

RGET



ROBOT INTERFACES

ROBOT EMBEDDED SYSTEM

PROGRAMMING TECHNIQUES

WIRELESS TECHNOLOGY

INTERNET OF THINGS

PYTHON PROGRAMMING

ARTIFICIAL INTELLIGENCE

3D MODELLING & PRINTING

AEROMODELLING & DRONE TECHNOLOGY

CODING WITH ARDUINO

21 IOT PROJECTS

Introduction of Robotics

- What is Robotics?
- What is a Robot?
- Advantages and Disadvantages of Robots.
- Laws of Robots.
- Types of Robots.
- Kit explanation (also tell about kit quality and rate).
- Components explanation (only structural components).
- Model explanation – Simple humanoid.

Hand Powered Car

- Components explanation (Electronic components).
- About Motor.



- About Generator.
- Difference between Motor and Generator.
- Motor as generator.
- Uses of Motors.
- Model explanation – Single Motor Car.

Windmill

- Energy.
- Forms of energy.
- Renewable and Non Renewable energy.
- Importance of Renewable energy.
- Model building – Windmill

Simple Machines

- Explain Simple Machines.
- Types of Simple Machines.
- Explain each type.
- Model Building – Pulley, Wheel & Axle and Inclined plane.

Scooby Robot

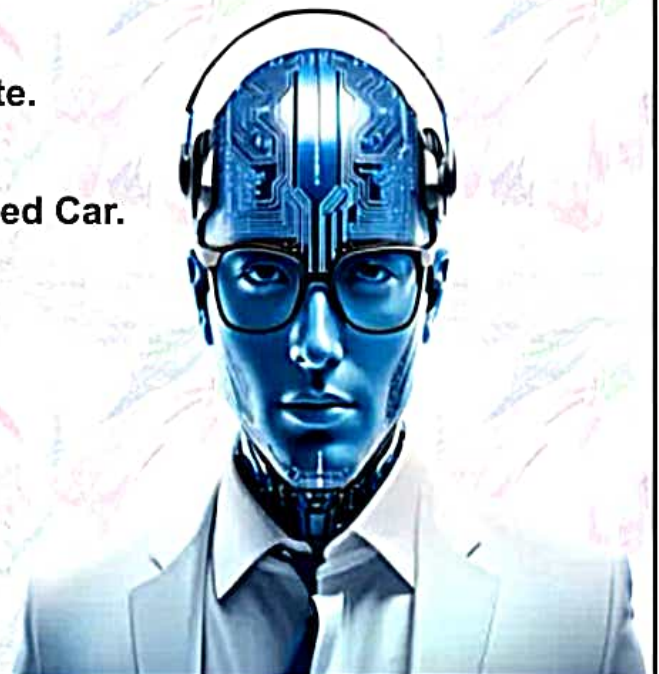
- Dogs explanation.
- Uses of dogs.
- Scooby doo explanation.
- Model explanation – Scooby.
- Explain about Touch Sensor.

Remote Controlled Car

- Remote Control.
- Example of Wired and Wireless remote.
- Explain how TV remote works.
- Model Explanation – Remote Controlled Car.

Weighing Balance

- Weight of an object.
- Units of weight.
- Uses of weighing balance.
- Model building – Weighing Balance.



21 IOT

PROJECTS

0.IOT KIT INTERVIEW

1.LED PATTERN

2.SWITCH BASED LED COUNTER

3.ANALOG I/O-FADE LEDS USING POTENTIOMETER

4.USING MILLIS

5.REMOTE CONTROL BASED MELODY PLAYER

6.USING EEPROM TO CONTROL DEVICES

7.MOTOR SPEED CONTROL

8.ACCELEROMETER BASED ROTATION CONTROL

9.WIRELESS CONNECTIVITY

10.SEND EMAIL

11.DIGITAL CLOCK

12.WAMP SERVER BASED TEMPERATURE LOGGER

13.INTERNET/INTRANET BASED LED CONTROL

14.INTERNET BASED TEMP.LOGGER WITH TWEETS

15.INTERNET BASED HOME AUTOMATION

16.STREET LIGHT CONTROL

17.HOME SECURITY SYSTEM

18.WATER LEVEL MONITOR

19.MULTICOLOR CONTROL

20.INTERNET BASED MOTOR SPEED CONTROL

21.SOIL MOISTURE MONITOR & SD CARD LOGGER

22.ARDUINO PINS AND CONCEPTS

