

# Dentistry -- COMMITTEE-1/ week 4

COURSE TITLE	COURSE CODE	SEMESTER	THEORETICAL (hours / week)	PRACTICE (hours / week)	CREDIT	ECTS
<b>COMMITTEE-1 INTRODUCTION TO FUNDAMENTAL SCIENCES</b>	<b>DNT 111</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>5</b>	<b>4</b>
<b>LEVEL OF COURSE</b>	<input type="checkbox"/> Associate's degree program <input checked="" type="checkbox"/> Bachelor's program <input type="checkbox"/> Master's program <input type="checkbox"/> PhD					
<b>INSTRUCTION LANGUAGE OF THE COURSE</b>	<input type="checkbox"/> TURKISH <input checked="" type="checkbox"/> FOREIGN LANGUAGE <input checked="" type="checkbox"/> English <input type="checkbox"/> German <input type="checkbox"/> French					
<b>TYPE OF COURSE</b>	<input checked="" type="checkbox"/> COMPULSORY <input type="checkbox"/> ELECTIVE <input type="checkbox"/> DEPARTMENTAL <input type="checkbox"/> NON-DEPARTMENTAL					
<b>PREREQUISITE OF THE COURSE</b>	NONE					
<b>PURPOSE OF THE COURSE</b>	<p>To understand what are molecules, the core of life, and why they are important for life. To have an idea about molecular evolution and to know the concept of chemical bonding and energy in living organisms on a systematic path to the structure of the human body. To name microscopic techniques and types of microscopes used to observe the thin structures of cells and tissues from human cells. To know the basic terms and concepts of human anatomy.</p>					
<b>COURSE OBJECTIVE</b>	<p>To understand what chemical compounds are and why they are important for life. To learn the classification of hydrocarbons in inorganic and organic chemical structure. To identify aromatic and aliphatic molecules. To know heterocyclic compounds. To define the structure of nucleic acids in macromolecular compounds synthesized by living cells. To know the methods and types of microscopes used in the observation and research of cells and tissues, to define basic anatomical terms, to define anatomical axes and planes.</p>					
<b>TEACHING METHOD</b>	FACE-TO-FACE					
<b>TEACHING AND LEARNING METHODS OF THE COURSE</b>	<input checked="" type="checkbox"/> Q&A <input checked="" type="checkbox"/> Case Problem Solving/ Drama- Role/ Case Management <input checked="" type="checkbox"/> Laboratory <input type="checkbox"/> Quantitative Problem Solving <input type="checkbox"/> Fieldwork <input checked="" type="checkbox"/> Group Study / Assignment <input checked="" type="checkbox"/> Individual Assignment <input checked="" type="checkbox"/> WEB-based Learning <input type="checkbox"/> Internship <input type="checkbox"/> Practice in Field <input checked="" type="checkbox"/> Project Preparation <input type="checkbox"/> Report Writing <input type="checkbox"/> Seminar <input type="checkbox"/> Supervision <input type="checkbox"/> Social Activity <input type="checkbox"/> Occupational Activity <input type="checkbox"/> Occupational Trip <input type="checkbox"/> Application (Modelling, Design, Model, Simulation, Experiment et.) <input checked="" type="checkbox"/> Reading <input type="checkbox"/> Thesis Preparation <input type="checkbox"/> Field Study <input type="checkbox"/> Student Club and Council Activities					

**COURSE COORDINATOR (S)**

Faculty Member Sercan Dođukan Yıldız (Anatomy)  
 Prof. M.D. H. Yegane Güven (Biochemistry)  
 Asst. Prof. Hande Koçak (Medical Biology)  
 Prof. M.D. Tangül Müdok -- Asst. Prof. Türkân Sariođlu (Histology and Embryology)  
 Asst. Prof. Hasan Hüseyin Şahin (Physiology)  
 Asst. Prof. Cevdet Nacar (Biophysics)

**COMMITTEE-1**  
**Introduction to**  
**Fundamental**  
**Sciences**

**Course Topics**

**4 weeks**

ANATOMY	BIOCHEMISTRY	MEDICAL BIOLOGY	HISTOLOGY-EMB.	PHYSIOLOGY	BIOPHYSICS
Introduction to Anatomy	Introduction To Organic Chemistry	Molecular Evolution Beginning of Life	What is histology? Preparation Methods in Histology	Introduction to Physiology and Homeostasis	Radiation and its Characteristics (Nature of Light, Atomic Structure, Basic Interactions, Nuclear Force Concept)
Anatomy Terminology	Aliphatic compounds 1 and 2	Evolution Theories	Types of Microscopes		Nuclear Reactions (Fission and Fusion Reactions)
Axes	Aromatic compounds 1 and 2	Bonds in living organisms and energy concept- Impact of Bond formation on Living Organisms	Transition to Embryology		Nuclear Decay Types
Planes	* Heterocyclic Compounds * Natural Substances	Organic and Inorganic Compounds Synthesized by Cell-- Structure of Nucleic Acids	Meiosis and gametogenesis		Energy Released as a Result of Nuclear Decay

**LEARNING OUTCOMES**

**INFORMATION**

(It is arranged according to theoretical and / or factual information classification)

1. Students know medical terminology.
2. Students comprehend the molecular basis of life.
3. Students distinguish between chemical structures.
4. Students have knowledge about chemical bonds and energy.
5. Students define nucleic acids in the basic components of molecular structure in a living organism.
6. Students know cell tissue preparation methods and types of microscopes.
7. Students know the basic terms and concepts of human anatomy.

**SKILL**

(As cognitive and / or application skills)

1. Students discuss the gaps in the relationship between molecules and life.
2. Students detect the information needed to fill those gaps.
3. Students analyze information about the origin of life by integrating it into their knowledge.
4. Students use desktop simple light microscope to observe.

**COMPETENCE**

1. Students acquire new information to expand their knowledge.
2. Students exhibit respect, responsibility and self-discipline.
3. Students exhibit the ability to be productive and questioning.
4. Students use their mother tongue effectively, strive to use their foreign language.
5. Students can work independently and take responsibility.



EVALUATION SYSTEM	YEAR / SEMESTER STUDIES	NUMBER	CONTRIBUTION RATE %
	Attendance / Participation		%
	Laboratory		%
	Practice		%
	Practice Examination		%
	Quiz		%
	Homework		%
	Presentation		%
	Projects		%
	Course-specific Internship		%
	Fieldwork		%
	Article Critique		%
	Article Writing		%
	Module Group Study		%
	Brainstorming		%
	Role Playing + Dramatization		%
	Studying outside of Classroom (Preparatory Work, Enhancement, Practice Repetition etc.)		%
	Preparatory Work, Enhancement, Practice Repetition etc.		%
	Homework (reading, writing, watching movies etc.)		%
	Project Preparation + Presentation		%
	Report Preparation + Presentation		%
	Presentation / Seminar Preparation + Presentation		%
	Oral Exam		%
	MIDTERM (Theoric%-Practical%)		40% (%90 - %10)
FINAL (Theoric%-Practical%)		60% (%90 - %10)	
<b>TOTAL</b>			<b>100%</b>

COURSE ECTS  European Credit Transfer System -Student workload-	Activities	Number (week)	Duration (hour)	Total Work Load
	Course Duration	4	12	48
	Laboratory	4	2	8
	Practice	0	0	0
	Practice Examination	0	0	0
	Course-specific Internship	0	0	0
	Fieldwork	0	0	0
	Article Critique	0	0	0
	Article Writing	0	0	0
	Module Group Study	0	0	0
	Brainstorming	0	0	0
	Role Playing + Dramatization	0	0	0
	Studying outside of Classroom (Preparatory Work, Enhancement, Practice Repetition etc.)	14	3	42
	Homework (reading, writing, watching movies etc.)	0	0	0
	Project Preparation + Presentation	0	0	0
	Report Preparation + Presentation	0	0	0
	Presentation / Seminar Preparation + Presentation	0	0	0
	Oral Exam	0	0	0
	Preparation for Midterm Exams	7	2	14
	MIDTERM	1	1	1
	Preparation for Final Exams	14	2	28
	FINAL	1	1	1
	<b>Total ECTS</b>			<b>142</b>
	<b>30 hours = 1 ECTS</b>			<b>ECTS: 4</b>