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Title: Forensic Science
 Status: Definitive
 Code: **4004FSBMOL** (116974)
 Version Start Date: 01-08-2017

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

Team	Leader
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Academic Level: FHEQ4 **Credit Value:** 24 **Total Delivered Hours:** 61.5

Total Learning Hours: 240 **Private Study:** 178.5

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	36
Off Site	8
Practical	12
Workshop	4

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Ass 2	closed book assessment	50	1.5
Portfolio	Ass 1	Based on practical sessions	50	

Aims

To introduce the students to a variety of procedures and methods used in forensic investigations.

Learning Outcomes

After completing the module the student should be able to:

- 1 give a resume of the various branches of forensic science and types of forensic evidence including the use of statistical methods for evaluation of evidence.
- 2 evaluate the significance of forensic evidence in specific cases.
- 3 describe in some detail the methods of investigation applied by forensic scientists.
- 4 Perform simple laboratory tests relevant to the module content

Learning Outcomes of Assessments

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

closed book assessment	1	2	3
Based on practical sessions	2	4	

Outline Syllabus

The history of forensic science.

trace evidence: recovery, statistical analysis. Examples could include hair, paint etc

Forensic biology for example Body Fluids: tests for blood, semen, saliva, protein

polymorphism. DNA analysis. Entomology

Relevant legislation.

Fingerprints including chemical enhancement techniques

Forensic toxicology: metabolism, poisons and drugs of abuse, effects, legislation, analysis.

RTA and ballistic analysis using simple physical methods.

Introduction to microscopy

Interpretation of evidence.

case studies.

Introduction to SPSS analysis

Learning Activities

lectures, problem based learning workshops, practical classes, self-study, group work

Notes

The module provides an introduction to the methodology and working practices of forensic scientists.