

MODULE SPECIFICATION PROFORMA

Module Title:	Forensic Research Project	Level:	6	Credit Value:	40
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Module code:	SCI610	Is this a new module?	No	Code of module being replaced:	
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Cost Centre(s):	GAFS	JACS3 code:	F410
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With effect from:	September 18
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School:	Applied Science, Computing & Engineering	Module Leader:	Dr Ian Ratcliffe
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Scheduled learning and teaching hours	60 hrs
Guided independent study	340 hrs
Placement	
Module duration (total hours)	400 hrs

Programme(s) in which to be offered	Core	Option
BSc (Hons) Forensic Science	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Pre-requisites
None.

Office use only

Initial approval: February 17

APSC approval of modification: *Enter date of approval*

Version: 1

Have any derogations received SQC approval?

Yes No N/A

If new module, remove previous module spec from directory?

Yes No

Module Aims

The purpose of this module is for students to integrate and apply knowledge gained during their degree studies in a self-motivated, practical, enquiring and problem solving manner, thereby extending their own learning to a specific area in forensic or material science.

To develop student's practical research expertise and prepare them for postgraduate study/graduate level employment in (forensic) science.

Intended Learning Outcomes

Key skills for employability

- KS1 Written, oral and media communication skills
- KS2 Leadership, team working and networking skills
- KS3 Opportunity, creativity and problem solving skills
- KS4 Information technology skills and digital literacy
- KS5 Information management skills
- KS6 Research skills
- KS7 Intercultural and sustainability skills
- KS8 Career management skills
- KS9 Learning to learn (managing personal and professional development, self-management)
- KS10 Numeracy

At the end of this module, students will be able to

Key Skills

At the end of this module, students will be able to		Key Skills	
1	Plan research project or equivalent advanced scholarship.	KS3	KS6
2	Collect and critically appraise written scientific information.	KS1	KS4
		KS5	KS6
3	Critically evaluate experimental information and appropriately set up instrument or research methodology and strategy.	KS3	KS5
		KS6	
4	Formulate an in-depth understanding of the scientific topic, construct scientific argument and incorporate a critical ethical dimension wherever applicable.	KS1	KS6
5	Present and defend the research outcomes orally and in writing.	KS1	

Transferable skills and other attributes

- Safe-working laboratory practices.
- Observation, recording and presenting complex scientific data.
- Numeracy, literacy, IT and information management.
- Time management.
- Problem solving skills.
- Literature search, data processing and academic writing skills.
- Team working.

Derogations

N/A.

Assessment:

Assessment 1: Project dissertation. This includes a Project Plan and Literature Review which are submitted in advance of the final dissertation.

Assessment 2: Oral presentation (15 min).

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1-5	Dissertation	80		7000-9000
2	5	Presentation	20	15 min	

Learning and Teaching Strategies:

Students will receive introductory lectures outlining the aim of the module and giving (generic) guidance on how to carry out the work. Students will also have individual tutorials with their project supervisor to guide their work and ensure appropriate progress is being made.

Practical work will be performed by the student under the direction of appropriate staff members.

Syllabus outline:

Research, as appropriate, on an agreed topic.

Bibliography:

Essential reading

This will depend on the project. Essential reading is expected to be mainly research papers and, if applicable to the project, case studies and court papers.

Other indicative reading

Kirkup, L. (2012). *Data Analysis for Physical Scientists: Featuring Excel®*. 2nd ed. Cambridge: Cambridge University Press.

Marder, M.P. (2011). *Research Methods for Science*. Cambridge: Cambridge University Press.

McCormac, C., Davis, J., Papakonstantinou, P. and Ward, N.I. (2012). *Research Project Success: The Essential Guide for Science and Engineering Students*. Cambridge: Royal Society of Chemistry.

Leedy, P.D. and Ormrod, J. E. (2012). *Practical Research Planning and Design*. 10th ed. New Jersey: Prentice Hall.