

H6DAPROJ: Data Analysis Project

Module Code:	H6DAPROJ
Long Title	Data Analysis Project APPROVED
Title	Data Analysis Project
Module Level:	LEVEL 6
EQF Level:	5
EHEA Level:	Short Cycle
Credits:	10
Module Coordinator:	Arghir Moldovan
Module Author:	MICHAEL BRADFORD
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	
<i>On successful completion of this module the learner will be able to:</i>	
#	Learning Outcome Description
LO1	Engage in practical data analysis activities in an effort to solve a challenging business or research problem
LO2	Explain and justify the selection and application of state of the art analytics tools and techniques in a data analysis scenario
LO3	Employ appropriate research methods to guide the analysis of data from the web
LO4	Convey the results of the work through judicious visualisation and written documentation.
Dependencies	
Module Recommendations	
No recommendations listed	
Co-requisite Modules	
No Co-requisite modules listed	
Entry requirements	

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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.			
Version Control 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.)			
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.			
Assessment Breakdown			%
Coursework			100.00%
Assessments			
Full Time			
Coursework			
Assessment Type:	Evaluation	% of total:	Non-Marked
Assessment Date:	n/a	Outcome addressed:	1,2,3,4
Non-Marked:	Yes		
Assessment Description: Formative assessment will be provided both by the lecturer on an ongoing basis			
Assessment Type:	Project	% of total:	100
Assessment Date:	n/a	Outcome addressed:	1,2,3,4
Non-Marked:	No		
Assessment Description: Learners will implement a data analytics project			
No End of Module Assessment			
No Workplace Assessment			
Reassessment Requirement			
Repeat examination Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.			
Reassessment Description Learners who fail the Data Analytics 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
Tutorial	Other hours (Practical/Tutorial)	24	Per Semester	2.00
Independent Learning	Independent learning (hours)	202	Per Semester	16.83
Total Weekly Contact Hours				4.00

Module Resources	
<i>Recommended Book Resources</i>	
Swetnam, D. Writing Your Dissertation: How to Plan, Prepare and Present Successful Work, How to Books..	
<i>Supplementary Book Resources</i>	
None.	
<i>This module does not have any article/paper resources</i>	
<i>This module does not have any other resources</i>	
Discussion Note:	