Academic year 2016/ 2017 Faculty of Medicine EM I. Groups 1-8

Week	Lectures Mondays 14.00-15.40 Fridays 12.00-12.45	Practical sessions	
		Dissection room	Histology lab
Week 1 Sept. 5-9.	1. The role of anatomy, histology and embryology in the medical curriculum. Terminology 2. The cell , cellular membrane, endoplasmic reticulum 3. The cellular framework, microtubules, IM filaments, actin microfilaments	General introduction to practical work in the dissection room, tools and rules Upper limb Bones	Light and electron microscopical techniques, the principles of practical histology classes
Week 2. Sept. 12-16.	4. Adhesion molecules, intercellular connections, epithelial cells 5. Types of epithelia. Glandular epithelium 6. Cell nucleus, mitochondrium, peroxysome	Upper limb Bones and joints	Simple epithelia
Week 3. Sept. 19-23.	 7. Exocytosis, Golgi apparatus, , vesicular transport, sorting 8. Endocytosis, cellular organelles. Apoptosis 9. General arthrology and myology. Joints , muscles and movements of the shoulder and the upper girdle 	Upper limb Dissection of the muscles, vessels and nerves of the flexor side	Stratified epithelia
Week 4. Sept. 26-30.	10. Muscles and actions of the elbow joint11. Joints, muscles and actions of the wrist and the hand12. Connective tissue cells	Upper limb Dissection of the muscles, vessels and nerves of the flexor and extensor sides	Glandular epithelium
Week 5. Oct. 3-7.	 13. Connective tissue fibres, types and formation. Extracellular matrix 14. The principles of cell division, differentiation. Cell cycle, mitosis, meiosis 15. Supporting tissues (cartilage, bone) 	Upper limb Dissection of the muscles, vessels and nerves of the extensor side, dissection of joints	Connective tissue I. Cellular elements
Week 6. Oct. 10-14. Oct.15. Satruday is a	 16. Ossification, bone remodelling 17. Muscles, joints and ligaments of the vertebral column. Intervertebral, atlantooccipital and atlantoaxial joints 18. Bones, joints, construction of the pelvis. Muscles and actions of the hip joint 	Upper limb Dissection of the muscles, vessels and nerves of the extensor side, dissection of joints Midterm test 1 Upper limb	Connective tissue II. Fibrous elements Saturday Histology class at 8.00
"Monday"	19. Subinguinal hiatus. Adductor and femoral canals 20. Muscles and actions of the knee joint	Saturday Dissection classes for Groups 1-12, 15-16	Supporting tissues for Groups 1-3-5,6
Week 7. Oct. 17-21.	21. Gametes, fertilization, cleavage and blastulation 22. Muscles and joints of the foot. Architecture of the foot 23. – <i>National Holiday</i>	Muscles of the trunk, lower limb Dissection of joints of the lower limb No Friday classes for Groups 1,2,4,5	Mon: Types of ossification for Groups 1-3-5,6 Tue: Supporting tissues for Groups 11, 12, 13,14 No Friday class for Groups 2,4,7-10, 15, 16
Week 8. Oct. 24-28.	 24. Implantation, bilaminar embryo. Fetal membranes, umbilical cord. Structure of the placenta, placentar circulation 25. Molecular basis for gastrulation.Formation, differentiation and derivatives of the germinal layers. 26. Neurulation, folding of the embryo. Body axes, left-right lateralizationm asymmety. Craniocaudal, dorsoventral differentiation. Malformations 	Lower limb Dissection of the muscles, vessels and nerves of the dorsal side	Revision <i>Groups</i> 1,3,5,6, 11,12, 13,14 Supporting tissues <i>Groups</i> 2,4,7-10, 15, 16
Week 9. Oct. 31-Nov. 4. Oct.31 and Nov.1 are national holidays	 National Holiday National Holiday Blood. Corpuscular elements 	No Monday/Tuesday dissection class Lower limb Dissection of the muscles, vessels and nerves of the dorsal side	No class on Mon/Tue for Groups 1,3,5,6, 11,12, 13,14 Types of ossification AND Revision
Week 10. Nov. 7-11.	28. Formation of the primary tissues. Homeobox genes, stem cells 29.Development of the limbs and the vertebral column together with the trunk 30. Muscle tissue	Lower limb Dissection of the muscles, vessels and nerves of the ventral side	Midterm test 2: Epithelia, connective and supporting tissue. General embryology
Week 11. Nov. 14-18.	31.Bony framework of the skull. Sphenoid and ethmoid 32.Facial skeleton. Orbit, nasal cavity 33. Temporal bone. Internal and external skull base	Group test: joints, muscles, nerves and vessels of the lower limb Bones of the skull	Smooth, skeletal and cardiac muscle types
Week 12. Nov. 21-25.	34. Skull. Infratemporal and pterygopalatine fossae 35. Red bone marrow, erythropoiesis, Formation of leukocytes 36. Nervous tissue. Glial cells	Internal and external skull base	Blood, red bone marrow
Week 13. Nov. 28-Dec.2.	37. Temporomandibular joint, muscles of mastication; muscles of facial expression38. Muscles, fasciae and triangles of the neck39. Clinical anatomy of the musculoskeletal system	Bones of the facial skeleton, mandible. Orbit, nasal cavity, pterygopalatine fossa Temporomandibular joint	Nervous tissue
Week 14. Dec. 5-9.	40. Clinical demonstration41. Development of the skull, fontanelles.42. Developmental malformations	Muscles of mastication and facial expression	Placenta, umbilical cord Revision

Academic year 2016/ 2017 Faculty of Medicine EM I. Groups 9-16

Week	Lectures Mondays 12.00-13.40 Wednesdays 12.00-12.45	Practical sessions	
		Dissection room	Histology lab
Week 1 Sept. 5-9.	1. The role of anatomy, histology and embryology in the medical curriculum. Terminology 2. The cell , cellular membrane, endoplasmic reticulum 3. The cellular framework, microtubules, IM filaments, actin microfilaments	General introduction to practical work in the dissection room, tools and rules Upper limb Bones	Light and electron microscopical techniques, the principles of practical histology classes
Week 2. Sept. 12-16.	4. Adhesion molecules, intercellular connections, epithelial cells 5. Types of epithelia. Glandular epithelium 6. Cell nucleus, mitochondrium, peroxysome	Upper limb Bones and joints	Simple epithelia
Week 3. Sept. 19-23.	 7. Exocytosis, Golgi apparatus, , vesicular transport, sorting 8. Endocytosis, cellular organelles. Apoptosis 9. General arthrology and myology. Joints , muscles and movements of the shoulder and the upper girdle 	Upper limb Dissection of the muscles, vessels and nerves of the flexor side	Stratified epithelia
Week 4. Sept. 26-30.	10. Muscles and actions of the elbow joint 11. Joints, muscles and actions of the wrist and the hand 12. Connective tissue cells	Upper limb Dissection of the muscles, vessels and nerves of the flexor and extensor sides	Glandular epithelium
Week 5. Oct. 3-7.	 13. Connective tissue fibres, types and formation. Extracellular matrix 14. The principles of cell division, differentiation. Cell cycle, mitosis, meiosis 15. Supporting tissues (cartilage, bone) 	Upper limb Dissection of the muscles, vessels and nerves of the extensor side, dissection of joints	Connective tissue I. Cellular elements
Week 6. Oct. 10-14.	 16. Ossification, bone remodelling 17. Muscles, joints and ligaments of the vertebral column. Intervertebral, atlantooccipital and atlantoaxial joints 18. Bones, joints, construction of the pelvis. Muscles and actions of the hip joint 	Upper limb Dissection of the muscles, vessels and nerves of the extensor side, dissection of joints Midterm test 1 Upper limb	Connective tissue II. Fibrous elements Saturday Histology class at 8.00
Oct. 15. Saturday is a "Monday"	19. Subinguinal hiatus. Adductor and femoral canals 20. Muscles and actions of the knee joint	Saturday Dissection classes for Groups 1-12, 15-16	Supporting tissues for Groups 1-3-5,6
Week 7. Oct. 17-21.	21. Gametes, fertilization, cleavage and blastulation 22. Muscles and joints of the foot. Architecture of the foot 23. Implantation, bilaminar embryo. Fetal membranes, umbilical cord. Structure of the placenta, placentar circulation	Muscles of the trunk, lower limb Dissection of joints of the lower limb No Friday classes for Groups 1,2,4,5	Mon: Types of ossification for Groups 1-3-5,6 Tue: Supporting tissues for Groups 11, 12, 13,14 No Friday class for Groups 2,4,7-10, 15, 16
Week 8. Oct. 24-28.	24. Molecular basis for gastrulation. Formation, differentiation and derivatives of the germinal layers. 25. Neurulation, folding of the embryo. Body axes, left-right lateralizationm asymmety. Craniocaudal, dorsoventral differentiation. Malformations 26. Blood. Corpuscular elements	Lower limb Dissection of the muscles, vessels and nerves of the dorsal side	Revision Groups 1,3,5,6, 11,12, 13,14 Supporting tissues Groups 2,4,7-10, 15, 16
Week 9. Oct. 31-Nov. 4. Oct.31 and Nov.1 are national holidays	 National Holiday National Holiday Formation of the primary tissues. Homeobox genes, stem cells 	No Monday/Tuesday dissection class Lower limb Dissection of the muscles, vessels and nerves of the dorsal side	No class on Mon/Tue for Groups 1,3,5,6, 11,12, 13,14 Types of ossification AND Revision
Week 10. Nov. 7-11.	28. Development of the limbs29. Development of the vertebral column and the trunk30. Muscle tissue	Lower limb Dissection of the muscles, vessels and nerves of the ventral side	Midterm test 2: Epithelia, connective and supporting tissue. General embryology
Week 11. Nov. 14-18.	31. Bony framework of the skull. Sphenoid and ethmoid 32. Facial skeleton. Orbit, nasal cavity 33. Temporal bone. Internal and external skull base	Group test: joints, muscles, nerves and vessels of the lower limb Bones of the skull	Smooth, skeletal and cardiac muscle types
Week 12. Nov. 21-25.	34. Skull. Infratemporal and pterygopalatine fossae 35. Red bone marrow, erythropoiesis, Formation of leukocytes 36. Nervous tissue. Glial cells	Internal and external skull base	Blood, red bone marrow
Week 13. Nov. 28-Dec.2.	37. Temporomandibular joint, muscles of mastication and facial expression38. Muscles, fasciae and triangles of the neck39. Clinical anatomy of the musculoskeletal system	Bones of the facial skeleton, mandible. Orbit, nasal cavity, pterygopalatine fossa Temporomandibular joint	Nervous tissue
Week 14. Dec. 5-9.	40. Clinical demonstration41. Development of the skull, fontanelles.42. Developmental malformations	Muscles of mastication and facial expression	Placenta, umbilical cord Revision