

PRO FORMA KURSUS COURSE PRO FORMA

PENTING / IMPORTANT:

Kandungan Pro Forma ini tidak boleh diubah tanpa kelulusan Senat bagi perkara-perkara yang telah ditandakan*. Pindaan kepada perkara lain boleh diluluskan di peringkat Akademi/Fakulti/Institut/Pusat.

Contents of this Pro Forma shall not be changed without the Senate's approval for items indicated with *. Changes to the other items can be approved at the Academy/Faculty/Institution/Centre level.

	Versi Bahasa Malaysia Malay Version	Versi Bahasa Inggeris English Version
Akademi/Fakulti/Institut/Pusat Academy/Faculty/Institute/Centre	Fakulti Sains Komputer dan Teknologi Maklumat	Faculty of Computer Science and Information Technology
Jabatan Department	Pejabat Dekan	Dean Office
Nama Program Akademik Name of Academic <i>Programme</i>	Sarjana Sains Data	Master of Data Science
Kod Kursus* Course Code*	WQD 7008	WQD 7008
Tajuk Kursus* Course Title*	Pengkomputer Selari dan Teragih	Parallel and Distributed Computing
Kredit* Credit*	4	4
Masa Pembelajaran Pelajar (SLT) Student Learning Time (SLT)	160	160
Prasyarat/Keperluan Minimum Kursus Course Pre-requisite(s)/Minimum Requirement(s)	Tiada	None
Hasil Pembelajaran Kursus* Course Learning Outcomes*	Di akhir kursus ini, pelajar dapat: 1. Mengenal prinsip-prinsip dasar pengkomputeran selari dan teragih. 2. Menentukan paradigma-paradigma asas pemgkomputeran selari dan teragih.	At the end of the course, students are able to: 1. Recognize the underlying principles of parallel and distributed computing. 2. Determine the fundamental paradigms of parallel and distributed computing.

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	 Mengenalpasti isu dan masalah, serta penyelesaian dalam perlaksanaan sistem selari dan teragih. Melaksanakan sistem selari dan teragih. 	3. Identify the issues and problems, together with the solutions in implementing parallel and distributed systems.4. Implement parallel and distributed systems.
Kemahiran Insaniah Soft Skills	Pemikiran kritis dan Penyelesaian Masalah (CT1,CT2,CT3) Etika dan Moral Profesional (EM1,EM2) Kemahiran Kepimpinan (LS1,LS2)	Critical Thinking and Problem Solving (CT1,CT2,CT3) Profesisonal Ethics and Moral (EM1,EM2) Leadership Skills (LS1,LS2)
Sinopsis Kandungan Kursus Synopsis of Course Contents	Kursus ini merangkumi penyelesaian masalah dan pengaturcaraan yang berkaitan dengan sains data. Kursus ini menyediakan pelajar dengan kemahiran pengaturcaraan yang diperlukan untuk proses statistik dan meneroka set data yang berbeza. Ini termasuklah struktur organisasi data, susunan dan carian, model asas graf dan algoritma, algoritma streaming, pengaturcaraan linear dan cembung.	This course covers the problem solving and programming that relevant to the data science. The course provide students with the necessary programming skills to statistically process and explore disparate datasets. These include structures for data organization, sorting and searching, basic graph models and algorithms, streaming algorithms, linear and convex programming.
Pemberatan Penilaian* Assessment Weightage*	Penilaian Berterusan: 50% Tugasan (15%) Projek Kumpulan (20%) Laporan(5%) Persembahan (15) Kuiz 15% Peperiksaan Akhir: 50%	Continuous Assessment: 50%
Kaedah Maklum Balas Tentang Prestasi Methodologies for Feedback on Performance	Makluman umum secara lisan di dalam kelas / laporan prestasi individu melalui email/laman web pensyarah kepada pelajar	Oral announcement in class/ individual performance report through email or website/ lecture's web site to the student.
Kriteria Dalam Penilaian Sumatif Criteria in Summative Assessment	Rujuk kepada Sistem Pemarkahan yang diberi di dalam buku Kaedah-Kaedah Universiti Malaya (Ijazah Sarjana) 2014, Peraturan-Peraturan Universiti Malaya (Ijazah Sarjana) 2014.	Refer to the marking scheme in handbook, University of Malaya (Master's Degree) Rules 2014, University of Malaya (Master's Degree) Regulations 2014.



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