

### Summary Information

<b>Module Code</b>	7031DATSCI
<b>Formal Module Title</b>	Work Based Project
<b>Owning School</b>	Computer Science and Mathematics
<b>Career</b>	Postgraduate Taught
<b>Credits</b>	60
<b>Academic level</b>	FHEQ Level 7
<b>Grading Schema</b>	50

### Module Contacts

#### Module Leader

Contact Name	Applies to all offerings	Offerings
Elon Correa	Yes	N/A

#### Module Team Member

Contact Name	Applies to all offerings	Offerings
Sandra Ortega Martorell	Yes	N/A
Ivan Olier-Caparroso	Yes	N/A

#### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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### Teaching Responsibility

LJMU Schools involved in Delivery
Computer Science and Mathematics

## Learning Methods

Learning Method Type	Hours
Seminar	22
Tutorial	11

## Module Offering(s)

Offering Code	Location	Start Month	Duration
SEP-CTY	CTY	September	12 Weeks

## Aims and Outcomes

<b>Aims</b>	The Work Based Project aims to apply data science to the solution of a real-world problem, which will help to consolidate knowledge and skills learnt using the tools and systems that data scientists and data engineers use.
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## Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Critically analyse the project requirements and apply scientific principles and methodology to tackle the specific problem.
MLO2	Apply advanced problem-solving skills, data science knowledge and understanding to develop rigorous and creative solutions.
MLO3	Evaluate the quality and suitability of the solution provided.
MLO4	Work flexibly and effectively within a group and be able to adapt to changing requirements.
MLO5	Demonstrate effective written and oral communication skills and an ability to confidently present work to a variety of audiences.

## Module Content

Outline Syllabus
Identification of the project requirements and its context. Establishment of an effective team. Project planning and control to ensure an efficient, timely and effective outcome which meets the project's expectations. Design, implementation and evaluation of a data science project, according to a managed plan. Presentation of data science solutions in a concise and professional way to a relevant audience, e.g. clients, peers and academic staff.

## Module Overview

### Additional Information

The project provides the opportunity to conduct a major learning activity on a relevant data science topic. The project requires the group to demonstrate a good team-working ethic, excellence in project management, advanced data science application and critical evaluation and presentational skills within a team working environment. Assignment 1 will be tutor assessed. Individual contributions will be identified within the body of the Initial Project Plan (equally reflected in the project pitch). Assignment 2 will be tutor and peer assessed, with each group member responsible for demonstrating their contribution to the Solution provided - individual members will be responsible for an equitable contribution to the solution. Assignment 3 and 4 will be tutor assessed. For the presentations, individual contributions to the project and responses to answers will be assessed independently. Peer assessment will be graded based upon pre-published criteria.

### Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Report	Initial Group Project Plan	15	0	MLO1
Report	Group Solution	30	0	MLO2, MLO4, MLO3
Report	Group Project Report	35	0	MLO2, MLO4, MLO5, MLO3
Presentation	Individual Presentation	20	0	MLO2, MLO5, MLO3