COURSE DESCRIPTION FORM						
Course Code and Name	KİM 210 Biochemistry for Dentistry					
Course Semester	3-4					
Catalogue Data of the Course (Course Content)	Evaluation of basic biochemical molecules in the organism, biochemical pathways, metabolism of biomolecules and diagnosis and follow-up of diseases in terms of clinical biochemistry.					
Course Textbooks	Biochemistry (Lippincott), Harper's Biochemistry, Biochemistry (Lehninger), Biochemistry (Strayer L.), Biochemistry (Donald and Judith Voet)					
Supplementary Textbooks	Tietz Textbook of Clinical Chemistry (Carl A. Burtis, Edward R.Ashwood), Biyokimya (Figen Gürdöl), literatures					
Credit (ECTS)	5					
Prerequisites for the Course (Attendance Requirements)	It is compulsory for the student to attend the classes. This obligation is in accordance with Gazi University Faculty of Dentistry Education-Training and Examination directive.					
Course Type	Vocational Technique					
Language of Instruction	Turkish					
Course Objectives	To be able to learn the basic subjects of biochemistry, to associate this knowledge with other disciplines and clinical biochemistry.					
Course Learning Outcomes	1. Learns basic biochemical reactions and molecular mechanisms from cell to organism, 2. Comprehends basic molecules, understands their functions at cell, tissue and system level, 3. Learns the basic concepts of metabolism, metabolic pathways and the interaction of metabolism, 4 Have knowledge about regulation of metabolism and hormones 5. Establishes a relationship between cell biochemistry and clinic using the information learned.					
Instruction Method						
(Face-to-face, Distance education etc.)	Face to face					
Weekly Schedule of the Course	1. Week Basic concepts of biochemistry and biomolecules 2. Week Basic concepts of biochemical reactions and bioenergetics 3. Week Amino acids, peptides-proteins 4. Week Metabolisms of amino acids 5. Week Amino acid metabolism and related diseases 6. Week Clinically important plasma proteins 7. Week Enzymes 8. Week Important enzymes in clinical biochemistry 9. Midterm Exam I 10.Week Carbohydrates 11.Week Carbohydrate metabolism 12.Week Disorders of carbohydrate metabolism and their clinical significance 13. Week Lipids 14. Week Lipid metabolism, its disorders and clinical significance 15. Week Metabolism and clinical significance of lipoproteins 16. Week Oxidative phosphorylation 17. Week Nucleic acids and their structures 18. Week Purine and pyrimidine metabolisms, disorders and clinical significance 19. Midterm Exam II 20 Week Vitamins and coenzymes, nutrition and vitamin deficiency 21 Week General structure of tissues 22. Week Connective tissue, collagen, cartilage and bone tissue 23. Week Collagen and elastin metabolism 24. Week Macroelements and trace elements 25. Week Mineral metabolism 26. Week Composition of blood, saliva, bile and other body fluids such as urine					

		moglobin and p											
		ormones and t	heir metabo	olis	m, the role of	hoı	mone	es in	the r	egula	tion of		
	biochemical pathways												
	Weekly theoretical course hours:28 weeks / 3 hours.												
75 1 A 4 14	Weekly practical course hours:- Reading activities: 4 weeks / 3 hours.												
Teaching Activities				lea d	2 hours								
(The time spent for the activities listed here will		Internet search and library work: 3 weeks / 2 hours.											
determine the amount of	Designing and implementing materials:												
credit required)	Making a report:- Preparing and making presentations:: 2 weeks / 3 hours.												
crean required)	Midterm and revision for midterm: 1 week / 7 hours.												
		nd revision for				S							
			Number(_			Veigh	t (%	/o)				
Assessment Criteria					() () () () () () () () () ()								
	Midterm exam		2				5()					
	Assignment		1				10)					
	Application		1										
	Project												
	Practice												
	Quiz												
	Final exam		1				40)					
	Total		4	100									
						Dr	ratio	n	E	nd of	,		
Workload of the Course		Activity			Number of		Veekl		Semester Total				
		Taca (10g)			Weeks		Iour)	-	Workload				
	Weekly the	oretical course	hours	28	}	3		8	84				
		Weekly practical course hours											
	* *			4		3		1	2				
	Reading activities												
	Internet search and library work			3		2		6)				
	Designing and implementing												
	materials												
	Making a report												
	Preparing and making presentations			2				6	6				
	Midterm and revision for midterm			1	7		7						
	Final exam and revision for final			1	10			10					
	exam												
	Total workload							1	25				
	Total workload/ 25							5	.0				
	Course Credit (ECTS)							5					
			Program Or	itco	mes	<u> </u>	1	2	3	4	5		
	110	No Program Outcomes Whows the normal structure and function							, ,	+	5		
		Knows the normal structure and functions of the human body and specifically the											
	1	structures and teeth in the mouth area on the				ne				X			
		basis of cells, tissues, organs and systems,											
		and their interactions with each other.											
		Defines the causes and formation											
		mechanisms of oral, dental and jaw diseases				es,							
Contribution Level	2	the findings they cause, structure and						X					
between Course Outcomes and Program Outcomes		function disorders and how they affect the											
		organism. Knows, comprehends, relates and evaluates				c							
		the symptoms and findings in the national											
		core education program of Dentistry and the				ne							
	3	Extended Education Program of Gazi								X			
		University Fa	Iniversity Faculty of Dentistry, of			nd							
		conditions and professional practices at a											
	determined level.												
	4	Knows how to reach the best current											
		scientific evidence, evaluate its reliability											

		and validity in line with personal learning		
		needs.		
	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 the Extended Education Program of Gazi University Faculty of Dentistry 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.	Х	
	8	She/he is aware of her/his limitations, sets personal learning goals to support her professional development, and directs the patient to the appropriate center when necessary.	X	
	9	Knows the incidence of diseases in the mouth, teeth and jaws in society, contributes to the prevention and reduction.	X	
	10	While practicing her/his profession independently, she/he acts in accordance with the laws, regulations, legislation and ethical principles related to her duties and responsibilities.	X	
	11	Has teamwork and leadership skills, becomes a role model to colleagues and society.	X	
	12	She/he plans her/his personal professional development and realizes it with the principle of lifelong learning.	X	
	13	Establishes effective written and verbal communication with the patient, patient relatives, other health personnel, society, relevant sectors and the media.	X	
	14	Follows the innovations in her/his profession by using foreign language and information communication technologies.	X	
Lecturer(s) and Contact Information		irst/Last Name:Prof.Dr.Servet ÇETE ess:scete@gazi.edu.tr		