

COMMITTEE COURSE CONTENT

University: Muğla Sıtkı Koçman University

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

Academic Year: 2016-2017

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

Course Code: MED 1200 / **ECTS:** 10 / **Theoric+Practice Lesson +Laboratory Lesson**

Course Type : Compulsory/ **Course Length :** 9 weeks / **Type of Teaching :** Formal/ **Language of Instruction :** English

Behavioral Sciences (MED 1005)

Theoretical:

1. Learning (2 hour)
2. Memory (2 hour)
3. Perception (2 hour)
4. Senses (2 hour)

Practical:

- 1.

Biophysics (MED 1006)

Theoretical:

1. Ballistocardiography (1 hour)
2. Collisions and Airbags (1 hour)
3. Fluids and Blood Pressure (2 hour)
4. Gas Laws, Temperature and Underwater Breathing (1 hour)
5. Heat Transfusion Mechanism on Body and Temperature Control (2 hour)
6. Liquids: Osmosis and Surface Tension (2 hour)
7. Mechanical properties of biological solids (1 hour)

Practical:

- 1.

Biostatistics (MED 1004)

Theoretical:

1. Binomial and Poisson Distributions (2 hour)
2. Continuous Random Variables and Their Expectations and Variances (2 hour)
3. Discrete Random variables and Discrete Distributions (2 hour)
4. Expected Value and Variance of Discrete Random Variables (2 hour)
5. Normal Distributions (2 hour)
6. Point and Interval Estimations (2 hour)
7. Sampling and Sampling Distributions (2 hour)
8. Survival Analaysis and Some Other Statistical Methods in Medicine (2 hour)

Practical:

- 1.

First Aid (MED 1010)

Theoretical:

1. Basics of First Aid.First Aid materials, dressings, bandages and dressing varieties (2 hour)
2. First aid for heatstroke, First Aid in bums (1 hour)
3. First aid in drowning (1 hour)
4. First aid in electric shock (1 hour)
5. First aid in fractures, dislocations and sprains (1 hour)
6. First aid in frostbite and poisoning (1 hour)
7. First Aid in organ ruptures (1 hour)
8. First aid in seizures (1 hour)
9. First Aid practices in bleeding (1 hour)
10. First aid practices in respiratory obstruction (2 hour)

Practical:

1.

Med. Biochemistry (MED 1001)**Theoretical:**

1. Aminoacids - Classification - Chemical Structures (2 hour)
2. Biosynthesis of Aminoacids (4h)
3. Carbohydrates, (Structure and Function) (2 hour)
4. Enzyme kinetics (Enzyme inhibition) (4h)
5. Enzymes - Classification (2 hour)
6. Galactose and Fructose metabolism (1 hour)
7. Glycolysis (2 hour)
8. Glyconeogenesis (2 hour)
9. Hexose Metabolism (2 hour)
10. Overview of Metabolism (2 hour)
11. Oxidation of Aminoacids (4h)
12. Physical & Chemical specifications of Aminoacids Reactions of Aminoacids (4h)
13. Regulation of Blood Glucose (2 hour)
14. Synthesis and degradation of Glycogene (Glycogenesis and Glycogenolysis) (4h)
15. TCA cycle and ETC (6h)

Practical:

1. Aminoacid Assay Methods (2 hour)
2. Enzyme Assay Methods (2 hour)
3. Fermentation (2 hour)
4. Reactions of Carbohydrates (4h)

Medical Biology (MED 1015)**Theoretical:**

1. DNA Isolation (2 hour)
2. Chromosome Structure and Organization (2 hour)
3. Control of Gene Expression (2 hour)
4. DNA repair mechanism (4h)
5. DNA replication (4h)
6. Human genome organization (2 hour)
7. Nucleic Acids (2 hour)
8. Posttranslational modifications (3 hour)
9. Structure and types of RNA (2 hour)
10. The structure of DNA (2 hour)
11. Transcription (5h)

Practical:

1. To show mitosis division at light microscopy (2 hour)

Professional Skills (MED 1013)**Theoretical:**

1.

Practical:

1. Ateş Ölçümü (2 hour)
2. Basic life support First Aid in Respiratory Tract Obstruction (2 hour)
3. Basic life support practices (2 hour)
4. Handwashing skills (2 hour)
5. Sterile glove wearing skills (2 hour)
6. Studying with biological materials (1 hour)

Public Health (MED 1007)**Theoretical:**

1. Adolescent health (2 hour)
2. Family Planning Methods (1 hour)
3. History of Our Health System (recent) (1 hour)
4. History of Our Health System(faraway) (1 hour)
5. Introduction to Environmental Health (2 hour)

6. Introduction to Family Planning (1 hour)
7. Introduction to Public Health, Description and History (2 hour)
8. Public Health Concept and Vision (2 hour)
9. Sickness and Health (1 hour)
10. The Areas for Public Health Practice (1 hour)

Practical:

- 1.

Other:

- 1.

Non- Comitee Courses:

1. Principles of Atatürk and Revolutionary History (ATB 1801) (14 hour)
2. Turkish Language (TDB 1801)
3. Elective Course (14 hour)
4. Foreign Language (ENG 1801) (24 hour)
5. Introduction to Information & Communication Technologies (ENF 1801) (28 hour)