UNIVERSITI MALAYA	**MAKLUMAT KURSUS UNTUK SEMESTER/PENGGAL SEMASA** ***COURSE INFORMATION FOR CURRENT SEMESTER/TERM***

Sesi Akademik *Academic Session*	*2018/2019*
Semester/Penggal *Semester/Term*	1
Kod Kursus *Course Code*	*WQD7008*
Tajuk Kursus *Course Title*	*Pengkomputeran Selari dan Teragih* *Parallel and Distributed Computing*
Bahasa Pengantar *Medium of Instruction*	*English*
Rujukan Utama *Main Reference*	1. Dongarra, J and Hwang, K., Distributed and Cloud Computing: From Parallel Processing to the Internet of Things, 1st Edition, Morgan Kaufmann, 2013. 2. Colouries, G., Dollimore, J., Kindberg, T and Blair, G., Distributed Systems: Concepts and Design, 5th Edition, Addison-Wesley, 2012. 3. Tanenbaum A.S. and van Steen M., Distributed Systems: Principles and Paradigms, 2nd Edition, Prentice Hall, 2007. *4.* Lin, C. and Snyder, L., Principles of Parallel Programming, 1st Edition, Addison-Wesley, 2009.
Strategi Pembelajaran *Learning Strategies*	Kuliah, sesi makmal, tugasan dan demonstrasi. *Lecture, lab session, assignment, Quiz and demonstration*
Masa Pembelajaran Pelajar *Student Learning Time*	Bersemuka / *Face to face* : 42 Tidak Bersemuka / *Non Face to face*: 12 Masa Persediaan Pelajar / *Student Preparation Time*: 106
Kemahiran Boleh Pindah Transferable Skills	Penyelesaian Masalah, Analisa Masalah, Pengaturcaraan *Problem Solving, Problem Analysis, Programming*
Pensyarah / *Lecturer* Bilik / *Room* Telefon/e-mel *Telephone/e-mail*	*Dr. Hamid Tahaei* *A-2-3* *hamidtahaei@um.edu.my*
Sesi Kuliah / *Lecture Session:* Hari/Masa / *Day/Time* Tempat / *Venue*	 *Jumaat / Friday 6 – 9.00* *MM3*
Sesi Tutorial/Amali: *Tutorial/Practical Session:* Hari/Masa / *Day/Time* Tempat / *Venue*	 *Jumaat / Friday 6– 9.00* *MM3*
Perincian Pemberatan Penilaian *Detail of Assessment Weightage*	Penilaian Berterusan / *Continuous Assessment* : *50%* - *Assignment* 15% (Lab % student report)

	- Quiz (15%)
	- Group Project (20%)
	  o Presentation (15%)
	  o Report (5%)
	
	Peperiksaan Akhir / *Final Examination* : *50%*

Jadual Pengajaran / *Teaching Schedule*

Week	Topic Lecture / Tutorial / Assignment	Reference / Teaching Materials / Equipment
1	Introduction to Parallel and Distributed Computing	Slide PPT / Book Reference / Projector and Whiteboard
2	Parallel and Distributed System Model and Supportive Technologies	Slide PPT / Book Reference / Projector and Whiteboard
3	Process, Threading, and Communication between Processes Lab	Slide PPT / Book Reference / Projector and Whiteboard
4	Computer Cluster for Scale Computing	Slide PPT / Book Reference / Projector and Whiteboard
5	Service Oriented Architecture Lab	Slide PPT / Book Reference / Projector and Whiteboard
6	Grid Computing and Management of Distributed Systems	Slide PPT / Book Reference / Projector and Whiteboard
7	Virtual Machines and Virtualization of Data Centers and Clusters Lab	Slide PPT / Book Reference / Projector and Whiteboard
8	Cloud Computing Platforms Lab	Slide PPT / Book Reference / Projector and Whiteboard
9	Cloud Computing and Software Environments Lab	Slide PPT / Book Reference / Projector and Whiteboard
10	Distributed Systems and File System Lab	Slide PPT / Book Reference / Projector and Whiteboard
11	Large Scale Data Analysis with MapReduce Presentation Model Lab	Slide PPT / Book Reference / Projector and Whiteboard
12	Workflow for Data Intensive Applications Management - Designing Distributed Systems: Google Case Study Lab	Slide PPT / Book Reference / Projector and Whiteboard

13	Parallel Architecture and GPU Lab	Slide PPT / Book Reference / Projector and Whiteboard
14	Presentation of Group Project	Slide PPT / Book Reference / Projector and Whiteboard