**THE REPUBLIC OF TURKEY**

**OKAN UNIVERSITY**

**SCHOOL OF MEDICINE**

**2014-2015 ACADEMIC YEAR**

**MEDEDU101 - FIRST CLASS COURSE CONTENT**

**FALL SEMESTER- COMMITTEE OUTSIDE COURSES**

**ATA101 Atatürk İlkeleri ve İnkılap Tarihi I ( T:2-U:0 ) Kredi:2**

Tarihin tanımı, Türk İnkılâbını öğrenmenin amacı, Osmanlı İmparatorluğu, Fransız İhtilali, Düyun’u Umumiye İdaresi, Trablusgarp Savaşı, Ouchy (Uşi) Barış Antlaşması, Birinci Balkan Savaşı, Londra Barış Antlaşması, İkinci Balkan Savaşı, 1.Birinci Dünya Savaşı, Osmanlı Devleti’nin savaştığı cepheler, Çanakkale ve Gelibolu Cephesi, Wilson Prensipleri, Birinci Dünya Savaşı’nı sona erdiren Ateşkes (Silah bırakma) Anlaşmaları, Mondros Ateşkes Anlaşması, Osmanlı Devleti’nin 623 yıllık süreçte yaşadığı dönemler, İşgal güçlerinin Anadolu’yu işgale başlaması, Zararlı cemiyetler, Ermeni konusu, Faydalı cemiyetler, İstanbul’un işgali, Tutuklamalar ve Malta’ya sürgünler, Mustafa Kemal Paşa’nın İstanbul’da görüştüğü silah arkadaşları, Görüştüğü devlet adamları, Paris Barış Konferansı, I. Dünya Savaşı sonunda imzalanan Barış Antlaşmaları, İzmir’in işgali, Bandırma Vapuru, Samsundaki çalışmalar, Havza Genelgesi, Ulusal Kurtuluş Mücadelesinin Stratejisi, Amasya Tamimi, Erzurum Kongresi, Sivas Kongresi, Diğer illerde yapılan kongreler, Heyeti Temsiliye, 1920 yılının önemli olayları, TBMM’nin açılışı, Ulusal Egemenlik ve Çocuk Bayramı, TBMM, San – Remo Konferansı, Sevr Barış Antlaşması, İç isyanlar (Ayaklanmalar), Hıyanet-i Vataniye Kanunu ve İstiklal Mahkemeleri, İstanbul Harp Divanı, Kurtuluş Savaşı diğer bir söylemle İstiklal Savaşı, Kuvayı millîye (Ulusal Kuvvetler) Dönemi, Muharebeler, Tekalif-i Milliye (Ulusal Yükümlülük) Emirleri, Genel Seferberlik ilanı, Büyük Taarruz ve Başkomutan Muharebesi, Kurtuluş Savaşı, Mudanya Mütarekesi (Ateşkes Anlaşması), Lozan Barış Antlaşması, İstanbul’un Kurtuluşu, Cumhuriyetin ilanını, Saltanatın Kaldırılması, Devrim hareketleri, 1921 Anayasası, Cumhurbaşkanlığı seçimi, Kurulan ilk Türkiye Cumhuriyeti Hükümeti.

**Ders kitabı:**

* Cumhuriyet Yolunun Kilometre Taşları, Okan Üniv. Yayını, Papatya Yayıncılı, 2008.
* Tarihim ve Ben–Ulusal Bağımsızlık Savaşı ve Lozan -İkinci Kitap, Artes Yayını, 2012.
* Tarihim ve Ben–Atatürk İlkeleri ve Devrimleri-Üçüncü Kitap, Artes Yayını.
* Söylev (Nutuk), Hazırlayan Dr. Mehmet Kılıç, Artes Yayınları.

**ENG113 Academic Reading & Writing I (T: 2-U: 2) Kredi: 3**

Unit 1: "Power and Responsibility", Unit 2: "Appearances”, Unit 3: "Growing Up" (What Important Lessons do we Learn as Children?), Unit 4: “Health: How does the Environment affect our Health?”, Medical English: Communication between doctor and patient, doctor and staff, and challenges facing doctors,

**Reference Textbook:**

* Q. Skills for Success/Reading &Writing 4

**HCI101 Health and Cinema (T: 2-U: 0) Kredi: 2**

Watching of health-related movies (14 movies) and making their criticism.

**HMA101 Health Management (T: 2-U: 0) Kredi: 2**

Repeat of management concept and functions, determine the place in health management with practice.

The definition, classification and characteristics of health services.

Characteristics, stages and developments of health care services and institutions.

Health management in Turkey.

**Books and readings;**

* [Introduction to Health Care Management,](https://www.google.com.tr/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0CBsQFjAA&url=http%3A%2F%2Fbooks.google.com%2Fbooks%2Fabout%2FIntroduction_to_Health_Care_Management.html%3Fid%3DxFPH7B_b0u0C&ei=dCeJVdbXJYOnsAGh9KiACA&usg=AFQjCNGpK2bHRz_5Xfn1uJmFTLfngCwu8g&sig2=1ZWYrmhyWlef99nYPoyInw&bvm=bv.96339352,d.bGg)by [Sharon B. Buchbinder](http://www.amazon.com/s/ref=dp_byline_sr_book_1?ie=UTF8&field-author=Sharon+B.+Buchbinder&search-alias=books&text=Sharon+B.+Buchbinder&sort=relevancerank) (Author), [Nancy H. Shanks](http://www.amazon.com/s/ref=dp_byline_sr_book_2?ie=UTF8&field-author=Nancy+H.+Shanks&search-alias=books&text=Nancy+H.+Shanks&sort=relevancerank) (Author), ISBN-13: 978-0763790868  ISBN-10: 0763790869  Edition: 2nd
* Sağlık İşletmelerinde Yönetim, Prof.Dr. Dilaver Tengilimoğlu ve ark., Nobel Yayınları, 2. Baskı, İstanbul, 2009.

**TRD101 Türk Dili I ( T:2-U:0 ) Kredi:2**

Ders izlencesi, Dersin içeriğinin tartışılması, Dilin tanımı, dilin doğuşu, dil-düşünce/dil-edebiyat, dil-iletişim/dil-kültür ilişkisi, İletişim ve öğeleri; iletişim türleri, Beden dili, Dilin türleri ve dünya dilleri, Dünya dilleri içinde Türkçenin yeri, Türkçenin tarihi, Türklerin kullandığı alfabeler, Türkçenin konuşma kuralları; vurgu ve ses sağlığı, Ses bilgisi, olayları ve uyumları, Metin üzerinde konu ve temel ileti saptama, Anlatım biçimleri, öznel ve nesnel anlatımın özellikleri, Paragrafta düşünceyi geliştirme yolları.

**Ders kitabı:**

* Çotuksöken,Y., 2008,Üniversite Öğrencileri İçin Uygulamalı Türk Dili, güncellenmiş baskı, Papatya Yayıncılık, İstanbul.

**KYP001 Career Life (T:0 -U:2 ) Kredi: 1**

Öğrencilerin üniversite eğitimlerinden beklentilerini belirlemelerini, bu süreci daha verimli değerlendirmelerini ve kendilerini geliştirmelerini sağlamaktır. Üniversitenin ilk yıllarından itibaren iş yaşamını tanıyarak eğitimleri boyunca kendilerini bu hayata hazırlayacak olanakları değerlendirmeleri hedeflemektir. (Staj, yarı zamanlı çalışma, seminer/kongre katılımları, proje geliştirme, şirket yarışmaları vb.) Kişisel farkındalık, kendi potansiyelini keşfetmek, tutum ve davranışlarını daha iyi anlamak, üniversite hayatı dinamikleri, iş dünyasına hazır olmak için mezun olmadan yapılması gerekenler, iş dünyasına hazır olmak için geliştirilmesi gereken beceri ve yetkinlikler, hedef koymak, kişisel vizyon oluşturmak, hedefe ulaşmak için inisiyatif (proaktif olmak), bir üniversiteli olarak kişisel imaj, iletişim, iletişim – uygulama, zaman yönetimi, stres yönetimi

**MED 101** **COMMITTEE I**

**Behavioral Science**

This course introduces students behaviour-based knowledges and principles in studying the behaviour of individuals, groups, and societies. This course surveys knowledges stemming from disciplines of psychology, social psychology, health psychology, and medical sociology. A number of topics that are of broad interest and importance are selected, and they are viewed as fundamental issues for behavioural scientists: interpersonal relationships, behaviour at work, and health and illness. This course aims to study basic knowledges and principles stemming from disciplines of psychology, social psychology, health psychology, and medical sociology, and it also aims to examine behaviour of the individual, interpersonal relationships, behaviour at work, health and illness behaviour.

**Medical Biochemistry**

The courses of Medical Biochemistry describes the chemical foundations of the human organism. As the chemistry of living organisms is organized around the C-atom the study of biochemistry must be built upon a study of the fundementals of organic chemistry. The courses attempt to close the gap between organic chemistry and biochemistry. With this aim, a brief knowledge of basic organic chemistry on the chemical bonds, functional groups and chemical reactions of C-compounds is given.

Subsequently, the structures of universal set of small molecules and macromolecules present in cells are described. Since structure is fundemental to everything else the chief concern is the structure-function relation. Basic biochemical knowledge is essential for understanding the biomedical significance and clinical utility. Of all biomolecules, proteins which are the substances of life are ranked first. The structures of these enormously complicated molecules are worked out resting on the basic principles of organic structural theory : the concepts of bond angle and bond length, group size and shape, hydrogen bonding, resonance, acidity and basicity, optical activity, configuration and conformation.

**Medical Biology and Genetics**

Introduction to Medical Biology and Genetics, Biological molecules, Cell, Cellular Structures, Organelles

Cytoskeleton, DNA structure and function, Extracellular matrix, Membrane transport, DNA replication, DNA repair, Recombination, RNA structure, Transcriptional regulation.

**Medical History and Ethics**

* Being a doctor (Conference)
* Principal Features of Medical Ethics.
* WHO Medical Ethics Principles.
* Definition of health professions in medicine.
* Patient’s Rights and Regulations
* Definition of Malpractice.
* Discussion of Malpractice applications with Case studies.
* Anatomy’s masterminds (Andreas Vesalius, Leonardo Da Vinci)
* Hippocrates and Hippocrates medicine
* Galen of Permagon
* Medicine in Middle east
* Turkish Medical Association, Turkish Ministry of Health Central Ethics Committee

**Public Health**

The principles and concepts of Public Health / Review of important health issues / Primary Health Care / Health indicators, demographics / Epidemiology (İn Turkey, Children's health, elderly health, chronic diseases, mental health, sexually transmitted diseases, infectious diseases...) / Environmental Health / nutrition / Development of Health.

**MED 103 COMMITTEE II**

**Behavioral Science**

This course introduces students behaviour-based knowledges and principles in studying the behaviour of individuals, groups, and societies. This course surveys knowledges stemming from disciplines of psychology, social psychology, health psychology, and medical sociology. A number of topics that are of broad interest and importance are selected, and they are viewed as fundamental issues for behavioural scientists: interpersonal relationships, behaviour at work, and health and illness. This course aims to study basic knowledges and principles stemming from disciplines of psychology, social psychology, health psychology, and medical sociology, and it also aims to examine behaviour of the individual, interpersonal relationships, behaviour at work, health and illness behaviour.

**Biophysics**

* Atoms, molecules and matter
* Water as a living environment
* Physical characteristics of membrane structure and function
* Membrane proteins
* Diffusion and facilitated transport: Physical principles
* Diffusion and facilitated transport: Physical principles
* Active transport and secondary active transport

**Medical Biochemistry**

The three-dimensional structure of a protein is an important part of understanding how the protein functions. Proteins are dynamic molecules whose functions almost invariably depend on interactions with other molecules. **Firstly,** the proteins of oxygen transport, hemoglobin and myoglobin are described. **Secondly,** the major connective tissue protein collagen is described. **Thirdly**, the reaction catalysts of biological systems : the enzymes, the most remarkable and highly specialized proteins are are described . **Fourthly**, carbohydrates, the most abundant biomolecules on earth are studied. **Lastly**, lipids a chemically diverse group of compounds with diverse biological functions are described.

**Medical Biology and Genetics**

Genetic codes / tRNA, rRNA, Posttranscriptional regulation, Protein synthesis, Human genome organization, Mutagens, Mutagenesis, DNA repair systems, Genetic control mechanisms.

**Medical History and Ethics**

* Being a doctor (Conference)
* Principal Features of Medical Ethics.
* WHO Medical Ethics Principles.
* Definition of health professions in medicine.
* Patient’s Rights and Regulations
* Definition of Malpractice.
* Discussion of Malpractice applications with Case studies.
* Anatomy’s masterminds (Andreas Vesalius, Leonardo Da Vinci)
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* Galen of Permagon
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**Public Health**

Introduces and focuses the history, issues, function and context of public health, community health, health systems, determinants of health and disease, health economics and Global Health.

Unit 1: Scope and functions of Public Health and Preventive Medicine

Unit 2: Environment-Human-Health Relationship

Unit 3: Health Care Services

Unit 4: Primary Health Care

Unit 5: Social Determinants of Health

Unit 6: Factors Affecting Health Child and Mother Health Status

Unit 7: Health Economics, Basic Definitions

Unit 8: Financing Health Care Services

Unit 9: Introduction to International Public Health

Unit 10: Communicable Disease Control

Unit 11: Nutritional Health

Unit 12: Health Promotion

**Readings:** Oxford Textbook of Public Health (5th edition)

Maxcy-Rosenau Public Health and Preventive Medicine (11th Edition)

**SPRING SEMESTER- COMMITTEE OUTSIDE COURSES**

**ATA102 Atatürk İlkeleri ve İnkılap Tarihi II ( T:2-U:0 ) Kredi:2**

Atatürk İlkeleri ve İnkılap Tarihi ile ilgili temel kavramlar. Sanayi Devrimi ve Fransız Devrimi, Osmanlı Devleti'nin dağılışı (XIX. Yüzyıl), Tanzimat ve İslahat Fermanı, I. Ve II. Meşrutiyet, Trablusgarp ve Balkan Savaşları, I. Dünya Savaşı, Mondros Ateşkes Antlaşması, Wilson İlkeleri, Paris Konferansı, M. Kemal'in Samsun'a çıkışı ve Anadolu'daki Durum, Amasya Genelgesi, Ulusal Kongreler, Mebusan Meclisi'nin açılışı, TBMM'nin Kuruluşu ve İç İsyanlar, Teşkilat-ı Esasi Kanunu, Düzenli Ordu'nun Kuruluşu, I. İnönü Meydan Muharebesi, II. İnönü Meydan Muharebesi, Kütahya – Eskişehir Meydan Muharebesi, Sakarya Meydan Muharebesi, Büyük Taarruz, Kurtuluş Savaşı sırasındaki antlaşmalar, Lozan Antlaşması, Saltanatın Kaldırılması, Doğu Cephesi, Ermeniler ile mücadele ve Gümrü Antlaşması, Batı Cephesi, İnönü Savaşı, Sakarya ve Dumlupınar, Mudanya Antlaşması ve saltanatın sonu, Lozan Barış Konferansı ve Cumhuriyet’in ilanı, Eğitim ve kültür alanında yenilikler, Musul sorunu, Çok partili sistem deneyimi.

**TRD102 Türk Dili II ( T:2-U:0 ) Kredi:2**

Ders izlencesi, Dersin içeriğinin tartışılması, Metin türleri: Öğretici metinler, Metin türleri: Sanatsal metinler, Sözcükte anlam ve anlam olayları, Biçim bilgisi: Ekler ve kökler, Biçim bilgisi: Sözcük türleri ve sözcükte yapı, Yazım kuralları, Noktalama işaretleri, Cümle bilgisi: Cümlenin ögeleri, Cümle bilgisi: Cümle türleri, Anlatım bozuklukları: Sözcük düzeyinde bozukluklar, Anlatım bozuklukları: Cümle düzeyinde bozukluklar.

**Ders kitabı:**

* Çotuksöken,Y., 2008,Üniversite Öğrencileri İçin Uygulamalı Türk Dili, güncellenmiş baskı, Papatya Yayıncılık, İstanbul.

**ENG114 Academic Reading & Writing II ( T:2-U:2 ) Kredi:3**

Unit 5: "The Scıence of Food: Should Science Influence what we Eat", Unit 6:"The Scıence of Food: Should Science Influence what we Eat", Unit 7: "Work and Education: Does School Prepare You for Work?", Unit 8: "Discovery: Is Discovery always a Good Thing?", Medical English Reading/Vocabulary: Chronic etc. Acute Illnesses, Reading/Vocabulary: Cancer, Reading/Vocabulary: Diabetes, Reading/Vocabulary: Heart Dısease, Medical English

Side Presentation: Cosmetic Surgery, Reading Articles on Cosmetic Surgery, Vocabulary: Medical Terminology, 2.Slide Presentatıon on Euthanasia, Reading Articles on Euthanasia

Vocabulary: Medical Terminology, 3.Slıde Presentatıon on Organ Donation, Reading Articles on Organ Donation.

**Reference Textbook:**

* Q: Skills for Success / Reading & Writing 4

**MED 102 COMMITTEE III**

**Anatomy**

Introduction and termination of the Anatomy, General consideration of the bones and muscles, Skull:Neurocranium, Skull: Splanchnocranium, Vertabral column, Upper extremity and thorax, Lower extremity and pelvis

**Behavioral Science**

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**Biostatistics**

* Describe the characteristics of different types of variables (e.g. nominal, ordinal, continuous, etc.)
* Calculate and interpret descriptive statistics: mean median, mode, range, percentiles, variance, standard deviation, etc.
* Coefficient of variation
* Probability theory
* Select appropriate z and t values based on the width of a desired confidence interval
* Differentiate between the “null” and “alternative” hypothesis.
* Understand and interpret parameters used in hypothesis testing (level of significance, p-value).
* Calculate and interpret sample hypotheses: a) One-sample - continuous outcome
* Calculate and interpret 2 sample hypotheses:

a) 2 sample – continuous outcome

b) 2 sample dichotomous outcome

* Calculate and interpret non-parametric tests:

a) 2 independent samples – Mann Whitney U Test

b) Paired samples – Wilcoxon Test

**Histology and Embryology**

Cell Structure, Histochemical Methods and Basic Principles, Cell Structure: Organelles and Inclusions

Cell Structure: Cytoskeleton, Cell Cycle, Division and Cell Death, Gametogenesis, Early Embryogenesis,

Epithelial Tissue Histology, Connective Tissue, Muscle Tissue, Nervous Tissue

**Medical Biochemistry**

Vitamins and minerals are required for a variety of biochemical functions including enzymatic action. **Firstly**, fat-soluble and water soluble vitamins are described individually. **Secondly** biological significance of macrominerals : calcium, magnesium, phosphorus, sodium, potassium, chloride and trace elements: iron, copper and zinc are described. **Thirdly**, biological energy transductions, the chemical and physical laws that govern biological processes and the central role of high energy phosphates in energy capture and transfer are described. **Lastly,** the composition, architecture and the remarkable dynamic features of membranes are described.

**Medical Biology and Genetics**

Mendelian genetics-I, Mendelian genetics-II, Non-Mendelian genetics, DNA Technology, Molecular techniques, Population genetics, Chromosomes, Chromosome abnormalities and disorders, Genetic counselling.

**Laboratory Courses:**

* Introduction to Medical Biology and Genetics instruments.
* DNA isolation from whole blood.

**Medical History and Ethics**

* Being a doctor (Conference)
* Principal Features of Medical Ethics.
* WHO Medical Ethics Principles.
* Definition of health professions in medicine.
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* Definition of Malpractice.
* Discussion of Malpractice applications with Case studies.
* Anatomy’s masterminds (Andreas Vesalius, Leonardo Da Vinci)
* Hippocrates and Hippocrates medicine
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* Medicine in Middle east
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**Physiology**

* Introduction and Homeostasis
* The Cell and Its Functions
* Body Fluids and Compartments
* Cell Membrane and Transport of Substances
* Membrane Potentials and Action Potentials – I
* Membrane Potentials and Action Potentials – II

**MED 104 COMMITTEE IV**

**Anatomy**

Muscles and joints general consideration, Superficial back musc.and posterior aspect of arm and shoulder joint, Anterior aspect of the arm and forearm pectoral region, Axilla, and brachial plexus, Posterior aspect of the forearm,elbow joint, Hand, wrist joint, Gluteal region and hip join, Poste.aspect of the thigh and knee joint, Anterior and medial aspect of thigh, Anterior and .lateral asp.of leg and ank.joint, Posterior aspect of the leg and popliteal fossa, Foot, Anterior and lateral aspect of the neck, Temporal and parotid region, Infratemporal and pterygopalatine fossa, Suboccipital region and deep muscles of the back.

**Behavioral Science**

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* Coefficient of variation
* Probability theory
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* Differentiate between the “null” and “alternative” hypothesis.
* Understand and interpret parameters used in hypothesis testing (level of significance, p-value).
* Calculate and interpret sample hypotheses: a) One-sample - continuous outcome
* Calculate and interpret 2 sample hypotheses:

a) 2 sample – continuous outcome

b) 2 sample dichotomous outcome

* Calculate and interpret non-parametric tests:

a) 2 independent samples – Mann Whitney U Test

b) Paired samples – Wilcoxon Test

**First Aid**

Introduction to first Aid, Victim Assessment (Checking an unconscious victim / Checking conscious victims), Respiratory Emergencies (Conscious choking- Rescue breathing), Cardiac Emergencies  and Unconscious choking(Causes of cardiac difficulties, Method and procedure of CPR / Adult/ Child/ Infant), Bleeding and Shock , Injuries (Soft tissue, Musculoskeletali Injuries to extremities, Splinting, Head, Neck, Back, Chest, Abdomen, and Pelvic injuries), Sudden Illness (Fainting, Diabetic emergencies, Seizure, Shock or transient ischemic attack, Care), Poisoning (Definition, Causes, Ingested poisons, Inhaled poisons, Contact Poisons, Substance abuse and misuse), Bites and Stings,  Heat and cold related emergencies

**Reference Textbook:**

Okan Üniversitesi İlkyardım Eğitim Merkezi ders notları.

**Histology and Embryology**

Cell Structure, Histochemical Methods and Basic Principles, Cell Structure: Organelles and Inclusions

Cell Structure: Cytoskeleton, Cell Cycle, Division and Cell Death, Gametogenesis, Early Embryogenesis,

Epithelial Tissue Histology, Connective Tissue, Muscle Tissue, Nervous Tissue

**Medical Biology and Genetics**

Genetic diseases, Cell division, Cell cycle regulation, Mitosis, meiosis, Cell death and regulation, Gene threaphy, Techniques used in Genetics, Biotechnology, Cancer genetics, Immunogenetics.

**Laboratory Courses:**

* Restriction Enzyme usage.
* Polymerase Chain Reaction.

**Medical Biochemistry**

**Firstly,** the solute transport mechanisms and transmission of various signals across membranes are described. **Secondly**, the enzymes functioning in biological oxidation are described. **Thirdly,** the elements of respiratory chain and the process of oxidative phosphorylation are described

**Physiology**

* Physiology of Skeletal Muscle
* Neuromuscular Transmission and Excitation-Contraction Coupling
* Smooth Muscle Physiology
* Synaptic Transmission and Receptors
* Physiology of Nervous System -I- II-III