



# Project Proposal

## Mobile Phone Detector

EN - 25

WIJESIRI H.D.K.G. (wijesirihdkg.20@uom.lk, 200728R)  
WIJETHUNGA C.K. (wijethungack.20@uom.lk, 200732A)  
WIJETUNGA W.L.N.K. (wijetungawlnk.20@uom.lk, 200733D)



# Problem Identification

Major exam frauds which include using electronic devices (Specially smart phones) during the exam were recorded in the recent examinations held by the Department of Examinations Sri Lanka. Doing exam frauds are very irresponsible and not fair for the students who prepared and studied for the examination. And it affects the quality of the examination very badly.

- A/L exam cheating via WhatsApp: Student detained  
<https://www.newswire.lk/2022/02/17/a-l-exam-cheating-via-whatsapp-student-detained/>
- Exam fraud: Lifetime ban imposed on A/L student  
[https://www.dailymirror.lk/breaking\\_news/Exam-fraud-Lifetime-ban-imposed-on-A-L-student/108-135870](https://www.dailymirror.lk/breaking_news/Exam-fraud-Lifetime-ban-imposed-on-A-L-student/108-135870)
- According to a research analysis on cheating of cellphone-based cheating on entrance exams by Hiroko Kanoh (Yamagata University, Japan),
  - Find out one's own answers by searching via the internet using cellphone has an average of 9.45 out of 10.
  - Send spoofing e-mails has an average of 8.27 out of 10.

## Motivation

Most of the examinations held by the department of examinations are held at classrooms at government schools which don't have such detectors. Since the mobile phone detectors are quite high in price in the market and since the schools can't afford them, we thought of making a reliable yet a cost-effective mobile phone detector which is affordable for everyone.

## Product Overview

The product that we are going to develop is a mobile phone detector which can be fitted to any entrance so when people enter the premise one at a time, if anyone carries a switched-on mobile phone, it is detected, and a warning sound is produced. We intend to spend a cost of Rs.2500 per unit (Excluding the enclosure)