

<b>DESCRIPTION FORM OF THE COURSE</b>	
<b>Course Code and Name</b>	<b>DHF 370 Orthodontics</b>
<b>Semester of the Course</b>	5-6
<b>Catalog Description of the Course (Contents)</b>	Learning the definition, diagnosis, etiology and relationship of orthodontic anomalies with craniofacial development.
<b>Main Reference Book</b>	-Ülgen M: Orthodontic anomalies, cephalometry, etiology, growth and development, diagnosis. T.R. Yeditepe University Publications, Istanbul, 2000- -Graber TM, Orthodontics, Principles and Practice. 3 <sup>rd</sup> ed., WB Saunders Co.,London, Toronto,1972.
<b>Supplementary Books</b>	-Graber T.M, Vanarsdall R, Vig K: Orthodontics Current Principles and Techniques, 5 <sup>th</sup> ed. Mosby Elsevier 2012 -Proffitt WR, Fields HW, Sarver D. Contemporary Orthodontics. 5 <sup>th</sup> ed. Mosby, Elsevier 2013. -McNamara JA, Brudon WL. Orthodontic and Orthopedic Treatment in the mixed dentition. Needham Press, Michigan, 1993. -Moyers R.E: Handbook of orthodontics, 4 <sup>th</sup> ed. year book Medical Publishers,1980.
<b>Course Credit (AKTS)</b>	4
<b>Prerequisites of the Course (Course attendance requirements should be specified in this section)</b>	Attendance Required
<b>Course Type</b>	Vocational / Technical Course
<b>Language of Instruction of the Course</b>	Turkish
<b>Objectives and Goals of the Course</b>	To diagnose orthodontic anomalies by understanding the basic principles of normal growth and development and their relationship with orthodontics, normal development of dentition and occlusion, normal functions of the stomatognathic system; To understand orthodontic diagnostic tools and to know clinical examination details; Making orthodontic wire bending on the orthodontic model
<b>Learning Outcomes of the Course</b>	<ol style="list-style-type: none"> <li>1. Understand the basic principles of normal growth and development and their relationship with orthodontics</li> <li>2. Understands the normal development of dentition and occlusion.</li> <li>3. Understands the normal functions of the stomatognathic system..</li> <li>4. Comprehend orthodontic diagnostic tools (wrist, cephalometric films, models etc.).</li> <li>5. Distinguish the etiology of orthodontic anomalies.</li> <li>6. Diagnoses orthodontic anomalies</li> <li>7. Knows the details of clinical examination in orthodontics.</li> <li>8. Makes orthodontic wire bending on the orthodontic model.</li> <li>9. Have information about cephalometric evaluation.</li> </ol>
<b>Format of the Giving Course</b>	It is carried out in the form of face-to-face theoretical and practical training in the laboratory.
<b>Weekly Distribution of the Course</b>	<ol style="list-style-type: none"> <li>1. week: 1.Introduction to Orthodontics 2.Purposes and Limits of Orthodontics</li> <li>2. week: 3.Growth and Development Terminology and Basic Principles 4.Growth and Development Terminology and Basic Principles</li> <li>3. week: 5.Growth and Development Theories 6.Activities of Bone Growth Centers and Bone Sites</li> </ol>

	<p>4. week: 7.Prenatal Growth and Development of Cranio Facial Structures 8.Prenatal Growth and Development of Cranio Facial Structures</p> <p>5. week: 9.Postnatal Growth and Development of Cranio Facial Structures 10.Postnatal Growth and Development of Cranio Facial Structures</p> <p>6. week: 11.Evaluation of Growth and Development as a Whole and Its Relationship with Orthodontics 12.Evaluation of Growth and Development as a Whole and Its Relationship with Orthodontics</p> <p>7. week: 13.Development of Dental Arcs 14.Development of Dental Arcs</p> <p>8. week: 15.Development of Dental Arcs 16.Definition of Dental Relationships</p> <p>9. week: 17.Occlusion principles in orthodontics 18.Occlusion principles in orthodontics</p> <p>10. week: 19.Stomatognathic System Functions 20.Stomatognathic System Functions</p> <p>11. week: 21.Stomatognathic System Functions 22.Diagnosis and Diagnostic Tools of the Orthodontic Area</p> <p>12. week: 23.Orthodontic Cephalometric Radiography Analysis 24.Orthodontic Cephalometric Radiography Analysis</p> <p>13. week: 25.Orthodontic Cephalometric Radiography Analysis 26.Orthodontic Cephalometric Radiography Analysis</p> <p>14. week: 27.Orthodontic Cephalometric Radiography Analysis 28.Orthodontic Model Analysis</p> <p>15. week: 29. Hand-Wrist Film Evaluation (Bone Age Determination) 30. Hand-Wrist Film Evaluation (Bone Age Determination)</p> <p>16. week: 31.Terminology of Orthodontic Anomalies 32. Etiology of Orthodontic Anomalies</p> <p>17. week: 33. Etiology of Orthodontic Anomalies 34.Etiology of Orthodontic Anomalies</p> <p>18. week: 35.Classification of Orthodontic Anomalies 36. Angle Class I Malocclusion, Skeletal Class I anomaly</p> <p>19. week: 37.Angle Class II Division 1 Malocclusion, Skeletal Class 2 anomaly, Angle Class II Subdivision Malocclusion 38.Angle Class II Division 2 Malocclusion</p> <p>20. week: 39.Angle Class III Malocclusion, 40.Skeletal Class 3 anomaly</p> <p>21. week: 41.Open Closure, Increased Face Height 42.Deep Closure, Decreased Face Height</p> <p>22. week: 43. Gingival Smile 44.Maxillary stenosis, Cross bite, Non-occlusion, Midline deviation, Facial Asymmetry, Crowding, Diastema</p> <p>23. week: 45.Laterognathic, Mandibular Deflection / Deviation, 46.Cleft lip, palate and alveolar cleft</p> <p>24. week: 47.Down Syndrome, Ectodermal Dysplasia 48.Differential Diagnosis in Orthodontics</p> <p>25. week: 49.Taking a History Regarding General Problem in Orthodontics 50. Oral Examination in Orthodontics</p> <p>26. week: 51.Extra-Oral Examination in Orthodontics, Analysis and Arrangement of Laugh Line, Smile Line Problems 52. Face Types</p> <p>27. week: 53.Orthodontics in Community Oral and Dental Health 54.. Orthodontics in Community Oral and Dental Health</p> <p>28. week: 55. Re-evaluation of Orthodontic Anomalies 56. Re-evaluation of Orthodontic Anomalies</p>
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	<p><b>PRACTICAL PRACTICES</b>  Week 1: Showing the cephalometric points on the lateral cephalometric film (1 piece)  Week 2: Making wire bends on the model: C-crochet, adams crochet, vestibule arc bending (1pcs)</p>								
<b>Teaching Activities</b> <i>(The time spent for the activities mentioned here will determine the credit. It needs to be filled carefully.)</i>	Theoretical course hours per week : <b>28 week / 2 hours</b> Weekly practical lessons : <b>2 week / 8 hours</b> Internet browsing, library study: <b>1 week / 3 hours</b> Material design, application: <b>1 week / 3 hours</b> Midterm and midterm exam preparation : <b>2 week / 5 hours</b> Final exam and preparation for the final exam : <b>2 week / 6 hours</b>								
<b>Evaluation Criteria of the Course</b>		<b>Numbers</b>	<b>Total Contribution (%)</b>						
	Midterm	2	45						
	Homework								
	Practice	1	6						
	Projects								
	Practical								
	Quiz	2	9						
	Semester final exam (%)	1	40						
	<b>Total</b>	<b>6</b>	<b>100</b>						
<b>Course Workload</b>		<b>Activities</b>	<b>Total Number of Weeks</b>	<b>Duration (Weekly Hours)</b>	<b>Total Workload at the End of the Term</b>				
		Theoretical lesson per week	28	2	56				
		Practical lessons per week	2	8	16				
		Reading Activities							
		Internet browsing, library study	1	3	3				
		Material design, application	1	3	3				
		Report preparing							
		Preparing presentation							
		Presentation							
		Midterm and preparation for the midterm exam	2	5	10				
		Final exam and preparation for the final exam	2	6	12				
		Others							
		Total workload			100				
		Total workload/ 25			4,0				
		Course Credit (AKTS)			4				
<b>Contribution Level Between Course Outcomes and Program Outcomes</b>	No	Program Outcomes			1	2	3	4	5
		Knows the normal structures and functions of the human body and specifically the structures and teeth in the mouth area on the basis of cells, tissues, organs and systems and their interactions with each other.							X
	2	Defines the causes and formation mechanisms of							X

		oral, dental and jaw diseases, the findings they cause, structural and functional disorders and how they affect the organism.					
	3	Knows, understands, correlates, and evaluates the symptoms and findings in the national core education program of dentistry and Gazi University Faculty of Dentistry Extended Education Program, diseases and conditions and professional practices at a determined level.					X
	4	Knows to reach the best current scientific evidence in line with personal learning needs, and to evaluate its reliability and validity.					X
	5	Knows the legislation on professional legal responsibilities, deontology and ethical principles..		X			
	6	Knows and performs the professional practices in the national core education program of dentistry and Gazi University Faculty of Dentistry Extended Education Program.					X
	7	Conducts diagnosis, treatment and follow-up processes by prioritizing evidence-based practice, critical thinking and ethical principles.					X
	8	Aware of its limitations, puts personal learning goals to support professional development, guide the patient to the appropriate center when necessary.					X
	9	Knows the prevalence of diseases in the mouth, teeth and jaws in the society, contributes to prevention and reduction.					X
	10	While practicing his/her profession independently, he/she acts in accordance with the laws, regulations, legislation and ethical principles regarding his/her duties and responsibilities.				X	
	11	Has teamwork and leadership skills, and becomes a role model for colleagues and society.					X
	12	Plans personal professional development and realizes it with the principle of lifelong learning.			X		
	13	Establishes the effective written and oral communication with patients, their relatives, other healthcare professionals, society, relevant sectors and media.					X
	14	Follows the innovations in the profession by using foreign language and information communication technologies	X				
<b>Instructors to Give the Course and Contact Information</b>	<p>Prof.Dr.Sevil Akkaya, sevilak@gazi.edu.tr,  Prof.Dr. Sema Yüksel, semay@gazi.edu.tr,  Prof.Dr.Neslihan Üçüncü, ucuncu@gazi.edu.tr,  Prof.Dr. Emel Yücel, emelyucel0@gmail.com  Prof.Dr.Tuba Tortop, tubatortop@gazi.edu.tr,  Prof.Dr.Nilüfer Darendeliler, darende@gazi.edu.tr,  Prof.Dr. Lale Taner, laletaner@yahoo.com,  Prof.Dr.Çağrı ULUSOY, culusoy77@yahoo.com,  Prof.Dr. Cumhuri TUNCER, tuncer@gazi.edu.tr,  Prof.Dr. Burcu BALOŞ TUNCER, burcu@gazi.edu.tr,  Prof.Dr.Selin KALE VARLIK, kaleselin@yahoo.com,  Prof.Dr. Belma IŞIK, belma@gazi.edu.tr,  Prof.Dr.Çağrı TÜRKÖZ, cturkoz@hotmail.com,  Prof.Dr. Deniz UZUNER, fduzuner@yahoo.com.tr  Doç. Dr. Nehir Canıgür Bavbek, ncanigur@yahoo.com  Doç.Dr. Erdal BOZKAYA, erdalbozkaya@gmail.com  Dr. Öğr. Üyesi Gamze METİN GÜRSOY, gamgursoy@gmail.com</p>						