

COMMITTEE COURSE CONTENT

University: Muğla Sıtkı Koçman University

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

Academic Year: 2022-2023

Phase: 1/ **Comitee:** 4 (Cell Sciences)

Course Code: MED 1400/ **ECTS:** 10/ **Theoric+Practice Lesson +Laboratory Lesson**

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

Anatomy (MED 1008)

Theoretical:

1. Bones of thorax (1 hour)
2. Bones of vertebral column (2 hour)
3. Head to the whole skeleton I (2 hour)
4. Head to the whole skeleton II (2 hour)
5. Joints of the thorax and vertebral column. (2 hour)
6. Skull bones (Neurocranium) I (2 hour)
7. Skull bones (Neurocranium) II (2 hour)
8. Skull bones (Visceocranium) I (2 hour)
9. Skull bones (Visceocranium) II (2 hour)
10. Skull joints and Temporomandibular joint (1 hour)

Practical:

1. **Bones of vertebral column. And thorax**
2. Bones of vertebral column. And thorax (21 hour)
3. Head to the whole skeleton (2 hour)
4. Joints of vertebral column. thorax, skull (2 hour)
5. Skull bones (Neurocranium) (2 hour)
6. Skull bones Visceocranium (2 hour)

Biophysics (MED 1006)

Theoretical:

1. Bone: Mechanic and electrical properties (2 hour)
2. Electrosurgery (2 hour)

Practical:

- 1.

Histology and Embryology (MED 1009)

Theoretical:

1. Clinical Embryology and Assisted Reproduction Techniques (1 hour)
2. Congenital anomalies (2 hour)
3. Female genital system and genital cycle (2 hour)
4. Fertilization, first week of development (2 hour)
5. Fetal period (2 hour)
6. Fourth to Eighth Weeks of Development (2 hour)
7. Introduction to Human Embryology (1 hour)
8. Male genital system and spermatogenesis (1 hour)
9. Oogenesis (1 hour)
10. Ovulation and Gamete Transfer (1 hour)
11. Placenta and Fetal Membranes (2 hour)
12. Second week of development (2 hour)
13. Third week of development (3 hour)

Practical:

- 1.

Medical Biochemistry (MED 1001)

Theoretical:

1. Chemical Thermodynamics (2 hour)
2. DNA Structure, organization & replication (2 hour)

3. Glycoproteins (2 hour)
4. Intermediary Metabolism and Metabolic Regulation (4 hour)
5. Metabolism of Purine & Pyrimidine Nucleotides (4 hour)
6. Minerals and Trace elements (4 hour)
7. Molecular Diagnostic techniques (Molecular Diagnostics) (4 hour)
8. Nucleotides and Nucleic acids, structure & function of Nucleic acids (2 hour)
9. Oxidation & Reduction reactions (2 hour)
10. Proteoglycans (2 hour)
11. Regulation of Gene expression (4 hour)
12. RNA Structure, synthesis & processing (2 hour)
13. Vitamins (4 hour)

Practical:

1. Biochemistry of Urine (2 hour)

Medical Biology (MED 1017)

Theoretical:

1. Aging Biology (2 hour)
2. Application of molecular biological methods in medicine (2 hour)
3. Cancer Biology I (2 hour)
4. Cancer Biology II (2 hour)
5. Cell Death Pathways (2 hour)
6. Epigenetic Mechanisms (2 hour)
7. Molecular Biology of Development (2 hour)
8. Stem Cell Biology (2 hour)

Practical:

1. Polymerase Chain Reaction (PCR) (2 hour)

Medical History and Ethics (MED 1003)

Theoretical:

1. Basic concepts of research ethics (2 hour)
2. Definition, function, and importance of ethics, bioethics and related concepts (1 hour)
3. Ethical issues related to the exchange of information: Informed consent, truth-telling (2 hour)
4. Ethical issues related to the exchange of information: medical confidentiality, secrecy and disclosure patient privacy (2 hour)
5. Philosophical foundations of medical ethics: The relationship between ethical theory, ethical doctrine, ethical principles and rules (2 hour)
6. Principal approach in medical ethics (2 hour)
7. The aims of medicine; ethical values; virtues of medicine and physician (1 hour)
8. The concept of right; patient rights and responsibilities Physician rights and obligations: Deontology (2 hour)

Practical:

- 1.

Other:

- 1.

Non-Comitee Courses:

1. Atatürk's Principles and History of Revolution (ATB 1801) (8 hour)
2. Turkish Language and Literature (TDB 1801) (10 hour)
3. Occupational Health and Safety (ISG 1809) (6 hour)
4. Foreign Language (YDB 1831) (20 hour)