DISCIPLINE FILE

1. Data about the programme

1.1.	**"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY**
1.2.	**FACULTY OF DENTISTRY**
1.3.	**DEPARTMENT: I**
1.4.	**DISCIPLINE: GERODONTOLOGY**
1.5.	**DOMAIN OF STUDY: HEALTH – Sectorally regulated within the European Union**
1.6.	**STUDY CYCLE: LICENCE**
1.7.	**STUDY PROGRAME: DENTAL MEDICINE (ENGLISH)**

2.2. Data about discipline

2.1.	**Name of the discipline in the educational plan: GERODONTOLOGY**				
2.2.	**Discipline code: MD04S10EN**				
2.3.	**Discipline type (FD/SD/CD): SD**				
2.4.	**Discipline regimen (MD/OPD/): MD**				
2.5.	**The holder of the course activities:** Lecturer dr. Mihaela Pantea, Lecturer dr. Tudor Claudiu Spinu, Associate Professor dr. Cristina Bodnar				
2.6.	**The holder of the seminar activities:** Lecturer dr. Mihaela Pantea, Associate Professor dr. Cristina Bodnar, Lecturer dr. Tudor Claudiu Spinu, Dr. Sergiu Alexandru Radulescu, Dr. Ioana Valsan				
2.7. Year of study	**IV**	**2.8. Semester**	**VIII**	**2.9. Type of evaluation (E/C)**	**E**

3. Total estimated time (hours/semester of didactic activity and self preparation/study

I. Academic training (teaching, practical application, assessment)						
3.1. Nr hours/week	**3**	**From which:**	**3.2. lecture**	**1**	**3.3. seminary/ laboratory**	**2**
3.4. Total hours of educational plan	**42**	**From which:**	**3.5. lecture**	**14**	**3.6. seminary/ laboratory**	**28**
Evaluation (nr. of hours) : 2						
II. Self-preparation /study						
Time allocation						**hours**
Study of course materials, textbooks, books, study of the recommended minimal bibliography						25
Additional research in the library, research through the internet						10
Performing specific activities for preparing projects, laboratories, elaborating reviews or other tasks						10
Specific preparation activities for projects, laboratory work, assignments, and reports						25
Tutoring						5
Other activities						3

3.7. Total individual study hours	78
3.8. Total hours per semester (3.4.+ 3.7.)	120
3.9. Number of credits	4

4. Preconditions (where applicable)

4.1. of curriculum	Knowledge of: - anatomy and physiology of the oral and maxillofacial structures - technology for the fabrication of fixed and removable prostheses - single-tooth fixed prosthodontics - some basic notions regarding edentulism
4.2. of competences	The students should know: - biomaterials used in dental prosthodontics - techniques for using prosthetic biomaterials - techniques of general and oral examination and diagnosis, in relation to the patient's clinical situation - techniques for tooth preparation for fixed prostheses, impression-taking, and recording of occlusal relationships

5. Conditions (where applicable)

5.1. to conduct the lecture	Lecture hall equipped with a computer and a video projector for PowerPoint presentations and multimedia applications.
5.2. to conduct the seminar / laboratory	Equipped with the necessary apparatus for conducting practical activities

6. Learning outcomes

Knowledge	Skills	Responsibility and autonomy
C1 To have basic knowledge of age-related general and local changes (dento-maxillary structures) in elderly patients.	A1 To show appropriate, ethical, and empathetic behavior towards elderly patients.	R1 The student analyzes and interprets all the knowledge, information, and skills acquired during lectures and practical work in the discipline of Gerodontology, in order to initiate the development of their abilities as a dentist in this field.
C2 To be able to establish, through extra- and intra-oral examination, an appropriate diagnosis for the geriatric patient according to the case (including specification of elements involved in defining the degree of difficulty and complexity).	A2 To have basic skills in identifying the chief complaint of the elderly patient, obtaining a general, medical, dental, and social history, performing extra- and intra-oral examinations, and communicating effectively with the patient, their family, or caregivers.	R2 Identification of roles and responsibilities within a multidisciplinary team, and application of techniques for effective interaction and teamwork (dentist, nurse, technician) as well as in relation to the patient, their family, or caregivers.

C3 To be able to indicate prosthetic treatment alternatives in relation to the complexity of the case (age, degree of difficulty, etc.).	A3 To have basic knowledge of various aspects frequently encountered in the dental treatment of geriatric patients (management of root and secondary caries, management of tooth wear, periodontal treatment, indications for extraction, endodontic therapy, fixed and removable prostheses, management of xerostomia).	R3 Identification of objectives to be achieved, available resources, conditions for completion, stages and timelines, deadlines, and associated risks.
C4 To have basic knowledge of the theories of aging, as well as the demographic and socio-economic aspects in the geriatric context. To have basic knowledge of oral health care in a multidisciplinary context. To have basic knowledge of the organization of a safe environment for dental treatment of elderly patients.	A4 To have basic knowledge of oral health education, oral hygiene instructions for elderly patients, as well as of providing guidance on the wearing and cleaning of complete, partially removable, and fixed prostheses, and on the prevention of accidents and complications.	R4 Efficient use of informational sources and of communication and professionally assisted training resources.

7. Course objectives (aligned with the learning outcomes)

7.1. General objective	The educational objective is to increase students' awareness of the complex geriatric patient context and of the barriers to oral healthcare, as well as to prepare them - through knowledge, attitudes, and ethical principles - to initiate the development of the skills necessary for providing oral healthcare to older adults.
7.2. Specific objectives	In defining the specific initial competencies in Gerodontology, the following aspects are of interest, based on the required levels of knowledge, attitudes, and skills: - **Be competent at**: the student should have a sound theoretical knowledge and understanding of the subject together with an adequate clinical experience to be able to resolve clinical problems encountered, independently, or without assistance. - **Have knowledge of**: students should have a sound theoretical knowledge of the subject, but need only to have limited clinical/ practical experience. - **Be familiar with:** students should have a basic understanding of the subject but need not have direct clinical experience or be expected to carry out procedures independently. **The student/graduate must be competent at:** 1. Displaying an appropriate and ethical caring behavior towards older patients. 2. Demonstration of basic skills in identifying the main problems and complaint for the geriatric patient's visit, as

	well as their needs and requirements. Demonstration of basic skills in obtaining a general, medical, dental, and social history of the geriatric patient, performing extra- and intra-oral examinations, and communicating effectively with the patient, their family, or caregivers. 3. Demonstration of basic skills in providing oral health education and oral hygiene instructions to elderly patients - particularly those with reduced manual dexterity - and to their caregivers. 4. Demonstration of basic knowledge of age-related general and local changes (dento-maxillary structures) in elderly patients, as well as of various aspects frequently encountered in the dental treatment of geriatric patients (management of root and secondary caries, management of tooth wear, periodontal treatment, indications for extraction, endodontic therapy, fixed and removable prostheses, management of xerostomia). **The student/graduate has knowledge of:** 1. Theories of ageing, demographic and socio-economic aspects in the geriatric context. 2. The basic provision of oral health care in a multidisciplinary context, the organization of a safe and welcoming dental treatment environment for older patients, and principles of preventive gerodontology. **Be familiar with:** 1. The organization of general and oral health care for the elderly in the community and in the hospitals, the organization of domiciliary care, as well as the assessment of oral health related quality of life in elderly patients.

8. Contents

8.1. Lecture	**Teaching methods**	**Observations**
1. Introduction to Gerodontology: terminology and definitions; theories of the ageing process; demographic and socio-economic aspects in the geriatric context	Lectures / Theoretical courses PowerPoint presentations Videos Interactive discussions	2 hours
2. General age-related changes of the human body in older adults		2 hours
3. Age-related changes in the dento-maxillary system in older adults		2 hours
4. Specific considerations regarding oral rehabilitation in gerodontology		2 hours

5. Interdisciplinary collaboration in gerodontology. Communication and ethical aspects in gerodontology		2 hours
6. Digital dentistry and artificial intelligence in gerodontology		2 hours
7. Quality of life and oral health in older people: preventive approaches and the concept of "healthy ageing" ("geriatric wellbeing")		2 hours

Recent bibliography:

- Anastassia Kossioni, Gerodontology Essentials for Health Care Professionals, Springer, 2020
- European College of Gerodontology – Undergraduate Curriculum Guidelines in Gerodontology; http://www.gerodontology.eu/guidelines.php, 2026
- Gerry McKenna, Nutrition and Oral Health, Springer 2021
- Ioan Romoșan, Luiza Spiru, Aeternus. Tratat de geriatrie și medicina longevității, Editura Academiei Romane, Bucuresti, 2020
- Scientific Literature / Journals / access from databases:
  - Gerodontology
  - Journal of Prosthetic Dentistry
  - British Dental Journal

8.2. Laboratory / Practical lessons	**Teaching methods**	**Observations**
1. Introduction to Gerodontology. First contact with the geriatric patient; Effective communication with the geriatric patient; Adaptation of the clinical environment and dental services to the needs of older adults	Specific practical activities and demonstrations PowerPoint presentations Videos Interactive exercises Role-play (simulation) Student-centered discussions Seminars	4 hours / Practical class The topics may be addressed in several practical sessions.
2. Examination of the geriatric patient in dentistry; Presentation of a clinical case with geriatric specificity		
3. Tooth preparation for single-tooth prosthetic restorations, with particularities specific to the geriatric patient		
4. Tooth preparation for multi-tooth prosthetic restorations, with		

particularities specific to the geriatric patient		
5. Oral health education and oral hygiene in older patients. Preventive Gerodontology		
6. Recovery sessions of practical classes / training.		
7. Practical examination.		

Recent bibliography:

- Anastassia Kossioni, Gerodontology Essentials for Health Care Professionals, Springer, 2020
- European College of Gerodontology – Undergraduate Curriculum Guidelines in Gerodontology; http://www.gerodontology.eu/guidelines.php, 2026
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9. Evaluation

Activity type	9.1. Evaluation criteria	9.2. Evaluation methods	9.3. Percentage in the final grade
9.4. Lecture	- Accuracy of knowledge - Ability to correlate and synthesize - Coherence of argumentation - Correct use of specialized terminology in gerodontology	**Written final theoretical exam** (with synthesis-type questions, essays, problems, or tests/multiple-choice tests (including single- and multiple-answer questions) (based on the chapters of the curriculum)	80%

9.5. Seminary / Practical activity	- During each practical training session: periodical evaluations, discussions in correlation with the lecture concepts and the practical training syllabus. - Compliance with working protocols, accuracy and precision in performing techniques, manual dexterity - Ability to apply theory in practice - Student's attitude during training (attendance, punctuality, professional appearance, theoretical preparation in accordance with requirements, attitude towards patients and auxiliary staff) - Ability to synthesize and integrate the knowledge acquired during practical training - Creativity, innovation, capacity for synthesis, presentation skills	**Periodical evaluations Seminars** **Mini-project:** Individual Mini-Project (on a topic of interest selected from the Gerodontology course and practical training curriculum) Assessment criteria: Relevance and timeliness of the selected topic. Scientific accuracy and correctness of the information presented. Ability to analyze and apply gerodontology concepts. Structure, clarity, and coherence of the presentation. Appropriate use of the scientific literature and compliance with citation standards. Originality and quality of the argumentation. Compliance with the formatting requirements and submission deadline.	10%
		Practical exam (Practical examination mark/grade)	10%
9.5.1. Individual project		**Individual project**	
9.6. Minimum performance standard			
Basic knowledge of the of age-related general and local changes (dento-maxillary structures) in elderly patients. Basic knowledge of the particularities of oral clinical examination in the geriatric context and of communication with the geriatric patient, as well as of various aspects frequently encountered in the dental treatment of geriatric patients.			

Date of completion: 20.07.2026 **Signature of the course holder** **Signature of the laboratory holder**

Date of approval by the Department Council:
09.11.2026

Signature of the Department Director
Professor Imre Marina, PhD