

## Liverpool John Moores University

Title: Work Based Project  
Status: Definitive  
Code: **7031DATSCI** (128362)  
Version Start Date: 01-08-2021

Owning School/Faculty: Computer Science and Mathematics  
Teaching School/Faculty: Computer Science and Mathematics

Team	Leader
Ivan Olier-Caparroso	Y
Sandra Ortega Martorell	

**Academic Level:** FHEQ7      **Credit Value:** 60      **Total Delivered Hours:** 33  
**Total Learning Hours:** 600      **Private Study:** 567

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Seminar	22
Tutorial	11

**Grading Basis:** 50 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Initial Group Project Plan – project pitch and management plan	15	
Presentation	AS2	Group Solution	30	
Report	AS3	Group Project Report	35	
Presentation	AS4	Individual Presentation	20	

### Aims

*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.

## Learning Outcomes

After completing the module the student should be able to:

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

## Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Initial Group Project Plan	1			
Group Solution	2	3	4	
Group Project Report	2	3	4	5
Individual Presentation	2	3	5	

## 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.*

## Learning Activities

This module will be student centered and led, but will be supported by regular advice and tutorial activities with the members of the team.

Students will work in small groups and will meet regularly with a member of the team and any internal or external stakeholders. Groups will develop an effective team-working ethic and project management skills. They will design their project plan where they will propose their own methodological approaches. During the development of their project, they will be fully supported and followed up by the team. At the end they will submit their solutions together with a project report. They

will have the opportunity to display all the skills learnt and to demonstrate creativity, initiative, and communication skills.

## **Notes**

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.