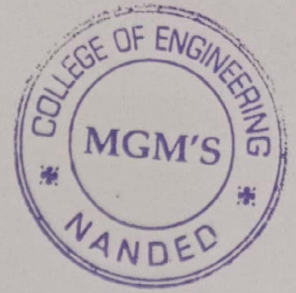


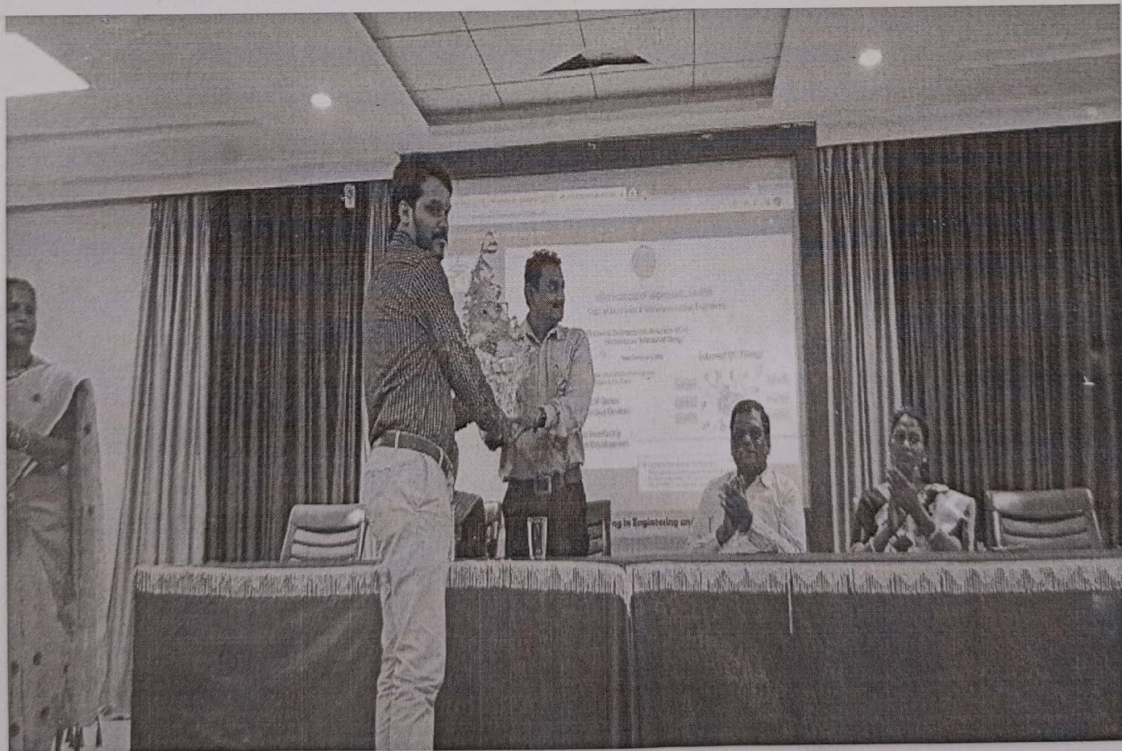
MGM's College Of Engineering, Nanded
Department of Electronics and Telecommunications
Engineering



Workshop On **"Internet of Things"**

Dept. of Electronics and Telecommunication Engineering conducted a workshop on **"Internet of Things"** on 9 June to 11 June 2022 for first year, second year, Third year & Final year students. By Dolphins Lab, Pune.

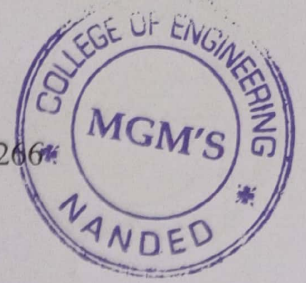
The workshop was conducted By professor **Mr. Chittaranjan Mahajan sir**, in conference hall. This workshop was conducted under the guidance of (Mrs. M A. BANWASKAR , Mr. D.J. TUPTWAR)





1. SOFTWARE AND HARDWARE OVERVIEW :

In this topic students gets familler with IOT technology,HTML , ESP8266*
NODE MCU Hardware.



+ Course contents:

+ Overview

- Introduction to IoT
- Introduction to ESP Series
- Programming Basics
- GPIO Programming

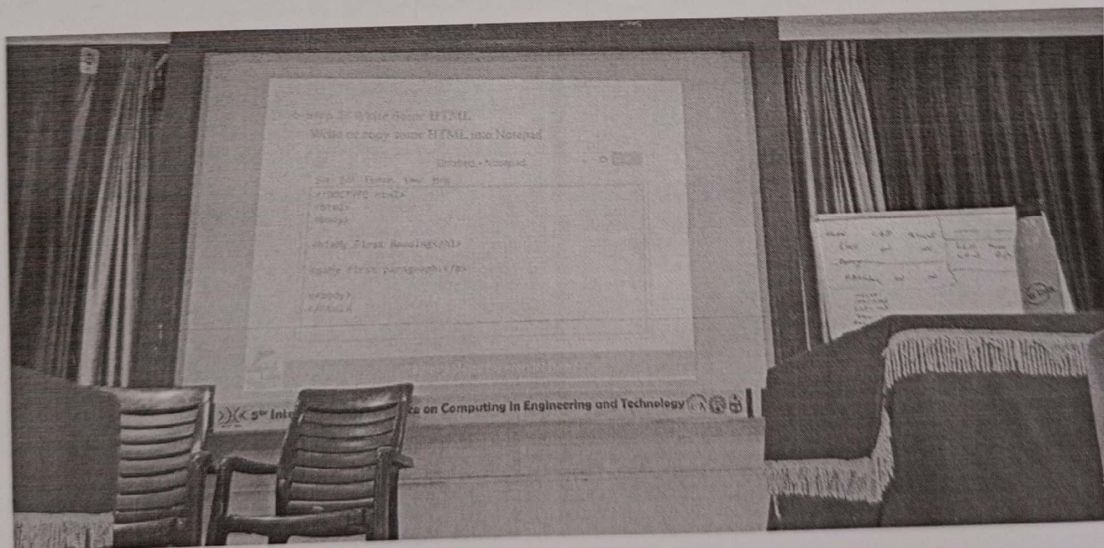
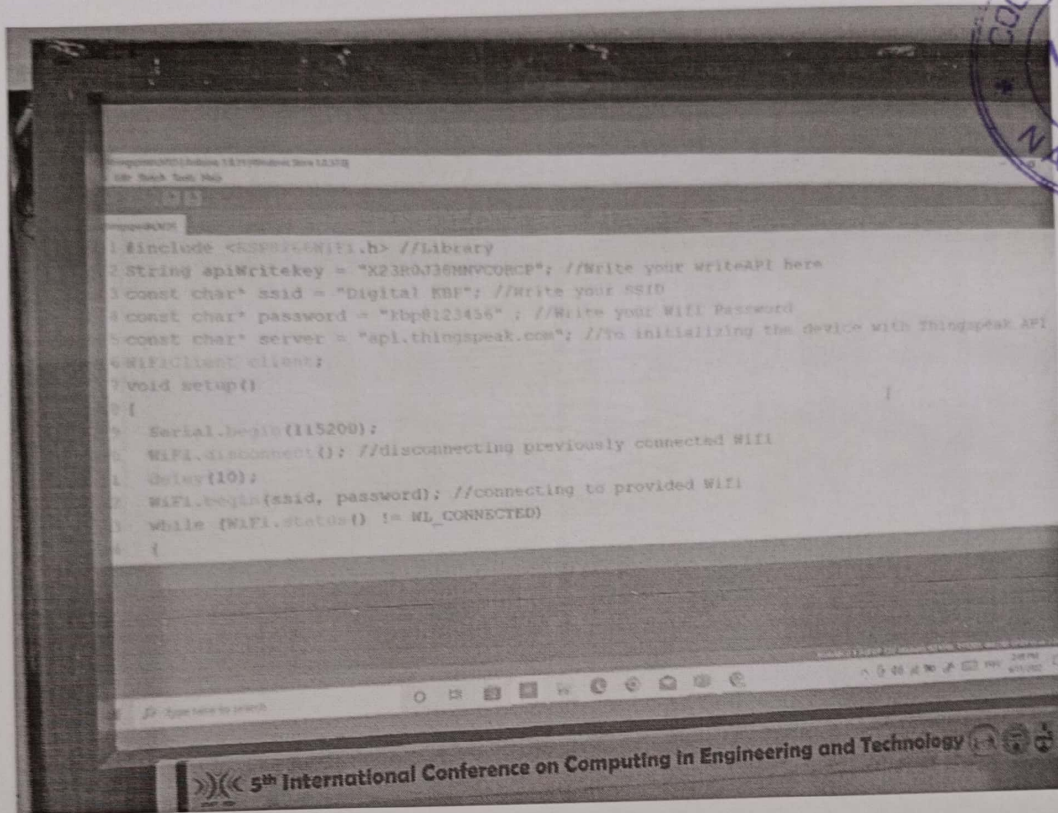
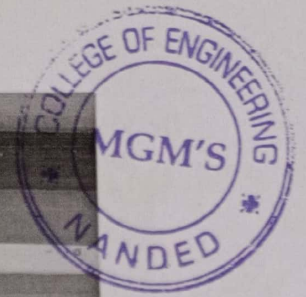
+ HTML OVERVIEW

- HTML Basics
- Wi-Fi Interfacing

+ Cloud Interfacing

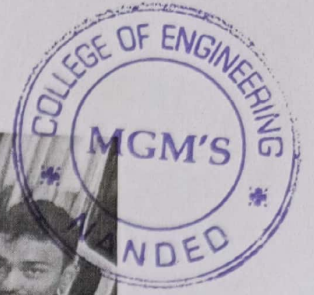
- IOT development
- Case studies

Internet of Things has created new opportunities in different industries. Agriculture, Energy, Healthcare, Transportation are most demanded sectors for internet of things. The internet of things is in its growing stage and there are huge upcoming opportunities. Internet of things is emerging as a third wave in development of internet. Internet of things has potential to connect more than 1.8Trillion "Things" to internet by 2025 ranging from bracelets to cars



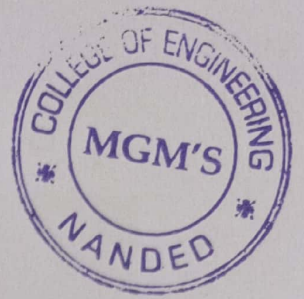
These are the following groups of students who participated in this workshop.

GROUP A



GROUP B





2. Electronics components and Instruments:

This topic gives the brief introduction to “Internet of Things” and its applications and electronics devices. **How to Setup the ESP8266 Arduino IDE with the Node MCU V3 (ESP8266 ESP12e)**. This session was conducted in Conference Hall.

✦ BASIC PROJECT BUILDING:

- LED Interfacing,
- Buzzer Interfacing,
- Relay Interfacing.
- ADC interfacing,
- Sensors Interfacing
- Temperature Measurement

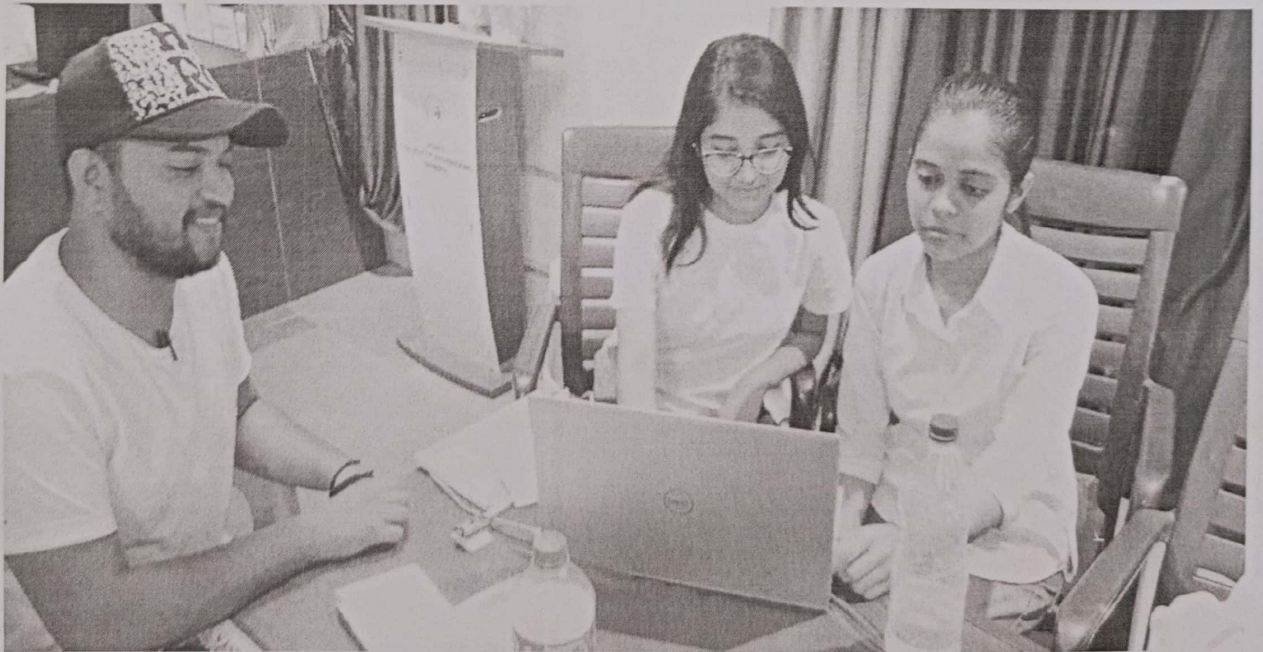
✦ ESP webserver:

- ESP webserver and GPIO Programming
- ESP webserver LED Interfacing
- ESP webserver Buzzer interfacing
- ESP webserver Relay Interfacing
- ESP webserver ADC interfacing
- Website development for controlling and monitoring parameters
- Web controlled Robot

GROUP C



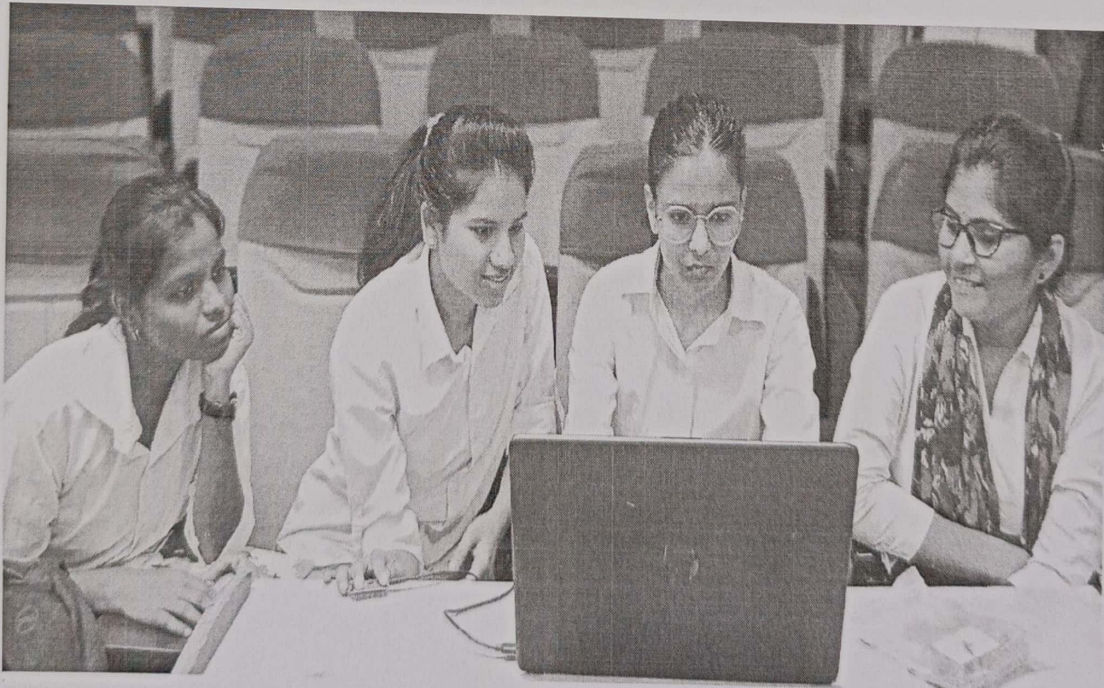
GROUP D



GROUP E

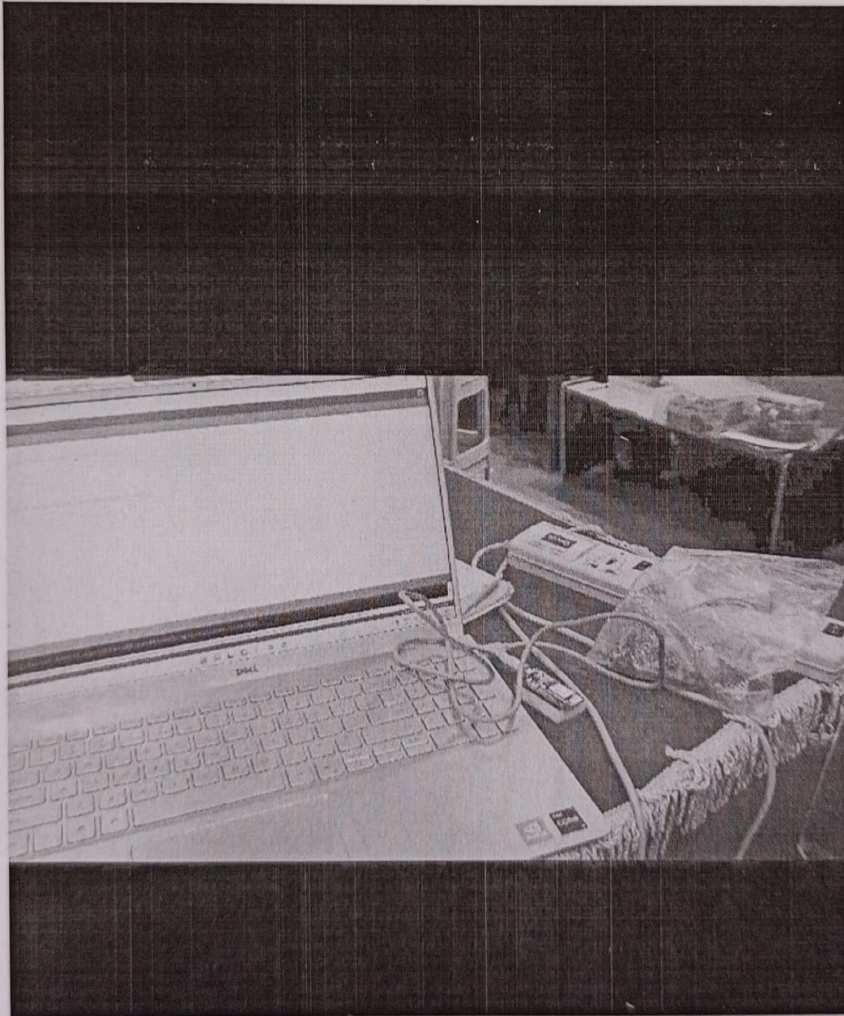


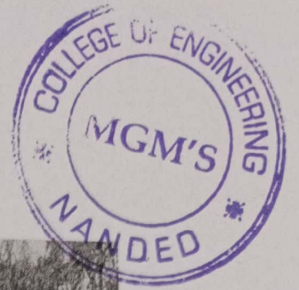
GROUP F



3. Introduction to IOT,Cloud infrastructure, HTML and NODE MCU ,ESP8266 based projects:

This workshop conducts the brief introduction to the IOT development and their applications or ESP8266 Series or HTML , Some projects on the ESP8266 were the students gets information that how we can make projects by using ESP8266 Node MCU , WiFi interfacing .





Successfully completed workshop with the best experience!!

M.R.

Prof. M. R. Banwaskar
Workshop Coordinator

M.P.

Dr. Mrs. K. P. Paithane
Prof. & Head of ECT

f

G. S. Lathkar

Dr. Geeta. S. Lathkar
Director
Dr. Mrs. G.S. Lathkar
Director
MGM'S College of Engineering
Nanded.



MGM's College of Engineering, Nanded

Department of Electronics and Telecommunication Engineering

Webinar on "Mobile Communication and OTT" (Date: 20 June 2020 11am -1pm)

By Mr. Dhananjay Ranjan, Director, Dept. of Telecommunications, Govt. of India, New Delhi

We are thrilled to announce an insightful webinar delivered by the esteemed Director of the Department of Telecommunication, focusing on the dynamic landscape of Mobile Communication and Over-The-Top (OTT) services. In an era characterized by rapid technological advancements and digital transformation, understanding the evolving trends and innovations in mobile communication is paramount.

Key highlights of the Webinar:

To trace the evolution of mobile communication from its inception to the present day. Explore the technological advancements, standards, and protocols that have shaped the mobile landscape and revolutionized connectivity.

To gain insights into the proliferation of Over-The-Top (OTT) services and their transformative impact on the media and telecommunications industries.

MGM's College of Engineering, Nanded
Department of Electronics and Telecommunication Engineering

TECHNICAL WEBINAR ON
Mobile Communication and Over-Top Services

Mr. Dhananjay Ranjan

- B.E.(ECT) from MGMCOE, Nanded (1984 Batch)
- M.Tech. from IIT Varanasi and MBA from JGNOC.
- Got selected for 17 different govt. jobs including BIL, BHEL, SAIL, Airport Authority of India etc.
- Qualified UGC-NET and worked as lecturer in IIT, Patna
- Later in 2000, he qualified in "Engineering Services Examination conducted by UPSC" and got his O'rank (fulfilled by passing Indian Telecom Services).

Registration link: <https://www.zoom.us/j/92081992081>
Webinar Link: <https://www.zoom.us/j/92081992081>
Zoom Meeting ID: 92081992081

Ms. A. K. Salve & Prof. M. R. Banwaskar | Dr. M. S. Chaudhari | Dr. Mrs. Geeta S. Lathkar
Faculty Coordinator | Head of ECT Dept. | Director, Nanded

AKS

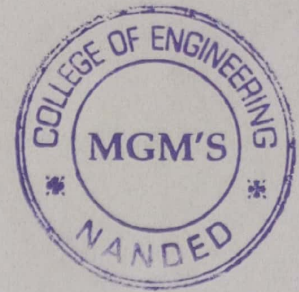
Ms. A. K. Salve
Webinar Coordinator

MRB

Ms. M. R. Banwaskar
Webinar organizer

Geeta S. Lathkar

Dr. Geeta S. Lathkar
Director
Dr. Mrs. G.S. Lathkar
Director
MGM'S College of Engineering
Nanded.



MGM's College of Engineering, Nanded

Department of Electronics and Telecommunication Engineering

Webinar on "Internet of Things" (Date: 28 June 2020 11am -1pm)


By Mr. Anand Nayyar, Faculty and Research Scientist at Graduate School Duy Tan University, Vietnam

The Internet of Vehicles (IoV) is poised to transform the way we perceive transportation, offering unprecedented connectivity, efficiency, and safety on the roads. This webinar, presented by leading researcher from Vietnam, will explore the intricacies of IoV and its potential to reshape the future of mobility.

Webinar Objectives:


- i) Understanding IoV: To gain insights into the fundamental concepts and principles of the Internet of Vehicles (IoV), including its architecture, components, and applications.
- ii) Exploring Emerging Technologies: To discover the latest advancements in vehicle-to-vehicle (V2V), vehicle-to-infrastructure (V2I), and vehicle-to-everything (V2X) communications, as well as the integration of AI, IoT, and cloud computing in IoV systems.
- iii) Addressing Challenges and Opportunities: To explore the challenges and opportunities associated with the widespread adoption of IoV.


Webinar on Internet of Vehicles


MGM's College of Engineering, Nanded
Department of Electronics and Telecommunication Engineering

TechnikaMGMEN

INTERNATIONAL WEBINAR ON
Internet of Vehicles
Date: 28th June 2020 Time: 11:00am to 01:00pm




Dr. Anand Nayyar
Faculty and Research Scientist in Graduate School, Duy Tan University, Da Nang, Vietnam

- ◆ Faculty, Researcher and Scientist in Graduate School, Duy Tan University, Da Nang, Vietnam
- ◆ Ph.D. in Computer Science from Jodhpur Bhagat University, Manali Gobindgarh in Wireless Sensor Networks, Swarm Intelligence, and Network Simulation.
- ◆ A Certified professional with 25+ International & Globally Recognized Professional Certifications from various IT Giants
- ◆ Editor in Chief for IJ-Global Journal titled "International Journal of Smart Vehicles and Smart Transportation"
- ◆ Has 2 Patents to his credit in the area of Speech Processing and Internet of Things (IoT).
- ◆ Acting as ACM DISTINGUISHED SPEAKER
- ◆ Awarded with 02nd National Awards for Teaching, Research, Innovation and Scientist Activities
- ◆ Has created more than 250 Videos on YouTube on his Channel Cyran with Anand Nayyar.
- ◆ Currently working in the area of Wireless Sensor networks, Swarm Intelligence, Cloud Computing, Cyber Security, Wireless Communications, Machine Learning, Deep Learning, Smart Cities, Wireless Communications, High-Performance Computing, Internet of Things (IoT), Data Science Analytics, Open Source Technology, Swarms, Computational Intelligence and Blockchain technology.

Registration Link: <https://forms.gle/8jCm9thwvEdVPSRA>
Log in details of Zoom will be sent on Email or Whatsapp group of webinar after registration.

Ms. A. K. Salve
Faculty Coordinator

Prof. Mrs. M. R. Banwaskar
Faculty Coordinator

Dr. Ms. E. G. Jondhale
Head of ECT Dept.

Dr. Mrs. Geeta S. Lathkar
Director, MGMCOEN

AKS

Ms. A. K. Salve
Webinar Coordinator

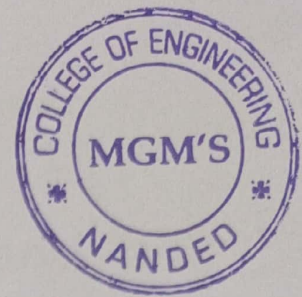
MRS

Ms. M. R. Banwaskar
Webinar organizer

Geeta

Dr. Geeta S. Lathkar
Director
Dr. Mrs. G.S. Lathkar
Director
MGM'S College of Engineering
Nanded.





MGM's College of Engineering, Nanded

Department of Electronics and Telecommunication Engineering

Webinar on "Digitization and Digital Competences" (Date 31 May 2020, 11 am to 1 pm)

An enlightening webinar is hosted which aims at unraveling the intricacies of digitalization and enhancing digital competence. In today's rapidly evolving digital landscape, understanding these concepts is crucial for teachers and students.


Webinar objectives:

- i) Understanding Digitalization: To gain a comprehensive understanding of digitalization and its implications across various sectors. Explore how digital technologies are reshaping industries, businesses, and societies worldwide.
- ii) Enhancing Digital Competence: Discover the essential skills and competencies required to thrive in the digital age. Learn how to leverage digital tools and platforms effectively to enhance creativity, and innovation.

The webinar is delivered by Mr. K. P. Sharma, Vice-president, Global Supply Chain, Schneider Electric, New Delhi. He is MEMCEN, ECT Dept. passout of 1994 batch and has 25 years of experience in Industry. Currently, he also working as Chairman, Automation Sector Skill Council.

Don't miss this opportunity to expand your knowledge and stay ahead in the digital age.

Webinar on Digitization and Digital Competences




MGM's College of Engineering, Nanded
Department of Electronics and Telecommunication Engineering

TechTalk@MEMCEN A TECHNICAL WEBINAR ON

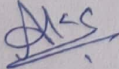
Digitization and Digital Competences
Date: 31st May 2020 Time: 11:00am to 01:00pm


Resource Person
Mr. K. P. Sharma
VP, CSQ Global Supply Chain GSC, International.

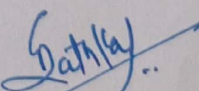


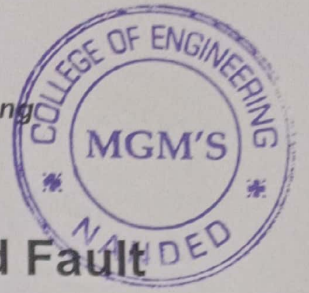
- ◆ B.E.(ECT) From MGMCOE, Nanded (1994 Batch)
- ◆ 25 Years of Experience in MFG, IT, ITES companies.
- ◆ Worked in Dell, Agilent, LG, Panasonic in USA, Korea and Japan..
- ◆ Awarded as Gandhi Seva Medal, Young Professional Indian by PM, Platinum Medals by Dell Global form.
- ◆ Working as Chairman of automation Sector Skill council.

Prof. Mrs. M. R. Banwaskar Faculty Coordinator	Dr. Ms. K. G. Jondhale Head of ECT Dept.	Dr. Mrs. Geeta S. Lathkar Director, MGMCOEN
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Ms. A. K. Salve
Webinar Coordinator


Ms. M. R. Banwaskar
Webinar organizer


Dr. Geeta S. Lathkar
Director
Dr. Mrs. G.S. Lathkar
Director
MGM'S College of Engineering
Nanded.



Workshop On Introduction to Computer Hardware and Fault Diagnosis

Dept. of Electronics and Telecommunication conducted a workshop on "Introduction to Computer Hardware and Fault Diagnosis" on 28 May 2022 for first year and second year students.

The workshop was divided into several sub topics which are conducted in respective labs. This workshop was conducted under the guidance of (name of teachers) with the help of (nonteaching staf name)

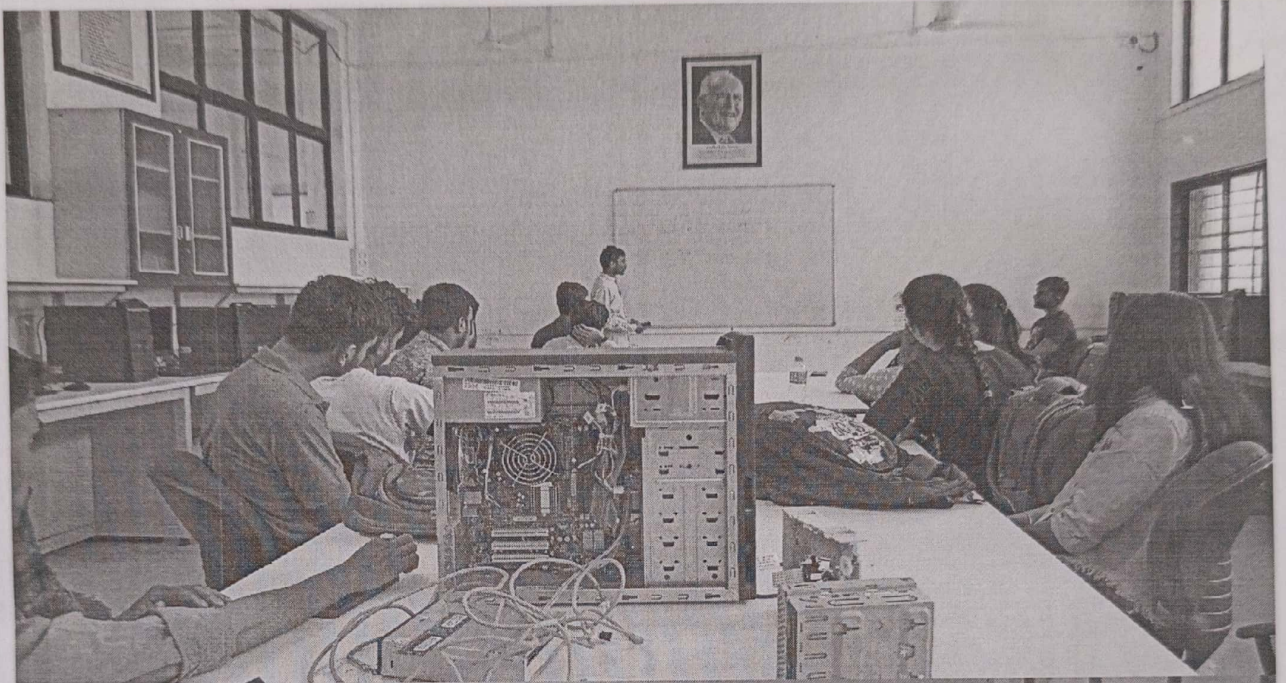


1. Computer Hardware:

In this topic students gets familler with computer and its hardware.

Student Coordinators:

- a. Nartwar Prathamesh
- b. Phesate Govind
- c. Puyyad Kedarnath

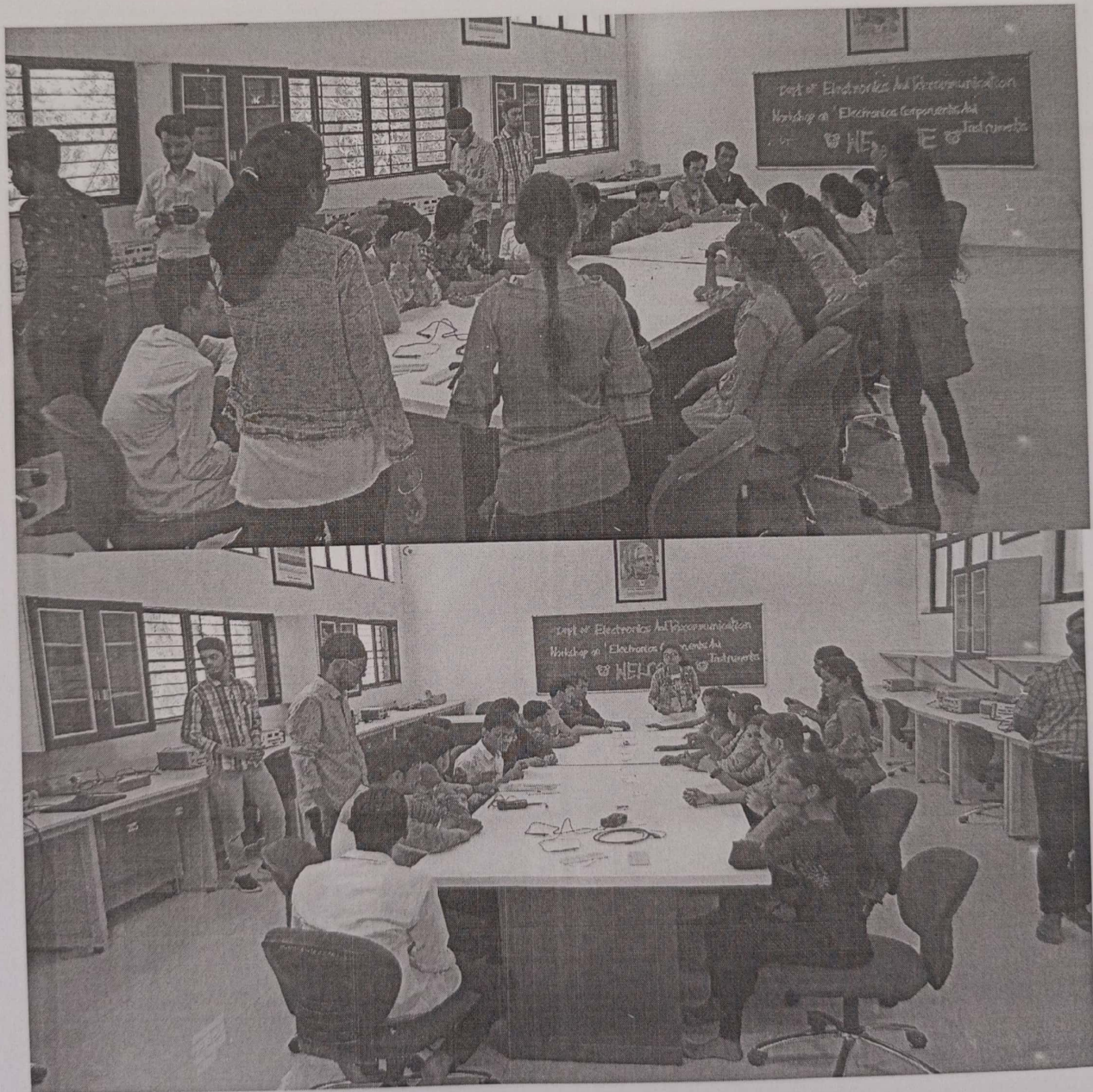
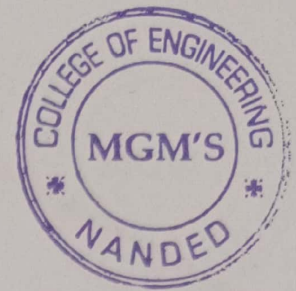


2. Electronics components and Instruments:

This topic gives the brief introduction to basic components of electronics and its applications and electronics devices. This session was conducted in electronics devices and circuit lab.

Student Coordinators:

- a. Solanke Jyoti
- b. Bamne Pornima
- c. Magar Renuka
- d. Jakrewalle Purushottam
- e. Pangrekar Martand
- f. Kashif Ahmad

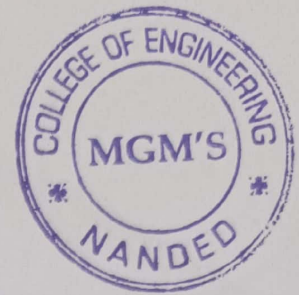


3.Digital Electronics

In this students get knowledge about digital devices. This session was conducted in Digital Logic design lab.

Student Coordinators:

- a. Danajkar Sambodhi
- b. Lokade Prerna
- c. Waghmare Sandip

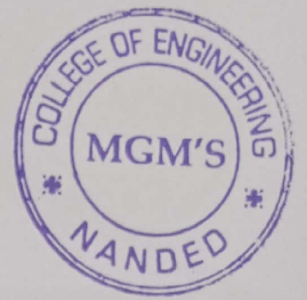


4.Introduction to Ardino and ardino based projects:

This lab conducts the brief introduction to the Ardino. Some projects on the ardino were the students gets information that how we can make projects by using ardino

Student Coordinators:

- a. Paikroa Niket
- b. Mungal Krishna
- c. Kendre Vidyashree
- d. Sarankar Akash
- e. Wankhede Sandip

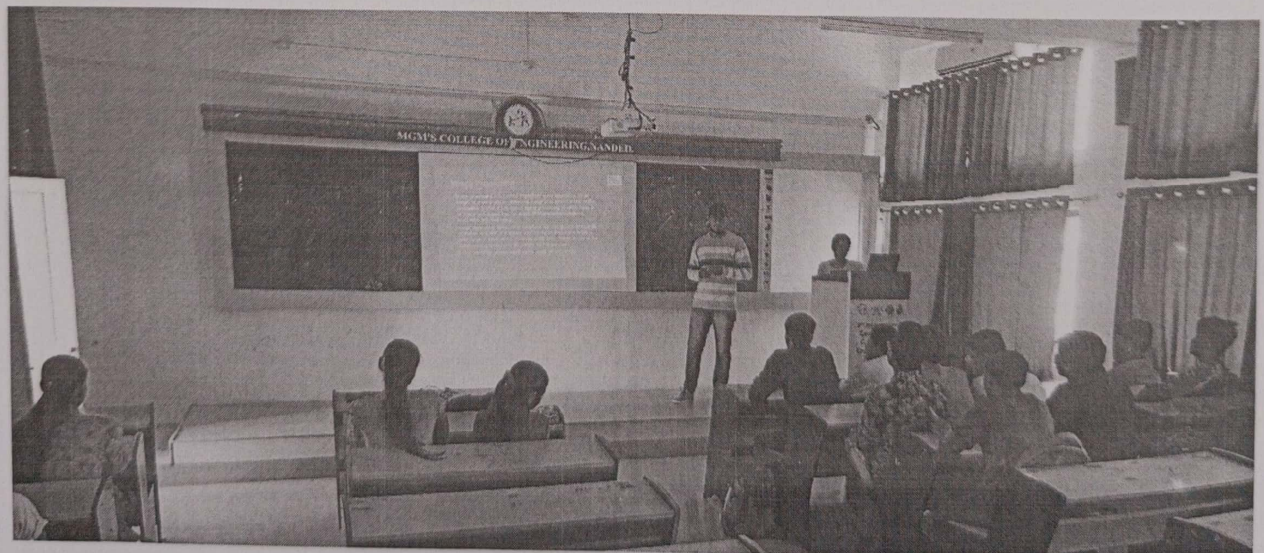
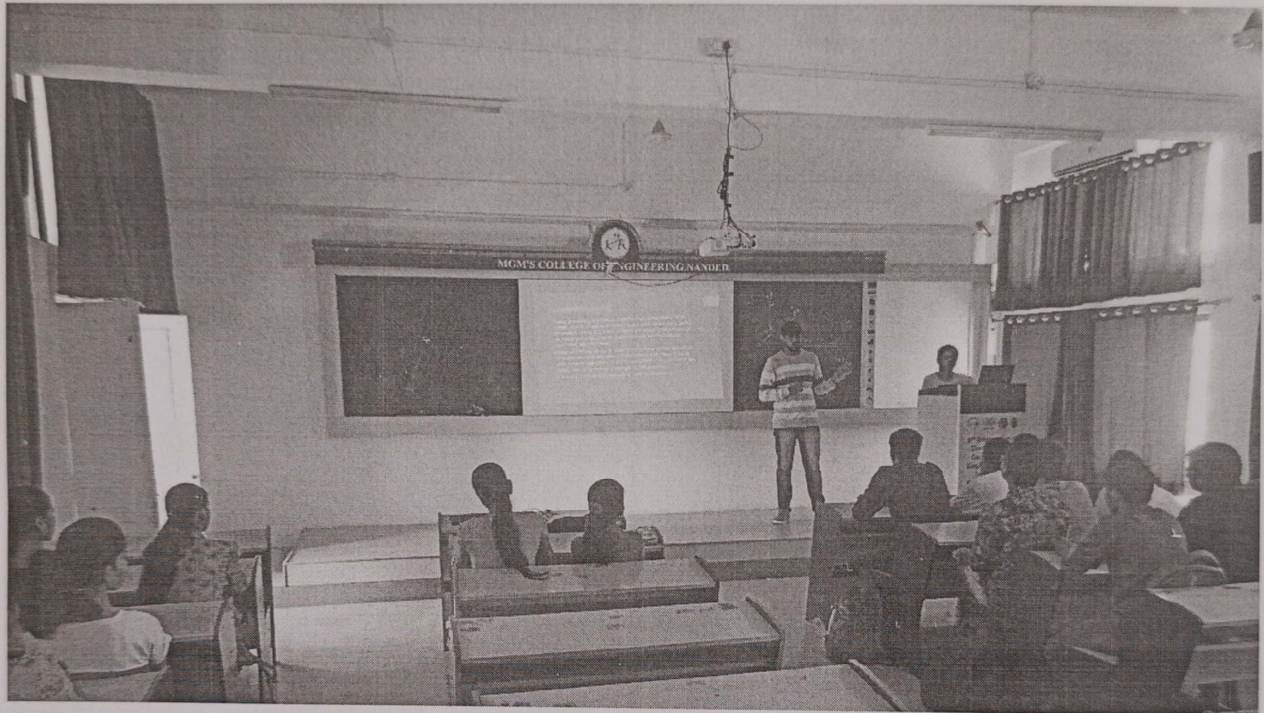
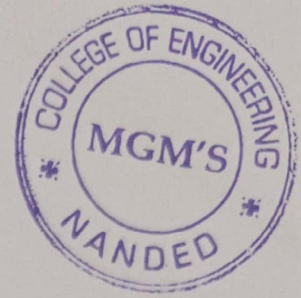


5.Raspberry Pie:

In this lab students, gets introduce to the Raspberry Pie what actually it is and some projects on it.

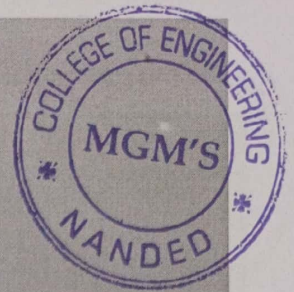
Student Coordinators:

- a. Mayuri Kulkarni
- b. Purushottam Kawthekar



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MGM's COLLEGE OF ENGINEERING, NANDED
Department of Electronics and Telecommunication



Date: 27/05/2022



ELECTRONICS TECHNOCRATES ASSOCIATION

All the students of FY ~~ECT~~^{IV} and SY ECT are informed that we have arranged a workshop on **INTRODUCTION TO COMPUTER HARDWARE and FAULT DIAGNOSIS** on 28th May 2022. in Digital Electronics and Micro Processor Lab, Dept. of ECT.

There will be 3 slots for attending the workshop: 10.30 -12.30, 1-3 and 3.30 -5.30 .

You can book your slot by contacting the coordinators.

Students will get fundamental knowledge about Computer hardware, Operating System installation and fault diagnosis in this workshop.

Students Coordinators for the workshop are:

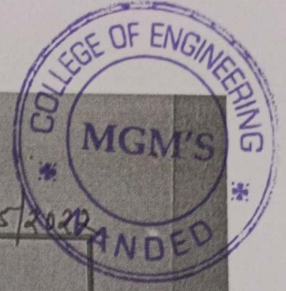
- 1) Govind Phesate 9075171906
- 2) Kedarnath Puyyad 9921034759
- 3) Onkar Shiradhonkar
- 4) Prathmesh Nartawar

Staff coordinators: Mr. Hundekar and Mr. N. Parikh



MW
23/5/22
M. R. Banwaskar
ETA Coordinator

Dr. K. C. Jondhale
Head of Dept.



30/5/2022



MGM'S COLLEGE OF ENGINEERING, NANDED
Department of Electronics and Telecommunication



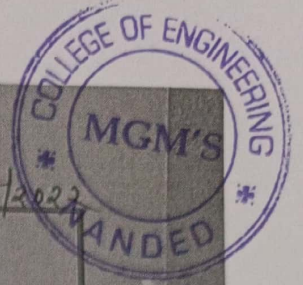
ELECTRONICS TECHNOCRATES ASSOCIATION

**Hearty Congratulations to following co-ordinators of
Computer Hardware Workshop**

- | | |
|-------------------------|--------------------------|
| 1 Prathmesh Nartawar | 12 Lokade Prerna |
| 2 Govind Phesate | 13 Kendre Vidyashree |
| 3 Kedarnath Puyyad | 14 Jakrewale Purushottam |
| 4 Onkar Shiradhonkar | 15 Pangrekar Martand |
| 5 Purushottam Kawthekar | 16. Khashif Ahmad |
| 6 Mayuri Kulkarni | 17 Waghmare Sandip |
| 7 Solanke Jyoti | 18. Mungal Krishna |
| 8 Bamne Pornima | 19. Paikrao Niket |
| 9 Swarali Rajurkar | 20. Sarangkar Akash |
| 10 Magar Renuka | 21 .Wankhede Sandip |
| 11 Danajkar Sambodhi | 22. Sanskar Kotalwar |
| | 23 Avishkar Kulkarni |
| | 24. Nitish Malakoliker |

From, HOD & All staff members





30/5/2022



MGM'S COLLEGE OF ENGINEERING, NANDED
Department of Electronics and Telecommunication



ELECTRONICS TECHNOCRATES ASSOCIATION

**Hearty Congratulations to following co-ordinators of
Computer Hardware Workshop**

- 1 Prathmesh Nartawar
- 2 Govind Phesate
- 3 Kedamath Puyyad
- 4 Onkar Shiradhonkar
- 5 Purushottam Kawthekar
- 6 Mayuri Kulkarni
- 7 Solanke Jyoti
- 8 Bamne Pornima
- 9 Swarali Rajurkar
- 10 Magar Renuka
- 11 Danajkar Sambodhi

- 12 Lokade Prerna
- 13 Kendre Vidyashree
- 14 Jakrewale Purushottam
- 15 Pangrekar Martand
16. Kashif Ahmad
- 17 Waghmare Sandip
18. Mungal Krishna
19. Paikrao Niket
20. Sarangkar Akash
21. Wankhede Sandip
22. Sanskar Kotalwar
- 23 Avishkar Kulkarni
24. Nitish Malakoliker

From, HOD & All staff members

Dr. Mrs. M.R. Banwaskar
Mr. D.J. Tuptewar
Workshop Coordinator

Dr. K.P. Paithane
Prof. & Head of ECT Dept.

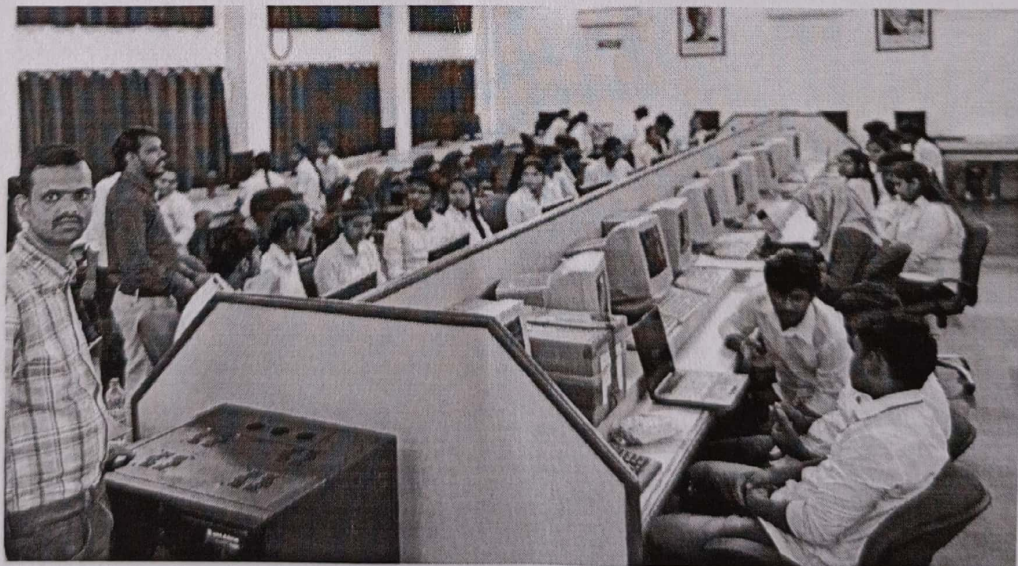
Dr. Mrs. G.S. Lathkar
Director
Dr. Mrs. G.S. Lathkar
Director
MGM'S College of Engineering
Nanded.

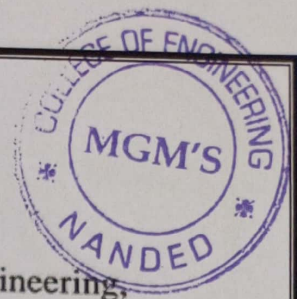
A ONE WEEK WORKSHOP ON
“Arduino and Internet of Things”

The workshop conducted by ECT department on 23 to 28th March 2023 in

MGM's College Of Engineering ,Nanded

For IT Students





Report of Workshop on Arduino and Internet of Things:-

The Department of Electronics & Telecommunication Engineering, MGM's College Of Engineering, Nanded organized "Three days Workshop on "ARDUINO" during 23/03/2023 to 28/03/2023. Arduino is an open-source electronics platform based on easy-to-use hardware and software. Arduino boards are able to read inputs - light on a sensor, a finger on a button, or a Twitter message - and turn it into an output - activating a motor, turning on an LED, publishing something online. You can tell your board what to do by sending a set of instructions to the microcontroller on the board. To do so you use the Arduino programming language (based on Wiring), and the Arduino Software (IDE), based on Processing. The IOT is about to change it all over again!" Internet of Things is a new revolution of the Internet. A world where the real, digital and the virtual are converging to create smart environments that make 23/03/2023 to 28/03/2023 and many other areas more intelligent. The Workshop is more focused on **Giving Practical Knowledge** to Students. The faculty Incharge **Prof. D.J. Tuptewar** and student co-ordinators actively participated in the event to make it a grand success.

Detail Report of Workshop:

Title: Arduino and IOT

Faculty Incharge: Prof. D.J.Tuptewar

Students Co-ordinators: Paikrao Niket, Mungal Krishna Magar Renuka, Dhanajkar Sambodhi, Gundawar Shrutika, Lokade Prerna, Janakwade Dhanashree

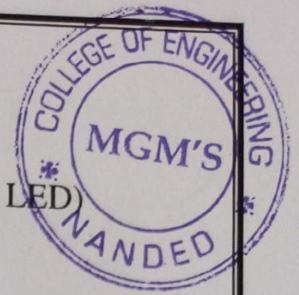
Duration: It's a Three day workshop From 23/03/2023 to 28/03/2023 In this Three-day course, student gained valuable hands-on experience.

How many students have attended this workshop: 45

Topics covered in this Workshop:

Day 1:

1. Introduction to Arduino



2. Installation of Arduino idle
3. Interfacing of LED with Arduino (blinking and dancing LED)
4. Interfacing of BUZZER Arduino
5. Interfacing of RELAY with Arduino

Day 2:

1. Interfacing of Ultrasonic with Arduino
2. Interfacing of DC Motor with Arduino
3. Interfacing of LM35 with Arduino
4. Home Automation using Bluetooth module

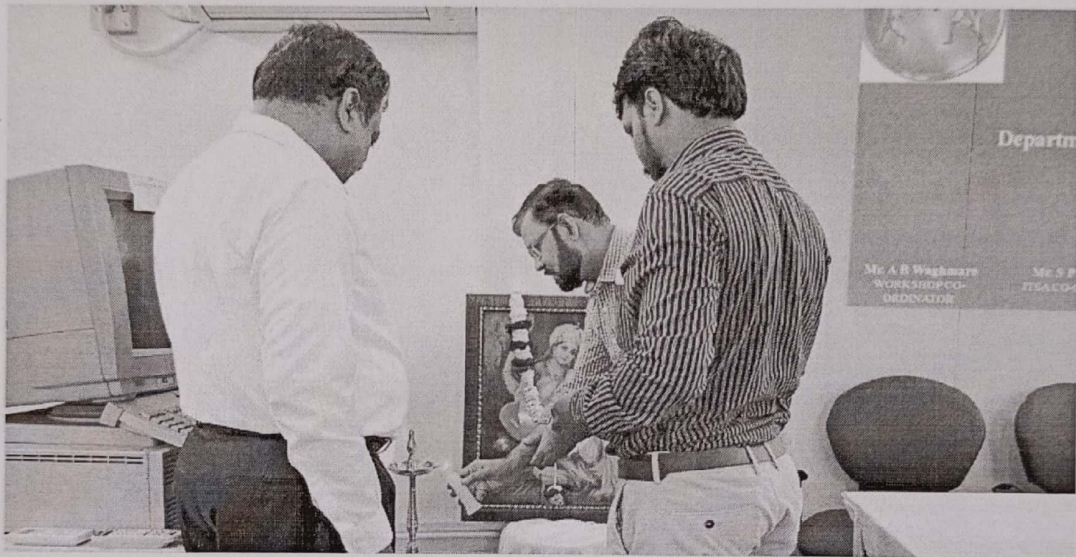
Day 3:

1. Introduction to node mcu
2. Interfaing of buzzer,relay,ultrasonic,led with node mcu
3. Project1: Wi-Fi based Home Automation
4. Project2: Wi-Fi based Robot
5. Introduction to Think Speak
6. Temperature Monitoring system with Think Speak

Outcomes of attending the workshop:

- What “the Internet of Things” means and how it relates to Cloud computing concepts
- How open platforms allow you to store your sensor data in the Cloud
- How to send data to the Internet and talk to the Cloud.
- Hand On Training
- The basic usage of the NodeMcu environment for creating your own projects at low cost.

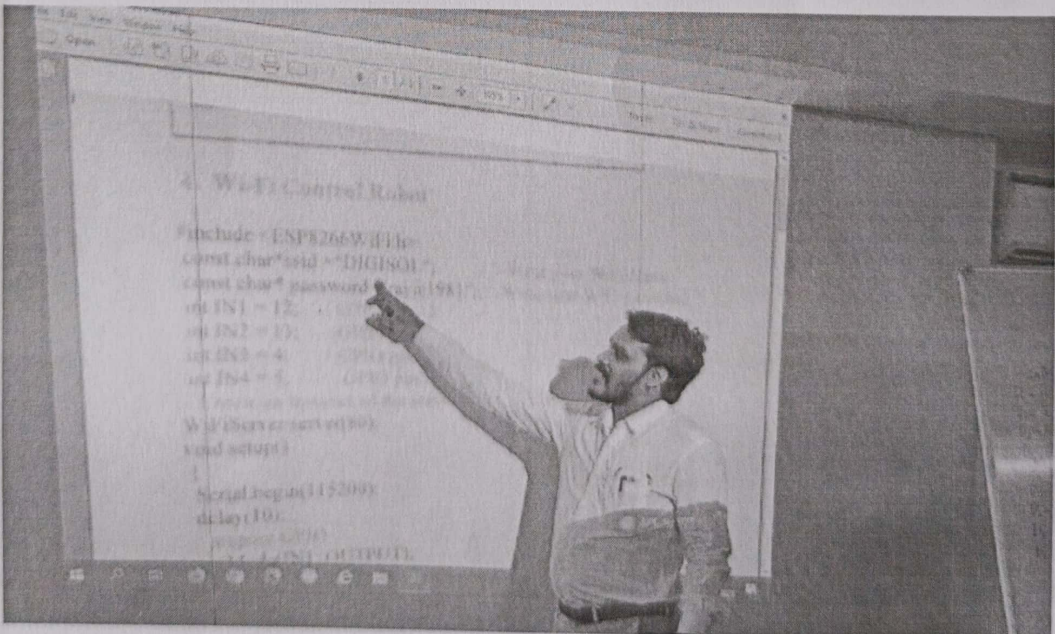
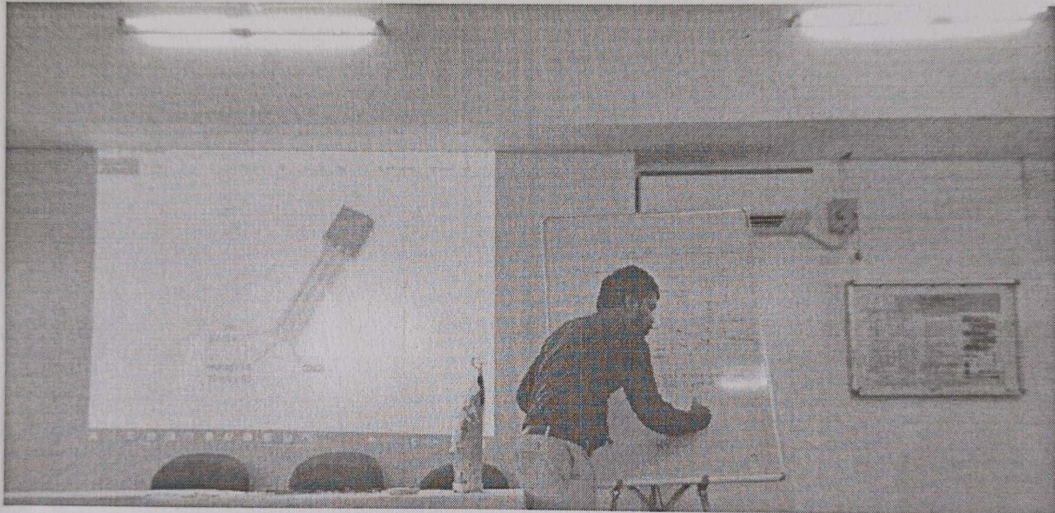
Photographs:





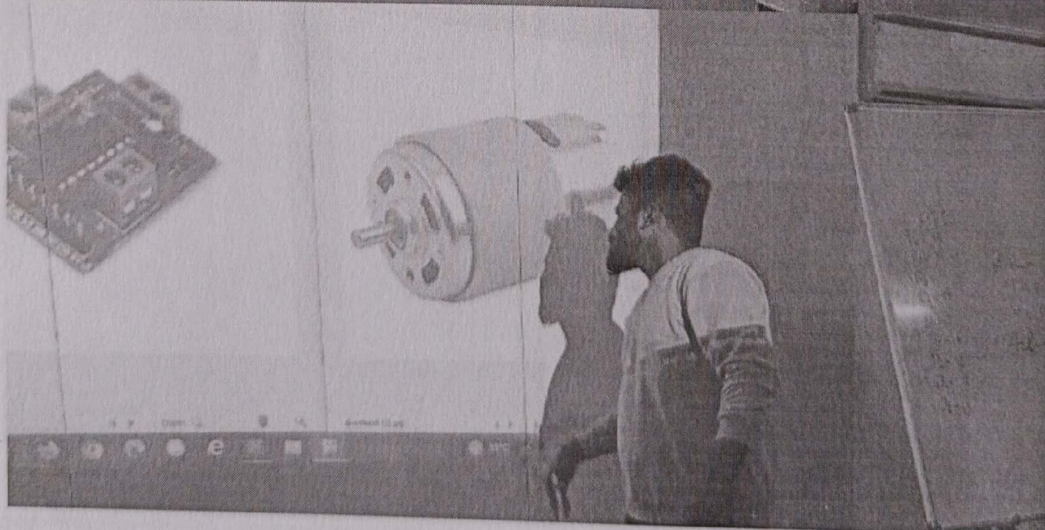
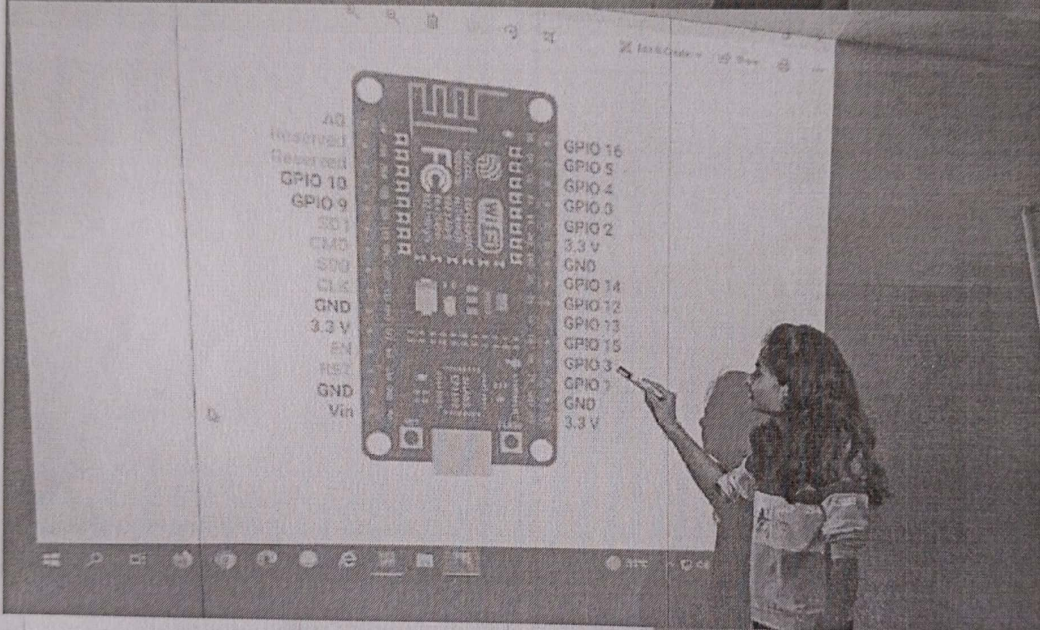
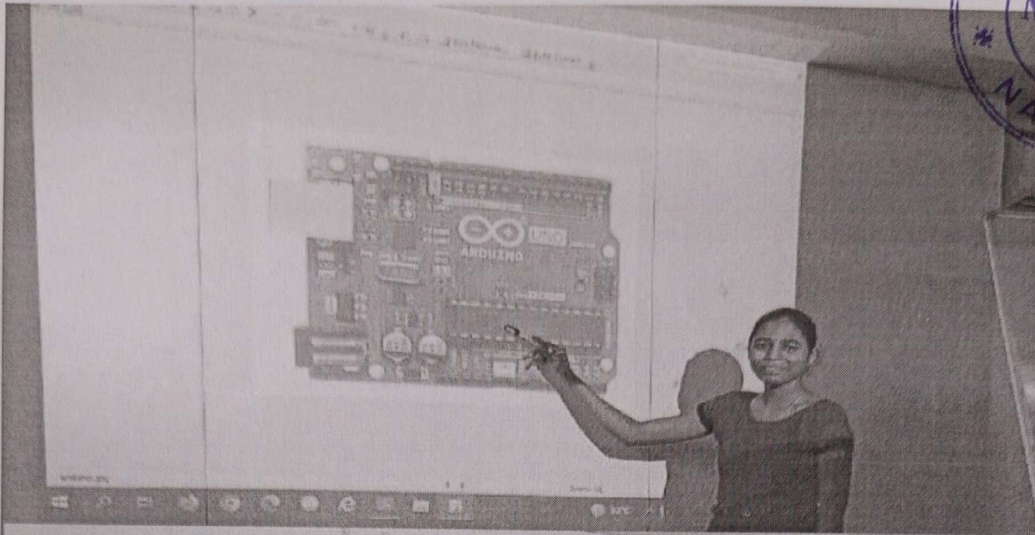
23 March 2015
Organized by
Department of Informatics
Under
ITSA
Approved by
Mr. D. S. Taple
Assistant Professor
ENITC

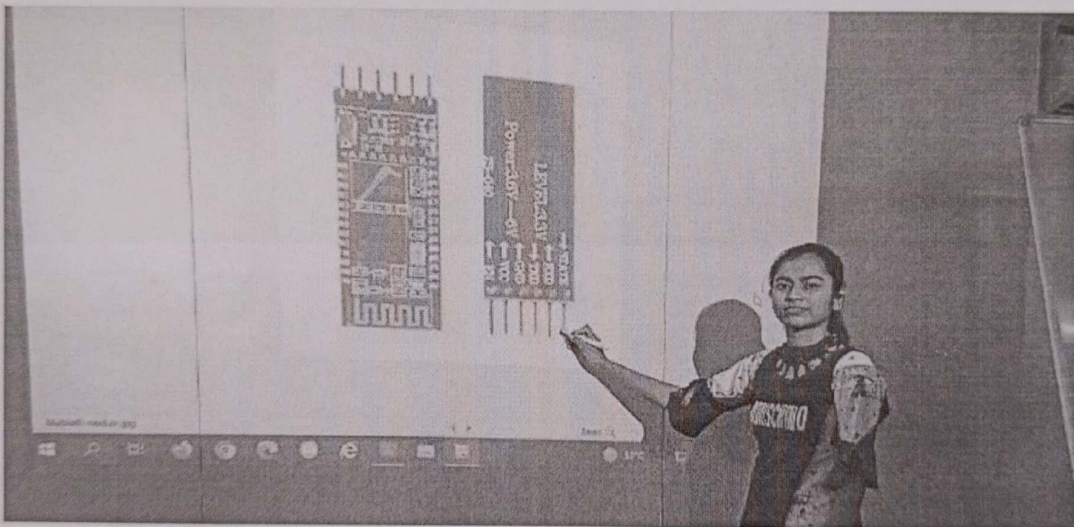
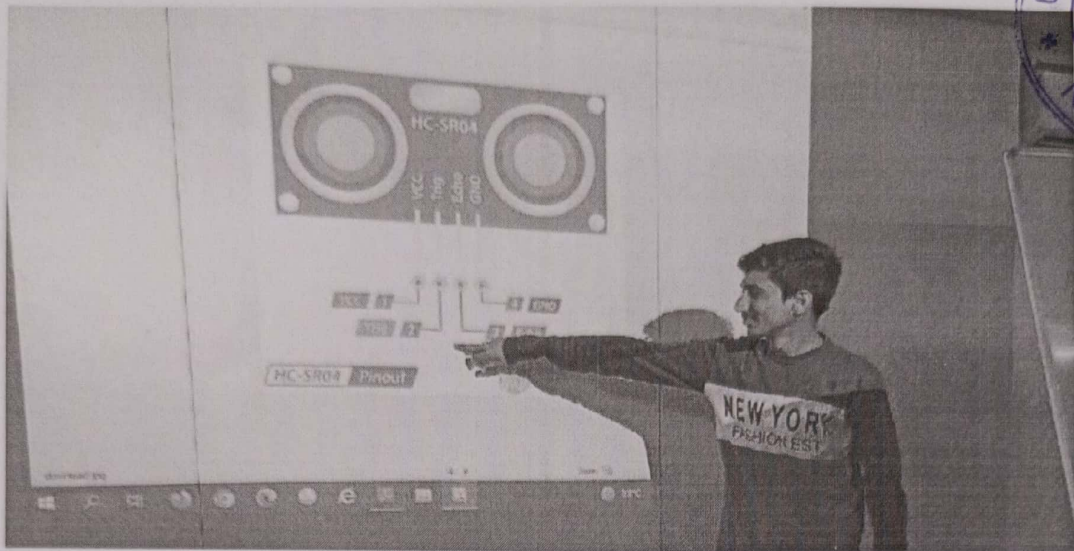
Mr. A. B. Waghmare
WORKSHOP CO-
ORDINATOR

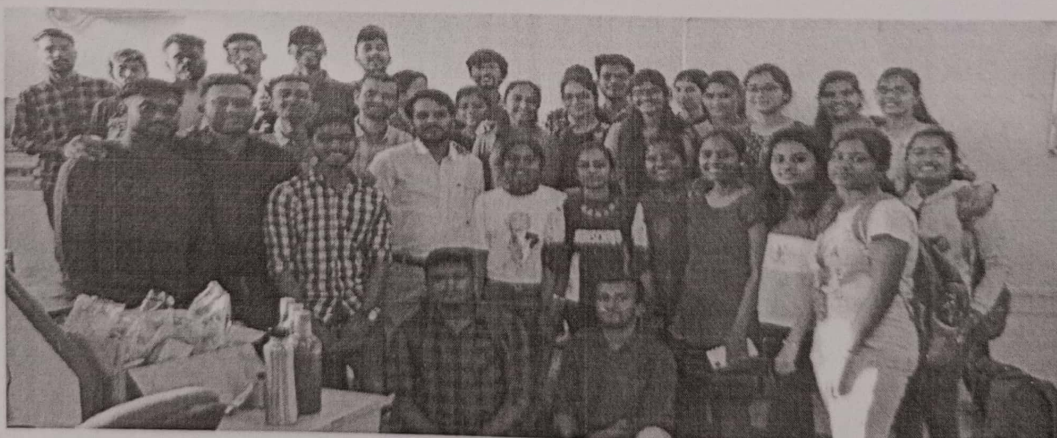
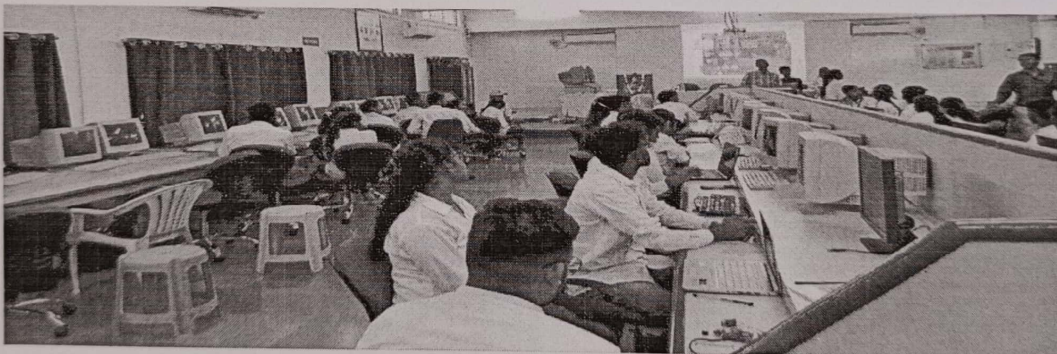
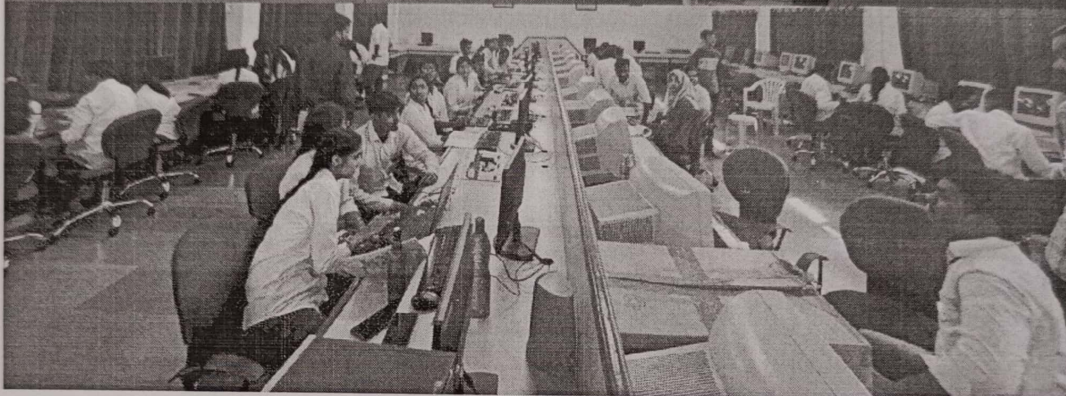
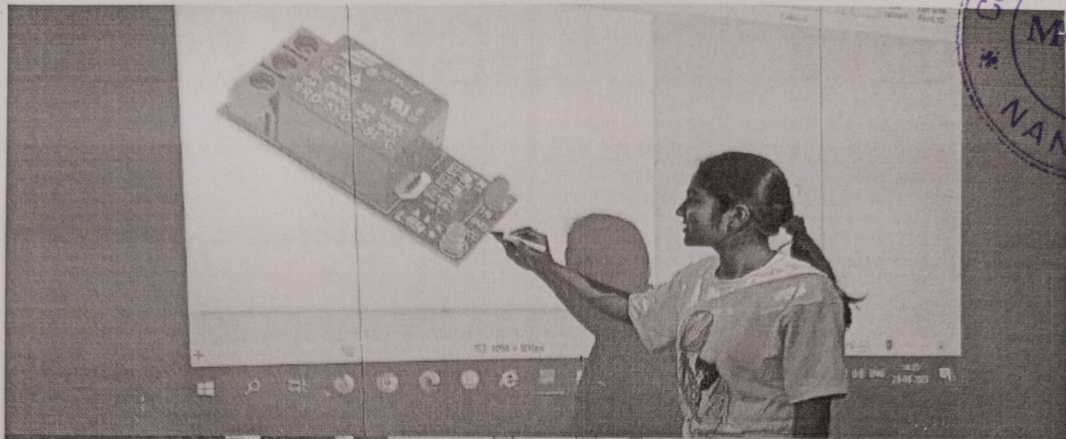


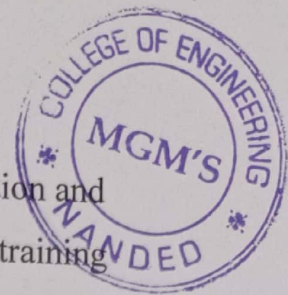
4. WiFi Control Robot

```
#include <ESP8266WiFi.h>  
const char*ssid = "DHG1801";  
const char*password = "1981";  
int IN1 = 12;  
int IN2 = 13;  
int IN3 = 4;  
int IN4 = 5;  
WiFiServer server(80);  
void setup()  
{  
  Serial.begin(115200);  
  delay(10);  
  pinMode(IN1, OUTPUT);  
}
```









DAY 4 – 7: Three Days Given The training on Arduino Board Application and NodeMCU ESP 8266 Board IOT Application after completion of this training given the Task on Different modules Covered in the Workshop.

Some of the Task Mentioned Below:

1. Wifi Controlled robot design.
2. Home automation using NodeMCU.
3. IOT based Traffic Monitoring System.
4. IOT Based Warehouse Parameter Monitoring System.

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Dr. Geeta S. Lathkar
Director
Dr. Mrs. G.S. Lathkar
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