| UNIVERSITI MALAYA | **PRO FORMA KURSUS**<br>***COURSE PRO FORMA*** |
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**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**<br>***Malay Version*** | **Versi Bahasa Inggeris**<br>***English Version*** |
|---|---|---|
| Akademi/Fakulti/Institut/Pusat<br>*Academy/Faculty/Institute/Centre* | Fakulti Kejuruteraan | *Faculty of Engineering* |
| Jabatan<br>*Department* | Jabatan Kejuruteraan Elektrik | *Department of Electrical Engineering* |
| Nama Program Akademik<br>Name of Academic *Programme* | Sarjana Muda Kejuruteraan Elektrik | *Bachelor of Electrical Engineering* |
| Kod Kursus*<br>*Course Code** | KIE2004 | *KIE2004* |
| Tajuk Kursus*<br>*Course Title** | Litar Elektronik II | *Electronic Circuits II* |
| Kredit*<br>*Credit** | 3 | *3* |
| Masa Pembelajaran Pelajar (SLT)<br>*Student Learning Time (SLT)* | 120 | *120* |
| Prasyarat/Keperluan Minimum Kursus<br>*Course Pre-requisite(s)/Minimum Requirement(s)* | - | - |
| Hasil Pembelajaran Kursus*<br>*Course Learning Outcomes** | Di akhir kursus ini, pelajar dapat:<br>1) Membina penguat beroperasi untuk mendapat ciri-ciri yang dikehendaki dengan mempertimbangkan kesannya terhadap alam sekitar dan kemampanan.<br>2) Menganalisa kesan suapbalik terhadap gandaan dan kestabilan. | *At the end of the course, students are able to:*<br>*1) Construct practical operational amplifier to achieve desired characteristic considering the impact on the environment and sustainability.*<br>*2) Analyse the effect of feedback on gain and stability.* |

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| | 3) Menyiasat penggunaan penguat sebagai peranti aktif dalam rekabentuk penapis aktif, pengayun dan penggetar berbilang. | *3) Investigate the use of amplifiers as an active device on the design of active filters, oscillators and multivibrators.* |
| Kemahiran Insaniah<br>*Soft Skills* | Pemikiran Kritis dan Penyelesaian Masalah (CT1-CT3). | *Critical Thinking and Problem Solving Skills (CT1-CT3).* |
| Sinopsis Kandungan Kursus<br>*Synopsis of Course Contents* | Analisa penguat lanjutan, termasuk kesan suapbalik. Tindak balas frekuensi. Reka bentuk penguat kuasa, penguat beroperasi, penapis analog, pengayun dan pengetar berbilang. | *Advanced amplifier analysis, including feedback effects. Frequency response. Design for power amplifiers, op-amps, analogue filters, oscillators and multivibrators.* |
| Pemberatan Penilaian*<br>*Assessment Weightage** | Penilaian Berterusan: 40%<br>Peperiksaan Akhir: 60% | *Continuous Assessment: 40%*<br>*Final Examination: 60%* |
| Kaedah Maklum Balas Tentang Prestasi<br>*Methodologies for Feedback on Performance* | Gred/markah untuk tugasan dan ujian diumumkan dalam kelas dan/atau dipaparkan dalam sistem talian. | *Grades/marks for assignment and test announced in class and/or displayed on online system.* |
| Kriteria Dalam Penilaian Sumatif<br>*Criteria in Summative Assessment* | Sila rujuk Kaedah-Kaedah Universiti Malaya (Pengajian Ijazah Pertama) 2019 dan Peraturan-Peraturan Universiti Malaya (Pengajian Ijazah Pertama) 2019 | *Please refer to the University Of Malaya (First Degree Studies) Rules 2019 And University Of Malaya (First Degree Studies) Regulations 2019* |