

FIȘA DISCIPLINEI

1. Date despre program

1.1 Instituția de învățământ superior	UNIVERSITATEA DE MEDICINA SI FARMACIE "VICTOR BABEȘ" TIMIȘOARA
1.2 Facultatea	FACULTATEA DE MEDICINĂ-FACULTATEA DE MEDICINĂ DENTARĂ FACULTATEA DE FARMACIE
1.3 Departamentul	I
1.4 Domeniul de studii de..... ¹⁾	Licență/Sănătate
1.5 Ciclul de studii ²⁾	Licență
1.6 Programul de studii/ Calificarea	MD

2. Date despre disciplină

2.1. Denumirea disciplinei	Dental Materials/Materiale Dentare- sectia engleza							
2.2 Titularul activităților de curs	1. Poz.30, S.L. Dr.Crăciunescu Emanuela Lidia							
2.3 Titularul activităților de laborator	1. Poz.30, S.L. Dr.Crăciunescu Emanuela Lidia, 2. Poz.32, Asist. Drd Hajaj Tareq							
2.4 Anul de studiu	III	2.5 Semestrul	V	2.6 Tipul de evaluare	examen	2.7 Regimul disciplinei	Conținut ³⁾	DS
							Obligativitate ³⁾	DI

3. Timpul total estimat (ore pe semestru al activităților didactice)

3.1 Număr de ore pe săptămână	5	3.2 din care: curs	2	3.3laborator	3
3.4 Total ore din planul de învățământ	70	3.5 din care: curs	28	3.6laborator	42
Distribuția fondului de timp					ore
Studiul după manual, suport de curs, bibliografie și notițe					30
Documentare suplimentară în bibliotecă, pe platformele electronice de specialitate și pe teren					11
Pregătire seminarii/ laboratoare/ proiecte, teme, referate, portofolii și eseuri					10
Tutoriat					0
Examinări					4
Alte activități					0
3.7 Total ore studiu individual	51				
3.8 Total ore pe semestru	125				
3.9 Numărul de credite⁵⁾	5				

4. Precondiții (acolo unde este cazul)

4.1 de curriculum	Functional Morphology of Stomatognathic System, Prostheses Technology
4.2 de competențe	Skills in modeling teeth morphology and dental prostheses

5. Condiții (acolo unde este cazul)

5.1 de desfășurare a cursului	<ul style="list-style-type: none"> • Telephone conversations are not tolerated during the course. Delay of students at the course will not be tolerated, as it proves to be disruptive to the educational process. • Mandatory attendance is required, a maximum of 30% absences being accepted in the course. • Final exam programing is made by the teacher in accordance with the students' needs. There won't be accepted any delay requests, excepting well motivated or special situations. The maximim number of abcenses is 30%.
5.2 de desfășurare a seminarului/ laboratorului/ proiectului	<ul style="list-style-type: none"> • Mandatory attendance is required, a maximum of 15% absences being accepted in the course. Redeeming of the absences can be made according to the schedule, in agreement with the group assistant and course teacher, after paying the appropriate fee. • The delay of students in the laboratory is not accepted as it may disturb the educational process. • Throughout the course of the practical work, mobile phones will be shut down during. Moreover, students leaving the work room for personal phone calls is not accepted. • Tests during the semester are announced in advance according to the program and the corresponding bibliography. • In the activities of the practical work, it is necessary to perform the necessary requirements and the marking of each stage done. • The practical exam will be from the bibliography, in the last week of the semester.

6. Competențe specifice acumulate

Competențe Profesionale	1. Identification, description and indications of dental materials 2. Physical and chemical properties of dental materials 3. Explication and interpretation of use for different clinical cases 4. Knowing the working steps for each class or type of dental material along with auxiliary instruments.
Competențe transversale	1. Identification of the objectives to be achieved, the available resources, the conditions for their completion, the stages of work, the working times, the related implementation deadlines and the related risks. 2. Identify roles and responsibilities in a multidisciplinary team and apply effective relationship and work techniques within the team and in relation to the patient. 3. Effective use of information resources, communication resources and assisted training (Internet websites, specialized software applications, databases, on-line courses, etc.) both in Romanian and in an international language.

7. Obiectivele disciplinei (reieșind din competențele specifice acumulate)

7.1 Obiectivul general al disciplinei	1. Classification of dental materials after use and class 2. Physical, chemical and biological properties of dental materials 3. Specific terms for dental materials 4. Identification of the dental material for a specific clinical case 5. Materials and methods for disinfection
7.2 Obiectivele specifice	1. Manipulation of dental materials 2. Knowing the steps for manipulation and working technique with dental materials

8. Conținuturi

8.1 Curs	Metode de predare	Număr de ore	Observații
1. Introduction in the study of dental materials. The properties of dental materials	<ul style="list-style-type: none"> Interactive oral lecture with Powerpoint presentation structured in accordance with the topic displayed, with clear and suggestive images. In Powerpoint presentations, specific images, schedules and classifications of the lectures topic During the lecture, students will be asked questions about the course material. During the course, case presentations will be introduced for the most effective presentation of the theoretical notions into practice At the beginning of each course the educational objectives of the course will be presented, and in conclusion the presentation summary will be presented in order to better define the notions presented 	2	The bibliography is available at the Discipline of Dental Technology and Dental Materials also the ebooks and other internet sources.
2. Materials used in preventive dentistry.		2	
3. Dental cements with liquid component based on orthophosphoric acid. Organo-metallic cements.		2	
4. Polyelectrolytic cements: Zinc polycarboxylate cements, glass ionomer cements, resin modified ionomer cements		2	
5. Varnishes, liners, base cements		2	
6. Polymeric restorative materials: Selfand lightcuring diacrylic composite resin.		2	
7. Polymeric restorative materials: ceromers, polyglass ormocers, compomers and silorans		2	
8. Lightcuring lamps light-curing methods and auxiliary materials		2	

for light-curing			
9.The adhesion to enamel and dentin. Adhesives: generations and action mechanism		2	
10.Metallic materials for direct crown restoration		2	
11.Impression materials: general aspects classification. Rigid impression materials. Elastic impression materials..		2	
12.Materials used in endodontics and periodontics. Auxiliary materials used in the dental office: hand piece, rotary instruments, intradental posts and fabricated endodontic posts, impression trays.		2	
13.Materials used for bleaching. Materials used for cast and pattern fabrication. Materials used for manufacturing long term prostheses: metals and alloys.		2	
14.Materials used for manufacturing long term prostheses: polymers and dental ceramics. Materials used for provisional restorations.		2	
Bibliografie obligatorie: 1. William J. O'Brian Dental Materials and Their Selection-Fourth Edition 2. Craig R., Craig's Restorative Dental Materials 3. Prezentari Power Point- cursuri Bibliografie facultativă: 1. J Manappallil John, Dental Materials, ISBN 978-3-540-77782-3 2. Schmalz, Gottfried, Arenholt Bindslev, Dorte, Biocompatibility of Dental Materials, 2009			
8.2 Seminar/ Laborator/stagiu/ proiect	Metode de predare-învățare	Număr de ore	Observații
1.Administrative aspects. Introductory notions. The physico-chemical bases of dental materials. Societies and associations in the field. The prospect of a dental material	Each laboratory starts with a sustained oral lecture with Powerpoint presentations in accordance with the topics displayed. • A practical demonstration, conducted by the instructors for each laboratory stage, is carried out in each training session, according to the displayed schedule. • Presentation and realization of the methods dedicated to perform the morphology • Presentation of various clinical cases related to dental morphology.	3	
2.Materials used in preventive		3	

dentistry. Pit and fissure sealing.			
3.Dental cements with liquid component based on orthophosphoric acid. Organo-metallic cements. Preparation, handling and storage of zinc oxyphosphate cements, preparation of the cement, storage of FOZ, silicate and ZOE cements		3	
4.Polyelectrolyte cements: preparation, handling and storage of zinc carboxylate ionomer and resin modified ionomer cements.		3	
5.Varnishes, liners, base cements: Preparation, handling and storage		3	
6.Polymeric restorative materials: Self- and lightcuring diacrylic composite resins. Presentation form, preparation, handling and storage. Preparation and filling with self curing composite resins. Presentation of the universal testing device Mecmesin 5I and of the metallographic microscope for interface and surface examination.		3	
7.Polymeric restorative materials:ceromers, polyglass,ormocer, compomers, siloranes. Presentation form, preparation, handling and storage.Preparation and filling with light curing composite resins.		3	

8.Light curing and the parameters of light curing. Presentation of different light curing lamps		3	
9.Adhesion to enamel and dentin. Adhesives: generations, action mechanism. Presentation and uses. Resin cements and compomer cements for adhesive fixations.		3	
10.Metallic direct crown restorative materials. Silver amalgams:preparation, handling and storage. Silver filling with amalgam. Rules of mercury handling and storage.		3	
11.Metallic direct crown restorative materials. Silver amalgams:preparation, handling and storage. Silver filling with amalgam. Rules of mercury handling and storage.		3	
12.Impression materials: general aspects, classification. Rigid impression materials. Uses and presentation forms. Elastic impression materials: classification. Preparation of alginate impression materials and of elastomeric impression materials.		3	
13.Materials used in endodontics and periodontics. Cemets and other materials used for root canal sealing. Surgical cements: materials used for root sealing, surgical cements: preparation, handling and		3	

storage. Auxiliary materials used in the dental office: hand pieces, rotary instruments, intra-dental posts and prefabricated endodontic posts, impression trays. Materials used for practice disinfection instruments and the protection of the medical personnel			
14. Materials for cast and pattern fabrication (preparing of hard plaster) wax bite registration, manufacturing patterns with light cured materials. Materials used for manufacturing long term prostheses: metals and alloys. Materials used for manufacturing long term prostheses: polymers and dental ceramics. Materials used for manufacturing provisional restoration. Devices used in the dental office..		3	
Bibliografie obligatorie: 1. William J. O'Brien Dental Materials and Their Selection-Fourth Edition 2. Craig R., Craig's Restorative Dental Materials 3. Power Point Presentation- for lecture and lab Bibliografie facultativă: 1. J Manappallil John, Dental Materials, ISBN 978-3-540-77782-3 2. Schmalz, Gottfried, Arenholt Bindslev, Dorthe, Biocompatibility of Dental Materials, 2009			

9. Coroborarea conținuturilor disciplinei cu așteptările reprezentanților comunităților epistemice, asociațiilor profesionale și angajatori reprezentativi din domeniul aferent programului

The student is familiar with the current specialty terminology, diagnosis and orientation towards a treatment plan based on patient expectations. Taking into account the fact that in future practice he will encounter various clinical cases the student needs to know the dental morphology, physiological development and function of dental maxillary system. Thus the student acquires complex information, skills and knowledge, which will allow him to meet the current requirements in accordance with the European educational and professional standards. In order to update the content of the subject, as well as the teaching / learning methods, the teachers participate in national and international specialty congresses. For a better professional development in the case of students interested in the research activity, they have the opportunity to be co-opted in the Students' Scientific Circle having the opportunity to work under the direct guidance of the teaching staff of the discipline of Prosthodontics and Dental Materials, and then the results obtained can be disseminated through active participation in the national student scientific sessions.

10. Evaluare

Tip activitate	10.1 Criterii de evaluare	10.2 Metode de evaluare	10.3 Pondere din nota finală
10.4 Curs	<p><i>Minumim knowledge for achieving the passing grade 5:</i>Identification of the calss to wich a dental material is belonging and the indications.</p> <p><i>Maximum knowledge for achieving the grade 10:</i>Phisical, chemical, bilogical, composition, indications and contraindications of dental materials.</p>	The condition for passing the exam is represented by minum 50% of the total and maximum considered score of the multiple choice test.	The grade from the theoretical exam represents 60% of the final grade. The presence and activity during the lecture represents 10% of the final grade.
10.5 Laborator/Stagiu	<p><i>Minumim knowledge for achieving the passing grade 5.</i> Identification of the dental material and working technique.</p> <p><i>Maximum knowledge for achieving the grade 10:</i> Phisical, chemical, bilogical, composition, indications and contraindications of dental materials, setting time.</p>	The presentation for the practical exam is conditioned by the participation to mimum 85% of the laboratories and the accomplish of all practical activities during the semester.	Practical activity during the semester and practical exam represents 30% of the final grade.
10.6 Standard minim de performanță			
Practical manipulation of dental materilas and identification of dental materials for a specific clinical case according to fizical chemical and biological properties..			

Data completării 23.10.2018	Semnătura titularului de curs S.L. Dr. Crăciunescu Emanuela Lidia	Semnătura titularului de laborator/stagiu 1 S.L. Crăciunescu Emanuela Lidia..... 2 Asist. Drd. Hajaj Tareq.....
Semnătura șefului de disciplină Prof. Univ. Dr. Romînu Mihai		
Data avizării în departament	Semnătura directorului de departament Prof. Univ.Dr. Angela Codruța Podariu.....	