

COMMITTEE COURSE CONTENT

University: Muğla Sıtkı Koçman University

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

Academic Year: 2016-2017

Phase: 1 / **Comitee:** 3 (Cell Sciences)

Course Code: MED 1300 / **ECTS:** 10 / **Theoric+Practice Lesson +Laboratory Lesson**

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

Professional Skills (MED 1013)

Theoretical:

1. Fizik Muayene Yöntemleri (1 hour)
2. Hasta ile Görüşme Teknikleri (2 hour)

Practical:

1. Fizik Muayene Yöntemleri (4 hour)
2. Hasta ile Görüşme Teknikleri (8S)

Anatomy (MED 1008)

Theoretical:

1. Bones of upper extremity I (2 hour)
2. Bones of upper extremity II (2 hour)
3. General information about the bones (2 hour)
4. General information about the joints (2 hour)
5. Introduction to Anatomy (2 hour)
6. Joints of the lower extremity I (4 hour)
7. Joints of the upper extremity II (4 hour)
8. Terminology (2 hour)
9. Terms of Anatomical positions, planes, axis (1 hour)
10. Terms of the movement Anatomical terms of movement (1 hour)
11. The bones of the lower extremity I (2 hour)
12. The bones of the lower extremity II (2 hour)
13. The term commonly used in medicine (A-K) (2 hour)
14. The term commonly used in medicine (L-Z) (2 hour)

Practical:

1. Bones of upper extremity (2 hour)
2. Bones of upper extremity (2 hour)
3. Joints of the lower extremity (4 hour)
4. Joints of the lower extremity (4 hour)
5. Laboratory presentation (2 hour)
6. The appendicular skeleton (2 hour)
7. The bones of the lower extremity (2 hour)
- 8.

Behavioral Sciences (MED 1005)

Theoretical:

1. Behaviour (2 hour)
2. Emotion and affect (2 hour)
3. Functions of ego. Defense mechanisms and theories (2 hour)
4. Intelligence and related psychopathology, The definition of intelligence, Measuring intelligence (2 hour)

Practical:

Med. Biochemistry (MED 1001)

Theoretical:

1. Cholesterol Metabolism (2 hour)
2. Degredation of Proteins, Detoxification of Ammonia Urea synthesis (2 hour)
3. Disorders of Lipid Metabolism (2 hour)
4. Fatty Acids (2 hour)
5. Hemoglobin - Myoglobin (4 hour)
6. Ketone bodies (2 hour)
7. Lipid transport and deposition (6S)
8. Lipids - Classification - Chemical Structures (2 hour)
9. Metabolism of Fatty Acids (4 hour)
10. Peptide Bond and Peptide Plane Primary, secondary', tertiary, quaternary' structures of Proteins. (4 hour)
11. Protein synthesis (4 hour)

Practical:

1. Case (Lipid metb. Disorders) (2 hour)
2. Lipid Assay Methods (4h)
3. Protein Assay Methods (2 hour)
4. Urea Assay Methods (2 hour)

Biophysics (MED 1006)

Theoretical:

1. Bioelectrical events on muscles and EMG (2 hour)
2. Biomagnetism (2 hour)
3. Biophysics practice (1 hour)
4. Calcium channel (1 hour)
5. Compound Action Potential (3 hour)
6. Equivalent Circuits for cell membrane (1 hour)
7. Hodgkin - Huxley Action Potential (1 hour)
8. Introduction to Biophysics, concept of system and bioenergetics (2 hour)
9. Ion channels and HH channel model (1 hour)
10. Ions, electrical and chemical gradients (1 hour)
11. Muscle contraction: Biomechanic and bioenergetics relations (3 hour)
12. Nemst and Goldmann equations (1 hour)
13. Potassium channel (1 hour)
14. Sodium channel (1 hour)
15. Subthreshold events and action potential (2 hour)
16. Transport mechanisms on cell membrane and resting potential (1 hour)

Practical:

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Biostatistics (MED 1004)

Theoretical:

1. Chi-Square Tests with Statistical Software (2 hour)
2. Correlation and Linear Regression (2 hour)
3. Correlation and Regression Analysis with Statistical Software (2 hour)
4. Hypothesis Testing with Statistical Software (2 hour)
5. Hypothesis Tests (2 hour)
6. Multiple and Logistic Regression (2 hour)
7. Nonparametric Tests (2 hour)
8. Nonparametric Tests with Statistical Software (2 hour)

Practical:

Medical Biology (MED 1015)

Theoretical:

1. Biology of Aging (2 hour)
2. Cancer Biology (4 hour)
3. Epigenetic Mechanisms (2 hour)
4. Human Genome and Human Genome Project (2 hour)
5. Molecular Biology of Development (2 hour)

6. Pathways of Cell Death (2 hour)
7. Stem Cell Biology (2 hour)

Practical:

Medical Genetics (MED 1014)

Theoretical:

1. Autosomal Dominant Inheritance (2 hour)
2. Laboratory application (2 hour)
3. Medical Genetics, Introduction (1 hour)
4. Mendel's Genetics and Pedigrees (2 hour)
5. Multifactorial Inheritance and Mitochondrial Inheritance (2 hour)
6. Mutations (Type of Mutations and Their consequences) (2 hour)
7. Nonadditional Modes of Inheritance (1 hour)
8. Pattern of Inheritance (1 hour)
9. Patterns of single gene inheritance (1 hour)
10. Sex Linked Inheritance (1 hour)

Practical:

Other:

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Non- Comitee Courses:

1. Principles of Atatürk and Revolutionary History (ATB 1801) (14 hour)
2. Turkish Language (TDB 1801) (12 hour)
3. Foreign Language (ENG 1801) (24 hour)