

COMMITTEE COURSE CONTENT

University: Muğla Sıtkı Koçman University
Faculty: Faculty of Medicine/ **Program:** English Program
Academic Year: 2023-2024
Phase: 1 / **Comitee:** 1 (Cell Sciences)
Course Code: MED 1100 / **ECTS:** 8 / **Theoric+Practice Lesson +Laboratory Lesson**
Course Type : Compulsory/ **Course Length :** 9 weeks / **Type of Teaching :** Formal/ **Language of Instruction :** English

Biophysics (MED 1006)

Theoretical:

1. Collisions and Airbags (1 hour)
2. Energy, power and metabolic rate (2 hour)
3. Measuring, Significant Numbers and SI System (1 hour)
4. Strength, Balance, Mobility and Human Body (4 hour)
5. The importance of water (2 hour)

Practical:

- 1.

Biostatistics (MED 1018)

Theoretical:

1. Basic statistical concepts and terminology (1 hour)
2. Describing Data, Graphic Presentation (1 hour)
3. Introduction to medical statistics (1 hour)
4. Measures of central tendency (1 hour)
5. Probability (1 hour)
6. SPSS practice (1 hour)

Practical:

1. Measures of central variability (1 hour)
2. Two variables tables and graphics (1 hour)

Histology and Embryology (MED 1009)

Theoretical:

1. Cell damage and death (2 hour)
2. Cell Division and Cell Cycle (2 hour)
3. Cell membrane (1 hour)
4. Cytoskeleton, Inclusions (2 hour)
5. Definition of histology, microscopes and histologic techniques (1 hour)
6. General properties of cells (1 hour)
7. Membranous organelles (2 hour)
8. Nucleus (2 hour)

Practical:

- 1.

Medical Biochemistry (MED 1001)

Theoretical:

1. Biological membrane chemistry and cellular transport (4 hour)
2. Biomolecules and separation techniques (2 hour)
3. Body water equilibrium and Concentration concept (2 hour)
4. Cell biochemistry and Cellular Organelles (2 hour)
5. Functional groups (Acids, Esters & Amides) (2 hour)
6. Functional groups (Alcohols, & Ethers) (2 hour)
7. Functional groups (Aldehydes & Ketones) (2 hour)
8. Functional groups (atomic & molecular structures, Chemical bonds, organic molecules) (2 hour)
9. Functional groups (Hydrocarbons, Alkanes, Alkenes, Alkynes, Alkyl groups) (2 hour)

<p>10. Introduction to Medical Biochemistry (2 hour)</p> <p>11. Medical Biochemistry Lab. Instrumentation (2 hour)</p> <p>Practical:</p> <p>1.</p>
<p>Medical Biology (MED 1017)</p> <p>Theoretical:</p> <ol style="list-style-type: none"> 1. Cell concept, prokaryotic and eukaryotic cell properties (2 hour) 2. Cell membrane structure and synthesis (2 hour) 3. Cell Skeleton (4 hour) 4. Cell surface differentiation Adhesion molecules ECM (2 hour) 5. Intercellular Connections (2 hour) 6. Organelles (6h) 7. Signal transmission in the cell (4 hour) 8. Transport of substances from the cell membrane (2 hour) <p>Practical:</p> <ol style="list-style-type: none"> 1. Light microscope and usage technique (1 hour) 2. Plant and animal cell. Microscopic examination (1 hour) 3.
<p>Medical Genetics (MED 1016)</p> <p>Theoretical:</p> <ol style="list-style-type: none"> 1. Genetic Counselling (1 hour) 2. Genetic Ethics (1 hour) 3. Genetics and Medical Genetics (1 hour) 4. Medical Genetics Clinic (1 hour) <p>Practical:</p> <p>1.</p>
<p>Medical History and Ethics (MED 1003)</p> <p>Theoretical:</p> <ol style="list-style-type: none"> 1. Beginning of experimental medicine with new discoveries and physicians (2 hour) 2. Health and disease concepts in primitive societies and early civilizations, diagnosis and therapeutic approaches (2 hour) 3. Health services since the foundation of the Republic (1 hour) 4. Hippocrates and clinical medicine, the new identity of physician (1 hour) 5. Important physicians of Eastern medicine (1 hour) 6. Introduction to history of medicine, physician identity before Hippocrates, physician oaths (1 hour) 7. Medicine in the Turkic and Ottoman Period (1 hour) 8. Medieval West Medicine in Middle-age and establishment of the universities (1 hour) 9. Renaissance and the birth of modern medicine (1 hour) 10. The migration of science to the East and Middle Ages Eastern Medicine (1 hour) 11. Turkish physicians in struggling infectious diseases (2 hour) <p>Practical:</p> <p>1.</p>
<p>Other:</p> <p>1.</p>
<p>Non- Comitee Courses:</p> <ol style="list-style-type: none"> 1. Ataturk's Principles and History of Revolution (ATB 1801) (8 hour) 2. Turkish Language and Literature (TDB 1801) (9 hour) 3. Elective Courses (9 hour) 4. Foreign Language (YDB 1831) (15 hour) 5. Introduction to Information & Communication Technologies (ENF 1805) (12 hour) 6.