

ISI WSC 2019 Short Course Programme

COURSE TITLE :	SC8 - Data Analytics - Providing Solutions to Real Problems with Industry Evidence
DURATION :	2 Days
DATE :	16 – 17 August 2019
VENUE :	Sasana Kijang
REGISTRATION FEES :	Developed Country MYR 1,760 (Approximately EUR 370) Developing Country / Student* MYR1,140 (Approximately EUR 240) <i>* For student, proof of enrolment is required</i>

INSTRUCTOR 1



Peter Ho Chiung Ching, Ph.D.

Dean, Faculty of Computing and Informatics, Multimedia University
Multimedia University
Malaysia

Peter Ho, PhD is the Dean of the Faculty of Computing and Informatics, Multimedia University. He graduated with a Bachelor of Computer Science (Hons) and a Master of Science (Computer Science) from Universiti Putra Malaysia, and was awarded a PhD (Information Technology) from Multimedia University.

His research interests includes multimodal biometrics, human activity/action recognition, data mining and analytics. He has won the inaugural Malaysian National-level Big Data competition (Big App Challenge v 1.0) and a Mobile Data Visualization Hackathon. Past consultancy clients include Telekom Malaysia, Ministry of Health Malaysia and the Natural Resources Environment Ministry of Malaysia.

INSTRUCTOR 2



Choo-Yee Ting

Associate Dean, Institute of Postgraduate Studies, Multimedia University
Multimedia University

Choo-Yee Ting is an Associate Professor at the Faculty of Computing and Informatics, Multimedia University, Cyberjaya, Malaysia and is also the Deputy Dean of the Institute for Postgraduate Studies, Multimedia University. In 2002, Choo-Yee Ting was awarded a Research Fellowship by Microsoft Research Asia, Beijing, China. In 2003, he received another research fellowship from the Rotary Research Foundation, Rotary Club of Kuala Lumpur Diraja Malaysia. He has been active in research projects related to predictive analytics and Big Data. Most of the projects were funded by MDeC(Malaysia), MOE (Malaysia), MOSTI(Malaysia), Telekom Malaysia, TM R&D, and industries

COURSE DESCRIPTION

This course is targeted primarily for two audiences. The first audience would be analyst and statisticians who are looking beyond the usage of tools to solve their problem, and who are eager to tap onto Python as their primary means of performing analysis. The second audience would be analysts and statisticians who are looking to share their analytical outcomes in a reproducible fashion, and who are looking forward to closing the analytics loop by deploying the solution. Unlike other courses which uses sanitized datasets, this course would be delivered using examples derived from the instructors' real-life experiences in solving problems in areas such as telecommunication, health informatics and aviation.

SYLLABUS

Topics	Mode of Delivery (eg : Lecture, Tutorial, Lab etc.) Indicate allocation of hours	
	Mode	Hours
DAY 1		
Basics of Python for Data Analysis	Discussion/Lab/Case Study	2
Python libraries and data structures	Discussion/Lab/Case Study	2
Exploratory analysis in Python using Pandas	Discussion/Lab/Case Study	3
DAY 2		
Data Wrangling in Python using Pandas	Discussion/Lab/Case Study	2
Building a Predictive Model in Python	Discussion/Lab/Case Study	3
Deploying the Predictive Model	Discussion/Lab/Case Study	2

TARGET AUDIENCE

Data analysts and statisticians who are looking to get out of their comfort zone of using tools such as Excel, SPSS or SAS and are looking to take the plunge into using Python as a new analytical tool
OR

Data analysts and statisticians who are looking for ways to communicate their Python code in a reproducible way and who are looking for a way to deploy their analytical solutions