
ISIT312

Big Data Management

SIM S4 2023

Lecturer and Tutor

Lecturer:

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Subject Schedule

Session: SIM S4 2023

Lecture schedule:

Day	Date	Time	Class Grp	Venue
Tuesday	3/10/2023	15:30	L01_F	B.3.03 (188pax)
Tuesday	3/10/2023	19:00	L02_P	A.2.09B (80pax)
Wednesday	4/10/2023	15:30	L01_F	B.2.04 (130pax)
Wednesday	4/10/2023	19:00	L02_P	A.2.09B (80pax)
Thursday	5/10/2023	15:30	L01_F	B.5.16 (134pax-CRS)
Thursday	5/10/2023	19:00	L02_P	A.2.17B (80pax)
Saturday	7/10/2023	8:30	L01_F,L02_P	A.3.20 (192pax)
Saturday	7/10/2023	12:00	L01_F,L02_P	A.2.20 (192pax)
Monday	9/10/2023	15:30	L01_F	A.2.08 (192pax)
Monday	9/10/2023	19:00	L02_P	A.2.17A (80pax)
Tuesday	10/10/2023	15:30	L01_F	B.3.03 (188pax)
Tuesday	10/10/2023	19:00	L02_P	A.2.09C (80pax)

Assessment

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

1 Final examination 50%
Exam period

40% TF clause on the final examination !

Topics

Topic

Introduction to Cluster Computing and Hadoop

HDFS and MapReduce

MapReduce Application

Hive

Conceptual and Logical Data Warehouse Design

SQL for Data Warehousing

Physical Data Warehouse design, Extract, Transform and Load

HBase

Pig

Spark Fundamentals

Spark SQL

Spark Streaming

Subject Review

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 ?