



T.C.
İSTANBUL OKAN ÜNİVERSİTESİ
DİŞ HEKİMLİĞİ FAKÜLTESİ
2025-2026 EĞİTİM-ÖĞRETİM YILI



FAKÜLTE : DİŞ HEKİMLİĞİ FAKÜLTESİ
DERS KODU ve ADI : DENT107 BIOPHYSICS
SORUMLU ÖĞRETİM ÜYESİ : Prof. Dr. MURAT AYAZ, Dr. Öğr. Üy. HÜMBET AHMEDOV
SINIF : İNGİLİZCE, BİRİNCİ
YARIYIL / YIL : YARIYIL
DERS GÜNÜ : PAZARTESİ
DERS SAATİ : 11:00-12:50

WEEK	DATE	DENT107 BIOPHYSICS	INSTRUCTOR
1st WEEK	29.09.2025	Biophysics, Introduction to Radiation Biophysics.	Dr. Öğr. Üy. HÜMBET AHMEDOV
2nd WEEK	06.10.2025	Radiations and their interaction with matter.	Dr. Öğr. Üy. HÜMBET AHMEDOV
3rd WEEK	13.10.2025	Radiation doses. Biological effects of radiations.	Dr. Öğr. Üy. HÜMBET AHMEDOV
4th WEEK	20.10.2025	Medical usage of radiations in diagnosis and in therapy.	Dr. Öğr. Üy. HÜMBET AHMEDOV
5th WEEK	27.10.2025	Internal dosimetry. Dosimetry models for respiratory and gastrointestinal systems.	Dr. Öğr. Üy. HÜMBET AHMEDOV
6th WEEK	03.11.2025	Radiation safety.	Dr. Öğr. Üy. HÜMBET AHMEDOV
7th WEEK	11.11.2025	Lasers and their application in medicine.	Dr. Öğr. Üy. HÜMBET AHMEDOV



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8th WEEK		1st MIDTERM EXAMS	
9th WEEK	24.11.2025	Properties of Water and Its Importance for Living Organisms	Prof. Dr. MURAT AYAZ
10th WEEK	01.12.2025	System Concept. Concentration Gradient: Diffusion of Solutes	Prof. Dr. MURAT AYAZ
11th WEEK	08.12.2025	Analog Model of the Cell Membrane. Movement Paths of Particles Through a Lipid Membrane	Prof. Dr. MURAT AYAZ
12th WEEK	15.12.2025	Quantitative Exsplanation of Passive Transfers across the Cell Membrane	Prof. Dr. MURAT AYAZ
13th WEEK	22.12.2025	Electrical Gradient	Prof. Dr. MURAT AYAZ
14th WEEK	29.12.2025	Changes in Membrane Potential: The Basis of Conduction	Prof. Dr. MURAT AYAZ
15th WEEK	05.01.2026	Voltage Clamp Technique and Cell Membrane Current Recordings	Prof. Dr. MURAT AYAZ
		FINAL EXAM	

		MAKE UP EXAM
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