

Fakulti: FAKULTI KEJURUTERAAN ELEKTRIK	
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SKEL 3742

**FAKULTI KEJURUTERAAN ELEKTRIK
UNIVERSITI TEKNOLOGI MALAYSIA
SKUDAI, JOHOR**

ECED DEPARTMENT

International 10-20 Electrode Placement System & Electroencephalogram (EEG) Amplifier (PROBLEM PACK)

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Problem Statement

You are involved in a service learning (SL) for your co-curricular activity. Your team is assigned to help a doctor in a remote area to build an electrode placement guider using available wire for EEG monitoring of epilepsy patient in the area. You also have to build low-cost electroencephalograph (EEG machine).

You need to come up with a prototype design of the

- i) electrode placement guider, and*
- ii) EEG machine.*

Your design consideration should include the standard applied by international learned communities, amplification of EEG signal, filtering of EEG signal and minimal noise interference.