| The particularization of the methods for oral education in pediatric dentistry practice - accessibility, reliability, long term efficiency.  | Power Point presentation, practical demonstrations | 2 hours |
| Temporary teeth eruption – the evaluation of the normal and pathological variables. | Power Point presentation, practical demonstrations | 2 hours |
| Permanent teeth eruption – the evaluation of the normal and pathological variables. | Power Point presentation, practical demonstrations | 2 hours |
| Temporary teeth morphology – the identification of dental patterns | Power Point presentation, practical demonstrations | 4 hours |
| Dental age assessment – methods for dental age estimation. | Power Point presentation, practical demonstrations | 4 hours |
| Clinical observation chart in pediatric dentistry. | Power Point presentation, practical demonstrations | 4 hours |
| Rubber dam application – methods and techniques. | Power Point presentation, practical demonstrations | 4 hours |
| Methods and techniques for local analgesia in pediatric dentistry practice. | Power Point presentation, practical demonstrations | 2 hours |
| Clinical and para-clinical diagnosis of simple decay in temporary teeth.  | Power Point presentation, practical demonstrations | 2 hours |
| Clinical and para-clinical diagnosis of early childhood carie (ECC) and severe early childhood carie (SECC) in temporary dentition. | Power Point presentation, practical demonstrations | 1 hour |
| The particularization of the therapeutical procedures in temporary teeth simple decay. | Power Point presentation, practical demonstrations | 6 hours |
| Clinical and para-clinical diagnosis of simple decay in young permanent teeth. | Power Point presentation, practical demonstrations | 1 hour |
| The particularization of the therapeutical procedures in young permanent teeth simple decay. | Power Point presentation, practical demonstrations | 4 hours |
| Clinical and para-clinical diagnosis of complicated decay in temporary teeth.  | Power Point presentation, practical demonstations | 2 hours |
| Therapeutical procedures in temporary teeth complicated decay. | Power Point presentation, practical demonstations | 7 hours |
| Clinical and para-clinical diagnosis of complicated decay in young permanent teeth. | Power Point presentation, practical demonstations | 2 hours |
| The particularization of the therapeutical procedures in young permanent teeth complicated decay. | Power Point presentation, practical demonstrations | 5 hours |
| Dental extraction in paediatric dentistry – the particularization of the temporary teeth extraction techniques. | Power Point presentation, practical demonstrations | 1 hours |
| Diagnosis and preventive, interceptive and curative treatment of the consequences of temporary teeth premature loss.  | Power Point presentation, practical demonstrations | 2 hours |
| Clinical and therapeutical particularization of the first permanent molar pathology. | Power Point presentation, practical demonstrations | 1 hour |
| Behavioral management procedures used after the finishing of the pedodontic treatment | Power Point presentation, practical demonstrations | 1 hour |
| **Bibliography**1. Bălan A, Păsăreanu M - Elemente introductive în pedodonţie, Ed. Junimea, Iaşi, 2001.
2. Bratu E, Glăvan F - Practica pedodontică, Ediţia III, Ed. Orizonturi Universitare, Timişoara, 2005.
3. Casamassimo PS, Fields HW, McTigue DJ, Nowak A - Pediatric Dentistry: Infancy through Adolescence, 5th Edition, Ed. Elsevier Saunders 2013.
4. Dănilă I. - Dentistică preventivă, Ed. Didactică şi Pedagogică, Bucureşti, 2005, pag. 13-20, 20-28, 83-93, 226-302.
5. Dean JA, Avery DR, McDonald RE – McDonald and Avery’s Dentistry for the Child and Adolescent, 9th Edition, Ed. Mosby Elsevier, 2011.
6. Fucks AB, Peretz B – Pediatric Endodontics – Current Concepts in Pulp Therapy for Primary and Young Permanent Teeth, Ed. Springer, 2016.
7. Koch G, Poulsen S – Pediatric Dentistry – A Clinical Approach, 2nd Edition, Blackwell Publishing Ltd, 2009.
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10. Mesaros M, Muntean A – Medicină Dentară Pediatrică, Ed. Medicală Universitară „Iuliu Hațieganu” Cluj Napoca, 2016.
11. Muller Bolla M – Fiches pratique d’odontologie pediatrique, Ed. CdP, 2014.
12. Sema Aka P, Yagan M, Canturk N, Dagalp R – Primary Tooth Development in Infancy, CRC Press, 2016.
13. Welbury R, Duggal MS, Hosey MT – Pediatric Dentistry, 4th Edition, Ed. Oxford University Press, 2012.

Wright GZ, Kupietzky A – Behavioral Management in Dentistry for Children – 2nd Edition, Ed. Wiley-Blackwell, 2014. |

1. **Correlations between the contents of the discipline and the expectations of the epistemic community, of profesional associations and of employers in the field**

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| Knowledge and skills are set as teaching objectives and specified as such in analytical programs that are annually reviewed After analysis within the discipline, these are discussed and approved within the Curriculum Bureau, in the sense of harmonization with other disciplines. Throughout this process is systematically assessed, as far as possible, the correspondence between content and the expectations of the academic community, community representatives, professional associations and employers. As a primary goal, the discipline aims to provide students the optimal prerequisites for the next years of study within the License of Medicine program, in order to successfully accede, immediately after graduation, residency programs in Romania and other EU countries. |

1. **Evaluation**

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| **Type of activity**  | **10.1. Evaluation criteria:**  | **10.2. Methods of evaluation** | **10.3. Percentage of final grade** |
| **10.4. Lecture** | Grade for multiple choice test | standardized multiple choice test | 50% |
| **10.5. Seminar / Laboratory** | Average grade of ongoing examinations | ongoing evaluation | 10% |
| Grade for practical examination | practical exam | 40% |
| **Minimum standard of performance: at least grade 5 to pass the discipline** |

**Date:**

**12.10.2018 Signature of Didactic Co-ordinator**

**Conf. Univ. Dr. SAVIN CARMEN**

 **Signature of Department Director**

 **Prof. Univ. Dr. POPESCU EUGENIA**