COMMITTEE COURSE CONTENT

University: Muğla Sıtkı Koçman University
Faculty: Faculty of Medicine**/ Program:** English Program
Academic Year: 2024-2025
Phase: 2 Comitee: 1 (TISSUE BIOLOGY)
Course Code: 2100/ ECTS: 10 / Theoric+Practice Lesson +Laboratory Lesson
Course Type : Compulsory/ Course Length : 6 weeks/ Type of Teaching : Formal/ Language of Instruction : English

Anatomy (MED 2004)
Theoretical:

1. Anatomy of Foot (2 hour)
2. Anatomy of hand (2 hour)
3. Anterior and lateral Compartment of Leg (1 hour)
4. Anterior and medial Thigh Muscles (2 hour)
5. Anterior compartment of forearm , cubital fossa (2 hour)
6. Axillary fossa (1 hour)
7. Back of forearm (1 hour)
8. Brachial plexus (2 hour)
9. Gluteal Region (1 hour)
10. Lumbosacral Plexus (2 hour)
11. Muscle of anterior compartment of arm and breast (2 hour)
12. Muscle of back (1 hour)
13. Muscle of Face and Scalp (2 hour)
14. Muscle of shoulder and back of arm (1 hour)
15. Posterior and lateral Thigh Muscles and Popliteal Region (2 hour)
16. Posterior Compartment of Leg (1 hour)
17. Suboccipital and intimsic back muscles (1 hour)
18. Veins and arteries of Lower Limb (3 hour)
19. Veins and arteries of upper limbPractical: (1 hour)

Practical:

1. Anatomy of Foot, lumbosacral Plexus (2 hour)
2. Anterior and medial Thigh Muscles, Posterior and lateral Thigh Muscles and Popliteal Region (2 hour)
3. Anterior compartmant of forearm , cubital fossa. Anatomy of hand (2 hour)
4. Axillary fossa. Back of forearm (2 hour)
5. Brachial plexus, Veins and arteries of upper limb (2 hour)
6. Muscle of back (2 hour)
7. Muscle of Face and Scalp (2 hour)
8. Muscle of shoulder, back and anterior compartmant of arm and breast (2 hour)
9. Posterior, Anterior and lateral Compartment of Leg (2 hour)
10. Suboccipital and intimsic back muscles, Gluteal Region (2 hour)
11. Veins and arteries of Lower Limb (2 hour)

Histology (MED 2003)
Theoretical:

1. Blood (2 hour)
2. Blood; microscopic introduction (1 hour)
3. Bone (2 hour)
4. Bone formation (2 hour)
5. Cartilage (2 hour)
6. Cartilage and bone: microscopic introduction (1 hour)

7. Connective tissue and extracellular matrix (4 hour)
8. Connective tissue; microscopic introduction (1 hour)
9. Development of skeletal and muscular systems; limb development (2 hour)
10. Epithelial tissue (3 hour)
11. Epithelial tissue; microscopic introduction (1 hour)
12. Hemopoiesis (2 hour)
13. Introduction to tissues (1 hour)
14. Microscopic evaluation of Committee (1 hour)
15. Muscle tissue (3 hour)
16. Muscle tissue; microscopic introduction (1 hour)
17. Nerve Tissue (3 hour)
18. The characteristics of stem cells and their clinical use (2 hour)

Practical:

1. Blood (1 hour)
2. Cartilage and bone (1 hour)
3. Connective tissue(1 hour)
4. Epithelial tissue (2 hour)
5. Muscle tissue (1 hour)
6. Nerve Tissue (1 hour)

M. Biochemistry (MED 2001)

Theoretical:

1. Biochemistry of connective tissue (2 hour)
2. Free Radicals & Oxidant Damage in Tissues (2 hour)

M. Microbiology (MED 2007)

1. Bacterial genetics (2 hour)
2. Bacterial growth and Metabolism (2 hour)
3. Bacterial virulence factors (2 hour)
4. Biosafety and Sterilization Control (1 hour)
5. Human microbiota (1 hour)
6. Introduction to Medical Microbiology (1 hour)
7. Introduction to Microbiology (1 hour)
8. Microbiology and Life (1 hour)
9. Microscope, Dyes and Growth Medias (2 hour)
10. Molecular Microbiological Diagnostic Methods (3 hour)
11. Sterilization. Disinfection and Antisepsis (2 hour)
12. Structure and classification of bacterial cells (2 hour)

Practical:

1. Biosafety practices (2 hour)
2. Presentation of Microbiology Laboratory (1 hour)
3. Sterilization, Disinfection and Antisepsis practical workshop (2 hour)

Physiology (MED 2006)

Theoretical:

1. Bioclcctrical Potentials (2 hour)
2. Blood groups (2 hour)
3. Body Fluid Compartments and Characteristics (1 hour)
4. Dynamics of the Cell Membrane (1 hour)
5. Functions of Blood. Physical and Chemical Properties (1 hour)
6. Hemoglobin and Iron Metabolism, Anemia (2 hour)
7. Introduction to Physiology: Homeostatic Mechanisms, Physiologic Control Systems of the Body (2 hour)
8. Introduction to The Autonomic Nervous System (2 hour)
9. Physiological Laboratory Methods 1 (HCT, HB. PLT) (2 hour)
10. Physiology of Skeletal Muscle 1 (5 hour)

11. Production of Erythrocyte and Its Function Hematopoiesis. Erythropoiesis (1 hour) 12. Thrombocytes Function, Blood Clothing, Anticlotting Mechanisms (2 hour)
Other: **1.**
Non- Comitee Courses: 1. Forcing Language (11 hour)