

COMMITTEE COURSE CONTENT	
<b>University:</b> Muğla Sıtkı Koçman University <b>Faculty:</b> Faculty of Medicine/ <b>Program:</b> English Program <b>Academic Year:</b> 2024-2025 <b>Phase:</b> 1 / <b>Comitee:</b> 1 (Cell Sciences) <b>Course Code:</b> MED 1100 / <b>ECTS:</b> 8 / <b>Theoric+Practice Lesson +Laboratory Lesson</b> <b>Course Type :</b> Compulsory/ <b>Course Length :</b> 9 weeks / <b>Type of Teaching :</b> Formal/ <b>Language of Instruction :</b> English	
<b>Biophysics (MED 1006)</b> <b>Theoretical:</b> <ol style="list-style-type: none"> <li>1. Collisions and Airbags (1 hour)</li> <li>2. Energy, power and metabolic rate (2 hour)</li> <li>3. Measuring, Significant Numbers and SI System (1 hour)</li> <li>4. Strength, Balance, Mobility and Human Body (4 hour)</li> <li>5. The importance of water (2 hour)</li> </ol> <b>Practical:</b> <ol style="list-style-type: none"> <li>1.</li> </ol>	
<b>Biostatistics (MED 1018)</b> <b>Theoretical:</b> <ol style="list-style-type: none"> <li>1. Basic statistical concepts and terminology (1 hour)</li> <li>2. Describing Data, Graphic Presentation (1 hour)</li> <li>3. Introduction to medical statistics (1 hour)</li> <li>4. Measures of central tendency (1 hour)</li> <li>5. Probability (1 hour)</li> <li>6. SPSS practice (1 hour)</li> </ol> <b>Practical:</b> <ol style="list-style-type: none"> <li>1. Measures of central variability (1 hour)</li> <li>2. Two variables tables and graphics (1 hour)</li> </ol>	
<b>Histology and Embryology (MED 1009)</b> <b>Theoretical:</b> <ol style="list-style-type: none"> <li>1. Cell damage and death (2 hour)</li> <li>2. Cell Division and Cell Cycle (2 hour)</li> <li>3. Cell membrane (1 hour)</li> <li>4. Cytoskeleton, Inclusions (2 hour)</li> <li>5. Definition of histology,microscopes and histologic techniques (1 hour)</li> <li>6. General properties of cells (1 hour)</li> <li>7. Membranous organelles (2 hour)</li> <li>8. Nucleus (2 hour)</li> </ol> <b>Practical:</b> <ol style="list-style-type: none"> <li>1.</li> </ol>	
<b>Medical Biochemistry (MED 1001)</b> <b>Theoretical:</b> <ol style="list-style-type: none"> <li>1. Biological membrane chemistry and cellular transport (4 hour)</li> <li>2. Biomolecules and separation techniques (2 hour)</li> <li>3. Body water equilibrium and Concentration concept (2 hour)</li> <li>4. Cell biochemistry and Cellular Organelles (2 hour)</li> <li>5. Functional groups (Acids, Esters &amp; Amides) (2 hour)</li> <li>6. Functional groups (Alcohols,&amp; Ethers) (2 hour)</li> <li>7. Functional groups (Aldehydes &amp; Ketones) (2 hour)</li> <li>8. Functional groups (atomic &amp; molecular structures, Chemical bonds, organic molecules) (2 hour)</li> </ol>	

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