COMMITTEE COURSE CONTENT

University: Muğla Sıtkı Koçman University
Faculty: Faculty of Medicine**/ Program:** English Program
Academic Year: 2016-2017
Phase: 1 **/ Comitee:** 1 (Cell Sciences)
Course Code: MED 1100 **/ ECTS: 10 / 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. Bio. of behavior. Biopsycosoc. 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 (4h)

Practical:
1.

Biostatistics (MED 1004)
Theoretical:
1. Biostatistics and General Concepts (2 hour)
2. Center of Distributions (2 hour)
3. Displaying Data with Statistical Software (2 hour)
4. Frequency Distributions and Descriptive Statistics (2 hour)
5. Introduction to Statistical Software (2 hour)
6. Probability (2 hour)
7. Spread of Distributions (2 hour)
8. Types of Data, Displaying and Describing Data with Statistical Software (2 hour)

Practical:
1.

Histology (MED 1009)
1. Cell cycle and mitosis (2 hour)
2. Cell death (2 hour)
3. Cell membrane (2 hour)
4. Cytoskeleton (1 hour)
5. Definition of histology, microscopes and histologic techniques (1hour)
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)

Med. Biochemistry (MED 1001)
1. Biological membrane chemistry and cellular transport (2 hour)
2. Biomolecules and seperation techniques (2 hour)

3. Body water equilibrium and Concentration concept (2 hour)
4. Cell biochemistry and Cellular Organelles (4h)
5. Functional groups (4h)
6. Introduction to Medical Biochemistry (2 hour)
7. Biological membrane chemistry and cellular transport (2 hour)

Practical:

1. Medical Biochemistry Lab. Instrumentation -Concentration concept and Preparation of a solution. (4h)

Medical Biology (MED 1015)

1. Cell Cycle (4h)
2. Connections between cells (2 hour)
3. Cytoskeleton (2 hour)
4. Introduction of Medical Biology (2 hour)
5. Meiosis (2 hour)
6. Organelles (6h)
7. Signal transduction in the cell (4h)
8. Structure and synthesis of cellular membranes (2 hour)
9. The concept of cell, prokaryotic and eukaryotic cell properties (2 hour)
10. Transport of substances through the cell membrane (2 hour)
11. Types of Cell Division and Mitosis (3h)

Practical:

1. Examination of potato starch particles (2 hour)
2. Osmosis, diffusion, plasmolysis, deplasmolis (2 hour)
3. Plant and animal cells. Microscopic analysis (2 hour)
4. The use of light microscopy techniques (1 hour)

Medical History and Ethics (MED 1003)

1. Beginning of experimental medicine with other sciences and new discoveries (1 hour)
2. Health and disease concepts in primative societies and early civilizations (2 hour)
3. Introduction to history of medicine, physician identity before Hippocrate, physician oaths (1 hour)
4. Renaissance and the birth of modem medicine (1 hour)
5. West Medicine in Middle-age and establishment of the universities (1 hour)
6. East Medicine in middle-cent and emigration of science to the east (1 hour)
7. Hipocrate and clinical medicine, the new identitiy of physician (1 hour)
8. Medical practices from the Establishment of Republic to current age (1 hour)
9. Turkish World and Medicine in Ottoman Period (1 hour)

Practical:

1.

Other:

1.

Non- Comitee Courses:

1. Principles of Atatürk and Revolutionary History (ATB 1801) (16 hour)
2. Turkish Language (TDB 1801) (10 hour)
3. Elective Course (16 hour)
4. Foreign Language (ENG 1801) (24 hour)
5. Introduction to Information & Communication Technologies (ENF 1801) (32 hour)
6.