Liverpool John Moores University

Title: TARGET ORGAN TOXICOLOGY

Status: Definitive

Code: **6002BMBMOL** (101485)

Version Start Date: 01-08-2011

Owning School/Faculty: Pharmacy & Biomolecular Sciences Teaching School/Faculty: Pharmacy & Biomolecular Sciences

Team	Leader
Kenneth Ritchie	Υ
Kehinde Ross	
David Billington	

Academic Credit Total

Level: FHEQ6 Value: 12.00 Delivered 25.00

Hours:

Total Private

Learning 120 Study: 95

Hours:

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	20.000
Online	3.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	2 essay questions out of 4	70.0	2.00
Presentation	AS2	One in class assessment based on independent study.	30.0	

Aims

To develop in students an in-depth knowledge of the effects of toxic agents upon various key organ systems of the body, and to study the toxicity of various chemicals of forensic importance.

Learning Outcomes

After completing the module the student should be able to:

- 1 Discuss the concept and principles of target organ toxicity.
- 2 Discuss the mechanisms of action of specific organ toxicants, and the biochemical and functional changes in the target organs.
- Discuss the mechanisms of action and toxic effects of specific toxicants of forensic importance.

Learning Outcomes of Assessments

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

EXAM 1 2

Poster presentation 2 3

Outline Syllabus

The nature of target organ toxicity.

Metabolic, biochemical, functional and pathological changes associated with toxicity in the major organ systems, including the cutaneous, renal, respiratory, cardiovascular, nervous and hepatic systems.

The toxicity of some compounds of forensic importance.

Learning Activities

Lectures, private study.

References

Course Material	Book
Author	Timbrell, J.A.
Publishing Year	2008
Title	Principles of Biochemical Toxicology.
Subtitle	
Edition	4rth
Publisher	Informa Healthcare
ISBN	

Course Material	Book
Author	Ballantyne, B., Marrs, T.C., Syversen, T.
Publishing Year	1999
Title	General and Applied Toxicology

Subtitle	
Edition	2nd ed.
Publisher	Macmillan
ISBN	0333698681

Course Material	Book
Author	Klaasen, CD and Watkins, JB
Publishing Year	2003
Title	Casarett and Doull's Essential's of Toxicology
Subtitle	
Edition	
Publisher	McGraw Hill
ISBN	

Notes

This module enables the student to gain a detailed understanding of how various agents cause specific organ toxicity and the bodies response to such damage.