

## Liverpool John Moores University

Title: FORENSIC ANTHROPOLOGICAL GENETICS  
Status: Definitive  
Code: **6311NATSCI** (122371)  
Version Start Date: 01-08-2021

Owning School/Faculty: Biological and Environmental Sciences  
Teaching School/Faculty: Biological and Environmental Sciences

Team	Leader
Rui Leite Portela Martiniano	Y

**Academic Level:** FHEQ6  
**Credit Value:** 20  
**Total Delivered Hours:** 40  
**Total Learning Hours:** 200  
**Private Study:** 160

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	18
Practical	8
Workshop	14

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	Casework	Casework portfolio developed during practicals and workshops.	50	
Test	Test	Interpretative Test. Lecture notes allowed.	50	

### Aims

*This module will explore the uses of genetic techniques in the field of forensic science and anthropology from a theoretical and practical perspective.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate a theoretical and practical knowledge of the main techniques involved in forensic and anthropological studies and evaluate their advantages and limitations.
- 2 Use DNA data in a forensic context.
- 3 Use DNA data to study past populations.
- 4 Present results of DNA analysis in written form.

## Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Casework report	1	2	4
Interpretative Test	1	2	3

## Outline Syllabus

*Genetic markers. DNA typing. DNA extraction. PCR. Electrophoresis. Kinship. DNA identification in forensic casework. DNA databases. DNA matching probabilities. Palaeogenetics. Miscoding lesions. Contamination. DNA approach to study of migrations. DNA approach to study of human variation and evolution.*

## Learning Activities

Learning will be delivered through a series of lectures, both from expert staff and invited speakers. Theory will be complemented with laboratory practicals and workshops.

## Notes

The module focuses on the use of DNA techniques in the fields of Forensic Science and Forensic Anthropology.