NEAR EASTT UNIVERSITY FACULTY OF DENTISTRY
2022-2023 ACADEMIC YEAR COURSE CONTENTS

CODE	COURSE NAME	Pre.	C/E	T	P	ECTS
DTC100	**Year 1 Theoretical Committees**	-	C	362	0	26
	CS1 - Introduction to Dentistry	-		44	0	3
	CS2 - Dental Anatomy and Morphology	-		16	0	2
	CS3 - Dental Tissues and Material Science	-		23	0	2
	BMS1 - Cellular Base of Life	-		64	6	4
	BMS2 - Tissue and Embryology	-		67	6	5
	BMS3 - Cardiovascular and Respiratory Systems	-		46	3	4
	BMS4 - Gastrointestinal System and Metabolism	-		57	6	4
	BMS5 - Urogenitale and Endocrine Systems	-		45	9	3
DPC100	Year 1 Prctical Committee	-	C	0	80	10
YİT100	Turkish Language	-	C	4	0	4
AİT200	Atatürk's Principles and History of Turkish Revolution	-	C	4	0	4
ENG100	English	-	C	6	0	6
CAR100	Career Planning	-	C	14	0	2
CAM100	Campus Orientation	-	C	14	0	2
ITE100	Information Technologies in Dentistry	-	C	2*15	0	2
CHC	Cyprus: History and Culture (Elective Course I)	-	CE	2*15	0	2
ELC***	Elective Course II	-	E	2*15	0	2
Total				449	110	60

C: Compulsory – E: Elective – CE: Compulsory Elective– T: Theory– P: Practical –ECTS: European Credit Transfer System

NEAR EAST UNIVERSITY FACULTY OF DENTISTRY
COMMITTEE OUTLINE

Course Code	Course Type	Committee Code	Committee Name
DTC100	Compulsory	CS1	Introduction to Dentistry

Theoretical Course Hour	Practical Course Hour	ECTS	Committee Supervisor
44	0	3	

Aim of the Committee
Introducing the departments, explaining the historical development process of dentistry, introducing the basic tools and instruments used in diagnosis and treatment in dentistry, teaching emergency situations and intervention steps, explaining the methods and materials used in providing oral hygiene and gaining oral hygiene habits, developing the individual's observations about life and environment of individual together with a systematic knowledge.

Learning Outcomes		
LO 1	*After the completion of this committee, students will be able to ...*	define the fields of study of the main branches of dentistry.
LO 2		explain the historical development process of dentistry.
LO 3		recognize the basic tools and instruments used in diagnosis and treatment in dentistry.
LO 4		distinguish emergency situations and lists intervention steps.
LO 5		relate the methods and materials used in providing oral hygiene.
LO 6		describes the processes and influences that shape human and societal behaviors.

Committee Outline

Department	Subject Title	Hour
Dean's Office	Orientation, general rules and regulation	2
All Departments	Introduction to departments of dentistry	8
History of Dentistry		
Oral and Maxillofacial Surgery	Dentistry in prehistoric and ancient ages	1
Oral and Maxillofacial Radiology	Dentistry in middle aged Islamic culture	1
Endodontics	Dentistry in medieval (Europe)	1
Orthodontics	Dentistry in new age	1
Pedodontics	Dentistry in near age	1
Periodontology	Dentistry in modern age	1
Prosthetic Dentistry	Development of dentistry in Turkey	1
Restorative Dentistry	Dental organizations	1
Tools and Devices Used in Dentistry		
Endodontics	Dental hand tools	1
Restorative Dentistry	Instruments used in operative dentistry	1
First Aid and Emergency		
First Aid and Emergency	General approach to trauma, vital findings, airway management, foreign body aspirations	1
	First aid in unconsciousness	1
	First aid in bleeding and heat balance disorders	1
	Fractures, dislocations, sprains and wounds	2
	Basic life support and advanced cardiac support	1
	Animal bites, poisoning, shock, transferring the patiens	1
Oral Hygiene		
Periodontology	Providing oral hygiene and tooth brushing techniques	1
Behavioral Sciences		
	Introduction to behavioral sciences and basic concepts	1
	Behavioral science research methods	1

Psycology	Anthropology, sociology, psychology	1
	Learning - motivation	1
	Personality	1
	Perception	1
	Attitudes	1
	Groups	1
	Conflict	1
	Self defense mechanisms	1
	Topographic model	1
	Structural model	1
	Culture	1
	Social behavior and organizations	1
	Behavioral neurobiology	1
	Attachment theory, modeling	1

Learning and Teaching Techniques of the Committee					
☑	Expression	☐	Experiment	☐	Project Design / Management
☑	Discussion	☐	Practice / Implementation	☐	Preparing / Presenting Reports
☑	Question & Answer	☐	Case Study	☐	Team / Group Work
☐	Observation	☑	Problem / Problem Solving	☐	Brainstorming

Committee References	
1	Efeoğlu A (1992).Diş Hekimliği Tarihi Ders Notu İ.Ü. Diş Hekimliği Fakültesi, İstanbul
2	Malvin E. Ring (1993). Dentistry. Illustrated History. Abradale Press.
3	Türk Kızılayı ilk yardım el kitabı (2018) 16. baskı. Matsa Basımevi, Ankara
4	Anusavice K. Philips (2003). Science of Dental Materials. 11th Ed.
5	Harald O. Heymann, Edward J. Swift, Jr., Andre V. Ritter. (2016) Sturdevant's Art & Science of Operative Dentistry.7th Edition, Elsevier Health Sciences.
6	Newman M, Takei H, Klokkevold P, Carranza F (2019). Clinical Periodontology, 13th Ed.Elsevier
7	Eroğlu F (2021). Davranış Bilimleri. 4. Baskı. Beta Yayınları. İstanbul

Quantification and Consideration					
☑	Attendance	☐	Clinical Rotation	☐	Project
☐	Laboratory	☐	Homework	☐	Midterm exam
☐	Practical / Implementation	☐	Presentation	☑	Committee Exam

Contribution of Learning Outcome to Program Competencies													
	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8	PC 9	PC 10	PC 11	PC 12	PC 13
LO 1	2	1	1	1	1	1	1	1	1	1	1	1	1
LO 2	2	1	1	1	1	1	1	1	1	1	1	1	1
LO 3	1	1	1	3	1	1	1	1	1	1	1	1	1
LO 4	2	1	3	1	1	1	1	1	1	1	1	1	1
LO 5	1	1	1	2	1	1	2	1	1	1	1	1	1
LO 6	1	1	1	1	1	1	1	1	4	1	1	1	1
Contribution Level:				1: No		2: Poor		3: Moderate		4: Good		5: Very Good	

Workload and ECTS Calculation			
Educational Tools	**Amount**	**Duration (Hour)**	**Total Workload (Hour)**
Theoretical Course Hour	44	1	44
Preparation for the Course	44	0.5	22

Preparation for the Committee Exam	1	10	10
Committee Exam	1	1	1
Preparation for the Final Theoretical Exam	1	5	5
Final Theoretical Exam	1	1	1
		Total Workload	83
		Total Workload / 30	83/30
		ECTS Credits	~3

NEAR EAST UNIVERSITY FACULTY OF DENTISTRY
COMMITTEE OUTLINE

Course Code	Course Type	Committee Code	Committee Name
DTC100	Compulsory	CS2	Dental Anatomy and Morphology

Theoretical Course Hour	Practical Course Hour	ECTS	Committee Supervisor
16	0	2	

Aim of the Committee
Explaining of the terms, axes, and planes used in dentistry, the dental numbering systems used worldwide, the anatomy of the crown, root, and pulp of permanent and deciduous teeth; the relationships of teeth in the same and opposing arch.

Learning Outcomes		
LO 1	*After the completion of this committee, student will be able to ...*	use the terminology to describe teeth and surrounding tissues.
LO 2		notate the deciduous and permanent teeth according to different notation systems.
LO 3		recognise and name the anatomical formations of the crown, root, and canal morphologies of permanent teeth and distinguish teeth from each other.
LO 4		define the relationship between teeth in the same and opposing arch.
LO 5		recognise the morphological characteristics of deciduous teeth and differentiate from permanent teeth.

Committee Outline		
Department	**Subject Title**	**Hour**
Prosthetic Dentistry	Introduction to dental anatomy and terminology	2
Oral, Dental and Maxillofacial Radiology	Dental notation systems	1
Permanent Teeth		
Prosthetic Dentistry	Morphologies of maxillary central and lateral	2
	Morphologies of mandibular central and lateral	1
	Morphologies of maxillary and mandibular canine	1
	Morphologies of maxillary premolars	1
	Morphologies of mandibular premolars	1
	Morphology of maxillary 1st molar	1
	Morphology of mandibular 1st molar	1
	Morphologies of maxillary and mandibular 2nd molar	1
	Dental arch morphology	1
Endodontics	Pulp anatomies of permanent teeth	1
Primary Teeth		
Pedodontics	Morphological structures of primary teeth	2

Learning and Teaching Techniques of the Committee					
☑	Expression	☐	Experiment	☐	Project Design / Management
☐	Discussion	☐	Practice / Implementation	☐	Preparing / Presenting Reports
☑	Question & Answer	☐	Case Study	☐	Team / Group Work
☐	Observation	☐	Problem / Problem Solving	☐	Brainstorming

Committee References	
1	Hilton Riquieri(2019). Dental Anatomy and Morphology, Quintessence Publishing,Baskı.1, İstanbul
2	Nelson SJ, Ash MM (2010). Wheeler's Dental Anatomy, Physiology and Occlusion, Elsevier
3	Scheid RC, Weiss G (2012). Woelfel' s Dental Anatomy. 8th Edition. Williams & Wilkins, a Wolters Kluwer Business, USA.
4	Dean J (2021) .McDonald and Avery's Dentistry for the Child and Adolescent, 6th Edition. Elsevier, Amsterdam.
5	Lecture notes

Quantification and Consideration					
☑	Attendance	☐	Clinical Rotation	☐	Project
☐	Laboratory	☐	Homework	☐	Midterm exam
☐	Practical / Implementation	☐	Presentation	☑	Committee Exam

Contribution of Learning Outcome to Program Competencies													
	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8	PC 9	PC 10	PC 11	PC 12	PC 13
LO 1	2	2	1	1	1	1	1	1	1	1	1	1	1
LO 2	2	1	1	1	1	1	1	1	1	1	1	1	1
LO 3	2	2	1	1	1	1	1	1	1	1	1	1	1
LO 4	2	2	1	1	1	1	1	1	1	1	1	1	1
LO 5	2	2	1	1	1	1	1	1	1	1	1	1	1
Contribution Level:				1: No		2: Poor		3: Moderate		4: Good		5: Very Good	

Workload and ECTS Calculation			
Educational Tools	**Amount**	**Duration (Hour)**	**Total Workload (Hour)**
Theoretical Course Hour	16	1	16
Preparation for the Course	16	0.5	8
Preparation for the Committee Exam	1	20	20
Committee Exam	1	1	1
Preparation for the Final Theoretical Exam	1	10	10
Final Theoretical Exam	1	1	1
		Total Workload	56
		Total Workload / 30	56/30
		ECTS Credits	~2

NEAR EAST UNIVERSITY FACULTY OF DENTISTRY
COMMITTEE OUTLINE

Course Code	Course Type	Committee Code	Committee Name
DTC100	Compulsory	CS3	Dental Tissues and Material Science

Theoretical Course Hour	Practical Course Hour	ECTS	Committee Supervisor
23	0	2	

Aim of the Committee
Explaining the physical and mechanical properties of dental materials used in applied courses, explaining the development, histology and physiology of the teeth and surrounding tissues in the oral cavity.

Learning Outcomes		
LO 1	*After the completion of this committee, student will be able to ...*	classify dental materials according to their intended use and use terminology to explain their properties.
LO 2		recognize teeth and tissues surrounding teeth, defines developmental processes and factors affecting these processes.

Committee Outline		
Department	**Subject Title**	**Hour**
Material Science		
Prosthetic Dentistry	Material science and terminology	2
	Gypsum and its products	1
	Dental waxes	1
	Acrylic resin	1
	Metals and alloys	1
Dental Tissues		
Histology and Embryology	Embryology of the tooth	2
Restorative Dentistry	Histology of enamel	2
	Histology of dentin	2
Periodontology	Gingival epithelium, connective tissue	2
	Cementum, periodontal ligament, alveolar bone	1
Endodontics	Histophysiology of the pulp	1
	Periapical tissues	2
Biochemistry	Tissues of oral cavity	1
	Structure of enamel, dentin and cementum	2
	Inorganic structure of the tooth and bone	2

Learning and Teaching Techniques of the Committee					
☑	Expression	☐	Experiment	☐	Project Design / Management
☐	Discussion	☐	Practice / Implementation	☐	Preparing / Presenting Reports
☑	Question & Answer	☐	Case Study	☐	Team / Group Work
☐	Observation	☑	Problem / Problem Solving	☐	Brainstorming

Committee References	
1	Sakaguchi RL, Powers JM (2019). Craig's Restorative Dental Materials. 14. Edition. Elsevier Mosby, St. Louis.
2	Anusavice KJ, Shen C, Rawls HR (2021). Phillips' Science of Dental Materials. 13. Edition. St. Louis: Elsevier Inc.
3	Berkovitz BK, Holland GR, Moxham, BJ (2017). Oral Anatomy, Histology and Embryology. Elsevier Health Sciences.
4	John J. Manappallil (2010). Basic Dental Materials, Jaypee Brothers Medical Publishers (P) Ltd.; 3/E edition
5	Newman M, Takei H, Klokkevold P, Carranza F (2019). Clinical Periodontology, 13th Ed.Elsevier

6	McDonald and Avery's (2016). Dentistry for the Child and Adolescent. 10th ed. Elsveir, Holland.
7	Welbury R, Duggal MS, Hosey MT (2018). Paediatric Dentistry. 5th Ed. Oxford, England.
8	Hargreaves, K. M., & Berman, L. H. (2015). Cohen's Pathways of the Pulp. Elsevier Health Sciences.
9	Torres, C. R. G. (Ed.). (2019). Modern operative dentistry: Principles for clinical practice. Springer Nature.
10	Junqueira Temel Histoloji Konu ve Atlas (20219). Güneş Tıp Kitapevleri, Ankara
11	Arola, D. D., Gao, S., Zhang, H., & Masri, R. (2017). The tooth: its structure and properties. Dental Clinics, 61(4), 651-668.
12	Harald O. Heymann, Edward J. Swift, Jr., Andre V. Ritter. (2016) Sturdevant's Art & Science of Operative Dentistry.7th Edition, Elsevier Health Sciences.
13	Heymann HO, Swift EJ, Ritter AV (2016) Sturdevant's Art & Science of Operative Dentistry. 7th Edition, Elsevier Health Sciences.

Quantification and Consideration					
☑	Attendance	☐	Clinical Rotation	☐	Project
☐	Laboratory	☐	Homework	☐	Midterm exam
☐	Practical / Implementation	☐	Presentation	☑	Committee Exam

Contribution of Learning Outcome to Program Competencies													
	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8	PC 9	PC 10	PC 11	PC 12	PC 13
LO 1	2	1	1	4	1	1	1	1	1	1	1	1	1
LO 2	2	3	1	1	1	1	1	1	1	1	1	1	1
Contribution Level:				1: No		2: Poor		3: Moderate		4: Good		5: Very Good	

Workload and ECTS Calculation			
Educational Tools	**Amount**	**Duration (Hour)**	**Total Workload (Hour)**
Theoretical Course Hour	23	1	23
Preparation for the Course	23	0.5	11.5
Preparation for the Committee Exam	1	10	10
Committee Exam	1	1	1
Preparation for the Final Theoretical Exam	1	5	5
Final Theoretical Exam	1	1	1
		Total Workload	51.5
		Total Workload / 30	51.5/30
		ECTS Credits	~2

NEAR EAST UNIVERSITY FACULTY OF DENTISTRY
COMMITTEE OUTLINE

Course Code	Course Type	Committee Code	Committee Name
DTC100	Compulsory	BMS1	Cellular Base of Life

Theoretical Course Hour	Practical Course Hour	ECTS	Committee Supervisor
64	6	5	

Aim of the Committee
Explaining the biochemical, histological, and physiological structure of the basic compounds of the cell that form the basis of life, examining the genetic information transfer and cellular anomalies, teaching the anatomical structure of the bones in the body and head & neck region.

Learning Outcomes		
LO 1	*After the completion of this committee, student will be able to ...*	describe the main organic and inorganic compounds in the body and their basic biochemical relationships.
LO 2		explain cell histology and physiology; list the histochemical techniques.
LO 3		name the anatomical structures that make up the skeletal system.
LO 4		list the basic principles of cell division.

Committee Outline

Department	Subject Title	Hour
Biochemistry	Introduction to organic chemistry, atom and molecule concept and hybridization	2
Physiology	Introduction to physiology	1
Biophysics	What is biophysics? Subtypes of biophysics	1
Histology and Embryology	Introduction to the science of histology and embryology	1
	Microscope types and histochemical techniques	1
Anatomy	Introduction to the anatomy, latin terminology	1
Medical Biology and Genetics	Introduction to molecular cell biology	2
Biochemistry	Chemical bonds	2
	Organic chemical reactions	2
	Hydrocarbons	2
	Aromatic compounds	1
	Function, group and and isomarization in organic compounds	2
	Oxygenated organic compounds	2
	Nitrogenous and sulphur containing compounds	2
Biophysics	Measuring and measurability	1
	Physical dimentions, SI Unit system	1
Physiology	Physiology control systems and homeostasis	1
Histology and Embryology	The cell	2
Medical Biology and Genetics	Cell membrane and membrane transportation	2
	Organelles	2
	Signaling mechanism of cell components	2
	The cell cycle and its controls	2
Physiology	Body fluid compartments and its properties	1
	Cell membrane and dynamics	1
	Bioelectricity and potentials	2
Biochemistry	Amino acids and derivatives	1
	Carbohydrates	1
	Lipids	1
	Nukleic acids	2
	Proteins	1
Biophysics	Introduction to thermodynamics - rules of thermodynamics	1

Biophysics	Diffusion and osmosis of molecules from cell membrane	1
Medical Biology and Genetics	Genetic information flow, protein synthesis	2
	Cell divisions, cell divisions: mitosis and meiosis	2
Anatomy	General information about bones, upper and lower extremity bones	1
	Neurocranium	2
Medical Biology and Genetics	Mutagenesis and DNA Repair	2
	RNA Transkripsiyonu	2
	Genetic information, structure of DNA, structure of RNA, chromatin structure	2
Anatomy	Viscerocranium	2
	Skull	2

Learning and Teaching Techniques of the Committee

☑	Expression	☐	Experiment	☐	Project Design / Management
☑	Discussion	☑	Practice / Implementation	☐	Preparing / Presenting Reports
☑	Question & Answer	☐	Case Study	☐	Team / Group Work
☐	Observation	☐	Problem / Problem Solving	☐	Brainstorming

Committee References

1	Nelson D. L., Cox M.M. Lehninger (2004). Biyokimyanın İlkeleri. Palme Yayınevi.
2	Rodwell VW, Bender D, Botham KM, Kennelly PJ, Weil PA. (2003). Harper's Illustrated Biochemistry. 31th Ed. McGraw Hill LLC
3	Murray R. K et all (2003). Harper's Illustrated Biochemistry. Lange Medical Books/McGraw-Hill Medical Publishing Division
4	Tellingen C. V (2001). Biochemistry. Louis Bolk Instituut.
5	Stanford Jr. Al (2013). Foundations of Biophysisc. Academic Press, New York.
6	Guyton and Hall (2015). Textbook of Medical Physiology. Elsevier
7	Neil A. Campbell, Jane B. Reece. (2011) Campbell biology. 9th ed. publishing as Pearson Benjamin Cummings, 1301 Sansome St., San Francisco
8	Chandar, Nalini & Viselli, S (2010) Cell and Molecular Biology Lippincott's illustrated reviews. Lippincott Williams & Wilkins, a Wolters Kluwer business. Baltimore, Philadelphia
9	Reece JB. (2011) Campbell biology. 9th ed. Pearson Education, San Francisco, CA
10	Brooker, R J.(2019)Concepts of genetics . Third edition. McGraw-Hill Education, New York
11	Drake R.L. (2018) Grays Anatomi Öğrenciler için, 3. Baskı, Nobel Tıp Kitapevi
12	Waschke J. (2016) Sobotta Anatomi Konu Kitabı, Güneş Tıp Kitapevi

Quantification and Consideration

☑	Attendance	☐	Clinical Rotation	☐	Project
☐	Laboratory	☐	Homework	☐	Midterm exam
☑	Practical / Implementation	☐	Presentation	☑	Committee Exam

Contribution of Learning Outcome to Program Competencies

	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8	PC 9	PC 10	PC 11	PC 12	PC 13
LO 1	3	3	1	1	1	1	1	1	1	1	1	1	1
LO 2	2	3	1	1	1	1	1	1	1	1	1	1	1
LO 3	2	3	1	1	1	1	1	1	1	1	1	1	1
LO 4	2	2	1	1	1	1	1	1	1	1	1	1	1
Contribution Level:				1: No		2: Poor		3: Moderate		4: Good		5: Very Good	

Workload and ECTS Calculation

Educational Tools	Amount	Duration (Hour)	Total Workload (Hour)
Theoretical Course Hour	64	1	64
Practical Course Hour	6	1	6
Preparation for the Theoretical Course	64	0.5	32
Preparation for the Practical Course	6	0.5	3
Preparation for the Committee Exam	1	10	10

Committee Exam	1	1	1
Preparation for the Final Theoretical Exam	1	5	5
Final Theoretical Exam	1	1	1
		Total Workload	122
		Total Workload / 30	122/30
		ECTS Credits	~4

NEAR EAST UNIVERSITY FACULTY OF DENTISTRY
COMMITTEE OUTLINE

Course Code	Course Type	Committee Code	Committee Name
DTC100	Compulsory	BMS2	Tissue and Embryology

Theoretical Course Hour	Practical Course Hour	ECTS	Committee Supervisor
67	6	5	

Aim of the Committee

Teaching the general characteristics and embryology of different tissue types in the human body, giving information about the general structure of muscles and joints, introducing the muscles and joints in the head and neck region, explaining the general anatomy of the nervous system and the physiological and biophysical mechanisms related to these systems.

Learning Outcomes		
LO 1	*After the completion of this committee, student will be able to ...*	recognize tissues, counts and distinguishes histological features of basic tissue types.
LO 2		describe the electrical model of the cell membrane, explain the principles of visualization of electrical activity.
LO 3		explain the biochemical reactions occurring in and around the cell and lists their roles in the organism.
LO 4		recognize the anatomy and biochemical structure of muscles and joints.
LO 5		define the general working principle of muscle and nervous systems.
LO 6		define embryologic structures, developmental stages and associated anomalies.
LO 7		list the basic principles of heredity.

Committee Outline

Department	Subject Title	Hour
Histology and Embriology	Epithelial tissue, surface epithelium, glandular epithelium	2
Biophysics	Membrane model and origin of membrane potential	1
	Properties of excitable membranes	1
	Ion channels and ion exchange kinetics	1
Histology and Embriology	Connective tissue	3
	Blood tissue	2
Biochemistry	Enzymes	3
	Extracellular matrix biochemistry	2
Anatomy	General information of joints, upper and lower extremity joints	1
	Joints of the cranium and jaw joint	2
Histology and Embriology	Types of cartilage tissue	1
Biophysics	Fundamentals of radiation biophysics and radiation hazards	2
	Imaging techniques	2
Histology and Embriology	Bone tissue	2
	Muscle tissue	1
Physiology	Striated muscle physiology	2
	Smooth muscle physiology	1
Biophysics	Mechanics of muscle contraction and EMG	1
Anatomy	General information about muscles	1
	Neck muscles	2
	Muscles of the face and masticatory muscles	2
Biochemistry	Muscle tissue biochemistry	2
Physiology	Nervous tissue and nervous system	1
	Nerve tissue physiology	1
	Central and peripheral nerve physiology	1
	Synaptic transmission	2
	Nerve tissue mediators	1
	General characteristics of the autonomic nervous system	1

Biophysics	Action potential in the nerve cell and EEG	2
	Electrical signal recording	1
Histology and Embriology	Introduction to embryology and terminology	1
	Gametogenesis Oogenesis and ovarian cycle	1
	Gametogenesis Spermatogenesis	1
	The beginning of human development: Week 1	1
	Bilaminar germ disk formation: Week 2	1
	Formation of germ layers: Week 3	1
	Fetus and placenta	1
	Multiple pregnancy, conjoined and parasitic twins	1
	Human structural defects, teratogens	1
Medical Biology and Genetics	Central dogma and DNA replication	2
	Chromosal anomalies	2
	Mendelian inheritance	2
	Nonmendelian inheritance	2
	Molecular basis of diseases and cancer genetics	2
Biochemistry	Biochemistry of inorganic compounds	1

Learning and Teaching Techniques of the Committee					
☑	Expression	☐	Experiment	☐	Project Design / Management
☑	Discussion	☑	Practice / Implementation	☐	Preparing / Presenting Reports
☑	Question & Answer	☐	Case Study	☐	Team / Group Work
☐	Observation	☐	Problem / Problem Solving	☐	Brainstorming

Committee References	
1	Nelson D. L., Cox M.M. Lehninger (2004). Biyokimyanın İlkeleri. Palme Yayınevi.
2	Murray R. K et all (2003). Harper's Illustrated Biochemistry. Lange Medical Books/McGraw-Hill Medical Publishing Division
3	Tellingen C. V (2001). Biochemistry. Louis Bolk Instituut.
4	Stanford Jr. Al (2013). Foundations of Biophysisc. Academic Press, New York.
5	Guyton and Hall (2015). Textbook of Medical Physiology. Elsevier
6	Neil A. Campbell, Jane B. Reece. (2011) Campbell biology. 9th ed. publishing as Pearson Benjamin Cummings, 1301 Sansome St., San Francisco
7	Chandar, Nalini & Viselli, S (2010) Cell and Molecular Biology Lippincott's illustrated reviews. Lippincott Williams & Wilkins, a Wolters Kluwer business. Baltimore, Philadelphia
8	Reece JB. (2011) Campbell biology. 9th ed. Pearson Education, San Francisco, CA
9	Brooker, R J.(2019)Concepts of genetics . Third edition. McGraw-Hill Education, New York
10	Drake R.L. (2018) Grays Anatomi Öğrenciler için, 3. Baskı, Nobel Tıp Kitapevi
11	Waschke J. (2016) Sobotta Anatomi Konu Kitabı, Güneş Tıp Kitapevi

Quantification and Consideration					
☑	Attendance	☐	Clinical Rotation	☐	Project
☐	Laboratory	☐	Homework	☐	Midterm exam
☑	Practical / Implementation	☐	Presentation	☑	Committee Exam

Contribution of Learning Outcome to Program Competencies													
	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8	PC 9	PC 10	PC 11	PC 12	PC 13
LO 1	2	4	1	1	1	1	1	1	1	1	1	1	1
LO 2	2	3	1	1	1	1	1	1	1	1	1	1	1
LO 3	2	3	1	1	1	1	1	1	1	1	1	1	1
LO 4	2	3	1	1	1	1	1	1	1	1	1	1	1
LO 5	2	3	1	1	1	1	1	1	1	1	1	1	1
LO 6	2	3	1	1	1	1	1	1	1	1	1	1	1
LO 7	2	2	1	1	1	1	1	1	1	1	1	1	1

Contribution Level:	1: No	2: Poor	3: Moderate	4: Good	5: Very Good

Workload and ECTS Calculation			
Educational Tools	**Amount**	**Duration (Hour)**	**Total Workload (Hour)**
Theoretical Course Hour	67	1	67
Practical Course Hour	6	1	6
Preparation for the Theoretical Course	67	0.5	33.5
Preparation for the Practical Course	6	0.5	3
Preparation for the Committee Exam	1	20	20
Committee Exam	1	1	1
Preparation for the Final Theoretical Exam	1	10	10
Final Theoretical Exam	1	1	1
		Total Workload	142
		Total Workload / 30	142/30
		ECTS Credits	~5

NEAR EAST UNIVERSITY FACULTY OF DENTISTRY
COMMITTEE OUTLINE

Course Code	Course Type	Committee Code	Committee Name
DTC100	Compulsory	BMS3	Cardiovascular and Respiratory Systems

Theoretical Course Hour	Practical Course Hour	ECTS	Committee Supervisor
46	3	4	

Aim of the Committee
Introducing the cardiovascular system and respiratory system at the tissue and organ level, explaining the properties and functions of the elements involved in these systems.

Learning Outcomes		
LO 1	*After the completion of this committee, student will be able to ...*	name the basic anatomical structures of the respiratory and circulatory system.
LO 2		list the textural properties of the structures that make up the respiratory and circulatory systems.
LO 3		recognize blood cells and lists their functions.
LO 4		define the functioning mechanisms of respiratory and circulatory systems.

Committee Outline

Department	Subject Title	Hour
Biochemistry	Water and water metabolism	2
	Blood proteins	2
Physiology	The functions and physical and chemical properties of blood	1
Histology and Embryology	Peripheral blood cells	2
Physiology	Erythrocyte function	1
	Leukocyte functions	2
	Functions of platelets and clotting	1
	Blood groups transfusion reactions	1
Histology and Embryology	Histology of heart and blood vessels	2
Physiology	Physiological properties of the cardiac muscle	1
	Cardiac cycle and pressure-volume loop analysis	1
Biophysics	Cardiac action potential and ECG	1
Anatomy	Heart, pericardium	3
	Mediastinum, Major Vessels	1
Biophysics	Hemodynamic principles	2
Physiology	Hemodynamics and general principles of circulation	1
	Regulation of arterial blood pressure	1
	Shock	1
	Special circulatory systems	1
Histology and Embryology	Primary lymphoid organs	1
	Secondary lymphoid organs	1
Anatomy	Lymphoid system	1
Histology and Embryology	Respiratory system	2
Physiology	Introduction to respiratory physiology, respiratory mechanics	2
Anatomy	Nose and sinus paranasal sinuses	2
	Pharynx	1
	Larynx	1
	Trachea, lungs and pleura	1
	Diaphragm	1
	Thoracic wall	1

Physiology	Gas exchange in the lungs, ventilation-perfusion relationships	1
	Respiratory cycle	1
	Regulation of respiration	1
Anatomy	Root of the neck	1
Biophysics	Perception and psychophysical laws	1

Learning and Teaching Techniques of the Committee					
☑	Expression	☐	Experiment	☐	Project Design / Management
☑	Discussion	☑	Practice / Implementation	☐	Preparing / Presenting Reports
☑	Question & Answer	☐	Case Study	☐	Team / Group Work
☑	Observation	☐	Problem / Problem Solving	☐	Brainstorming

Committee References	
1	Nelson DL, Cox MM. (2017) Lehninger Principles of Biochemistry. 7th Ed. WH Freeman and Company
2	Rodwell VW, Bender D, Botham KM, Kennelly PJ, Weil PA. (2003). Harper's Illustrated Biochemistry. 31th Ed. McGraw Hill LLC
3	Tellingen CV (2001). Biochemistry. Louis Bolk Instituut, Driebergen
4	Stanford Jr. Al (2013). Foundations of Biophysisc. Academic Press, New York
5	Guyton and Hall (2015). Textbook of Medical Physiology. 13 th Ed. Elsevier
6	Chandar N, Viselli S (2010) Cell and Molecular Biology. Wollters Kluwer Health/Lippincott Williams & Wilkins. Baltimore, Philadelphia
7	Reece JB. (2011) Campbell biology. 9th ed. Pearson Education, San Francisco, CA
8	Brooker R. J.(2019) Concepts of genetics . Third edition. McGraw-Hill Education, New York
9	Drake R.L. (2018) Grays Anatomi Öğrenciler için. 3. Baskı. Nobel Tıp Kitapevi
10	Waschke J. (2016) Sobotta Anatomi Konu Kitabı. Güneş Tıp Kitapevi

Quantification and Consideration					
☑	Attendance	☐	Clinical Rotation	☐	Project
☐	Laboratory	☐	Homework	☐	Midterm exam
☑	Practical / Implementation	☐	Presentation	☑	Committee Exam

Contribution of Learning Outcome to Program Competencies													
	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8	PC 9	PC 10	PC 11	PC 12	PC 13
LO 1	2	3	1	1	1	1	1	1	1	1	1	1	1
LO 2	3	2	1	1	1	1	1	1	1	1	1	1	1
LO 3	2	2	1	1	1	1	1	1	1	1	1	1	1
LO 4	2	2	1	1	1	1	1	1	1	1	1	1	1
Contribution Level:				1: No		2: Poor		3: Moderate		4: Good		5: Very Good	

Workload and ECTS Calculation			
Educational Tools	**Amount**	**Duration (Hour)**	**Total Workload (Hour)**
Theoretical Course Hour	46	1	46
Practical Course Hour	3	1	3
Preparation for the Theoretical Course	46	0.5	23
Preparation for the Practical Course	3	0.5	1.5
Preparation for the Committee Exam	1	25	25
Committee Exam	1	1	1
Preparation for the Final Theoretical Exam	1	5	5
Final Theoretical Exam	1	1	1
		Total Workload	106
		Total Workload / 30	106/30
		ECTS Credits	~4

NEAR EAST UNIVERSITY FACULTY OF DENTISTRY
COMMITTEE OUTLINE

Course Code	Course Type	Committee Code	Committee Name
DTC100	Compulsory	BMS4	Gastrointestinal System and Metabolism

Theoretical Course Hour	Practical Course Hour	ECTS	Committee Supervisor
57	6	4	

Aim of the Committee
Introducing the gastrointestinal system at the tissue and organ level, explaining the properties of the structures and organs involved in this system in terms of biochemical, physiological, histological and anatomical aspects, explaining digestion and absorption metabolism.

Learning Outcomes		
LO 1	*After the completion of this committee, student will be able to ...*	recognize the organs and structures of the gastrointestinal system at macroscopic and microscopic level.
LO 2		list the functions of the gastrointestinal system.
LO 3		relate the components of the gastrointestinal tract to biochemical absorption mechanisms.
LO 4		explain the metabolism of basic organic compounds.

Committee Outline

Department	Subject Title	Hour
Histology and Embryology	Pharyngeal complex, development of the head and neck	2
Physiology	Introduction to digestive physiology, mastication and deglutition	1
Histology and Embryology	Oral cavity and associated structures	1
Biochemistry	Oral Cavity and associated structures	2
Physiology	Gastrointestinal motility	1
Biochemistry	What is Nutrition? Digestion, Absorption, and Transport of Nutrients	1
	Introduction to vitamins	1
	Vitamins, water-soluble vitamins	2
	Vitamins, fat-soluble vitamins	2
	Bioenergetics	1
Physiology	Secretory functions of the gastrointestinal system	1
	Structures, contents and functions of the saliva	1
	Taste perception and sensory receptors	1
Anatomy	Esophagus and Stomach	1
	Duedonum, Jejunum, Ileum	1
	Large Intestine	1
	Liver and Gall Bladder	1
	Pancreas and Spleen	1
Histology and Embryology	Esophagus and stomach histology	1
	Small and large intestine histology	1
	Liver and pancreas histology	2
Biochemistry	Digestion and Absorption of Carbohydrates	1
	Glycolysis and TCA cycle	1
	Glycogenesis and glycogenolysis	1
	Other ways of carbohydrate metabolism	3
Physiology	Gastrointestinal digestion	1
	Gastrointestinal absorption	1
Biochemistry	Digestion and absorbtion of the lipits	3
	Synthesis and Beta oxidation of fatty acids	2
	Cholesterol metabolism	1
Anatomy	Portal System & Vessels & Nerves of GIS	2
	Peritoneum, Omentum Majus & Minus	1
Biochemistry	Disorders of the fat and cholestrol metabolism	2
	Ketone bodies and alcohol metabolism	1
	Digestion and Absorption of Proteins	1

	Biogenamins	1
Anatomy	Posterior Abdominal Wall & Great Vessels	1
	Anterior Abdominal Wall & Inguinal Canal	2
Biochemistry	Protein metabolism	2
	Amino acid metabolism	2
	Digestive hormones	2

Learning and Teaching Techniques of the Committee					
☑	Expression	☐	Experiment	☐	Project Design / Management
☑	Discussion	☑	Practice / Implementation	☐	Preparing / Presenting Reports
☑	Question & Answer	☐	Case Study	☐	Team / Group Work
☑	Observation	☐	Problem / Problem Solving	☐	Brainstorming

Committee References	
1	Nelson DL, Cox MM. (2017) Lehninger Principles of Biochemistry. 7th Ed. WH Freeman and Company
2	Rodwell VW, Bender D, Botham KM, Kennelly PJ, Weil PA. (2003). Harper's Illustrated Biochemistry. 31th Ed. McGraw Hill LLC
3	Tellingen CV (2001). Biochemistry. Louis Bolk Instituut, Driebergen
4	Stanford Jr. Al (2013). Foundations of Biophysisc. Academic Press, New York
5	Guyton and Hall (2015). Textbook of Medical Physiology. 13 th Ed. Elsevier
6	Chandar N, Viselli S (2010) Cell and Molecular Biology. Wollters Kluwer Health/Lippincott Williams & Wilkins. Baltimore, Philadelphia
7	Reece JB. (2011) Campbell biology. 9th ed. Pearson Education, San Francisco, CA
8	Brooker R. J.(2019) Concepts of genetics . Third edition. McGraw-Hill Education, New York
9	Drake R.L. (2018) Grays Anatomi Öğrenciler için, 3. Baskı. Nobel Tıp Kitapevi
10	Waschke J. (2016) Sobotta Anatomi Konu Kitabı. Güneş Tıp Kitapevi

Quantification and Consideration					
☑	Attendance	☐	Clinical Rotation	☐	Project
☐	Laboratory	☐	Homework	☐	Midterm exam
☑	Practical / Implementation	☐	Presentation	☑	Committee Exam

Contribution of Learning Outcome to Program Competencies													
	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8	PC 9	PC 10	PC 11	PC 12	PC 13
LO 1	2	3	1	1	1	1	1	1	1	1	1	1	1
LO 2	2	3	1	1	1	1	1	1	1	1	1	1	1
LO 3	3	3	1	1	1	1	1	1	1	1	1	1	1
LO 4	2	2	1	1	1	1	1	1	1	1	1	1	1
Contribution Level:				1: No		2: Poor		3: Moderate		4: Good		5: Very Good	

Workload and ECTS Calculation			
Educational Tools	**Amount**	**Duration (Hour)**	**Total Workload (Hour)**
Theoretical Course Hour	57	1	57
Practical Course Hour	6	1	6
Preparation for the Theoretical Course	57	0.5	28.5
Preparation for the Practical Course	6	0.5	3
Preparation for the Committee Exam	1	10	10
Committee Exam	1	1	1
Preparation for the Final Theoretical Exam	1	5	5
Final Theoretical Exam	1	1	1
		Total Workload	111.5
		Total Workload / 30	111.5/30
		ECTS Credits	~4

NEAR EAST UNIVERSITY FACULTY OF DENTISTRY
COMMITTEE OUTLINE

Course Code	Course Type	Committee Code	Committee Name
DTc100	Compulsory	BMS5	Urogenitale and Endocrine Systems

Theoretical Course Hour	Practical Course Hour	ECTS	Committee Supervisor
45	9	3	

Aim of the Committee
Biochemical, anatomical, physiological, and histological explanation of the functional mechanisms of the urogenitale system in general, the role of hormones and their place in body control.

Learning Outcomes		
LO 1	*After the completion of this committee, student will be able to ...*	define the organs and structures of the urogenital and endocrine systems at macroscopic and microscopic level.
LO 2		list the functions of urogenital and endocrine systems.
LO 3		list the biochemical properties of fluid-electrolyte balance and acid-base balance.
LO 4		define the biochemical structures and physiological functions of endocrine system hormones.

Committee Outline

Department	Subject Title	Hour
Histology and Embryology	Urinary system	2
Biochemistry	Physiology of the adrenal gland hormones	2
Physiology	Introduction to urinary system physiology and renal circulation	1
Anatomy	Kidneys, Ureters	2
Physiology	Urinary concentration and excretion	1
	Reabsorption, secretion and clearance consept in renal tubules	1
	Acid-base balance	1
Anatomy	Bladder, Urethra	1
	Pelvis, Perineum	2
Histology and Embryology	The Female reproductive system	2
Anatomy	Female Genital Organs	2
Physiology	Physiology of the female genital system hormones	2
Histology and Embryology	The Male reproductive system	2
Anatomy	Male Genital Organs	2
Physiology	Physiology of the male genital system hormones	2
Histology and Embryology	Endocrine system	2
Anatomy	Thyroid, Parathyroid Glands, Adrenal Glands and Thymus	1
Physiology	Hormones and mechanism of action	1
Biochemistry	Control of the metabolism and hormone biochemistry	1
Physiology	Hormones of Pituitary Gland and Hypothalamus	1
	Phsiology of the thyroid hormones	1
Biochemistry	Pituitary and hypothalamus hormones	2
	Thyroid hormones	2
Physiology	Regulation of calcium metabolism	1
	Physiology of the endocrine pancreas	1
	Physiology of the adrenal gland hormones	1
Biochemistry	Sex hormones	2
	Calcium and phosphate biochemistry	2
	Hormones of the adrenal medulla and cortex	2

Learning and Teaching Techniques of the Committee					
☑	Expression	☐	Experiment	☐	Project Design / Management
☑	Discussion	☑	Practice / Implementation	☐	Preparing / Presenting Reports
☑	Question & Answer	☐	Case Study	☐	Team / Group Work

☑	Observation	☐	Problem / Problem Solving	☐	Brainstorming

Committee References	
1	Nelson DL, Cox MM. (2017) Lehninger Principles of Biochemistry. 7th Ed. WH Freeman and Company
2	Rodwell VW, Bender D, Botham KM, Kennelly PJ, Weil PA. (2003). Harper's Illustrated Biochemistry. 31th Ed. McGraw Hill LLC
4	Tellingen CV (2001). Biochemistry. Louis Bolk Instituut, Driebergen
5	Stanford Jr. Al (2013). Foundations of Biophysisc. Academic Press, New York
6	Guyton and Hall (2015). Textbook of Medical Physiology. 13 th Ed. Elsevier
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8	Reece JB. (2011) Campbell biology. 9th ed. Pearson Education, San Francisco, CA.
9	Brooker R. J.(2019) Concepts of genetics . Third edition. McGraw-Hill Education, New York
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11	Waschke J. (2016) Sobotta Anatomi Konu Kitabı. Güneş Tıp Kitapevi

Quantification and Consideration					
☑	Attendance	☐	Clinical Rotation	☐	Project
☐	Laboratory	☐	Homework	☐	Midterm exam
☑	Practical / Implementation	☐	Presentation	☑	Committee Exam

Contribution of Learning Outcome to Program Competencies													
	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8	PC 9	PC 10	PC 11	PC 12	PC 13
LO 1	2	3	1	1	1	1	1	1	1	1	1	1	1
LO 2	2	3	1	1	1	1	1	1	1	1	1	1	1
LO 3	2	3	1	1	1	1	1	1	1	1	1	1	1
LO 4	2	2	1	1	1	1	1	1	1	1	1	1	1
Contribution Level:				1: No		2: Poor		3: Moderate		4: Good		5: Very Good	

Workload and ECTS Calculation			
Educational Tools	**Amount**	**Duration (Hour)**	**Total Workload (Hour)**
Theoretical Course Hour	45	1	45
Practical Course Hour	9	1	9
Preparation for the Theoretical Course	45	0.5	22.5
Preparation for the Practical Course	9	0.5	4.5
Preparation for the Committee Exam	1	10	10
Committee Exam	1	1	1
Preparation for the Final Theoretical Exam	1	5	5
Final Theoretical Exam	1	1	1
		Total Workload	98
		Total Workload / 30	98/30
		ECTS Credits	~3

NEAR EAST UNIVERSITY FACULTY OF DENTISTRY
COMMITTEE OUTLINE

Course Code	Course Type	Course Name
DPC100	Compulsory	Year 1 Practical Committee

Theoretical Course Hour	Practical Course Hour	ECTS	Lecturer
0	80	10	

Aim of the Course
Developing 3-dimensional thinking, cognitive and psychomotor skills of students by using different materials; examining of the crown-root morphology of permanent teeth and the relationships of teeth in dental arch; teaching the physical and chemical properties and manipulation of materials used in dental laboratory.

Learning Outcomes		
LO 1	*After the completion of this committee, students will be able to ...*	identify the teeth according to notation systems
LO 2		distinguish permanent teeth according to crown and root morphology
LO 3		carve a 3D model of permanent teeth by using different materials
LO 4		position the permanent teeth in dental arch and construct the contact relationships of teeth on model
LO 5		manipulate different dental materials considering their properties
LO 6		evaluate the performance of their peers with their teammates with the help of certain criteria given

Course Outline

Department	Subject Title	Hour
Prosthodontics	Manipulation of maxillary central and lateral	4
	Manipulation of mandibular central and lateral	4
	Manipulation of maxillary and mandibular canines	4
	Manipulation of maxillary premolars	4
	Manipulation of mandibular premolars	4
	Manipulation of maxillary first molar	8
	Manipulation of mandibular first molar	8
	Manipulation of maxillary and mandibular second molars	4
	Manipulation of anterior dental arch	4
	Manipulation of posterior dental arch	4
	Manipulation of dental plaster	4
	Manipulation of dental wax	4
	Manipulation of acrylic resin	8
	Manipulation of dental wire	4
	Quizzes	8
	Peer evaluation by using rubrics	4

Learning and Teaching Techniques of the Committee					
☑	Expression	☐	Experiment	☐	Project Design / Management
☐	Discussion	☑	Practice / Implementation	☐	Preparing / Presenting Reports
☐	Question & Answer	☐	Case Study	☑	Team / Group Work
☑	Observation	☐	Problem / Problem Solving	☐	Brainstorming

Committee References	
1	Nelson SJ (2015). Wheeler's Dental Anatomy, Physiology and Occlusion, Elsevier, 10th ed.
2	Demonstration videos
3	Lecture notes

Quantification and Consideration					
☑	Attendance	☐	Clinical Rotation	☑	Peer Evaluation

☑	Laboratory	☑	Homework	☑	Quiz
☑	Practical / Implementation	☐	Presentation	☑	Final Exam

Contribution of Learning Outcome to Program Competencies													
	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8	PC 9	PC 10	PC 11	PC 12	PC 13
LO 1	2	2	1	1	1	1	1	1	1	1	1	1	1
LO 2	2	2	1	1	1	1	1	1	1	1	1	1	1
LO 3	2	1	1	3	1	2	1	1	1	1	1	1	1
LO 4	2	1	1	1	1	2	1	1	1	1	1	1	1
LO 5	2	1	1	3	1	1	1	1	1	1	1	1	1
LO 6	1	1	1	1	1	1	1	1	1	1	1	3	1
Contribution Level:				1: No		2: Poor		3: Moderate		4: Good		5: Very Good	

Workload and ECTS Calculation			
Educational Tools	**Amount**	**Duration (Hour)**	**Total Workload (Hour)**
Practical course hours	20	4	80
Preparation for the course	20	2	40
Homework	20	8	160
Preparation for the Final Practical Exam	1	10	10
Final Practical Exam	1	3	3
		Total Workload	293
		Total Workload / 30	293/30
		ECTS Credits	~10

NEAR EAST UNIVERSITY FACULTY OF DENTISTRY
COMMITTEE OUTLINE

Course Code	Course Type	Course Name
ITE100	Compulsory	Information Technologies in Dentistry

Theoretical Course Hour	Practical Course Hour	ECTS	Lecturer
14	0	2	

Aim of the Course
Raising awareness and informing students about the basic concepts of information technologies.

Learning Outcomes		
LO 1	*After the completion of this committee, students will be able to ...*	use modern and basic information technologies effectively.
LO 2		explain the basic concepts of information technologies.
LO 3		realize the importance of data management in electronic environment.
LO 4		identify components that are important for privacy.
LO 5		discuss the positive and negative aspects of communicating in the virtual environment.
LO 6		explain the concept of web browser and use the browser.
LO 7		explain the basic concepts of programming.

Course Outline		
Department	**Subject Title**	**Hour**
Multidisciplinary	The place of information technologies in daily life	2
	Communication technologies and collaboration	2
	Computer systems, file management	2
	Privacy, ethics and security, digital citizenship	2
	Effective search engine use and research	2
	Academic mail, Google Drive usage and settings	2
	Web publishing tools	2
	Visual processing programs	2
	Word processing programs	2
	Presentation programs	2
	Spreadsheet programs	2
	Audio and video processing programs	2
	Dentistry and web literacy	2
	Cloud systems and dentistry applications	2

Learning and Teaching Techniques of the Committee					
☑	Expression	☐	Experiment	☐	Project Design / Management
☑	Discussion	☐	Practice / Implementation	☐	Preparing / Presenting Reports
☑	Question & Answer	☐	Case Study	☐	Team / Group Work
☐	Observation	☐	Problem / Problem Solving	☐	Brainstorming

Committee References	
1	Lecture notes
2	Online lecture videos

Quantification and Consideration					
☑	Attendance	☐	Clinical Rotation	☐	Peer Evaluation
☐	Laboratory	☐	Homework	☑	Midterm Exam
☐	Practical / Implementation	☐	Presentation	☑	Final Exam

Contribution of Learning Outcome to Program Competencies													
	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8	PC 9	PC 10	PC 11	PC 12	PC 13
LO 1	1	1	1	1	1	1	1	1	1	1	5	1	1
LO 2	1	1	1	1	1	1	1	1	1	1	5	1	1
LO 3	1	1	1	1	1	1	1	1	1	3	5	1	1
LO 4	1	1	1	1	1	1	1	1	1	1	5	1	1
LO 5	1	1	1	1	1	1	1	1	1	1	5	1	1
LO 6	1	1	1	1	1	1	1	1	1	1	5	1	1
LO 7	1	1	1	1	1	1	1	1	1	1	5	1	1
Contribution Level:				1: No		2: Poor		3: Moderate		4: Good		5: Very Good	

Workload and ECTS Calculation			
Educational Tools	**Amount**	**Duration (Hour)**	**Total Workload (Hour)**
Theoretical course hours	14	2	28
Preparation for the theoretical course	14	1	14
Preparation for the midterm exam	8	1	8
Midterm exam	1	1	1
Preparation for the final exam	10	1	10
Final exam	1	1	1
		Total Workload	50
		Total Workload / 30	50/30
		ECTS Credits	~2