Module Definition Form (MDF)

Module code: MOD007894	**Version:** 2 **Date Amended:** 22/Mar/2023

1. Module Title
Data Analytics Major Project

2a. Module Leader
Mahdi Maktab Dar Oghaz

2b. School
School of Computing and Information Sciences

2c. Faculty
Faculty of Science and Engineering

3a. Level
7

3b. Module Type
Project or dissertation (fine graded)

4a. Credits
60

4b. Study Hours
600

5. Restrictions

Type	Module Code	Module Name	Condition
Pre-requisites:	None		
Co-requisites:	None		
Exclusions:	None		
Courses to which this module is restricted:	MSc Applied Data Science		

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description

This module consists of two parts.

The first section of this module offers you an introduction to a real-world project brief that allows you to understand and appreciate the need for Data Science in professional and research environments. This will enhance your employability skills. During your project brief stage you will familiarise yourself with real-world Data Science applications

work with your supervisor as a team player, improve your key communication and personal skills and appraise the relevance of your academic skills in real-life scenarios. You will be expected to identify the topic of your major project / master dissertation, reflecting on how you can apply your knowledge of research methodology and project proposal preparation in defining your actual major project in a relevant applied data science area of your choice, relevant to your course.

The second (main) section of this module supports you in the development, preparation and submission of a masters level project and dissertation. This represents a significant commitment and will be presented in a written document / report equivalent to a maximum of 10,000 words. The project topic will be assessed for suitability to ensure sufficient academic challenge and satisfactory supervision by an academic member of staff. The chosen topic will require the student to identify / formulate problems and issues, conduct literature reviews, evaluate information, investigate and adopt suitable development methodologies, determine solutions, develop data science artefacts as appropriate, process data, critically appraise and present their findings. Regular meetings with the project supervisor will take place so that the project is closely monitored and steered in the right direction. Appropriate intellectual property and/or confidentiality agreement may need to be set in place. Details of our Intellectual Property Policy and Guidelines can be found on My.Anglia under Research Development and Innovation Office or by contacting that Office for further information.

6b. Outline Content

This will vary according to the nature and field of study selected by the student and agreed with the supervisor. However all projects will involve an extensive literature review of the relevant research area, the design and conduct of an empirical piece of research, giving due weight to ethical and practical considerations, and writing this research up following an approved format.

6c. Key Texts/Literature

The reading list to support this module is available at: https://readinglists.aru.ac.uk/

6d. Specialist Learning Resources
Anglia Ruskin Digital Library [http://libweb.anglia.ac.uk] Especial attention is drawn to the documentation on the use of Harvard Referencing [http://libweb.anglia.ac.uk/referencing/referencing.htm] The PILOT online tutorial in academic practice [http://libweb.anglia.ac.uk/pilot] The Presentation and Submission of Projects [http://libweb.anglia.ac.uk/guides/information_skills.html].

7. Learning Outcomes (threshold standards)		
No.	**Type**	**On successful completion of this module the student will be expected to be able to:**
1	Knowledge and Understanding	Identify, propose, and define the scope of a significant and complex area for investigation/enquiry appropriate to a MSc level dissertation/project and critically evaluate literature from a range of appropriate scientific resources.
2	Knowledge and Understanding	Demonstrate a critical understanding of the need for Data Science in various work sectors.
3	Knowledge and Understanding	Demonstrate an understanding of the nature of interpersonal and group processes in a work environment.
4	Knowledge and Understanding	Select, reflect upon, justify and use appropriate techniques, methodologies and practical strategies (including where appropriate accounting for any ethical factors).
5	Intellectual, practical, affective and transferrable skills	Make explicit the above processes within the context of a written report.
6	Intellectual, practical, affective and transferrable skills	Critically appraise challenges in real-life problems, identifying an appropriate scenario for project development, and acquire the skills required for working independently on appropriate data science solutions

8a. Module Occurrence to which this MDF Refers				
Year	**Occurrence**	**Period**	**Location**	**Mode of Delivery**
2025/6	ZZF	Template For Face To Face Learning Delivery		Face to Face

8b. Learning Activities for the above Module Occurrence			
Learning Activities	**Hours**	**Learning Outcomes**	**Details of Duration, frequency and other comments**
Lectures	3	4	Initial 1-hour meeting between tutor and students to discuss/prepare the placement period. Group resource events include on-line ethics training, on-demand webcasts such as video-captured presentations (2 hours).
Other teacher managed learning	5	1-6	1-hour tutor/supervisor to visit student at workplace (in person or virtual, not timetabled) [LO 2,3,6]. Up to 4 hrs regular on-line (real-time) meetings with supervisor (e.g. telephone, Skype). The frequency and duration of such real-time meetings will be by agreement and supplemented by email. [LO 1,4,5,6]
Student managed learning	592	1-6	Activities related to mini-placement, project identification, project completion and writing up.
TOTAL:	600		

9. Assessment for the above Module Occurrence					
Assessment No.	**Assessment Method**	**Learning Outcomes**	**Weighting (%)**	**Fine Grade or Pass/Fail**	**Qualifying Mark (%)**
010	Coursework	1-6	10 (%)	Fine Grade	40 (%)
A 500 words equivalent project proposal based on information in the mini-placement, to include a brief reflective analysis on how the placement developed the understanding of a work environment and reflection on the skills developed (personal, career and academic) during the mini-placement period.					
Assessment No.	**Assessment Method**	**Learning Outcomes**	**Weighting (%)**	**Fine Grade or Pass/Fail**	**Qualifying Mark (%)**
011	Coursework	1-6	90 (%)	Fine Grade	40 (%)
Dissertation up to 10,000 words.					

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7*).

In addition, students are required to:
(a) achieve the qualifying mark for each element of fine graded assessment as specified above
(b) pass any pass/fail elements

[* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]