

25600 - Anatomy I. General anatomy and the anatomy of movement.

Información del Plan Docente

Academic Year	2016/17
Academic center	127 - Facultad de Ciencias de la Salud
Degree	275 - Degree in Physiotherapy
ECTS	12.0
Course	1
Period	Annual
Subject Type	Basic Education
Module	---

1. Basic info

1.1. Recommendations to take this course

1.2. Activities and key dates for the course

2. Initiation

2.1. Learning outcomes that define the subject

2.2. Introduction

3. Context and competences

3.1. Goals

3.2. Context and meaning of the subject in the degree

3.3. Competences

3.4. Importance of learning outcomes

4. Evaluation

5. Activities and resources

5.1. General methodological presentation

5.2. Learning activities

5.3. Program

SUBJECT PROGRAM

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UNIT 1. Cytology, Histology, Embriology.

Theme 1-1. Cell: Concept and generalities. Cellular membrane.

Theme 1-2. Cellular cytoplasm and organelles.

Theme 1-3. Cell cycle. Cell division processes.

Theme 1-4. Human tissues.

Theme 1-5. Gametogenesis. Fecundation. Initiation of embryonic development.

Theme 1-6. Embryonic period. Fetal period.

Theme 1-7. Fetal membranes. Amniotic liquid. Placenta.

UNIT 2. Anatomy. Introduction and generalities of locomotor apparatus.

Theme 2-1. Anatomy: Concept and historic references. Anatomic posture. Corporal spindles and corporal planes. Anatomical nomenclature and terminology.

Theme 2-2. Bones. Types of bones. External configuration and internal structure. Periosteum. Bone marrow. Ossification.

Theme 2-3. Joints. Types of joints. Structure, components and classification.

Theme 2-4. Skeletal muscles: Structure and components. Muscular innervation.

Theme 2-5. Peripheral nervous system. Spinal nerves. Components, branches and nervous plexus.

UNIT 3. Locomotor apparatus: Trunk and neck.

Theme 3-1. Vertebral column. Vertebrae. Sacrum and coccyx. The Column as a whole.

Theme 3-2. Bones of the pelvic girdle. Coxal bone.

Theme 3-3. Bones of the thoracic cage. Ribs. Sternum.

Theme 3-4. Joints and ligaments of the vertebral column.

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Theme 3-5. Joints and ligaments of the thoracic cage.

Theme 3-6. Muscles of the back. Muscles of the nape of the neck.

Theme 3-7. Muscles of the neck.

Theme 3-8. Muscles of the thoracic wall. Respiratory muscles. Diaphragm.

Theme 3-9. Muscles of the abdominal wall. Muscles of the pelvic floor.

Theme 3-10. Vessels and nerves of trunk and neck.

UNIT 4. Locomotor apparatus: Lower limb.

Theme 4-1. Bones of the lower limb. Femur, Rotula, Tibia and Fibula.

Theme 4-2. Bones of the lower limb. Bones of the foot.

Theme 4-3. Pelvic joints and pelvic ligaments.

Theme 4-4. Hip joint. Muscles of the hip.

Theme 4-5. Muscles of the thigh.

Theme 4-6. Knee joint.

Theme 4-7. Tibiofibular joints. Ankle and foot joints.

Theme 4-8. Muscles of the leg. Muscles of the foot.

Theme 4-9. Vessels of the lower limb.

Theme 4-10. Nerves of the lower limb.

UNIT 5. Locomotor apparatus: Upper limb.

Theme 5-1. Bones of the upper limb. Scapular girdle. Humerus.

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Theme 5-2. Bones of the upper limb. Bones of the forearm and hand.

Theme 5-3. Joints and muscles of the scapular girdle.

Theme 5-4. Shoulder joint. Muscles of the shoulder.

Theme 5-5. Elbow joint. Radioulnar joints. Muscles of the arm.

Theme 5-6. Wrist joint. Joints of the hand.

Theme 5-7. Muscles of the forearm.

Theme 4-8. Muscles of the hand.

Theme 4-9. Vessels of the upper limb.

Theme 4-10. Nerves of the upper limb.

UNIT 6. Locomotor apparatus: Head.

Theme 6-1. Skull bones. Skull vault and skull basis.

Theme 6-2. Facial bones. Orbit. Nasal cavity. Maxilla. Mandible.

Theme 6-3. Temporomandibular joint. Muscles of the mastication. Suprahyoid muscles.

Theme 6-4. Facial muscles. Mimic muscles.

5.4.Planning and scheduling

5.5.Bibliography and recommended resources