

---

**ISIT312**

**Big Data Management**

**SIM S2 2024**

---

# Lecturer and Tutor

---

**Lecturer:**

**Dr Fenghui Ren**

**Email:**

**[fren@uow.edu.au](mailto:fren@uow.edu.au)**

**Tutor:**

**Mr. Sionggo Japit**

**Email:**

**[sjapit@uow.edu.au](mailto:sjapit@uow.edu.au)**

# Subject Schedule

**Session: SIM S2 2024**

**Lecture schedule:**

Subject	Section	Date	Time	Building	Room	Lecturer
ISIT312	L01F & L02P	13/4/2024	8:30:00 AM	HQ BLK A	LT A.1.17	Dr Fenghui Ren
ISIT312	L01F & L02P	13/4/2024	12:00:00 PM	HQ BLK A	LT A.1.17	
ISIT312	L01F	15/4/2024	3:30:00 PM	HQ BLK A	LT A.1.17	
ISIT312	L02P	15/4/2024	7:00:00 PM	HQ BLK A	LT A.2.09B	
ISIT312	L01F	16/4/2024	3:30:00 PM	HQ BLK A	LT A.1.17	
ISIT312	L02P	16/4/2024	7:00:00 PM	HQ BLK A	LT A.2.09B	
ISIT312	L01F	18/4/2024	3:30:00 PM	HQ BLK A	LT A.1.17	
ISIT312	L02P	18/4/2024	7:00:00 PM	HQ BLK A	LT A.2.09B	
ISIT312	L01F & L02P	20/4/2024	8:30:00 AM	HQ BLK A	LT A.1.17	
ISIT312	L01F & L02P	20/4/2024	12:00:00 PM	HQ BLK A	LT A.1.17	

---

# Assessment

---

**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

---

# Tools

---

**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**

---

# Subject motto

---

*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 !*

---

**IMPORTANT:**

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



---

# Questions ?