	Reference AS2011
	SCQF 8
Module Title	Level
Forensic Biology	SCQF Points 15
	ECTS Points 7.5
Keywords	Created June 2002
Forensic Biology, Biological Materials, Blood	Approved June
Spatter Patterns, Palynology, Entomology	Approved 2002
	AmendedMay 2011
	Version No. 4

This Version is No Longer Current

The latest version of this module is available here

Prerequisites for Module Indicative Student Work		Workload
Analytical Techniques for Life	Contact Hours	Full Time
Sciences (AS1802) or equivalent	Laboratory Work	12
Corequisite Modules	Lectures/Case Studies	24
None.	Private Study	
Precluded Modules	Directed Study	44
	Private Study	70
None.	Mode of Delivery	

Aims of Module

To provide students with the knowledge and skills to carry out and evaluate laboratory work involving forensic biology techniques.

Learning Outcomes for Module

Mode of Delivery

This module is delivered by formal lectures supplemented by tutorials and practical work.

Assessment Plan

	Learning Outcomes	
	Assessed	
Component 1	1,2,3,4	

On completion of this module, students are expected to be able to:

- 1.Explain the theoretical basis underlying forensic tests used in the examination of a range of biological materials.
- 2. Appreciate practical applications of forensic biology tests.
- 3.Interpret example bloodstain patterns in a scientific manner.
- 4.Demonstrate knowledge of the recovery of biological evidence.

Indicative Module Content

Theory underlying modern forensic examination techniques used to analyse evidential information. The scientific basis for tests for body samples (blood, semen, faeces, saliva and squamous epithelia) in terms of their biological properties, persistence and the techniques that can be used to extract relevant biological information from them. Practical application of a range of biological forensic tests. Assessment of significance of evidence. Presentation of evidence. Bloodstain Pattern Interpretation. Physical Properties of Blood Mechanisms of Spatter Formation. Steps to determine the origin of a spatter

The module is assessed by a closed book examination.

Indicative Bibliography

- 1.JAMES, S.H., KISH, P.E. and SUTTON, T.P., *Principles of Bloodstain Pattern Analysis:*Theory and Analysis<i/>
 Edition. CRC Press.
- 2.JAMES, S.H. and NORDBY, J.J., Forensic Science: An Introduction to Scientific and Investigative Techniques. Current Edition. CRC Press
- 3.REED,R.H., HOLMES,D., WEYERS,J., JONES,A., *Practical Skills in Biomolecular Sciences*. Current Edition. Pearson Education Ltd.
- 4. WONDER, A.Y., Bloodstain
 Pattern Evidence: Objective
 Approaches and Case
 Applications. Current Edition.
 Academic Press.
- 5.LANGFORD, A., DEAN, J.R., REED, R., HOLMES, D., WEYERS, J. and JONES, A., *Practical Practical Skills in Forensic* Science. Current Edition. Pearson Education Ltd.

pattern. Insect life cycles. Entomological evidence in forensic cases. Pollen, spores, algae and plant materials as evidence.