

APPROVED

Programme Code	MSCDA	Programme Duration	1
Programme Level	9	EQF Level	7
Programme Credits	90	EHEA Level	Second Cycle
Semester Duration	12 Week(s)		
Language of Instruction	English		
Field of Study	0611 - Computer use		
Supplementary Field of Study	Computer use		
CAO Code; QQI Programme Code etc	Code		
Programme Extra Information	Approved on behalf of Pramod following discussion with Paul Stynes.		

Programme Outcomes

On successful completion of this programme the learner will be able to :

Description
On completion of the programme students will be able to: Conduct independent research and analysis in the field of Data Analytics.
On completion of the programme students will be able to: Formulate and implement a novel research idea using the latest industry practices.
On completion of the programme students will be able to: Demonstrate expert knowledge of data analysis, statistics, and the tools, techniques and technologies of Data Analytics utilised in both technical and business contexts.
On completion of the programme students will be able to: Critically assess, evaluate and communicate business & technical strategies for Data Analytics.
On completion of the programme students will be able to: Develop and implement effective business & technical solutions for Data Analytics.
On completion of the programme students will be able to: Critically assess and evaluate security, privacy, and ethical issues associated with the storage, transfer, and processing of data for analytical purposes.

Semester Schedules

Stage 1 / Semester 1

Core Subject	
Module Code	Title
H9DAP	Database and Analytics Programming

H9DMML1	Data Mining and Machine Learning I
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H9SDA	Statistics for Data Analytics
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Group Elective 1

Module Code	Title
H9BIBA	Business Intelligence and Business Analytics

Group Elective 2

Module Code	Title
H8DIA	Data Intensive Architectures

Group Elective 3

Module Code	Title
H9INN1	Innovation I

H9INN1	Innovation I
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Stage 1 / Semester 2

Core Subject

Module Code	Title
H9DMML2	Data Mining and Machine Learning II

H9MSO	Modelling, Simulation & Optimization
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H9RCOMP	Research In Computing
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Group Elective 1

Module Code	Title
H9DAPA	Domain Applications of Predictive Analytics

Group Elective 2

Module Code	Title
H9SSP	Scalable Systems Programming

Group Elective 3	
Module Code	Title
H9INN2	Innovation II
H9INN2	Innovation II

Stage 1 / Semester 3

Core Subject	
Module Code	Title
H9DGE	Data Governance and Ethics
H9DGE	Data Governance and Ethics
H9RPROJ	Research Project
H9RPROJ	Research Project