H8DSP: Data Science Project

Module Code:	H8DSP
Long Title	Data Science Project APPROVED
Title	Data Science Project
Module Level:	LEVEL 8
EQF Level:	6
EHEA Level:	First Cycle
Credits:	20
Module Coordinator:	Arghir Moldovan
Module Author:	Arghir Moldovan
Departments:	School of Computing
Specifications of the qualifications and experience required of staff	Master's degree in a computing or cognate discipline. May have industry experience also.

Learning Outcomes	
On successful completion of this module the learner will be able to:	
#	**Learning Outcome Description**
LO1	Apply knowledge, skills and competencies acquired during the programme of study and work placement to the analysis and solution of a real-world or research problem.
LO2	Specify, design and implement a medium-to-large scale project related to the area of study using ethically sourced datasets.
LO3	Carry out project planning and time management activities to meet strict project deadlines.
LO4	Develop and enhance interpersonal communication, presentation and storytelling skills.
LO5	Document, present and defend the project through a technical document, presentation, and demonstration of relevant artefact, product or data analysis.

Dependencies
Module Recommendations
No recommendations listed
Co-requisite Modules
No Co-requisite modules listed

Entry requirements	Learners should have attained the knowledge, skills and competence gained from stage 3 of the BSc (Hons) in Data Science

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Module Content & Assessment

Indicative Content
Time and Project Management This seminar will give students an overview of how to use their time effectively and how to manage multiple tasks at the same time. The primary focus will be on how a student can best manage their time to reach their project goals.
GitHub This seminar will give an overview on how to use GitHub for code versioning. Students are requested to have a GitHub Account set up before attending this class.
Requirements Gathering This seminar will give an overview on requirements gathering, a critical step in any project.
Academic Writing and Referencing This seminar will give an overview on academic writing, how to reference correctly (including how to use a reference management system such as Zotero).
Conducting a literature review This seminar will give an overview of how to conduct a literature review, including how to search for relevant research articles using online research engines and databases (e.g., Google Scholar, IEEE Xplore, etc.)
LaTeX This seminar will provide an overview of using LaTeX typesetting system.
Data Pipelining This seminar will provide an overview of data pipelining between various sources and databases
Mid-point Presentation Guide This seminar will discuss what is required at the Mid-Point Presentations.
Presentation Skills This seminar will contain an overview of how to present information clearly and effectively.
Understanding the Marking Scheme This seminar will overview the marking scheme and how students to ensure that their project avails of the marking allowances.
Showcase Deliverables This seminar will provide an overview of the materials required for the project showcase (e.g., poster, demo, photos, profile description)

Assessment Breakdown	%
Coursework	100.00%

Assessments

Full Time

Coursework

Assessment Type:	Continuous Assessment	**% of total:**	Non-Marked
Assessment Date:	n/a	**Outcome addressed:**	1,2,3,4,5
Non-Marked:	Yes		

Assessment Description:
Formative assessment will be provided both by the lecturer and supervisor on an ongoing basis.

Assessment Type:	Project	**% of total:**	100
Assessment Date:	n/a	**Outcome addressed:**	1,2,3,4,5
Non-Marked:	No		

Assessment Description:
Learners will implement a data science project

No End of Module Assessment

No Workplace Assessment

Reassessment Requirement

Coursework Only
This module is reassessed solely on the basis of re-submitted coursework. There is no repeat written examination.

Reassessment Description
Learners who fail the Data Science Project module will be required to do a repeat project where all learning outcomes will be examined.

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Module Workload

Module Target Workload Hours 0 Hours

Workload: Full Time

Workload Type	*Workload Description*	*Hours*	*Frequency*	*Average Weekly Learner Workload*
Lecture	Classroom & Demonstrations (hours)	24	Per Semester	2.00
Independent Learning	Independent learning (hours)	226	Per Semester	18.83
			Total Weekly Contact Hours	2.00

Module Resources

Recommended Book Resources

Lipston, C.. (2005), How to Write a BA Thesis: A Practical Guide from Your First Ideas to Your Finished Paper, University of Chicago Press.

Swetnam, D.& Swetnam, R.. (2000), Writing Your Dissertation: The bestselling guide to planning, preparing and presenting first-class work (3rd Ed, Hachette UK,).

This module does not have any article/paper resources

Other Resources

[Website], Communicating data science: A guide to presenting your work, http://blog.kaggle.com/2016/06/29/commun icating-data-science-a-guide-to-presenti ng-your-work/

Discussion Note:	