

Liverpool John Moores University

Title: CELL BIOLOGY AND HUMAN PHYSIOLOGY
Status: Definitive
Code: **4500ICBTBE** (127037)
Version Start Date: 01-08-2021

Owning School/Faculty: Pharmacy & Biomolecular Sciences
Teaching School/Faculty: ICBT, Colombo

Team	Leader
Alison Cotgrave	Y

Academic Level: FHEQ4 **Credit Value:** 15 **Total Delivered Hours:** 62
Total Learning Hours: 150 **Private Study:** 88

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	45
Practical	15

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Formal written exam	70	2
Report	Report	1500 word report based on practicals	30	

Aims

To enable learners to develop detailed knowledge and understanding of the anatomical structure and biochemical composition of human specialized cells and their physiological function; various systems of the human body and their coordinated functions; communication between distinct human tissues and organs; components of human homeostatic control systems and the maintenance of a constant internal environment.

Learning Outcomes

After completing the module the student should be able to:

- 1 Identify the functions of the cellular organelles together with the associated biochemical processes, and explain the functions of major varieties of body tissues.
- 2 Describe the processes of reproduction and foetal development and explain the effect of aging in physiological system.
- 3 Recognise the integrated nature of human physiological systems and their importance in homeostasis.
- 4 Describe the structure and functions of the cardiovascular, respiratory, digestive, renal and musculoskeletal systems.

Learning Outcomes of Assessments

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

Formal Written Exam	2	3	4
Report based on practicals	1		

Outline Syllabus

Structure and function of specialized cells
Maintenance of a constant internal environment
Cardio vascular system
Physiology of kidney and body fluids
Reproduction and development
Effect of ageing on physiological systems
Role of physiological control of the body
Respiratory System
Digestive system

Learning Activities

Students will be supported in their learning, to achieve the above learning outcomes, in the following ways:

- Basics in cytology, histology and human physiology acquired through lectures, tutorials and group work.
- Pathological aspects by tutor-led case studies in a theoretical manner.

Notes

Learners will need access to appropriate laboratory, library and IT facilities and tutorials.

