

CDS6214

Data Science Fundamentals

Course Information
Term 2510

Teaching Team



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Lecture: TC1L, TC3L

Lab: TT1L, TT2L, TT3L,
TT4L

Lecture: TC2L

Lab: TT5L, TT6L, TT7L,
TT8L

Lab: TT9L, TT10L

PROGRAMMING LANGUAGE AND SOFTWARE USED



Please install Python and Jupyter Lab/Notebook.

You can refer to this video for instructions:

<https://www.youtube.com/watch?v=yjjE-MJD5TI>

TEACHING AND LEARNING PLATFORM



- eBwise
 - ❖ Access teaching materials
 - ❖ Announcements
- Teams for online classes
 - ❖ Teams link will be provided in eBwise according to your lecture and tutorial sessions.



Subject Assessments

This subject is 100% coursework.

- Lab Exercises (30%)
- Tests (30%)
- Project (40%)



Assessments

- Lab Exercise (30%) : Release on the Monday of Week 12, consists of programming questions, group submission on the Sunday of Week 12.
- Test (30%): 8:00pm, 28th May 2025, Week 10 MCQ, individual submission, coverage include all lessons till Week 8.
- Project (40%): Release on Week 4, group submission on Week 13.
- You are to form group of 4 from the same tutorial session to complete the Lab Exercise and Project.

Teaching Plan

WEEKLY LESSON PLAN AND ASSESSMENT DUE DATES

WEEK	TOPICS/ACTIVITIES	ASSESSMENT METHOD & WEIGHTAGE	IMPORTANT NOTES
			Please state: i. Replacement classes (if applicable) ii. Public holidays and MMU major events
1.	Introduction		Supplementary Exam Week [Online T&L Week]
2.	DS Pipeline		31 March & 1 April (Mon & Tue) Eidul-Fitri [Online T&L Week]
3.	Data Wrangling		
4.	EDA	Release Project (40%)	
5.	Data Mining		
6.	Predictive Modeling		1 May (Thu) Labour Day
7.	Data Visualization		
8.	Big Data Architecture 1		12 May (Mon) Wesak Day
9.	Big Data Architecture 2		
10.	Big Data Architecture 3	Test (30%)	Test on 28 th May (Wed) 8:00pm
11.	Case study		2 June (Mon) Agong's Birthday 6 June (Fri) Hari Raya Korban [Online T&L Week]
12.	Ethics in Data Science	Lab Exercises (30%)	
13.	Project Submission		
14.	Project Presentation		27 June (Fri) Awal Muharram