## COMMITTEE COURSE CONTENT

University: Muğla Sıtkı Koçman University

Faculty: Faculty of Medicine/ Program: English Program

Academic Year: 2019-2020

Phase: 2 Comitee: 2 (CIRCULATORY AND RESPIRATORY SYSTEMS)

Course Code: 2200/ ECTS: 12 / Theoric+Practice Lesson +Laboratory Lesson

Course Type : Compulsory/ Course Length : 7 weeks/ Type of Teaching : Formal/ Language of Instruction : English

## Anatomy (MED 2004)

## Theoretical:

- 1. Anatomy of Thoracic Wall (2 hour)
- 2. Anterior and Lateral Cervical Region (2 hour)
- 3. Arch of Aorta (1 hour)
- 4. Deep Structres of Neck (2 hour)
- 5. Diaphragma (1 hour)
- 6. Fetal Circulation (1 hour)
- 7. Heart and Pericardium (3 hour)
- 8. Larynx (2 hour)
- 9. Lumphoid System and vessels (2 hour)
- 10. Mediastinum (1 hour)
- 11. Nose and Structure of Nose (2 hour)
- 12. Thoracic Aorta (1 hour)
- 13. Trachea and Lungs (2 hour)
- 14. Veins of Face and Neck (1 hour)
- 15. Veins of Thorax (1 hour)

Practical:

- 1. Anatomy of Thoracic Wall (2 hour)
- 2. Arch of Aorta, Thoracic Aorta (2 hour)
- 3. Deep Structrcs of Neck Anterior and Lateral Cervical Region (2 hour)
- 4. Diaphragma, Mediastinum (2 hour)
- 5. Heart and Pericardium, Fetal Circulation (2 hour)
- 6. Larynx (2 hour)
- 7. Lumphoid System and vessels (2 hour)
- 8. Nose and Structure of Nose (2 hour)
- 9. Trachea and Lungs (2 hour)
- 10. Veins of Face and Neck, Veins of Thorax (3 hour)

# Biophysics (MED 2002)

# Theoretical:

- 1. Bcmouli Principle. Poiseuillc Law and Blood Flow (1 hour)
- 2. Laplace Law and Aneurysm (1 hour)
- 3. Lung Volume and Capacity and Functional Residual Capacity measurement (1 hour)
- 4. Measurment Methods of Blood Pressure and Blood Flow (1 hour)
- 5. Physical Foundations of ECG (2 hour)
- 6. Relation Among Hydrostatic Pressure and edema, Varicosis and Blood Pressure (Tension (1 hour)
- 7. Respiratory System and Blood Cases (1 hour)
- 8. Surface Tension. Surfactant and Alveoli Mechanism (1 hour)
- 9. The efficiency and Strength of the Heart (1 hour)

# Histology- Embryology (MED 2003)

## Theoretical:

- 1. Lymphoid System; Development of Lymphoid Organs (3 hour)
- 2. Lymphoid System; microscopic introduction (2 hour)
- 3. Circulatory System (4 hour)
- 4. Development of Cardiovascular System (2 hour)
- 5. Development of Head and Neck (2 hour)
- 6. Development of Respiratory System (1 hour)
- 7. Fetal Circulation (1 hour)
- 8. Microscopic evaluation of Committee (1 hour)
- 9. Respiratory System (2 hour)

#### Practical:

- 1. Circulatory System (1 hour)
- 2. Lymphoid System (2 hour)
- 3. Respiratory System (2 hour)

## M. Biochemistry (MED 2001)

#### Theoretical:

- 1. Heme Biyosynthesis & Porphyrias (2 hour)
- 2. Iron Metabolism (2 hour)
- 3. M. Biochemistry of Coagulation proteins (2 hour)
- 4. M. Biochemistry of Erythrocytes and Blood (2 hour)
- 5. M. Biochemistry of Respiratory System (2 hour)

# M. Microbiology (MED 2007)

## Theoretical:

- 1. Antigen Processing and Presentation to T Lymphocytes (2 hour)
- 2. Antigen Recognition (2 hour)
- 3. Cell-mediated Immunity (2 hour)
- 4. Cells and Tissues of the Adaptive Immune System (1 hour)
- 5. Effector Mechanisms of Cellular Immunity (2 hour)
- 6. Effector Mechanisms of Humoral Immunity (2 hour)
- 7. Effector Mechanisms of Innate Immunity and Inllamatory Response (2 hour)
- 8. Innate Immunity (2 hour)
- 9. Introduction to Basic Immunology (2 hour)
- 10. Termination of the Immune Response (2 hour)

#### Practical:

- 1. Growth Medias and Inoculation techniques on Medias (2 hour)
- 2. Staining Methods of Bacteria (2 hour)

# Physiology (MED 2006)

#### Theoretical:

- 1. Alveolar Ventilation and Pci fusion (2 hour)
- 2. Blood Pressure ; Rapid and Long-term Regulation (2 hour)
- 3. Cardiac Output, Venous Return and their Regulation (2 hour)
- 4. Circulatory System, Medical Physics of Pressure, Flow and Resistance (2 hour)
- 5. Electrocardiography (ECG) 1 (2 hour)
- 6. Electrocardiography (ECG) II: Cardiac Arrhythmia and Electrocardiographic Interpretation (2 hour)
- 7. Heart Sound and Valvular Heart Disease (2 hour)
- 8. Morphology of Respiratory System (2 hour)
- 9. Physical Principles of Gases Exchange and Diffusions (3 hour)
- 10. Physiological Laboratory Methods 11 (ECG) (2 hour)
- 11. Physiological Laboratory Methods III (Respiratory function tests) (2 hour)
- 12. Pulmonary Circulation. Pulmonary Edema and Pleural Fluid (2 hour)
- 13. Pulmonary Ventilation (2 hour)

- 14. Regulation of Respiration (2 hour)
- 15. Rhythmic Excitation of the Heart and Specialized Excitatory and Conductive System of the Heart (2 hour)
- 16. The Cardiac Cycle (2 hour)
- 17. The Heart as a Mechanical Pump and Function of the Heart Valves (2 hour)
- 18. The Microcirculation and Lymphatic System (2 hour)

# Other:

1.

# Non- Comitee Courses:

1. Foreign Language (16 hour)