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

Sesi Akademik *Academic Session*	2020/2021
Semester/Penggal *Semester/Term*	1
Kod Kursus *Course Code*	KIE2005
Tajuk Kursus *Course Title*	Analisa Litar II *Circuit Analysis II*
Bahasa Pengantar *Medium of Instruction*	Bahasa Inggeris *English*
Rujukan Utama *Main Reference*	1. JW Nilsson, SA Riedel, "*Electric Circuits*", 10th edition 2014, Prentice Hall 2. Alexander and Sadiku, "*Fundamentals of Electric Circuits*", 6th ed., 2014, McGraw Hill
Strategi Pembelajaran *Learning Strategies*	Kuliah dan Tutorial *Lectures and Tutorials*
Masa Pembelajaran Pelajar *Student Learning Time*	Bersemuka / *Face to face* : 45 jam/*hours* Tidak Bersemuka / *Non Face to face*: 0 jam/*hour* Masa Persediaan Pelajar / *Student Preparation Time*: 75 jam/*hours*
Kemahiran Boleh Pindah Transferable Skills	Kemahiran penyampaian, kemahiran menganalisa, kemahiran merekabentuk litar *Presentation skills, analysis skills, circuit design skills*
Pensyarah / *Lecturer* Bilik / *Room* Telefon/e-mel *Telephone/e-mail*	Dr. Chow Li Sze / Dr. Effariza Hanafi / Dr. Norrima Mokhtar Tingkat 2, Mercu Kejuruteraan, Fakulti Kejuruteraan 03-79675248 / 03-79674456 / 03-79672159 lschow@um.edu.my / effarizahanafi@um.edu.my / norrimamokhtar@um.edu.my
Sesi Kuliah / *Lecture Session:* Hari/Masa / *Day/Time* Tempat / *Venue*	Rujuk kepada myum.um.edu.my. *Refer to* myum.um.edu.my.
Sesi Tutorial/Amali: *Tutorial/Practical Session:* Hari/Masa / *Day/Time* Tempat / *Venue*	Rujuk kepada myum.um.edu.my. *Refer to* myum.um.edu.my.
Perincian Pemberatan Penilaian *Detail of Assessment Weightage*	Penilaian Berterusan / *Continuous Assessment* : 40% Peperiksaan Akhir / *Final Examination* : 60%

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Jadual Pengajaran / *Teaching Schedule*

Minggu *Week*	Topik & Aktiviti *Topic & Activities*	Rujukan *References*
1	*Balance three-phase circuits: Balanced three-phase voltage, three-phase voltage source, analysis of Y-Y and Y-Δ*	*Ref [1], lecture note*
2	*Unbalanced three-phase circuits and three-phase variables*	*Ref [1], lecture note*
3	*Introduction to Laplace Transform*	*Ref [1], lecture note*
4	*Laplace transform in circuit analysis: Circuit element in s domain, application in circuit analysis*	*Ref [1], lecture note*
5	*Laplace transform in circuit analysis: Application in circuit analysis (continue)*	*Ref [1], lecture note*
6	*Fourier series: Fourier constants, applications of the series in circuit analysis*	*Ref [1], lecture note*
7	*Fourier transform: Obtaining the transform, applications in circuit analysis*	*Ref [1], lecture note*
8	*Frequency selective circuits: Low-pass filter, High-pass, Band-pass and Band-stop*	*Ref [1], lecture note*
9	*Bode diagram, Operational amplifier*	*Ref [1], lecture note*
10	*First order active low pass and high-pass filters, scaling*	*Ref [1], lecture note*
11	*Band-pass and Band-stop active filters*	*Ref [1], lecture note*
12	*Higher order active filters, Butterworth filters*	*Ref [1, 2], lecture note*
13	*Two-port circuits: terminal equations, terminal parameters, ended two-port analysis*	*Ref [1, 2], lecture note*
14	*Interconnected two-port circuits, attenuators: π-type and T-type circuits*	*Ref [2], lecture note*