

COMMITTEE COURSE CONTENT

University: Muğla Sıtkı Koçman University

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

Academic Year: 2017-2018

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

Behavioral Sciences (MED 1005)

Theoretical:

1. Basic communication skills: Listening, Verbal communication, Body language (2 hour)
2. Brain, Biology of behavior, Biopsycosocial approach model (2 hour)
3. Cognition, Cognitive approach, Attention, Cognition disorders (2 hour)
4. Introduction to psychology (2 hour)

Practical:

- 1.

Biophysics (MED 1006)

Theoretical:

1. Energy, power and metabolic rate (2 hour)
2. Measuring, Significant Numbers and SI System (2 hour)
3. Scaling and Size, Function Relationship in Living Creatures (2 hour)
4. Strength, Balance. Mobility and Human Body 42h
5. Displaying and Summarizing Quantitative Data (2 hour)
6. Biostatistics and General Concepts, Displaying and Describing Categorical Data (2 hour)
7. Numerical Descriptors (2 hour)
8. Probability Rules (2 hour)
9. Sampling Methods, Observational Studies and Experiments (2 hour)

Practical:

1. Displaying and Summarizing Data with Statistical Software (2 hour)
2. Introduction to Statistical Software (2 hour)

Histology (MED 1009)

Theoretical:

1. Cell cycle and mitosis, meiosis (1 hour)
2. Cell damage and death (2 hour)
3. Cell membrane (2 hour)
4. Cytoskeleton (1 hour)
5. Definition of histology, microscopes and histologic techniques (1 hour)
6. General properties of cells (1 hour)
7. Inclusions (1 hour)
8. Membraneous organelles (2 hour)
9. Nucleus (2 hour)

Practical:

1. Use of microscope and cell (2 hour)

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. Cell membrane structure and synthesis (2 hour)
6. Functional groups (Acides, Esters & Amides) (2 hour)

<ul style="list-style-type: none"> 7. Functional groups (Alcohols.& Ethers) (2 hour) 8. Functional groups (Aldehydes & Ketones) (2 hour) 9. functional groups (atomic&molccular structures, Chemical bonds, organic molecules) (2 hour) 10. Functional groups (Hydrocarbons. Alkanes. Alkenes, Alkynes, Alkyl groups) (2 hour) 11. Introduction to Medical Biochemistry (2 hour) 12. Medical Biochemistry Lab. Instrumentation (2 hour) <p>Practical:</p> <ul style="list-style-type: none"> 1.
<p>Medical Biology (MED 1015)</p> <p>Theoretical:</p> <ul style="list-style-type: none"> 1. Cell concept, prokaryotic and eukaryotic cell properties (2 hour) 2. Cell Skeleton (4 hour) 3. Cell surface differentiation Adhesion molecules ECM (2 hour) 4. Intercellular Connections (2 hour) 5. Organelles (6h) 6. Signal transmission in the cell (4 hour) 7. Transport of substances from the cell membrane (2 hour) <p>Practical:</p> <ul style="list-style-type: none"> 1. Light microscope and usage technique (2 hour) 2. Plant and animal cell. Microscopic analysis (2 hour)
<p>Medical History and Ethics (MED 1003)</p> <p>Theoretical:</p> <ul style="list-style-type: none"> 1. Beginning of experimental medicine with other sciences and new discoveries and physicians (1 hour) 2. East Medicine in Middle-age and emigration of science to the east physicians (1 hour) 3. Famous physicians of Eastern medicine (1 hour) 4. Health and disease concepts in primitive societies and early civilizations, diagnosis and therapeutic approaches (2 hour) 5. Hippocrates and clinical medicine, the new identity of physician (1 hour) 6. Introduction to history of medicine, physician identity before Hippocrates, physician oaths (1 hour) 7. Medical practices from the Establishment of Republic to current age (1 hour) 8. Renaissance and the birth of modern medicine (1 hour) 9. Turkish World and Medicine in Ottoman Period and physicians (1 hour) 10. West Medicine in Middle-age and establishment of the universities (1 hour) <p>Practical:</p> <ul style="list-style-type: none"> 1.
<p>Professional Skills (MED 1013)</p> <p>Theoretical:</p> <ul style="list-style-type: none"> 1. <p>Practical:</p> <ul style="list-style-type: none"> 1. Attachment of cervical collar and injured carriage with trauma board (2 hour) 2. Giving an intramuscular and subcutan injection (2 hour) 3. Hand Washing (2 hour) 4. Masking and Sterile Gloving (2 hour)
<p>Other:</p> <ul style="list-style-type: none"> 1.
<p>Non- Comitee Courses:</p> <ul style="list-style-type: none"> 1. Principles of Atatürk and Revolutionary History (ATB 1801) (16 hour) 2. Advanced Turkish (TDB 1802) (10 hour) 3. Elective Lectures (16 hour) 4. Foreign Languages (YDB 1831) (24 hour) 5. Introduction to Information & Communication Technologies (ENF 1801) (33 hour)