COURSE DESCRIPTION FORM						
Course Code and Name	DHF 2260 Materials Science					
Course Semester	3-4					
Catalogue Data of the Course (Course Content)	Learning the types, structures, properties and application principles of materials and instruments used in dentistry.					
Course Textbooks	<ol> <li>Sakaguchi RL, Powers JM. Craig's restorative dental materials.13th ed., Elsevier,2012.</li> <li>O'Brien WJ. Dental materials and their selection.4th ed., QuintessencePub. Co. Inc. 2008.</li> <li>John Mc Cabe, AngudWG wALLS. Applied Dental Materials.9th Edition, Wiley Blackwell,2008.</li> </ol>					
Supplementary Textbooks	Can G., Ersoy E., Aksu L.Diş Hekimliğinde Maddeler Bilgisi. Yurtmim yayıncılık, 2014.					
Credit (ECTS)	2					
Prerequisites for the Course (Attendance Requirements)	<ol> <li>It is obligatory to attend 70% theoretical course.</li> <li>It is obligatory to successfully pass the DHF100-Dental Anatomy and Physiology, HST 100- Histology I, BYF 100- Biophysics courses.</li> </ol>					
Course Type	Compulsory Course					
Language of Instruction	Turkish					
Course Objectives	Teach comprehensive information about the types, contents, properties and usage techniques of materials and instruments used in dentistry.					
Course Learning Outcomes	<ol> <li>Knows the classification, properties, disinfection and retraction materials of impression materials.</li> <li>Knows convertible and non-transformable hydrocolloid and elastomeric impression materials.</li> <li>Knows protection, disinfection and sterilization in dentistry.</li> <li>Knows dentin binders, cements, acrylic and porcelain teeth.</li> <li>Knows composite resins, implant materials and alloys used in dentistry.</li> <li>Knows dental porcelain, metal-supported porcelain, full ceramic systems, tissue modifiers, soft lining materials.</li> <li>Knows the tools and machines used in dentistry.</li> </ol>					
Instruction Method	The we the tools and intermites used in definitely.					
(Face-to-face, Distance education etc.)	Face to face					
Weekly Schedule of the Course	Week 1: Classification of impression materials, their properties, measuring spoons Week 2: Retraction agents Week 3: Convertible and non-transformable hydrocolloids Week 4: Protection, sterilization, disinfection agents in dentistry Week 5: Disinfection of impression materials Week 6: Dentin bonds Week 7: Cavity insulation Week 8: Cements (I) Week 9: Cements (II) Week 10: Cements (III) Week 11: Seminar Week 12: Acrylic and porcelain teeth Week 13: Elastomeric impression materials (I) Week 14: Elastomeric impression materials (II) Week 15: Composite resins Week 16: Implant materials Week 17: Alloys used in dentistry Week 18: Corrosion and staining Week 19: Thermoplastic impression materials, zoe-based impression materials					

Teaching Activities (The time spent for the activities listed here will determine the amount of credit required)	Week 21: Me Week 22: All Week 23: Var Week 24: Ser Week 25: Ter Week 26: Sof Week 27: Too Week 28: Bio Weekly theor Weekly pract Reading activ Internet searc Designing and Making a rep Preparing and Midterm and	etal supported proceramic systemish, cavity cominar acture modifiers and machinological compartical course horizines hand library with and library with and library with a making preservision for making preservision for making preservision for making systemics.	porcelains ms paters  s ls les in dentist tibility in de ours 28 wo urs  5 we vork 5 v g materials  intations idterm 22		)						
Assessment Criteria		Number(s			Weight (%)						
	Midterm exa	am	2			42					
	Assignment		1			9					
	Application										
	Project										
	Practice		1				`				
	Quiz Final exam		1			9 40					
	Total			100							
	Activity			Number of Weeks	(V	ratio Veekl Iour)	ly	End of Semester Total Workload			
	Weekly theoretical course hours			28		1 28					
	Weekly practical course hours										
	Reading activities			5		2 10					
	Internet search and library work			5		2 1			10		
Workload of the Course	Designing and implementing materials										
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	Preparing and making presentations										
	Midterm and revision for midterm			2	1			2			
	Final exam and revision for final exam			1	1			1			
	Total workload							51			
	Total workload/ 25								2,04		
	Course Credit (ECTS)							2			
	No		Program Ou	tcomes		1	2	3	4	5	
Contribution Level between Course Outcomes and Program Outcomes	Knows the normal struction the human body and specific structures and teeth in the basis of cells, tissues, organd their interactions with			re and functions of fically the mouth area on the ans and systems,			x	•			
	Defines the causes and formation mechanisms of oral, dental and jaw dis the findings they cause, structure and function disorders and how they affect organism.			al and jaw diseas tructure and				X			

	3	Knows, comprehends, relates and evaluates the symptoms and findings, diseases and conditions and professional practices in the national core education program of dentistry and Gazi University Faculty of Dentistry Extended Education Program at a determined level.	X		
	4	Knows how to reach the best current scientific evidence, evaluate its reliability and validity in line with personal learning needs.	x		
	5	Knows the legislation on professional legal responsibilities, deontology and ethical principles.	x		
	6	Knows and makes professional practices in the national core education program of dentistry and Gazi University Faculty of Dentistry Extended Education Program at the specified level.	X		
	7	It carries out diagnosis, treatment and follow- up processes by prioritizing evidence-based practice, critical thinking and ethical principles.	X		
	8			X	
	9	She/He is aware of her limitations, sets personal learning goals to support her professional development, and directs the patient to the appropriate center when necessary.	X		
	10	Knows the incidence of diseases in the mouth, teeth and jaws in society, contributes to the prevention and reduction.	X		
	11	Has teamwork and leadership skills, becomes a role model to colleagues and society.	X		
	12	Plans personal professional development, realizes it with the principle of lifelong learning		X	
	13	Establishes effective written and verbal communication with patient relatives, other health personnel, society, relevant sectors and the media.	x		
	14	Follows the innovations in the profession by using foreign language and information communication technologies.	X		
Lecturer(s) and Contact Information	<ol> <li>Prof</li> <li>Prof</li> <li>Prof</li> </ol>	's First/Last Name:  Dr. Arife Doğan ( <u>adogan@gazi.edu.tr</u> ) (Sınıf S Dr. Asude Dilek Nalbant (asudedilek@gmail.co Dr. Evşen Tamam (ewsen@gazi.edu.tr) Dr. Duygu Karakış (duygukoc@gazi.edu.tr)	⊸ Öğr. Ü	yesi)	