

Events Snaps



Cyber Security in Smart Grid Workshop during Pragyan (Technical Fest of NIT Trichy). Workshop organised @ Orion F11.

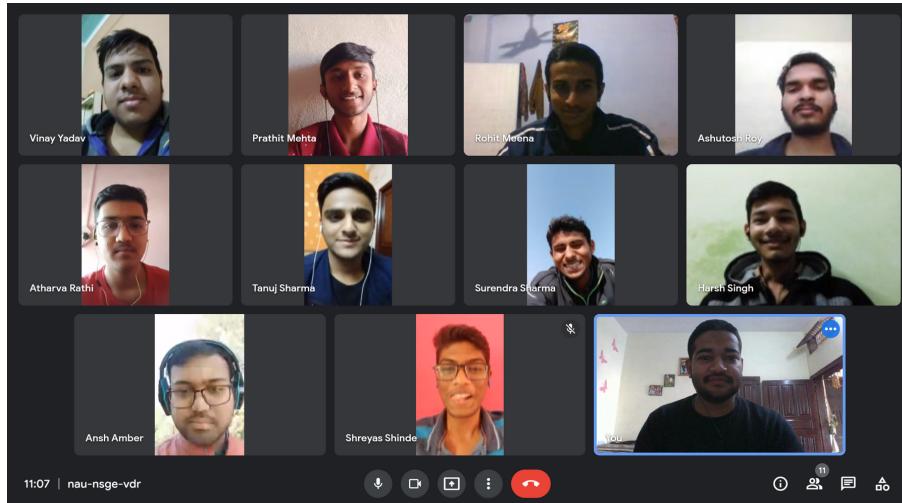
Introduction to Dark Activated Relay

A dark activated relay, also known as a photorelay or dusk sensor, is an electronic switch that operates based on the absence of light. It typically utilizes a light-dependent resistor (LDR) as the sensing element. The LDR's resistance varies inversely with the incident light intensity. In darkness, the LDR's resistance increases considerably, triggering the relay to activate. This activation can control various electrical devices, such as lights, fans, or alarms.

Dark activated relays find wide applications in various fields, including:

- Automatic Lighting Control:** They are commonly used to automatically turn on lights at dusk and turn them off at dawn, saving energy and enhancing convenience.
- Industrial Automation:** In industrial settings, they are employed to control machinery based on light conditions, ensuring safety and optimizing production processes.
- Security Systems:** They can trigger alarms or activate surveillance cameras when darkness falls, enhancing security measures.
- Home Appliances:** They can automate the operation of appliances, such as fans or humidifiers, based on ambient light levels.

Dark Activated Relay Workshop during CURRENTS (EEE Department symposium). Workshop organised @ Ms Teams with academics professors.



This is my team which helps me to organised above workshops