WQD7007 Big Data Management

Introduction to the course

Academic Calendar

ACADEMIC CALENDAR
2024/2025 ACADEMIC SESSION
(MASTER'S AND DOCTORATE LEVEL)

SEMESTER I					
Orientation Week			29.09.2024	-	06.10.2024
Lectures	7	weeks*	07.10.2024	-	24.11.2024
Mid Semester I Break	1	week	25.11.2024	-	01.12.2024
Lectures	7	weeks*	02.12.2024	-	19.01.2025
Revision Week	1	week*	20.01.2025	-	26.01.2025
Semester I Final Examination	3	weeks*	27.01.2025	-	16.02.2025
Semester I Break	4	weeks	17.02.2025	-	16.03.2025
	23	weeks			
SEMESTER II					
Lectures	7	weeks*	17.03.2025	-	04.05.2025
Mid Semester II Break	1	week	05.05.2025	-	11.05.2025
Lectures	7	weeks*	12.05.2025	-	29.06.2025
Revision Week	1	week*	30.06.2025	-	06.07.2025
Semester II Final Examination	3	weeks*	07.07.2025	-	27.07.2025
Semester II Break	4	weeks	28.07.2025	-	24.08.2025
	23	weeks			
SPECIAL SEMESTER					
Lectures	7	weeks*	28.07.2025	-	14.09.2025
Special Semester Final Examination	1	week*	15.09.2025	-	21.09.2025
Break	1	week	22.09.2025		28.09.2025
	9	weeks			

Note:

(*) The Academic Calendar has taken into account public and festive holidays and is subject to change:

Deepavali	01 November 2024 (Friday)
Christmas Day	25 December 2024 (Wednesday)
New Year	01 January 2025 (Wednesday)
Chinese New Year	29 & 30 January 2025 (Wednesday & Thursday)
Federal Territory Day	01 February 2025 ((Saturday)
Thaipusam	11 February 2025 (Tuesday)
Nuzul Al-Quran	17 March 2025 (Monday)
Eidul Fitri	31 March & 01 April 2025 (Monday & Tuesday)
Wesak Day	12 May 2025 (Monday)
His Majesty the King's Birthday	02 June 2025 (Monday)
Eidul Adha	06 June 2025 (Friday)
Awal Muharam	27 June 2025 (Friday)

Senate Approval Date: 24.01.2024

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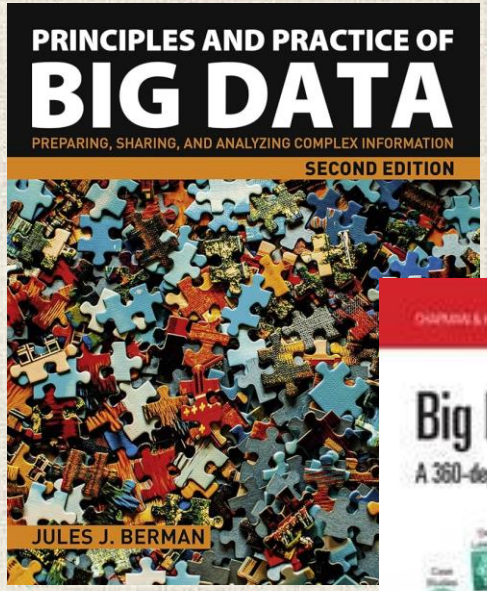
- Main textbook
- Most of the resources is available in the book (case study, etc)
- Relying only on lecture slides provided is NOT enough!



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- Course learning outcome (CLO):
  1. Explain the processes in data pipeline
  2. Discuss database concepts and technologies for big data storage and retrieval
  3. Apply appropriate models, tools, and technologies to implement storage, search and retrieval systems for large-scale structured and unstructured system
  4. Analyze data provenance and data trustworthiness, and its role in sharing and reuse of data

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- Method of assessment:
  - Continuous assessment (60%)
    - Tugasan (Minggu 4-5) / Assignment (Week 4-5) : 15%
    - Ujian pertengahan (Minggu 8) / Mid-term Test (Week 8) : 10%
    - Ujian Makmal (Minggu 11) / Lab test (Week 11) : 15%
    - Projek (Minggu 13-14) / Project (Week 13-14) : 20%
  - Alternative assessments (40%)
    - Penilaian Alternatif 1 (Minggu 14) / Alternative assessment 1 (week 14) = MCQ : 15%
    - Penilaian Alternatif 2 (Minggu 14) / Alternative assessment 2 (week 14) = Case study report : 25%

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- Topics to be covered:
  - Big data pipeline using Hadoop
  - Big data concepts
  - Big data technologies
  - Distributed computing for big data
  - Data provenance and data trustworthiness

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- Things to take note:
  - Online learning platform:
    - https://spectrum.um.edu.my/
    - Microsoft Teams
  - Software to be used:
    - OS: Ubuntu or CentOS, or
    - Virtualbox (if your system have 8 GB RAM or more)
    - Hadoop
  - Assignment 1!

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- Assignment & Project: Topics in Big Data
  1. Education
  2. Business
  3. Marketing
  4. Banking
  5. Agriculture and Crops
  6. Tourism and Hospitality
  7. Medical
  8. Defense and Security
  9. Veterinary
  10. Logistics and Transportation