

Dentistry			
Bachelor	TR-NQF-HE: Level 6	QF-EHEA: First Cycle	EQF-LLL: Level 6

Course Introduction and Application Information

Course Code:	DIS108		
Course Name:	Histology – Embryology 1		
Semester:	Spring		
Course Credits:	<div>ECTS</div> <div>3</div>		
Language of instruction:	Turkish		
Course Condition:			
Does the Course Require Work Experience?:	No		
Type of course:	Compulsory Courses		
Course Level:	<div>Bachelor</div> <div>TR-NQF-HE:6. Master`s Degree</div> <div>QF- EHEA:First Cycle</div> <div>EQF-LLL:6. Master`s Degree</div>		
Mode of Delivery:	E-Learning		
Course Coordinator:	Dr. Öğr. Üy. AYŞE KÖYLÜ		
Course Lecturer(s):	Dr. AYŞE KÖYLÜ		
Course Assistants:			

Course Objective and Content

Course Objectives:	With this course, students will learn routine histological steps, parts of the microscope; the cell, which is the most basic unit of living things, and the tissues formed by the cells; They will learn the organs formed by certain tissues and ultimately the systems formed by together of organs serving the same purpose
Course	Histological techniques, parts of the microscope, cell membrane, cytoplasm, nucleus, epithelial

Content:	tissue, connective tissue, connective tissue cells and ground substance, fat cells, blood tissue elements, bone, bone development, cartilage and its development, nerve cells, embryo, fetus, placenta , anomalies, multiple pregnancy, histochemistry
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Learning Outcomes

The students who have succeeded in this course;

- 1) Gains general information about the preparation and examination of histological sections.
- 2) Learns about cell types and shapes
- 3) Gives examples of different tissue types
- 4) Lists blood cells

Course Flow Plan

Week	Subject	Related Preparation
1)	Introduction to histology: Basic Concepts	-
2)	Cytoplasm	-
3)	Nucleus	-
4)	Epithelial Tissue	-
5)	Connective tissue	-
6)	Cartilage Tissue	-
7)	Holiday	
8)	Midterm exam	-
9)	Bone Tissue	-
10)	Nerve Tissue	-
11)	Muscle Tissue	-
12)	Blood Production and Blood Tissue	-
13)	Skin	-
14)	The Eye & Ear: Special Sense Organs	-
15)	Final	

Sources

Course Notes /	Eroschenko, V. P., & Di Fiore, M. S. DiFiore's atlas of histologywith functional correlations.
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Textbooks:	Lippincott Williams & Wilkins. Sadler, T. W. Langman's medical embryology. LippincottWilliams & Wilkins
References:	Kierszenbaum A.L., Tres L.L. (2009). Histoloji ve Hücre Biyolojisi (14'üncü Baskıdan çeviri). Palme Kitabevi Peckham M. (2018). Bir Bakışta Histoloji. (1'inci Baskıdan çeviri). İstanbul Tıp Kitabevi Pawlina W. (2014). Histoloji Konu Anlatımı ve Atlası. (6'ncı Baskıdan Çeviri). Palme Kitabevi Junqueira L.C., Carneiro J. (2006). Temel Histoloji. (10'uncu Baskıdan çeviri). Nobel Tıp Kitabevi. Keith L. Moore, T. V. N. Persaud. (2016). Klinik Yönleriyle İnsan Embriyolojisi (10'uncu Baskıdan çeviri). Nobel Tıp Kitabevi.

Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4
Program Outcomes				
1) Has basic and up-to-date knowledge in the field of dentistry, follows scientific publications, and applies evidence-based data to his/her professional practice.	1	2	2	2
2) Knows well and effectively uses devices, tools, and materials specific to diagnosis and treatment in the field of dentistry.				
3) Evaluates the knowledge in the field of dentistry critically, integrates it with the knowledge of disciplines in the field of health, uses it by analyzing and synthesizing it.	2	2	2	2
4) Produces projects related to the field of dentistry, can work with other health disciplines, takes part as a member of the research team and evaluates and reports the results obtained at a scientific level.	2	2	2	2
5) Uses information that will contribute to the dentistry profession during practice, takes responsibility, and produces solutions in unforeseen situations.	1	1	1	1
6) Shares, compares, and exchanges dental knowledge with professional colleagues in social and scientific environments in written, verbal, and visual forms.				
7) Within the framework of social, scientific, and ethical values including patient privacy, communicates with patients and their relatives, knows all the characteristics of the patient, and recommends the most appropriate treatment with a patient-centered approach.				
8) Follows technological developments, participates in national and international studies, and shares and presents own observations, experiences, and research to further advance dental practices.				

9) By adopting the principle of lifelong learning throughout the dentistry profession, follows current evidence-based dental knowledge and uses it during his professional practice.	1	2	3	4
10) During dental practice, in cases such as abuse and addiction, performs the treatment by exhibiting the behaviors required by social ethics and legal rules, and collects and records the relevant data.				
11) Uses basic and current knowledge in the field of dentistry during professional practice for the benefit of society within the framework of national values and country realities.				
12) In natural disasters and emergency cases, takes the protective measures required by the dentistry profession; performs professional practices that benefit patients and society				
13) Generates ideas regarding health policy in dentistry, prioritizes individual and public health, and carries out preventive and therapeutic medical practices within the framework of scientific, ethical, and quality processes.				
14) Differentiates the signs and symptoms commonly encountered in the dentistry profession, makes a treatment plan and refers when necessary, and manages diseases and clinical situations regarding their urgency and patient priority.				
15) Can assume the leadership responsibility of the team he/she works for, manage it following scientific criteria, and support the professional development of the team.				

Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Average	3 Highest

	Program Outcomes	Level of Contribution
1)	Has basic and up-to-date knowledge in the field of dentistry, follows scientific publications, and applies evidence-based data to his/her professional practice.	2
2)	Knows well and effectively uses devices, tools, and materials specific to diagnosis and treatment in the field of dentistry.	
3)	Evaluates the knowledge in the field of dentistry critically, integrates it with the knowledge of disciplines in the field of health, uses it by analyzing and synthesizing it.	2
4)	Produces projects related to the field of dentistry, can work with other health disciplines, takes part as a member of the research team and evaluates and reports the results obtained at a scientific level.	2

5)	Uses information that will contribute to the dentistry profession during practice, takes responsibility, and produces solutions in unforeseen situations.	1
6)	Shares, compares, and exchanges dental knowledge with professional colleagues in social and scientific environments in written, verbal, and visual forms.	
7)	Within the framework of social, scientific, and ethical values including patient privacy, communicates with patients and their relatives, knows all the characteristics of the patient, and recommends the most appropriate treatment with a patient-centered approach.	
8)	Follows technological developments, participates in national and international studies, and shares and presents own observations, experiences, and research to further advance dental practices.	
9)	By adopting the principle of lifelong learning throughout the dentistry profession, follows current evidence-based dental knowledge and uses it during his professional practice.	
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12)	In natural disasters and emergency cases, takes the protective measures required by the dentistry profession; performs professional practices that benefit patients and society	
13)	Generates ideas regarding health policy in dentistry, prioritizes individual and public health, and carries out preventive and therapeutic medical practices within the framework of scientific, ethical, and quality processes.	
14)	Differentiates the signs and symptoms commonly encountered in the dentistry profession, makes a treatment plan and refers when necessary, and manages diseases and clinical situations regarding their urgency and patient priority.	
15)	Can assume the leadership responsibility of the team he/she works for, manage it following scientific criteria, and support the professional development of the team.	

Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
Midterms	1	% 40
Final	1	% 60
total		% 100

PERCENTAGE OF SEMESTER WORK		% 40
PERCENTAGE OF FINAL WORK		% 60
total		% 100

Workload and ECTS Credit Calculation

Activities	Number of Activities	Preparation for the Activity	Spent for the Activity Itself	Completing the Activity Requirements	Workload
Course Hours	26	1	1		52
Application	1	2	2	2	6
Midterms	1	2	1		3
Final	1	4	1		5
Total Workload					66