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**ISIT312**

**Big Data Management**

**SIM S4 2025**

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# Lecturer and Tutor

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**Lecturer:**

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**Tutor:**

**Mr. Sionggo Japit**

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# Subject Schedule

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**Session: SIM S4 2025**

**Lecture schedule:**

Date	Time	Class Grp	Venue
27/9/2025	8:30:00 AM	L01_F,L02_P	A.1.09A (376pax)
27/9/2025	12:00:00 PM	L01_F,L02_P	A.1.09A (376pax)
29/9/2025	3:30:00 PM	L01_F	A.1.09A (376pax)
29/9/2025	7:00:00 PM	L02_P	A.3.09C (80pax)
30/9/2025	3:30:00 PM	L01_F	B.3.17 (296pax)
30/9/2025	7:00:00 PM	L02_P	A.3.09C (80pax)
2/10/2025	3:30:00 PM	L01_F	B.4.17 (296pax)
2/10/2025	7:00:00 PM	L02_P	A.2.17B (80pax)
4/10/2025	8:30:00 AM	L01_F,L02_P	A.1.09A (376pax)
4/10/2025	12:00:00 PM	L01_F,L02_P	A.1.09A (376pax)

# Subject Schedule

**Session: SIM S4 2025**

**Lab schedule:**

3/10/2025	8:30:00 AM	T01	HQ BLK A LAB A.5.20A/A.5.20B
10/10/2025	8:30:00 AM	T01	HQ BLK A LAB A.5.20A/A.5.20B
17/10/2025	8:30:00 AM	T01	HQ BLK A LAB A.5.20A/A.5.20B
24/10/2025	8:30:00 AM	T01	HQ BLK A LAB A.5.20A/A.5.20B
31/10/2025	8:30:00 AM	T01	HQ BLK A LAB A.5.20A/A.5.20B
5/11/2025	3:30:00 PM	T01	HQ BLK A LAB A.5.17A/A.5.17B
7/11/2025	8:30:00 AM	T01	HQ BLK A LAB A.5.20A/A.5.20B
14/11/2025	8:30:00 AM	T01	HQ BLK A LAB A.5.20A/A.5.20B
3/10/2025	12:00:00 PM	T02	HQ BLK A LAB A.5.20A/A.5.20B
10/10/2025	12:00:00 PM	T02	HQ BLK A LAB A.5.20A/A.5.20B
17/10/2025	12:00:00 PM	T02	HQ BLK A LAB A.5.20A/A.5.20B
24/10/2025	12:00:00 PM	T02	HQ BLK A LAB A.5.20A/A.5.20B
31/10/2025	12:00:00 PM	T02	HQ BLK A LAB A.5.20A/A.5.20B
7/11/2025	12:00:00 PM	T02	HQ BLK A LAB A.5.20A/A.5.20B
8/11/2025	3:30:00 PM	T02	HQ BLK A LAB A.5.17A/A.5.17B
14/11/2025	12:00:00 PM	T02	HQ BLK A LAB A.5.20A/A.5.20B
1/10/2025	3:30:00 PM	T03	HQ BLK A LAB A.5.20A/A.5.20B
8/10/2025	3:30:00 PM	T03	HQ BLK A LAB A.5.17A/A.5.17B
21/10/2025	8:30:00 AM	T03	HQ BLK A LAB A.5.17A/A.5.17B
25/10/2025	3:30:00 PM	T03	HQ BLK A LAB A.5.17A/A.5.17B
29/10/2025	3:30:00 PM	T03	HQ BLK A LAB A.5.17A/A.5.17B
7/11/2025	3:30:00 PM	T03	HQ BLK A LAB A.5.17A/A.5.17B
8/11/2025	12:00:00 PM	T03	HQ BLK A LAB A.5.17A/A.5.17B
11/11/2025	12:00:00 PM	T03	HQ BLK A LAB A.5.17A/A.5.17B

3/10/2025	3:30:00 PM	T04	HQ BLK A LAB A.5.20A/A.5.20B
10/10/2025	3:30:00 PM	T04	HQ BLK A LAB A.5.20A/A.5.20B
17/10/2025	3:30:00 PM	T04	HQ BLK A LAB A.5.20A/A.5.20B
24/10/2025	3:30:00 PM	T04	HQ BLK A LAB A.5.20A/A.5.20B
31/10/2025	3:30:00 PM	T04	HQ BLK A LAB A.5.20A/A.5.20B
8/11/2025	8:30:00 AM	T04	HQ BLK A LAB A.5.17A/A.5.17B
11/11/2025	8:30:00 AM	T04	HQ BLK A LAB A.5.17A/A.5.17B
14/11/2025	3:30:00 PM	T04	HQ BLK A LAB A.5.20A/A.5.20B
6/10/2025	3:30:00 PM	T05	HQ BLK A LAB A.5.17A/A.5.17B
15/10/2025	3:30:00 PM	T05	HQ BLK A LAB A.5.17A/A.5.17B
23/10/2025	3:30:00 PM	T05	HQ BLK A LAB A.5.17A/A.5.17B
3/11/2025	3:30:00 PM	T05	HQ BLK A LAB A.5.17A/A.5.17B
6/11/2025	12:00:00 PM	T05	HQ BLK A LAB A.5.20A/A.5.20B
10/11/2025	3:30:00 PM	T05	HQ BLK A LAB A.5.17A/A.5.17B
13/11/2025	3:30:00 PM	T05	HQ BLK A LAB A.5.17A/A.5.17B
1/10/2025	7:00:00 PM	T01P	HQ BLK A LAB A.5.17A/A.5.17B
9/10/2025	7:00:00 PM	T01P	HQ BLK A LAB A.5.17A/A.5.17B
15/10/2025	7:00:00 PM	T01P	HQ BLK A LAB A.5.17A/A.5.17B
23/10/2025	7:00:00 PM	T01P	HQ BLK A LAB A.5.17A/A.5.17B
6/11/2025	7:00:00 PM	T01P	HQ BLK A LAB A.5.17A/A.5.17B
13/11/2025	7:00:00 PM	T01P	HQ BLK A LAB A.5.17A/A.5.17B

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# Assessment

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**ISIT 312 Assignments (individual) 10% + 20% + 20% = 50%**

**1 Final examination 50%**

**Exam period**

**40% TF clause on the final examination !**

# Topics

Session (3 hours per session)	Topic
1	Hadoop: Introduction and Distributed Storage System
2	MapReduce Model and Application Development
3	Hive Conceptual and Logical Data Warehouse Design, SQL for Data Warehousing
4	Physical Data Warehouse Design, Extract, Transform and Load
5	<u>Hbase</u>
6	Spark Fundamentals
7	Data Processing and Advanced Operations in Spark

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# Tools

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**The VM: Ubuntu 14.04 LTS VM (run with VirtualBox)**

**Inside VM:**

**Big data software:**

Hadoop, Hive, HBase, Pig, Spark, Kafka

**Tools:**

Linux shell (bash)

Text editor (gedit)

Zeppelin

Other (optional): Eclipse

**Programming languages:**

Java

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# Subject motto

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*If we only hear a thing,  
we soon forget it !*

*If we see it,  
we remember it !*

*If we do it ourselves,  
we know it !*



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**IMPORTANT:**

**Read your emails in time and watch closely  
on the Moodle announcements.**

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# Questions ?