



NANDHA COLLEGE OF TECHNOLOGY

ERODE-638 052



Department Of Information Technology

Metal or Non-Metal detector

Brief Description

A metal or non-metal detector with a proximity sensor is a device that detects the presence of metallic or non-metallic items in its surroundings. It makes use of a proximity sensor, which detects the presence of items without requiring physical touch. When the detector is turned on, the proximity sensor sends out a signal or field, such as an electromagnetic field or an infrared beam. When an item enters the range of this signal, it interacts with the sensor, altering the detected signal. The detector then analyses the variations in the signal to identify whether the object is metallic or non-metallic using established criteria. This information is frequently shown on a screen or conveyed visually.



Real time application:

- Security checks
- Geophysical
- Prospecting
- Archaeology
- Food inspection
- Industrial metal detection
- Infrastructure monitoring

PROJECT TEAM

Student Details:

1. **Kavinkumar.T**-732121205029
2. **Nihethan.E**-732121205040
3. **Kaviyarasu.M**-732121205030
4. **Sanjai.M**-732121205045

Mentor:

Devarajsami .S, AP/IT, NCT

