



*FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT
Department of Electrical Engineering
Electronic Lab 30 in 1 Experiments
Competition Day 4 August 2017*

1. Assignment

A Great Introduction to the World of Basic Electronics. Build a Universal Alarm System for a Car, Boat, House, Garden or Yard.

2. Objectives

- To improve innovation and creativity skills.
- To induce the ability of a learner into improving existing circuits.

3. Learning objectives

- Learners must be able to demonstrate their innovation and creativity abilities.
- Learners must understand the necessity of conducting a thorough research.
- Learners must demonstrate their understanding of electronic skills.

4. Procedure

- A kit including all the necessary components and basic electronics tools will be supplied to the learners.
- A manual with a Universal Alarm Circuit is included in the kit.
- The competitors must build a working Alarm System.
- The learners should conduct a research on Alarm Systems Circuits.

5. Time

The project must be constructed beforehand, thus affording the learners the opportunity to be creative and innovative.

Each team will have 30 minutes to present the Final Working Project on the Competition Day.

6. Teams

Each team may consist of a maximum of three learners.

7. Evaluation

- Functionality.
- Research component.
- Creativity and innovation.

Final score

- Operation (20%)
- Presentation (20%)
- Research (30%)
- Creativity and innovation (30%)



8. Disqualification

- When there is no indication of proper research.
- Any team with more than three learners will be disqualified.

BE PREPARED WHEN THE COMPETITION STARTS!

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