APPROVED

Programme Code	MSCDA	Programme Duration	1

Programme Level	9	EQF Level	7	EHEA Level	Second Cycle

Programme Credits	90

Semester Duration	12 Week(s)
Language of Instruction	English
Field of Study	0611 - Computer use
Supplementary Field of Study	Computer use
CAO Code; QQI Progamme 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

H9SDA	Statistics for Data Analytics

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

Stage 1 / Semester 2

Core Subject	
Module Code	**Title**
H9DMML2	Data Mining and Machine Learning II

H9MSO	Modelling, Simulation & Optimization

H9RCOMP	Research In Computing

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

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H9RPROJ	Research Project

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