

26735 - Medical and Forensic Bio-anthropology

Información del Plan Docente

Academic Year	2017/18
Faculty / School	104 - Facultad de Medicina
Degree	304 - Degree in Medicine
ECTS	4.0
Year	5
Semester	First semester
Subject Type	Optional
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

4.1.Assessment tasks (description of tasks, marking system and assessment criteria)

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

The learning process that has been designed is based on the following:

Lectures, ICTs - information and communication technologies (networks, software, computer, projector, etc.). Practices in laboratory and dissection room, (real cases and virtual models).

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5.2.Learning tasks

ACTIVITY 1: Lectures (15 hours taught by the Department of Human Anatomy and Histology and 5 hours by the Department of Pathology, Forensic and Forensic Medicine and Toxicology). CREDITS: 20 HOURS.
ACTIVITY 2: Laboratory practices. CREDITS: 10 HOURS Dept. Human Anatomy and Histology, 2HORAS: FORENSIC GENETIC LABORATORY. Department of Pathological Anatomy, Forensic and Forensic Medicine and Toxicology.
ACTIVITY 3: Problem solving and cases. CREDITS: 8 HOURS Dept. Human Anatomy and Histology
ACTIVITY 4: Carrying out practical work. CREDITS: 17 HOURS Dept. Human Anatomy and Histology.
ACTIVITY 5: Tutorials. CREDITS: Interview individualized and / or in very small groups for the academic and personal orientation of the student.
ACTIVITY 6: Exam. CREDITS: 2 HOURS.
ACTIVITY 7: Study. CREDITS: 41 HOURS.

5.3.Syllabus

CONTENTS

Introduction

- 1.Introduction to Human Anthropology. Basic concepts. Human Anthropology. From Physical Anthropology to Molecular Anthropology. Applications in the context of Forensic Sciences.
Forensic Genetics and Molecular Anthropology
2. FORENSIC SCIENCE AT THE SERVICE OF THE IDENTIFICATION OF THE LIVING AND THE CADÁVER. THE DNA PROOF IN FORENSIC MEDICINE.
3. MOLECULAR ANTHROPOLOGY AND ANTIGUA DNA
4. PERIODICAL REPORT
Physical Anthropology
- 5.Forensic anthropology. Introduction and basic concepts.
- 6.Evolutionary aspects of bioanthropology adaptation to bipedalism, evolution of the brain, evolution of language and evolution of the hand.
- 7.Comparative anatomy. Differential diagnosis of animal bone remains and human bone remains.
- 8.Introduction to Osteology. Structure and function of the skeletal system. Classification and description of bones.
- 9.Cranial skeleton. Craniology. Anatomy of the skull. Epigenetic characters.
Cranimetry. Points, measures and indexes.
- 10.Physical anthropology of the postcranial skeleton.
- 11.Anthropological study of the tooth. Forensic odontostomatology.
- 12.Determination of sex. Morphognostic and morphometric methods.
- 13.Estimation of osteological age in adults and subadults.
- 14.Individual characteristics. Determination of laterality. Reconstruction of height and weight estimation.
- 15.Paleopathology. Disease in the bone. Elements for identification.
- 16.Collection, transfer and preservation of skeletal remains. Collection of evidence at the place of discovery
- 17.Human burials Determination of the number of individuals in multiple burials. The skeletal process cadaveric.
Anthropological study on corpses in poor condition. Establishment of the date of death.
- 18.Mass Disasters Forensic anthropology in events with multiple victims. Intervention in events against Human Rights.
- 19.Techniques of dating in skeletal remains and chemical reconstruction of the diet
- 20.Anthropology of the living subject. Somatometry and body composition.
- 21.Determination of age in the living subject.
22. The report in Physical Anthropology.

5.4.Course planning and calendar

5.5.Bibliography and recommended resources

1. DELGADO S Y COLS. Tratado de Medicina Legal y Ciencias Forenses (Vols I, II y III). Barcelona-Bosch Editorial, 2011.

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2. HINOJAL FONSECA, R. Manual de Medicina Legal y Toxicología. Oviedo:Arcano, 1997.
3. GISBERT CALABUIG, J.A.: Medicina Legal y Toxicología.Editorial .Barcelona Masson,1997.
4. MARTÍNEZ JARRETA B. (Ed)La prueba del ADN en Medicina Forense. Barcelona: Masson. 1999.
5. MARTÍNEZ JARRETA B. La prueba pericial médica en el Derecho.Zaragoza: Servicio de Publicaciones de la Universidad de Zaragoza.1996: 143162.
6. MARTÍNEZ JARRETA B. Ciencia Forense. Revista Aragonesa de Medicina Legal.Zaragoza: IFC (CSIC).
7. VARGASALVARADO,E.: Medicina Forense y Deontología Médica. Ciencias Forenses para Médicos y Abogados. Ed. Trillas, Méjico,1991.
8. VÁSQUEZ MARÍAS P.; MARTÍNEZ JARRETA B. Documentos MédicoLegales. Colección"Orfila & Rotger" de Ciencia Forense .Zaragoza: IFC (CSIC).
9. VILLANUEVA CAÑADAS E. GISBERT CALABUIG.Medicina Legal y Toxicología.Barcelona Masson,2004.

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Web de interes en la asignatura:

- o - **American Academy of Forensic Science**
 - <http://www.aafs.org/>
- **Federal Bureau of Investigation**
 - <http://www.fbi.gov/>
- **International Society for Forensic Genetics (ISFG)**
 - <http://www.isfg.org/>
- **Forensic Science Society**
 - <http://www.forensic-science-society.org.uk/index.html>
- **Forensic Pathology**
 - <http://www.autopsy-md.com>
- **Australian and New Zealand Forensic Science Society (ANZFSS)**
 - <http://www.anzfss.org.au/>
- **Canadian Society of Forensic Science**
 - <http://www.csfs.ca/>
- **Society of Forensic Engineers and Scientists**
 - <http://www.forensic-society.org/>
- **Soci t  de M decine L gale et de Criminologie de France**
 - <http://www.smlc.asso.fr/>
- **European Network of Forensic Science Institutes**
 - <http://www.enfsi.eu/>
- **Focus on Forensic. Forensic Education Website**
 - <http://www.forensiceducation.com/>
- **College of American Pathologists**
 - <http://www.cap.org/apps/cap.portal>
- **Forensic Medicine for Medical Students**
 - <http://www.forensicmed.co.uk/>
- **Victorian Institute of Forensic Medicine**

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- <http://www.vifm.org/>
- Reddy's forensic homepage
- <http://www.forensicpage.com/>
- Alan Barbour's Forensic Toxicology Page
- <http://www.abarbour.net/>
- Crime Library
- <http://www.crimelibrary.com/>
- Zeno's Forensic Site
- <http://forensic.to/forensic.html>
- The Pathology Guy
- <http://www.pathguy.com/>
- Department of Anthropology of the University of Tennessee
- <http://web.utk.edu/~anthrop/>
- Universidad de Antioquia (Colombia). Antropología Biológica. Paleoantropología y evolución.
- <http://aprendeenlinea.udea.edu.co/lms/moodle/course/view.php?id=444>
- Sociedad Española de Antropología Física
- <http://www.seaf.es/>
- Antropología física de Chile
- <http://antropologiafisica.cl/>
- Asociación española de antropología y odontología forense [enlaces]
- <http://www.aeaof.com/publicaciones.htm>
- <https://www.google.es/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0ahUKEwiK0tmuhsvNAhXlIbxQKHbFgAU>