

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 <i>Academy/Faculty/Institute/Centre</i>	Fakulti Kejuruteraan	<i>Faculty of Engineering</i>
Jabatan <i>Department</i>	Jabatan Kejuruteraan Elektrik	<i>Department of Electrical Engineering</i>
Nama Program Akademik <i>Name of Academic Programme</i>	Sarjana Muda Kejuruteraan (Elektrikal)	<i>Bachelor of Engineering (Electrical)</i>
Kod Kursus* <i>Course Code*</i>	KIE4013	<i>KIE4013</i>
Tajuk Kursus* <i>Course Title*</i>	Kejuruteraan Voltan Tinggi	<i>High Voltage Engineering</i>
Kredit* <i>Credit*</i>	2	<i>2</i>
Masa Pembelajaran Pelajar (SLT) <i>Student Learning Time (SLT)</i>	80	<i>80</i>
Prasyarat/Keperluan Minimum Kursus <i>Course Pre-requisite(s)/Minimum Requirement(s)</i>	Tiada	<i>None</i>
Hasil Pembelajaran Kursus* <i>Course Learning Outcomes*</i>	Di akhir kursus ini, pelajar dapat: <ol style="list-style-type: none"> 1) Menerangkan generasi voltan tinggi dan keruntuhan penebat 2) Merekabentuk sistem penebat bagi peralatan voltan tinggi 3) Menganalisa data berasaskan pemantauan keadaan dari peralatan voltan tinggi 	<i>At the end of the course, students are able to:</i> <ol style="list-style-type: none"> 1) <i>Explain high voltage generation and insulation breakdown</i> 2) <i>Design insulation system for high voltage equipment</i> 3) <i>Analyze condition based monitoring data from high voltage equipment</i>

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Kemahiran Insaniah <i>Soft Skills</i>	Kemahiran komunikasi (CS1, CS2) Kemahiran pemikiran kritikal dan penyelesaian masalah (CT1, CT2, CT3)	<i>Communication Skills (CS1, CS2) Critical Thinking and Problem Solving Skills (CT1, CT2, CT3)</i>
Sinopsis Kandungan Kursus <i>Synopsis of Course Contents</i>	Pelajar akan diperkenalkan kepada fenomena pecahan di dalam gas, cecair dan pepejal dielektrik, pecahan separa, lebihan voltan dan voltan pemulihan fana. Pelajar juga akan diajar tentang generasi voltan DC, AC dan dedenyut dan rekabentuk sesendal voltan tinggi. Pelbagai jenis bahan penebatan, penebatan kabel, aplikasi bahan penebat dan teknik pemantauan berasaskan keadaan juga didedahkan kepada pelajar dalam kursus ini.	<i>Students will be introduced to phenomena of breakdown in gases, liquids and solid dielectrics, partial discharge, overvoltages and transient recovery voltage. Student will also be taught on the generation of DC, AC and impulse voltages and high voltage bushing design. Various types of insulation materials, cable insulation, application of insulating materials and techniques of condition based monitoring are exposed to students in this course.</i>
Pemberatan Penilaian* <i>Assessment Weightage*</i>	Penilaian Berterusan: 40% Peperiksaan Akhir: 60%	<i>Continuous Assessment: 40% Final Examination: 60%</i>
Kaedah Maklum Balas Tentang Prestasi <i>Methodologies for Feedback on Performance</i>	Maklumbalas secara dalam talian	<i>Online feedback</i>
Kriteria Dalam Penilaian Sumatif <i>Criteria in Summative Assessment</i>	Sila rujuk Kaedah-Kaedah Universiti Malaya (Pengajian Ijazah Pertama) 2017 dan Peraturan-Peraturan Universiti Malaya (Pengajian Ijazah Pertama) 2017	<i>Please refer to the University Of Malaya (First Degree Studies) Rules 2017 And University Of Malaya (First Degree Studies) Regulations 2017</i>