ROBERT GORDON UNIVERSITY ABERDEEN

MODULE DESCRIPTOR

Module Title

Computing Science Research

Reference	CMM302	Version	3
Created	February 2025	SCQF Level	SCQF 11
Approved	April 2019	SCQF Points	15
Amended	February 2025	ECTS Points	7.5

Aims of Module

This module aims to provide students with the skills to read and critically evaluate state-of-the-art and current research trends in Computing Science.

Learning Outcomes for Module

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

1	Criticise current and emerging trends in computing and how they affect the development and use of technologies.
2	Produce a literature review on a topic of specialist interest, involving critical appraisal of relevant research methods, and collaboration with others in reviewing peer research.
3	Take responsibility for conducting a programme of independent research using appropriate software tools, and professional skills, to create solutions to a given problem.
4	Evaluate the effect of current technologies on the behaviour of users, consumers, companies, and reflect on the need for responsible research in the computer science industry.

Indicative Module Content

Computing Science trends, introduction to research methods, critique of research, academic writing, dissemination, and plagiarism avoidance.

Module Delivery

Lectures and seminars are used to deliver the main principles and will be based on extensive use of case studies. Practical sessions are used to acquire practical skills and reinforce knowledge.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	30	N/A
Non-Contact Hours	120	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
Actual Placement hours for professional, statutory or regulatory body		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type:	Coursework	Weighting:	100%	Outcomes Assessed:	1, 2, 3, 4

Description: Portfolio consisting of a written report and presentation.

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

The calculation of the overall grade for this module is based on 100% weighting of a single coursework. An overall minimum grade D is required to pass the module.

Module Grade	Minimum Requirements to achieve Module Grade:
A	The student must achieve an A in the coursework
B	The student must achieve a B in the coursework
C	The student must achieve a C in the coursework
D	The student must achieve a D in the coursework
E	The student must achieve an E in the coursework
F	The student must achieve an F in the coursework
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module	None.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

1 Bell, J. (2010) Doing Your research Project. 4th edn. Maidenhead, UK: Open University Press.

2 Zobel, J. (2004) Writing for Computer Science. 2nd edn. London, UK: Springer.

3 Dawson, C.W. (2015) Projects in Computing and Information Systems (A Student?s Guide). 3rd edn. Boston, MA: Addison Wesley.

4 Gash, S. (2000) Effective Literature Searching for Research. 2nd edn. Aldershot, UK: Gower.

5 Bott, F. (2014) Professional Issues in Information Technology. 2nd edn. Swindon, UK: BCS.

6 Bowden, J. (2011) Writing a report: How to prepare, write and present really effective reports. 9th edn. London, UK: How To Books Ltd.

7 Choen, L., Manion, L. and Morrison, K. (2011) Research Methods in Education. 7th edn. Milton Park, UK: Routeledge.

8 Other bibliography will be based on current literature on new trends in computing, as per the topics described in indicative module content.