

# Data Analytics

## Module Information

2022.01, Approved

### Summary Information

Module Code	5510DAV
Formal Module Title	Data Analytics
Owning School	Engineering
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

### Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

### Partner Teaching Institution

Institution Name
German Academy for Foreign Trade and Logistics

### Learning Methods

Learning Method Type	Hours
Lecture	40
Workshop	40

### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-PAR	PAR	January	12 Weeks

## Aims and Outcomes

Aims	To understand different concepts of data warehousing and different methods of data mining.
------	--

**After completing the module the student should be able to:**

### Learning Outcomes

Code	Number	Description
MLO1	1	Plan and draft data warehouse-systems
MLO2	2	Apply different methods in data mining
MLO3	3	Use data analyses to enforce and support decision making in business

## Module Content

Outline Syllabus	1. Data Warehousing Fundamentals Architectures and Phases Data Models Concepts and Set-Ups 2. Data Mining Aims and Main Principles Preparing Data Methods of Analysis Diagnosis
Module Overview	
Additional Information	Data warehouses and their architecture are fundamental for managing data. Students will learn about the influence of data warehouses on issues and projects in data mining. Different concepts and set-ups will be studied and evaluated based on application. Students will also learn how to effectively prepare and analyse data to support decision making processes in business. Formal lectures will be supported by student group works which will be supervised by lecturers. Small group work projects will be carried out and presented for assessment.

## Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Exam	Written Exam	50	1.5	MLO1, MLO2
Presentation	Presentation	50	0	MLO2, MLO3

## Module Contacts

### Module Leader

Contact Name	Applies to all offerings	Offerings
Ben Matellini	Yes	N/A

### Partner Module Team

Contact Name	Applies to all offerings	Offerings
--------------	--------------------------	-----------