



# G H RAISONI COLLEGE OF ENGINEERING

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur) Dual

Accreditations NAAC "A+" Grade & NBA (Tier-I)

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Date: Thursday, 2<sup>nd</sup> March 2023

## One Day Skill Program

On

# Internet of Things

Organized by

## AICTE IDEA LAB

In association with

Department of Electronics & Telecommunication Engg. and Electrical Engineering

Wednesday, 22<sup>nd</sup> February 2023

**Description:** The idea behind this one day Skill program was to develop & impart the **Technical staff skills** related to latest technological advancements in the Electronic System Design. This one day skill program was mainly focused on the various **IoT technology and development of Things (IoT Hardware)**. This program will help in updating knowledge in domain of Product Development related to tools use for Technical Lab assistants.

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 An Autonomous Institute Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.  
**(Dual Accreditations NAAC "A+" Grade & NBA)**  
**AICTE-IDEA (IDEA DEVELOPMENT, EVALUATION & APPLICATION) LAB SCHEME**  
**Department of Electronics & Telecommunication Engg. & Electrical Engineering**

Jointly Organizes

**One Day Skill Program On**  
**Internet of Things (IoT)**

Time & Venue	Session	Session Mentor
11:30 AM Onwards, At C12 Lab	Introduction of Internet of Things, And Hands on session on Internet of Things	<b>Prof. Suraj Dudhe</b> <b>Dr. Pankaj H. Chandankhede</b>

**2<sup>nd</sup> March 2023** **For Technical Staff**

Program Coordinator: **Dr. Pankaj Chandankhede** | HOD, ETC Dept: **Dr. Atul Deshmukh** | HOD, EE Dept: **Dr. Prema Daigavane** | Co-coordinator, AICTE Idea Lab: **Dr. Dinesh Padole** | Coordinator, AICTE Idea Lab: **Dr. Santosh Jaju** | Chief Mentor, AICTE Idea Lab: **Dr. Sachin Untawale**

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## The content of the program:

- Address to Technical staff regarding AICTE IDEA LAB skill programs.
- Session on Introduction to IoT – **Prof. Suraj Dudhe**
- Session on Arduino Software And Programming - **Prof. Suraj Dudhe**
- Session on Hardware interfacing to Arduino – **Dr.Pankaj H. Chandankhede**
- Session on I o T - **Dr.Pankaj H. Chandankhede**



Dr. P.V.Walke , Dr Deputy Director, Dr. P.Y Pawade, Dean PG, Dr.Atul Deshmukh HOD Electronics & Telecommunication Engg. & Dr. Prema Daigavane HOD Electrical Engg., along with Program Coordinator Dr. Pankaj Chandankhede, & Prof. Suraj Dudhe were present at the inauguration of the Skill Program. Prof.Suraj Dudhe, the session regarding motto of **AICTE IDEA LAB** skill programs.

### **SESSION1: 11 am to 12:30 pm**

:Prof Suraj Dudhe Delivered session on IoT Technology.

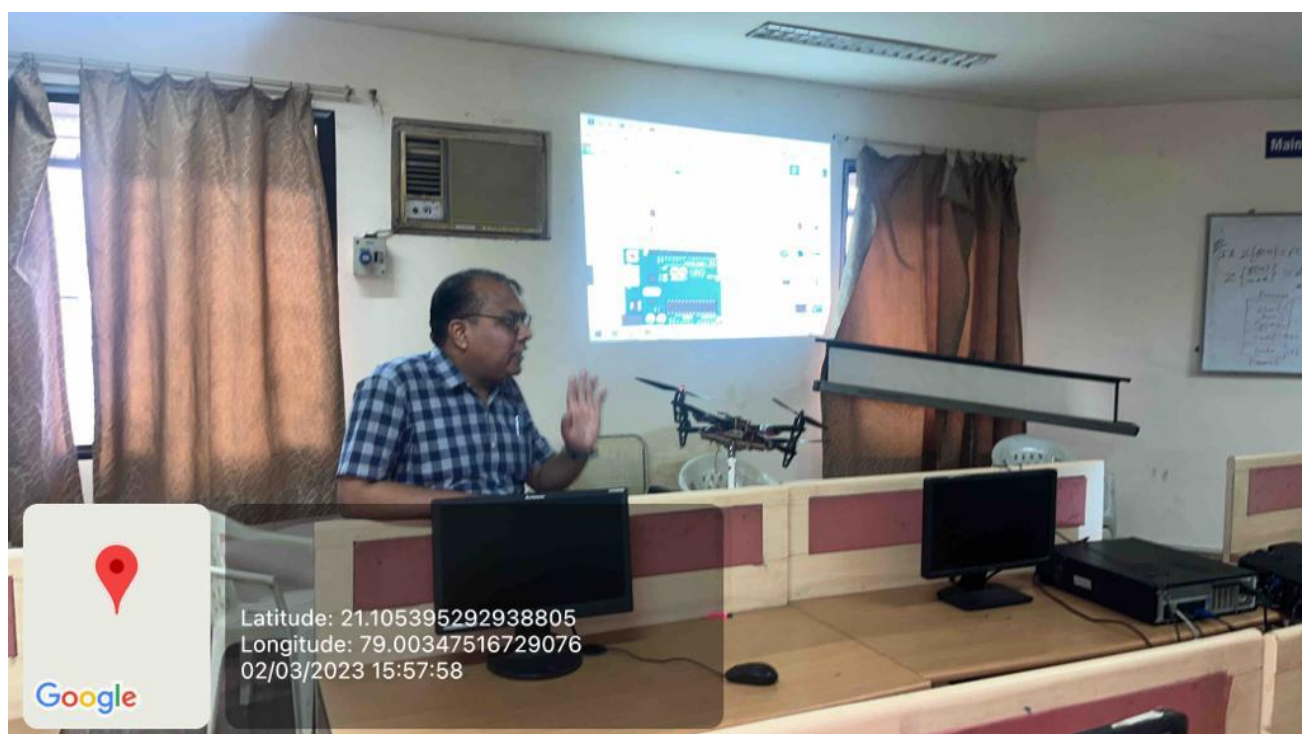




In first session Prof.Suraj Dudhe explained about usage, applicability & importance of IoT in day to day life. He also elaborated IoT system diagram, software used for designing Things.

### **SESSION 2 (Arduino Software Installation):1 pm– 02.30 pm**

Prof.Suraj Dudhe, explain about software installation and online tinkercad platform to the attendee. Participant also download software and created account on tinkercad online platform.



## **SESSION 3 & 4(Handson Training ):02.30 pm to 5:30 pm**

Session 3 was conducted by Dr.Pankaj Chandankhede.

Dr.Pankaj Chandankhede took example of traffic light signal, where circuit of LED (Red,Green,Yellow) was developed on tin driving. Also programming of arduino was taught to attendee. Participant developed IoT Circuit and completed required coding.

*Reportby:*

**Dr.Pankaj H. Chandankhede**  
**(ETC Dept.)**  
**Prof. SurajDudhe (EE Dept.)**  
**Program Coordinator**  
**GHRCE, Nagpur**