

Date Released:

Thursday, April 28, 2022

Due Date:

Friday, May 27, 2022

Term Project

List of Projects

- Group 1:** Design & build a portable RJ-45 Cable tester.
- Group 2:** Design & build a portal device to measure the moisture content/level in a soil.
- Group 3:** Design & build a weather monitoring station & logging system.
- Group 4:** Design & build a sun tracking solar panel.
- Group 5:** Design & build a rain sensing automatic car wiper.
- Group 6:** Design & build a portable energy (power) monitoring device for a household.
- Group 7:** Design & build a portable Christmas tree.
- Group 8:** Design & build an automated dimming street light device.
- Group 9:** Design & build a wireless doorbell system.
- Group 10:** Design & build a portable alcohol detection system.
- Group 11:** Design & build a universal TV remote controller.
- Group 12:** Design & build an emergency GPS tracking device.
- Group 13:** Design & build a Police Siren device.
- Group 14:** Design & build a heart rate monitoring device.
- Group 15:** Design & build a portable bluetooth speaker.

Instructions:

1. You are required to submit a prototype together with a 3-page report on how the system was designed and built.
2. Record a video that demonstrates how your prototype works. Each group member is required to appear in the video. A web portal will be setup for submission of the project report together with the demo video.