

COMMITTEE COURSE CONTENT

University: Muğla Sıtkı Koçman University

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

Academic Year: 2018-2019

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

Course Code: MED 1200 / **ECTS:** 11 / **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. Biological Effect Mechanism of X-Rays (1 hour)
2. Biomagnetism (2 hour)
3. Collisions and Airbags (1 hour)
4. Gas Laws, Temperature and Underwater Breathing (1 hour)
5. Heat Transfusion Mechanism on Body and Temperature Control (2 hour)
6. Radioactivity and Radiation Protection (1 hour)
7. Ultrasound Technics and Blood Flow Rate Measurements (1 hour)

Practical:

- 1.

Biostatistics (MED 1004)

Theoretical:

1. Binomial Distribution (2 hour)
2. Introduction to Statistical Inference - Part I: Confidence Intervals (2 hour)
3. Introduction to Statistical Inference - Part II: Hypothesis Testing (2 hour)
4. Normal Distribution (2 hour)
5. Predictive Power of Diagnostic Tests, Bayes' Theorem (2 hour)
6. P-value, Type I and II Errors, Power of a Significance Test (2 hour)
7. Random Variables, Expected Values and Variances (2 hour)
8. Sampling Distribution, The Central Limit Theorem, Law of Large Numbers (2 hour)

Practical:

- 1.

First Aid (MED 1010)

Theoretical:

1. Basic life support (1 hour)
2. Basics of first aid. (1 hour)
3. First aid for heatstroke, First Aid in bums (1 hour)
4. First aid in drowning (1 hour)
5. First Aid in Electric Shock (1 hour)
6. First aid in electric shock (1 hour)
7. First aid in fractures, dislocations and sprains (1 hour)
8. First aid in organ ruptures (1 hour)
9. First aid in respiratory tract obstruction (1 hour)
10. First aid in seizures (1 hour)

11. First aid materials, dressings, bandages and dressing varieties (1 hour)
12. First Aid practices in bleeding (1 hour)

Practical:

1.

Medical Biochemistry (MED 1001)

Theoretical:

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

Practical:

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

Medical Biology (MED 1015)

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. Translational (2 hour)
11. DNA Isolation (2 hour)

Practical:

1. Examination of mitosis division (2 hour)

Professional Skills (MED 1013)

Theoretical:

1. Giving an intramuscular and subcutan injection (2 hour)
2. Hand Washing (2 hour)
3. Masking and Sterile Gloving (2 hour)
4. Fever Measurement (2 hour)

Practical:

1.

Public Health (MED 1007)

Theoretical:

1. Introduction to Public Health, Description and History-1 (1 hour)
2. Introduction to Public Health, Description and History-2 (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-1 (1 hour)
6. Introduction to Environmental Health-2 (1 hour)
7. Introduction to Family Planning (1 hour)
8. Family Planning Methods (1 hour)
9. Adolescent Health-1 (1 hour)
10. Adolescent Health-2 (1 hour)
- 11.

Practical:

- 2.

Other:

- 1.

Non- Comitee Courses:

1. English (YDB 1831)(23h)
2. Principles of Atatürk and Revolutionary History (ATB 1801) (14 hour)
3. Turkish Language (TDB 1801) (8 hour)
4. Elective Course (14 hour)
5. Introduction to Information & Communication Technologies (ENF 1905) (28 hour)