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*	KIE2004
Tajuk Kursus *Course Title*	Litar Elektronik II *Electronic Circuits ll*
Bahasa Pengantar *Medium of Instruction*	Bahasa Inggeris *English*
Rujukan Utama *Main Reference*	1. 'Microelectronic Circuits', 6th edition, by Adel S. Sedra, Kenneth C. Smith, Oxford Series in Electrical & Computer Engineering. 2. Lecture Notes Prof Mahmoud Moghavvemi
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	*Problem solving skills and analytical skills*
Pensyarah / *Lecturer* Bilik / *Room* Telefon/e-mel *Telephone/e-mail*	Prof. Dr Mahmoud Moghavvemi / Dr. Wan Amirul Bilik 5, Tingkat 1 03-79676817 / mahmoud@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*	**LECTURE / TUTORIAL / ASSIGNMENT TOPIC**	Rujukan *References*
1	*Two port network, π, Y, h, parameters, amplifier equivalent circuit*	*See main references*
2	*Midband equivalent circuits for amplifier/amplifiers gain, input and output impedances*	*As the above*
3	*Multistage amplifiers, cascade, cascode, NPN PNP.*	*As the above*
4	*Differential transistor pairs*	*As the above*
5	*Frequency response, high frequency/low frequency response*	*As the above*
6	*Bode plots, Poles/zeros, Miller capacitors*	*As the above*
7	*Ideal operational amplifier/ practical operational amplifier*	*As the above*
8	*Practical operational amplifier*	*As the above*
9	*Feedback amplifiers characteristics*	*As the above*
10	*Feedback dynamics, stability and compensation*	*As the above*
11	*Active filters*	*As the above*
12	*RC oscillators*	*As the above*
13	*LC oscillators/ Multivibrators*	*As the above*
14	*Monostable,Bistable and Astable multivibrators*	*As the above*