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 & Teknologi Maklumat	Faculty of Computer Science and Information Technology
Jabatan *Department*	N/A	N/A
Nama Program Akademik Name of Academic *Programme*	Sarjana Sains Data	Master of Data Science
Kod Kursus* *Course Code**	WQD 7006	WQD 7006
Tajuk Kursus* *Course Title**	Pembelajaran Mesin untuk Sains Data	Machine Learning for Data Science
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. Menjelaskan konsep dan teknik pembelajaran mesin. 2. Mengenalpasti teknik pembelajaran mesin bersesuaian untuk pelbagai set data. 3. Menilai penyelesaian praktikal bagi masalah umum dalam pembelajaran mesin.	At the end of this course, students are able to: 1. Explain the concepts and techniques for machine learning. 2. Identify appropriate machine learning techniques for various datasets. 3. Evaluate practical solutions to common problems in machine learning.

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Kemahiran Insaniah *Soft Skills*	Pemikiran Kritis dan Skil Penyelesaian Masalah (CT1, CT2, CT3, CT4) Etika dan Moral Profesional (EM1, EM2, EM3) Kemahiran Kepimpinan (LS1, LS2)	Critical Thinking and Problem Solving Skills (CT1, CT2, CT3, CT4) Ethics and Professional Moral (EM1, EM2, EM3) Leadership Skill (LS1, LS2)
Sinopsis Kandungan Kursus *Synopsis of Course Contents*	Kursus ini memperkenalkan konsep dan teknik asas pembelajaran mesin. Ia meliputi topik-topik seperti regresi linear dan logistik, pepohon keputusan, *support vector machines*, dan pembelajaran pengukuhan.	This course introduces fundamental concepts and techniques for machine learning. It covers topics such as linear and logistic regression, neural network, and support vector machines as well other machine learning approaches.
Pemberatan Penilaian* *Assessment Weightage**	Penilaian Berterusan: 50% Peperiksaan Akhir: 50%	Continuous Assessment: 50% Final Examination: 50%
Kaedah Maklum Balas Tentang Prestasi *Methodologies for Feedback on Performance*	Gred untuk Penilaian Berterusan akan dimaklumkan melalui Spectrum.	Grade for Continuous Assessment will be announced through Spectrum.
Kriteria Dalam Penilaian Sumatif *Criteria in Summative Assessment*	Rujuk Kaedah-Kaedah Universiti Malaya (Ijazah Sarjana) 2019 dan Peraturan-Peraturan Universiti Malaya (Ijazah Sarjana) 2019.	Refer to University of Malaya (Master Degree) Rules 2019 and University of Malaya (Master Degree) Regulations 2019