

COMMITTEE COURSE CONTENT

University: Muğla Sıtkı Koçman University

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

Academic Year: 2020-2021

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 (2 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 (Viscereocraium) I (2 hour)
9. Skull bones (Viscerocranium) II (2 hour)
10. Skull joints and Temporomandibular joint (2 hour)

Practical:

1. Head to the whole skeleton (2 hour)
2. Joints and Bones of vertebral column, and thorax (2 hour)
3. Skull bones (Neurocranium) (2 hour)
4. Skull bones Visceocranium (2 hour)
5. Skull joints and vertebral column (2 hour)

Biophysics (MED 1006)

Theoretical:

1. Bioelectrical current and electrical safety (2 hour)
2. Bone: Mechanic and electrical properties (2 hour)

Practical:

- 1.

Histology and Embruogology (MED 1009)

Theoretical:

1. Clinical Embryology, in vitro fertilization techniques (2 hour)
2. Congenital anomalies (2 hour)
3. Embriyonic period (4 hour)
4. Embryonic and fetal stem cells (1 hour)
5. Female genital system, genital cycle, Oogenesis (2 hour)
6. Fertilization, first week of development (1 hour)
7. Fetal membranes and multiple pregnancies (1 hour)
8. Fetal period (2 hour)
9. Implantation and ectopic pregnancies (1 hour)
10. Introduction to human embryology (1 hour)
11. Male genital system and spermatogenesis (2 hour)
12. Ovulation and garnet transfer (1 hour)
13. Placenta (1 hour)
14. Second week of development (1 hour)
15. Third week of development (3 hour)

Practical:

- 1.

Medical Biochemistry (MED 1001) Theoretical: <ol style="list-style-type: none"> 1. Chemical Thermodynamics (2 hour) 2. DNA Structure, organisation & 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. Vitamines (4 hour) Practical: <ol style="list-style-type: none"> 1. Biochemistry of Urine (2 hour)
Medical Biology (MED 1015) Theoretical: <ol style="list-style-type: none"> 1. Aging Biology (2 hour) 2. Application of molecular biological methods in medicine (2 hour) 3. Cancer Biology (4 hour) 4. Cell Death Pathways (2 hour) 5. Epigenetic Mechanisms (2 hour) 6. Molecular Biology of Development (2 hour) 7. Stem Cell Biology (2 hour) Practical: <ol style="list-style-type: none"> 1. Polymerase Chain Reaction (PCR) (2 hour)
Medical Ethics (MED 1003) Theoretical: <ol style="list-style-type: none"> 1. Aims of medicine; ethical values; virtues of medicine and physician (1 hour) 2. Concept of rights; human rights and vulnerable groups; patient rights and responsibilities (2 hour) 3. Ethical issues about changing information: Informed consent, telling the truth, (2 hour) 4. Ethical issues about changing information: Medical confidentiality, keeping and revealing secret (1 hour) 5. Ethics, bioethics: Definition, function and importance of related concepts (1 hour) 6. Philosophical foundations of medical ethics: The relationship between ethical theories, doctrines and policies (1 hour) 7. Principal approach in medical ethics (2 hour) 8. The fundamental concepts in research ethics (2 hour) 9. The physician's rights and responsibility: Deontology (1 hour) Practical: <ol style="list-style-type: none"> 1.
Other: <ol style="list-style-type: none"> 1.
Non-Comitee Courses: <ol style="list-style-type: none"> 1. Principles of Atatürk and Revolutionary History (ATB 1801) (10 hour) 2. Turkish (TDB 1801) (5 hour) 3. Foreign Language (YDB 1831) (21 hour)