

## COMMITTEE COURSE CONTENT

**University:** Muğla Sıtkı Koçman University

**Faculty:** Faculty of Medicine/ **Program:** English Program

**Academic Year:** 2022-2023

**Phase:** 1 / **Comitee:** 2 (Cell Sciences)

**Course Code:** MED 1200 / **ECTS:** 11 / **Theoric+Practice Lesson +Laboratory Lesson**

**Course Type :** Compulsory/ **Course Length :** 8 weeks / **Type of Teaching :** Formal/ **Language of Instruction :** English

### **Behavioral Sciences (MED 1005)**

#### **Theoretical:**

1. Human and factors that determine human (2 hour)

#### **Practical:**

2. Sense, Perception, Thought, Memory, Emotion, Affect, Communication and Interaction (2 hour)
3. Social Role and Behavior (2 hour)
4. Theories of psychic and cognitive development: Learning and Behavioral Theory (2 hour)
5. Theories of psychic and cognitive development: Psychodynamic Theory (2 hour)

#### **Practical:**

- 1.

### **Biophysics (MED 100)**

#### **Theoretical:**

1. Biological Effect Mechanism of X- Rays (1 hour)
2. Biomagnetism (2 hour)
3. Heat Transfusion Mechanism on Body and Temperature Control (2 hour)
4. Lasers in Medicine (1 hour)
5. Physical principles of nuclear medicine (1 hour)
6. Radioactivity and Radiation Protection (1 hour)
7. Ultrasound Technics and Blood Flow Rate Measurements (1 hour)

#### **Practical:**

- 1.

### **Biostatistics (MED 1018)**

#### **Theoretical:**

1. Clinical Trials (1 hour)
2. Confidence Interval (1 hour)
3. Measure of Association (1 hour)
4. Normal Distribution (1 hour)
5. Research Design (1 hour)
6. Sampling Distribution (1 hour)
7. SPSS Practice (1 hour)
8. Standardizing Data (1 hour)

#### **Practical:**

- 1.

### **First Aid (MED 1010)**

#### **Theoretical:**

1. Assessment of the event site and environmental control (1 hour)
2. Basic life support (1 hour)
3. Basics of First Aid (1 hour)
4. First aid in animal bites (1 hour)
5. First aid in cases of heat stroke and frostbite (1 hour)
6. First aid in drowning (1 hour)
7. First aid in fractures, dislocations and sprains (1 hour)

8. First Aid in injuries and organ ruptures (1 hour)
9. First aid in poisoning (1 hour)
10. First aid in unconsciousness (1 hour)
11. First Aid practices in bleeding (1 hour)
12. Injured patient transport techniques (1 hour)

**Practical:**

- 1.

**Medical Biochemistry (MED 1001)**

**Theoretical:**

1. Amino acids - Classification - Chemical Structures (2 hour)
2. Biosynthesis of Amino acids (4 hour)
3. Carbohydrates (Structure and (2 hour)
4. Carbohydrates (Structure and Function) (1 hour)
5. Degradation of Glycogen (Glycogenolysis) (2 hour)
6. Disorders of Carbohydrate metabolism (2 hour)
7. Electron Transport Chain (ETC) (2 hour)
8. Galactose & Fructose Metabolism (2 hour)
9. Gluconeogenesis (2 hour)
10. Glycolysis (2 hour)
11. Hexose Metabolism Pathways (2 hour)
12. Krebs Cycle (TCA Cycle) (2 hour)
13. Overview of Carbohydrate metabolism (2 hour)
14. Oxidation of Amino acids (4 hour)
15. Physical & Chemical properties of Amino acids (4 hour)
16. Regulation of Blood Glucose (2 hour)
17. Synthesis Glycogen (Glycogenesis) (2 hour)

**Practical:**

1. Amino acid Assay Methods (2 hour)
2. Reactions of Carbohydrates (2 hour)

**Medical Biology (MED 1017)**

**Theoretical:**

1. Cell cycle (4 hour)
2. Cell Division and Types Mitosis and meiosis (4 hour)
3. Control of Gene Expression (2 hour)
4. DNA replication (4 hour)
5. Nucleic Acids (2 hour)
6. Posttranslational modifications (2 hour)
7. Structure and types of RNA (2 hour)
8. Structure of DNA (2 hour)
9. Transcription (2 hour)
10. Translation (2 hour)

**Practical:**

1. DNA extraction lab. (4 hour)
2. Examination of mitosis division (4 hour)

**Professional Skills (MED 1013)**

**Theoretical:**

- 1.

**Practical:**

1. Ability to stop external bleeding and appropriate handling of the amputated (2 hour)
2. Attaching cervical arms Patient carrying bandage with trauma board Tourniquet application (2 hour)
3. Emergency aid for foreign body in airway (2 hour)
4. Putting on and taking off a mask (2 hour)

**Public Health (MED 1007)**

**Theoretical:**

1. Adolescent health 1 (1 hour)

2. Adolescent health 2 (1 hour)
3. Family Planning Methods (1 hour)
4. History of Our Health System (faraway) (1 hour)
5. History of Our Health System (recent) (1 hour)
6. Introduction to Environmental Health-1 (1 hour)
7. Introduction to Environmental Health-2 (1 hour)
8. Introduction to Family Planning (1 hour)
9. Introduction to Public Health, Description and History-1 (1 hour)
10. Introduction to Public Health, Description and History-2 (1 hour)
11. Public Health Concept and Vision-1 (1 hour)
12. Sickness and Health (1 hour)

**Practical:**

- 1.

**Social Responsibility Project (MED 1019)**

**Theoretical:**

1. Social Responsibility Project (2 hour)
2. Social Responsibility Project (2 hour)

**Practical:**

- 1.

**Other:**

- 1.

**Non- Comitee Courses:**

1. Ataturk's Principles and History of Revolution (ATB 1801) (14 hour)
2. Turkish Language (TDB 1801) (14 hour)
3. Foreign Language (YDB 1831) (24 hour)
4. Elective Course (14 hour)
5. Introduction to Information & Communication Technologies (ENF 1805) (28 hour)