

Doctoral School: **Biology Doctoral School**  
Doctoral Program: Neuroscience and Human Biology

Subject code: **BIO/7/50**

Subject title: **Physical anthropological research methods L**

Teacher and Neptun code: **Dr. Hajdu Tamás (NLVRBV)**

Credits: 4

Class hours: 2 hours/week, lecture

#### Aims of the course

The lecture provides an overview of the classical and modern research methods used to examine anthropological findings.

#### Contents of the course

1. Historical anthropological introduction.
2. Estimation of mortality age on historical human remains. Theoretical and practical acquisition of methods.
3. Determination of morphological sex. Sex-determination in practice, application of sex-determination methods.
4. Investigation of non-metric, morphological and taxonomic features. Understanding the anatomical variations, non-metric, morphological and taxonomic features of the human skeleton in practice.
5. Paleodemography. Acquisition of Paleodemographic methodology in theory and practice, calculation of demographic characteristics of historical populations.
6. Craniometric and osteometric examinations. Understanding the measuring points and metric features of the skull and skeleton in practice, multivariate statistical methods in historical anthropological studies. Calculation of craniometric and osteometric indices, height estimation, search for biological analogies.
7. Paleopathology 1. History of paleopathology, its limitations and possibilities, theoretical introduction.
8. Paleopathology 2. Methodological knowledge.
9. Paleopathology 3. Grouping and recognition of diseases.
10. Possibilities of studying the anthropological material of tombs with cremation rites. Investigation of calcined human residues.
11. Stable isotope studies in bioarchaeology. Theoretical presentation of stable isotope study possibilities.
12. Archaeogenetic research. DNA research in the past and today.
13. Complex biological reconstruction of historical populations. Presentation of specific complex research results.
14. Material study. Application of the learned methodologies on human remains of historical age.

#### Requirements

Preparation of a data report and written exam.

#### Literature

Bodzsár-Zsákai: Humánbiológiai gyakorlati kézikönyv

Farkas Gyula: Antropológiai praktikum I (paleoantropológiai metodikák)

selected scientific papers

lecture slides

