

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 DENTARĂ
1.3 Departamentul	II MD
1.4 Domeniul de studii de ¹⁾	Licență
1.5 Ciclu de studii ²⁾	Licență
1.6 Programul de studii/ Calificarea	MD English Section

2. Date despre disciplină

2.1. Denumirea disciplinei	DENTOFACIAL AESTHETICS							
2.2 Titularul activităților de curs	Conf. Univ. Dr. Vâlceanu Anca Silvia							
2.3 Titularul activităților de laborator	Asist. Univ. Dr. Bolos Otilia Cornelia Asist. Univ. Dr. Buzatu Roxana							
2.4 Anul de studiu	IV	2.5 Semestrul	II	2.6 Tipul de evaluare	E	2.7 Regimul disciplinei	Conținut ³⁾ Obligativitate ³⁾	DS 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	3.3 laborator	3
3.4 Total ore din planul de învățământ	70	3.5 din care: curs	28	3.6 laborator	42
Distribuția fondului de timp					ore
Studiul după manual, suport de curs, bibliografie și notițe					28
Documentare suplimentară în bibliotecă, pe platformele electronice de specialitate și pe teren					28
Pregătire seminarii/ laboratoare/ proiecte, teme, referate, portofolii și eseuri					10
Tutoriat					2
Examinări					2
Alte activități					-
3.7 Total ore studiu individual	70				
3.8 Total ore pe semestru	140				
3.9 Numărul de credite⁵⁾	5				

4. Precondiții (acolo unde este cazul)

4.1 de curriculum	Dental Materials Conservative and Restorative Odontotherapy Fixed Prosthodontics
4.2 de competențe	- knowledge of dental materials (composite resins, adhesives) as well as the stages of adhesion (skills acquired at the Discipline of Dental Materials) - knowledge of indication and stages of realization of direct dental restorations; knowledge of the principles of preparation of adhesive cavities; knowing of isolation protocol with dental dam; knowing the steps of achieving the adhesive substrate (skills acquired at the Discipline of Conservative and Restorative Odontotherapy); - knowledge of indication and stages of realization of indirect dental restorations; knowledge of tooth preparation rules for their restoration

	by inlay-onlay, veneers, crowns; knowing the steps to fix the indirect dental restoration in the oral cavity (skills acquired at the Discipline of Fixed Prosthodontics).
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5. Condiții (acolo unde este cazul)

5.1 de desfășurare a cursului	- videoprojector, blinds, air conditioning in the classroom Rules: punctuality, ensuring peace and active participation of students during the course
5.2 de desfășurare a seminarului/ laboratorului/ proiectului	Rules: punctuality and active participation of students Required equipment and materials: - digital camera for photographic documentation in dentofacial aesthetics - the aesthetic checklist (3 copies for each student) - upper central incisor (Frasaco, Spofa or natural tooth), composite resin (2 opacities), silicone material for making the silicone index, lightcuring lamp - instruments LM Arte kit (LM Instruments), diamond burs, finishing and polishing discs, rubbers for polishing.

6. Competențe specifice acumulate

Competențe Profesionale	<ol style="list-style-type: none"> 1. Developing of aesthetic sense 2. Recognition of dental-facial disharmonies 3. Making accurate photographic documentation of the patients 4. The correct indication and application of the bleaching technique in case of discoloration of different etiologies 5. Knowing how to get a mock-up and wax-up diagnostic model 6. Correct indication and knowledge of the layering techniques of composite materials in different clinical cases 7. Knowing the leading techniques and technologies in the field of dental aesthetics 8. Understanding the ways of influencing aesthetic perception, so that the restoration that the student accomplish will harmoniously integrate into the dento-facial composition and imitate the natural as best as possible.
Competențe transversale	<ol style="list-style-type: none"> 1. Developing interdisciplinary collaboration skills 2. Efficient use of information sources and assisted training resources (Internet portals, specialized software applications, databases, online courses, etc).

7. Obiectivele disciplinei (reieșind din competențele specifice acumulate)

7.1 Obiectivul general al disciplinei	Developing the skills and abilities necessary to the dentist specialized in dental aesthetics for the correct diagnosis and appropriate treatment of the dental disharmony.
7.2 Obiectivele specifice	<ul style="list-style-type: none"> - to know the principles and objective criteria for appreciation of beauty in dental medicine; - to recognize the dentofacial disharmonies - to correctly use the dental aesthetics complementary examination to diagnose the disharmonies - to learn the practical ways of remedying dentofacial disharmonies through minimally invasive (direct and indirect) therapeutic techniques and cutting-edge technologies.

8. Conținuturi

8.1 Curs	Metode de predare	Număr de ore	Observații
<p>1.Introduction in the science of dental-facial aesthetics</p> <p>Specific terminology of dental-facial aesthetics</p> <p>Place and purpose of aesthetics in dental medicine-past and present;</p> <p>Psychological aspects of aesthetic dentistry</p> <p>Social and sociologic aspects in aesthetic dentistry</p> <p>Doctor-patient relationship</p>	Lecture Conversation Exemplifying	2	The PowerPoint presentation will include images and suggestive sketches, as well as the presentation of clinical cases that are relevant for the course theme.
<p>2.Bases of aesthetics in dental medicine</p> <p>Common characteristics of aesthetic compositions (unity,variation, symmetry, balance, dominance, proportion,material) and their application in aesthetic dentistry</p> <p>Visual perception and aesthetic perception; influence factors</p> <p>Handling techniques of aesthetic perception principles in favor of influencing and modifying it for aesthetic rehabilitation treatments</p>		2	The lecture will be interactive throughout the course, students being encouraged to actively participate in the course through a free exchange of ideas on the topics presented.
<p>3.Objective aesthetic landmarks of compositions involved in dental-facial aesthetics</p> <p>Aesthetic landmarks of facial composition</p> <p>Aesthetic landmarks of dental-labial composition</p> <p>Aesthetic landmarks of dental-gingival composition</p> <p>Aesthetic landmarks of dental composition</p>		2	At each course, the most important lessons taught in the previous course will be reviewed, and the Lecturer will discuss with the students their practical significance.
<p>4.Photographic documentation in dental-facial aesthetics</p> <p>Digital cameras utilized in photographic documentation-description,properties</p> <p>Common characteristics of all photography used in aesthetic rehabilitation for case documentation</p> <p>Types of photography and their features: incidence, framing , focus , scale, angulation</p>		2	
<p>5.Diagnostic model in dental-facial aesthetics</p> <p>Primary diagnostic model</p> <p>Temporary diagnostic model</p> <p>Intermediary diagnostic model</p> <p>Final diagnostic model</p> <p>Ways and techniques of creating and transposing of aesthetic corrections from</p>		2	

one step to the other			
6. Physics of color Light dynamics Chromatic perception Characteristics of chromatic perception and influence factors Color ordinance systems : Munsell System Color classes and interaction mechanisms of colors Form-color interaction Ways of reproducing a color Measurement instruments of primary color		2	
7. Physiology of dental chromatics Optical behavior of hard dental structures Optical characteristics of hard dental structures Chromatic characteristics of human teeth Influence factors for perception of dental chromatic Methods for determination and analysis of tooth color: color keys, chromatic maps and digital tooth color determination devices		2	
8. Dental discoloration Etiology of dental dyschromia Clinical characteristics of dental dyschromia Treatment of dental dyschromia through abrasive techniques Treatment of dental dyschromia through bleaching techniques: Materials and bleaching techniques of vital teeth Materials and bleaching techniques of non-vital teeth Technologies involved in bleaching treatments Indications and counter-indications of bleaching treatments Influence factors in bleaching techniques Accidents and risks involving bleaching techniques		2	
9. Adhesion to hard dental tissues Enamel adhesion mechanism Dentin adhesion mechanism Classification and clinical applications of enamel-dentin adhesion systems Classification and clinical applications of		2	

<p>composite resins</p> <p>Resin-modified glass ionomer cements: clinical applications</p> <p>Polyglass: composition and clinical applications</p>			
<p>10.Ceramics in dental-facial aesthetics</p> <p>Classification of dental ceramic materials according to composition and presence / absence of metal substrate</p> <p>Domains and indications in using of ceramic materials</p> <p>Chromatic individualization methods of ceramic mass restorations</p> <p>Clinical characteristics of ceramic masses for all ceramic techniques</p> <p>High-end technologies in all ceramic systems</p>		2	
<p>11.Direct aesthetic rehabilitation techniques of frontal teeth</p> <p>Clinical steps for restoration of coronal lesions in frontal teeth</p> <p>Morphological and chromatic individualization through composite resin stratification technique</p> <p>Direct restoration techniques of coronal fractures on frontal teeth:</p> <p>Adhesive reattachment technique of fractured dental fragment</p> <p>Silicone key technique</p> <p>Restoration technique with strips and conformation guides</p> <p>Freestyle restorative technique</p> <p>Direct aesthetic restoration of non-vital teeth</p> <p>Tooth preparation technique and layering of composite resin in direct veneering</p> <p>Materials and polishing steps for composite resin restorations</p>		2	
<p>12.Direct and semi-direct aesthetic rehabilitation techniques in lateral teeth</p> <p>Minimally invasive preparation techniques of carious lesions on lateral teeth</p> <p>Stratification techniques of composite resins in class I and II cavities</p> <p>Etiology and aesthetic treatment of dental wear lesions</p> <p>Morphologic and chromatic individualization of composite resins on lateral teeth. Materials and methods</p> <p>Clinical steps of restoring coronal lesions with help of ceramic inserts</p> <p>Steps for preparation and</p>		2	

achievement of composite inlays through semidirect technique Adhesive bonding of composite resin inlays The advantages and limits of composite resin restorations			
13. Indirect aesthetic rehabilitation techniques Teeth preparation techniques for ceramic veneers Teeth preparation techniques for metal-ceramic crowns and full ceramic crowns Materials and impression techniques for indirect restorations Steps and features of bonding different ceramic restorations Advantages and disadvantages of metal-ceramic and all ceramic systems Indications and contraindications of all ceramic restorations		2	
14. Aesthetics in periodontology Topographical classification of the gingiva and gingival biotypes Clinical features of periodontal healthy tissues Clinical and treatment of gingival overcontouring Classification and treatment of gingival recessions Clinical aspect and treatment of edentulous crest defects Classification and therapeutic alternatives in interdental papilla defects Treatment of visible frenulum during smile Interdisciplinary management in dento-facial aesthetics		2	
Bibliografie obligatorie: <ol style="list-style-type: none"> 1. Anca Vâlceanu – <i>Estetica în Medicina Dentară</i> - Ed Brumar, Timisoara, 2004 2. Anca Vâlceanu, Constantin Vârlan, Eleonora Schiller. – <i>Fiziologia și Patologia Cromaticii Dentare</i> – Ed. Orizonturi Universitare Timisoara, 2006 3. Cursul în format electronic PDF Bibliografie facultativă: <ol style="list-style-type: none"> 1. Diana Dudea – <i>Noțiuni de examinare în estetica dento-facială</i>, Ed grinta, Cluj-Napoca 2010 2. Douglas A. Terry – <i>Aesthetic & Restorative Dentistry; Material Selection & Technique</i>, Everest Publ. Media, 2009 3. Mauro Fradeani – <i>Esthetic Rehabilitation in Fixed Prosthodontics: Esthetic Analysis - a sistematic approach to prosthetic treatment</i>, Vol.1, Quintessence Publ. Co, Inc, 2004 4. Mauro Fradeani, Giancarlo Barducci – <i>Esthetic Rehabilitation in Fixed Prosthodontics: Prosthetic Treatment - a sistematic approach to esthetic, biologic and functional integration</i>, Vol.2, Ed. Quintessence Publ.Co, Inc, 2004 5. Pascal Magne, Urs Belser – <i>Bonded Porcelain Restorations in the Anterior Dentition, A Biomimetic Approach</i>, Quintessence Publ. Co, Inc 2002, 2003 			

6. Linda Greenwall– <i>Bleaching techniques in restorative dentistry, An Illustrated Guide</i> , Martin Dunitz Ltd, 2001			
7. Michael Cohen – <i>Interdisciplinary Treatment Planing, Principles, Design, Implementation</i> , Quintessence Publ. Co, Inc, 2008			
8.2 Seminar/ Laborator /stagiul/ proiect	Metode de predare-învățare	Număr de ore	Observații
1.Presentation of the aesthetic analysis chart and its particular features regarding the disharmony diagnosis in dental medicine	Lecture Conversation Debate Exemplifying Demonstration Practical application	3	Every student will bring his own patient for making the photographic documentation.
2. Pacient examination and photographic documentation – facial composition (face, profile),dento-labial composition (smile frontal, semiprofile)		3	
3. Pacient examination and photographic documentation – dento-gingival composition (face, semiprofile, occlusal), superior frontal teeth (face, semiprofile)		3	
4. Tooth color determination with the help of different shade guides and digital devices; drawing of tooth chromatic map		3	The students will use the shade guides and the Vita EasyShade spectrophotometer from the material base of the discipline.
5.Filling out of the first aesthetic analysis chart with the establishment of disharmony diagnosis and indication of therapeutic options		3	
6.Examination,photographic documentation and tooth color determination for the second patient		3	
7. Completion of the second aesthetic analisys chart with the establishment of disharmonies and therapeutic indications		3	
8. Examination, photographic documentation and tooth color determination of the third patient		3	
9.Completion of the third aesthetic analisys chart with the establishment of the disharmony diagnosis and therapeutic indications		3	
10.Preparation and		3	

restoration of a minimally invasive class I adhesive cavity, on a side tooth (Frasaco, Spofa)			
11.Preparation and restoration of a minimally invasive class II adhesive cavity, on a side tooth (Frasaco, Spofa)		3	Each student will have a side tooth and appropriate instrumentation.
12.Achievement of mock-up (temporary diagnostic model) in case of coronal fracture on a frontal tooth, for the predictability of the future restoration		3	Each student will have an upper central incisor and silicone material (for making of silicone index), composite resin (2 opacities) and appropriate instruments: burs, discs and rubbers for finishing and polishing
13.Achievement of the silicone key after the mock-up diagnostic model Preparation of different types of bevels, according to the fracture line		3	
14.Aesthetic and functional restoration of a coronal fracture of an upper central incisor (Frasaco/Spofa), using the silicone key technique and style italiano layering of the composite resin Finishing and polishing of the restoration		3	

Bibliografie obligatorii:

1. Anca Vâlceanu – *Estetica în Medicina Dentară* - Ed Brumar, Timisoara, 2004
2. Anca Vâlceanu, Constantin Vârlan, Eleonora Schiller. – *Fiziologia și Patologia Cromaticii Dentare* – Ed. Orizonturi Universitare Timisoara, 2006

Bibliografie facultativă:

1. Diana Duda – *Noțiuni de examinare în estetica dento-facială*, Ed grinta, Cluj-Napoca 2010
2. Douglas A. Terry – *Aesthetic & Restorative Dentistry; Material Selection & Technique*, Everest Publ. Media, 2009
3. Mauro Fradeani – *Esthetic Rehabilitation in Fixed Prosthodontics: Esthetic Analysis - a systematic approach to prosthetic treatment*, Vol.1, Quintessence Publ. Co, Inc, 2004
4. Mauro Fradeani, Giancarlo Barducci – *Esthetic Rehabilitation in Fixed Prosthodontics: Prosthetic Treatment - a systematic approach to esthetic, biologic and functional integration*, Vol.2, Ed. Quintessence Publ.Co, Inc, 2004
5. Pascal Magne, Urs Belser – *Bonded Porcelain Restorations in the Anterior Dentition, A Biomimetic Approach*, Quintessence Publ. Co, Inc 2002, 2003
6. Linda Greenwall– *Bleaching techniques in restorative dentistry, An Illustrated Guide*, Martin Dunitz Ltd, 2001
7. Michael Cohen – *Interdisciplinary Treatment Planing, Principles, Design, Implementation*, Quintessence Publ. Co, Inc, 2008

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



Modern society offers the patients multiple facial and dental beauty models. Depending on the

biological background of each patient, these are easier or harder to reach. Dentofacial and dental aesthetics are nowadays an essential criteria for assessing the outcome of the dentist work. Dental restorations are refused by the patients if they do not meet the aesthetic requirements. Last but not least, the contemporary evolution of the photographic process revolutionizes the way clinicians establish diagnosis, treat and communicate with both the patients and the colleagues. So, every graduate of the Faculty of Dentistry needs to know the objective marks for appreciation of beauty in dental medicine and also to master the leading techniques and technologies in the field.

10. Evaluaare

Tip activitate	10.1 Criterii de evaluaare	10.2 Metode de evaluaare	10.3 Pondere din nota finală
10.4 Curs	<p><i>Knowledge for 5:</i> the student must correctly fill in half from the number of questions from the exam paper.</p> <p><i>Knowledge for 10:</i> the paper exam is 100% correctly filled in.</p>	Summative evaluation Written exam, grid type, in accordance with the standing orders of the University	60%
10.5 Laborator/Stagiu	<p>There will be evaluated:</p> <ul style="list-style-type: none"> - the quality of photographic documentation made by the student for 3 different patients; - the correctness of data completed by the student in the three aesthetic checklists; - the correctness of disharmony establishing and therapeutic indication for each examined patient. <p><i>Knowledge for 5:</i> Achieveing the minimum mandatory scale at 50% of the standards</p> <p><i>Knowledge for 10:</i> Full and accurate photographic documentation for 3 patients, 3 aesthetic checklists filled in correctly (with aesthetic diagnostic and therapeutic indication accurate and complete).</p>	Formative evaluation	10%
Examen practic	<p>There will be evaluated the technique and the aesthetic quality of the composite restorations realized on the working models.</p>	Sumative, oral and practical examination	30%

10.6 Standard minim de performanță
Attendance at the written exam is conditional upon grade 5 at the practical exam and by the appropriate frequency of the student at course and laboratory (according to the standing orders of the University).
Promoting the exam is conditional on getting the grade 5 on the exam paper.
The examination grade is calculated according to the formula: $0.1 \times X(\text{grade for the activity during the semester}) + 0.3 \times X(\text{grade at the practical examination}) + 0.6 \times X(\text{grade at the theoretical exam})$.

Data completării 01.11.2019	Semnătura titularului de curs 	Semnătura titularului de laborator/stagiu 1 2
Semnătura șefului de disciplină 		
Data avizării în departament	Semnătura directorului de departament Prof. Dr. Todea Carmen	

Notă:

- 1) Domeniul de studii - *se alege una din variantele:* Licență/ Masterat/ Doctorat (**se completează conform cu Nomenclatorul domeniilor și al specializărilor/ programelor de studii universitare în vigoare**) ;
- 2) Ciclul de studii - *se alege una din variantele:* Licență/ Master/ Doctorat;
- 3) Regimul disciplinei (conținut) - *se alege una din variantele:* **DF** (disciplină fundamentală)/ **DD** (disciplină din domeniu)/ **DS** (disciplină de specialitate)/ **DC** (disciplină complementară) - *pentru nivelul de licență;* **DAP** (disciplină de aprofundare)/ **DSI** (disciplină de sinteză)/ **DCA** (disciplină de cunoaștere avansată) - *pentru nivelul de masterat;*
- 4) Regimul disciplinei (obligativitate) - *se alege una din variantele:* **DI** (disciplină obligatorie)/ **DO** (disciplină opțională)/ **DFac** (disciplină facultativă);
- 5) Un credit este echivalent cu 25 – 30 de ore de studiu (activități didactice și studiu individual).
- 6) Pentru specializările și/sau disciplinele a căror tematică se regăsește în bibliografia de rezidențiat, aceasta devine obligatorie.