Fakulti: FAKULTI KI	EJURUTERAAN ELEKTRIK
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Nama Matapelajaran: Makmal Khusus Tahun 3

Kod Matapelajaran: SKFI 3742

Semakan : 1

Tarikh Keluaran : 2007

Pindaan Terakhir : 2007

Kod Matapelajaran : SKEL 3742 Pindaan Terakhir : 2007 No. Prosedur : **PK-UTM-FKE-(0)-10**



SKEL 3742

FAKULTI KEJURUTERAAN ELEKTRIK UNIVERSITI TEKNOLOGI MALAYSIA SKUDAI, JOHOR

ECED DEPARTMENT

Instrumentation Amplifiers & Filter: Building Blocks for Electromyogram (EMG) Amplifiers (Problem Pack)

Disediakan oleh	:	Disahkan oleh	: Ketua Jabatan
Nama	: En. Ismail Ariffin	Nama	:
	Pn. Ismawati Abd. Ghani		
	Pn. Norhafizah Ramli		
	Dr. Puspa Inayat Khalid		
	Dr. Norlaili Mat Safri		
Tandatangan	:	Tandatangan	:
Cop	:	Cop	:
Tr*1-1-	. 0 Manala 2014	TD = :::1-1-	
Tarikh	: 8 March 2014	Tarikh	:

Problem Statement

You are involved in a service learning (SL) for your co-curricular activity. Your team is assigned to help old folk care centre in monitoring the level of muscle fitness of the old people. This helps the centre to do continuous monitoring on the well-being of the old people under its care.

You need to come up with a prototype design of the muscle fitness monitoring system. Your design consideration should include amplification of muscle signal, filtering of muscle signal and minimal noise interference. To complete the monitoring system, you need to use the output of the amplifier system to drive an external circuit, e.g. an LED. The output should be such that when the muscle is flexed the LED lights and stays on for the duration of the flexion. The findings should be submitted in the form of a report and demonstration to the old folk care centre committee for deliberation.