

COMMITTEE COURSE CONTENT

University: Muğla Sıtkı Koçman University

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

Academic Year: 2017-2018

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. Gas Laws, Temperature and Underwater Breathing (1 hour)
2. Biological Effect Mechanism of X-Rays (1 hour)
3. Biomagnetism (2 hour)
4. Collisions and Airbags (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: 1 lypothesis Testing (2 hour)
4. Normal Distribution (2 hour)
5. Predictive Power of Diagnostic Tests, Bayes' Theorem (2 hour)
6. P-valuc. 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; First Aid in Respiratory Tracheal Blockage; The respiratory tract is obstructed. First aid practices (1 hour)
2. First aid for heatstroke, First Aid in burns (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 fractures, dislocations and sprains (1 hour)
7. First Aid in organ ruptures (1 hour)
8. First aid in seizures (1 hour)
9. First aid kit. dressing and bandages, dressing varieties (1 hour)

10. First Aid practices in bleeding (1 hour)
11. The Basics of First Aid: First aid kit, dressing and bandages, dressing varieties (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. Degradation of Glycogenc (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 C ycle (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. Reactions of Carbohydrates (2 hour)

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 Isolation (2 hour)
5. DNA replication (4 hour)
6. Examination of mitosis division (2 hour)
7. Nucleic Acids (2 hour)
8. Posttranslational modifications (2 hour)
9. Structure and types of RNA (2 hour)
10. Structure of DNA (2 hour)
11. Transcription (2 hour)
12. Translational (2 hour)

Practical:

1.

Professional Skills (MED 1013)

Theoretical:

1. Giving an intramuscular and subcutan injection (2 hour)
2. Attachment of cervical collar and injured carriage with trauma board (2 hour)
3. Masking and Sterile Gloving (2 hour)
4. Hand Washing (2 hour)
5. Fever Measurement (2 hour)

Practical:

1.

Public Health (MED 1007)

Theoretical:

1. Adolescent health (2 hour)
2. Family Planning Methods (1 hour)
3. History of Our Health System(faraway) (1 hour)
4. History of Our Health System (recent) (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) (14 hour)
3. Elective Course (14 hour)
4. Foreign Language (YDB 1831) (21 hour)
5. Introduction to Information & Communication Technologies (ENF 1801) (28 hour)