

A Brief report on

A Two-day Workshop on

“Internet of Things (IoT) using ARDUINO Tools and Techniques”

Held during 6th & 7th Jan, 2023

Organized by

Department of Electrical and Electronics Engineering

In association with Pantech e Learning Pvt. Ltd.

Methodist College of Engineering and Technology

Abids, Hyderabad



METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY, HYDERABAD.

(AUTONOMOUS)

Approved by AICTE, New Delhi & Affiliated to Osmania University
King Koti Road, Abids, Hyderabad - 500 001, T.S.



A Two-Day Workshop on “Internet of Things (IoT) using ARDUINO Tools and Techniques”

Date: 06-01-2023 & 07-01-2023

Organized by :

**Department of Electrical and Electronics Engineering
in Association with Pantech E-Learning Pvt. Ltd.**



Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

Venue: C-210, MCET

Faculty Coordinators

Mr. P. Rajinikanth
Mrs. A. Archana

HOD

Mrs. Y. Mastanamma

Principal

Dr. Prabhu G Benakop

About the workshop:

As we know “The Internet of Things (IoT) is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

This Workshop is aimed to explore the potential areas and the significance in the fields of Internet of Things(IOT).

Venue:

6th & 7th Jan, 2023.

C-210, C – Block

Department of EEE,

Methodist College of Engineering and Technology.

Resource Person:

Mr. Swamy is employed with **Pantech e Learning** as a subject expert. His working areas include IoT applications; He has trained over more than 1000+ students and faculties across various universities and colleges in AP & TS.

The main topics covered in the workshop are given below:

- Different types of Arduino board such as Arduino Uno, Arduino Uno R3 SMD, • Ardino Pro 3.348 MHz , Arduino mini , Aurdino Ethernet and there characteristics (Power supply, clock speed, Digital I/O, Analog Input, PWM modulation and different kinds of interfacing.
- Wi-Fi module Programming with Arduino.
- Interfacing of sensors and uploading data on cloud.
- For Interfacing different types of sensors with Arduino and Arduino with database, different programming steps have been discussed (function , statement ,control statement levels variables, math, pin mode, serial mode, digital mode variable, delay and for loop)
- Interfacing and controlling various devices like LED, motors, sensors etc with Arduino.
- ✓ **Total 70 students participated in the workshop.**

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
- The basic usage of the Arduino environment for creating your own embedded projects at low cost
- How to connect your Arduino with your Android phone.
- How to send data to the Internet and talk to the Cloud.

At valedictory ceremony, the participants were awarded the certificates and provided with the kit to continue their journey with IoT. Also competitive hands-on problem has been given to the students and students actively participated.

Submitted by:

P. Rajini Kanth (Coordinator)

Asst. Professor, Dept. of EEE

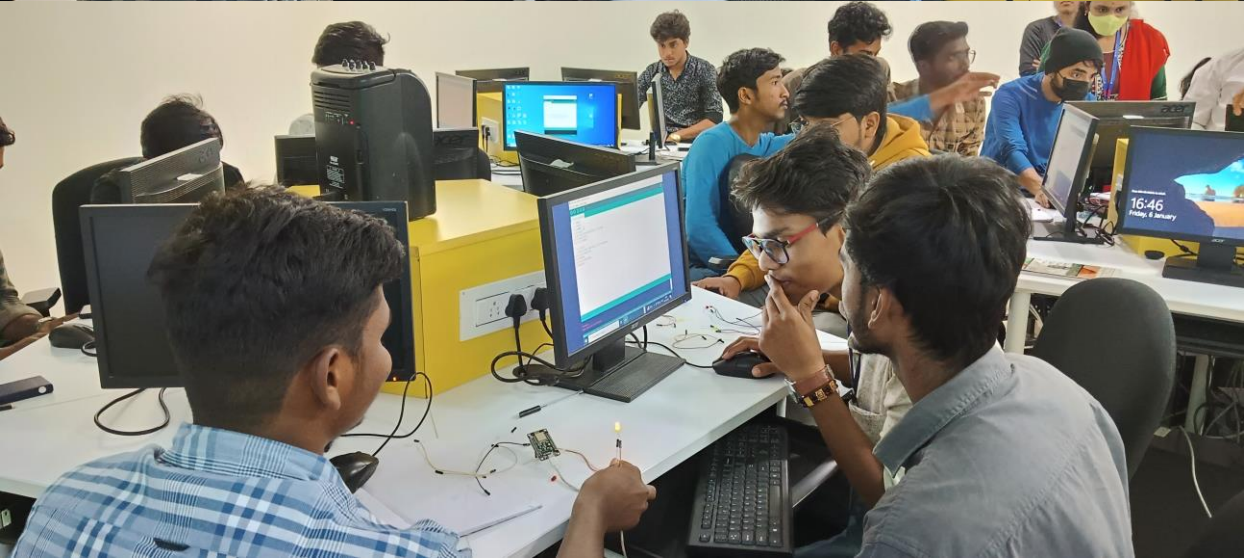
Archana A. (Coordinator)

Asst. Professor, Dept. of EEE

Workshop Photos









To
 The Principal
 Methodist College of Engineering and Technology
 Abids, Hyderabad.

Date: 04-01-2023
 Hyderabad

Sub: Request to grant permission to conduct a Two-Day workshop and sanction the budget -Reg.

Sir,

We, Rajinikanth P, A. Archana, Assistant Professors, Dept. of EEE and Coordinators for workshop, request you to give permission for conducting Two Day Workshop on " Internet of Things (IOT) using ARDUINO Tools and Techniques" in association with Pantech E- Learning Pvt. Ltd., on 06-01-2023 & 07-01-2023 for VII and V semester EEE students.

Schedule of the workshop is as follows:

| S. No | Date and Time | Topic | Venue |
|-------|--------------------------------|-------------------|-------------|
| 1 | 06-01-2023 , 09:45AM – 04:15PM | Explanation | C-211, MCET |
| 2 | 07-01-2023, 09:45AM – 04:15PM | Hands-on Training | B-104, MCET |

*Short break: 11:15AM-11:30AM

Lunch Break: 12:30PM-01:15PM

Details of the amount required for the workshop is given below:

| S. No | Items | Amount (in Rupees) |
|-------|---|-------------------------------------|
| 1 | Refreshments to 70 students | 2*70*30 = 4200 |
| 2 | Resource persons & Coordinators (4) (refreshments + Lunch) | 2*4*30 + 2*4*160= 180+960 = 1520 |
| 3 | Banner | Will be taken from college printers |
| Total | | Rs 5720/- |

Kindly grant the above mentioned amount towards refreshments as advance in the name of workshop coordinator Rajinikanth P, Assistant professor, EEE Department.

Thanking you.

(Signature)
 Rajinikanth P, A. Archana
 Assistant Professors,
 Dept. of EEE.

Submitted to Principal sir for approval.
(Signature)
 04/01/2023
 (HOD-EEE)

*As/Asst
 P/S pay Rs. 5720/- as advance
 to HOD EEE - as advance*



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 05-01-2023

Circular

All the V and VII semester EEE students are hereby informed that the department is conducting a Two-Day workshop titled “ Internet of Things (IOT) using ARDUINO Tools and Techniques” " in association with Pantech E- Learning., Hyderabad on **06-01-2023 & 07-01-2023**. All the registered students should participate in the workshop. The participants will be issued certificate.

The schedule of the workshop is as follows:

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|-------|--------------------------------|-------------------|-------------|
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Short break: 11:15AM-11:30AM

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I/C Workshops

P. Rajinikanth & A. Archana

Asst. Profs in EEE

HOD, EEE

Y. Mastafamma
Head of Department
Department of EEE
Methodist College of Engg & Tech.
Abids, Hyderabad-500 001.

Circulate to all concerned staff and students



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A Two-Day Workshop on “Internet of Things (IoT) using ARDUINO Tools and Techniques”

Date: 06-01-2023 & 07-01-2023

Organized by :

Department of Electrical and Electronics Engineering
in Association with Pantech E-Learning Pvt. Ltd.



Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

Venue: C-210, MCET

Faculty Coordinators
Mr. P. Rajinikanth
Mrs. A. Archana

HOD
Mrs. Y. Mastanamma

Principal
Dr. Prabhu G Benakop



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Department of Electrical and Electronics Engineering Workshop on Internet of Things (IoT) using ARDUINO Tools and Techniques

Certificate of Participation

This is to certify that Ms/Mr. C. Lokeshwar, Roll Number: 160720734320 of Electrical and Electronics Engineering department has successfully completed a Two-Day workshop titled "Internet of Things (IoT) using ARDUINO Tools and Techniques" on 6th & 7th January 2023, organised by department of Electrical and Electronics Engineering in association with Pantech e Learning Pvt Ltd. at Methodist College of Engineering and Technology, Hyderabad.

Srinivasan .N
Pantech e Learning Pvt Ltd
CEO

P. Rajini Kanth
Coordinator

A. Archana
Coordinator

Y. Mastanamma
HOD-EEE

Principal
Methodist College of Engg. & Tech.
Abids, Hyderabad-500001



mention sir

12:00 pm

K sir 12:04 pm ✓✓

26 December 2022

Good morning sir 10:04 am

I sent the mail sir 10:05 am

27 December 2022

Good afternoon sir 1:21 pm

Tomorrow i will call you sir 8:21 pm

Now I am in traveling 8:22 pm

Sir due to some internal reasons we decided to postpone the workshop. Please give the dates in January first week.

Sorry for the inconvenience. 9:49 pm ✓✓

Ok sir 9:57 pm

Tomorrow i will call you sir 9:57 pm

2 January 2023

Good morning sir 10:07 am

Thursday



Message





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“Internet of Things (IoT) using ARDUINO Tools and Techniques”

Date: 06-01-2023 & 07-01-2023

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Venue: C-210, MCET

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Mrs. A. Archana

HOD

Mrs. Y. Mastanamma

Principal

Dr. Prabhu G Benakop



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Department of Electrical and Electronics Engineering
Workshop on
Internet of Things (IoT) using ARDUINO Tools and Techniques

Certificate of Participation

This is to certify that Ms/Mr. _____, Roll Number: _____ of Electrical and Electronics Engineering department has successfully completed a Two-Day workshop titled "**Internet of Things (IoT) using ARDUINO Tools and Techniques**" on 6th & 7th January 2023, organised by department of **Electrical and Electronics Engineering** in association with **Pantech e Learning Pvt Ltd.** at **Methodist College of Engineering and Technology, Hyderabad.**

Srinivasan .N
Pantech e Learning Pvt Ltd
CEO

P. Rajini Kanth
Coordinator

A. Archana
Coordinator

Y. Mastanamma
HOD-EEE

Dr. Prabhu G Benakop
Principal



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Department of Electrical and Electronics Engineering

Resource person feedback form

1. How well are you satisfied with our student's response?
a. Excellent b. Good c. Satisfactory d. Poor
2. How well are you satisfied with the facilities provided?
a. Excellent b. Good c. Satisfactory d. Poor
3. How do you rate your experience with our students?
a. Excellent b. Good c. Satisfactory d. Poor
4. How well are you satisfied in conducting workshop with our department?
a. Excellent b. Good c. Satisfactory d. Poor
5. Any other suggestion for the improvement of workshop in future.

lab facility is very nice,

S. Chit
Signature

07.01.2023



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Department of Electrical and Electronics Engineering

Internet of Things (IoT) using ARDUINO Tools and Techniques

06/01/23


VII Semester Attendance Sheet

| S. No. | Roll Number | Signature |
|--------|--------------|-------------------|
| 1 | 160718734018 | <u>Juragan.</u> |
| 2 | 160718734030 | B. Uday Kiran |
| 3 | 160718734033 | |
| 4 | 160718734034 | Atthes |
| 5 | 160718734042 | Atthes |
| 6 | 160718734044 | Atthes |
| 7 | 160719734001 | |
| 8 | 160719734002 | |
| 9 | 160719734003 | Atthes |
| 10 | 160719734004 | Atthes |
| 11 | 160719734005 | Atthes |
| 12 | 160719734006 | Atthes |
| 13 | 160719734007 | |
| 14 | 160719734008 | Saikiran |
| 15 | 160719734009 | P. Pujitha |
| 16 | 160719734010 | |
| 17 | 160719734011 | K. Divya |
| 18 | 160719734012 | |
| 19 | 160719734013 | Atthes |
| 20 | 160719734014 | Samyuktha V. |
| 21 | 160719734015 | Atthes |
| 22 | 160719734016 | T. Chetan |
| 23 | 160719734017 | Atthes |
| 24 | 160719734018 | A. Yashwanth |
| 25 | 160719734019 | S. Sai Charan |
| 26 | 160719734020 | |
| 27 | 160719734021 | N. Rakul Reddy |
| 28 | 160719734022 | |
| 29 | 160719734023 | Atthes |
| 30 | 160719734024 | Atthes |
| 31 | 160719734025 | |
| 32 | 160719734026 | Atthes |
| 33 | 160719734028 | |

06/01/23

| | | |
|----|--------------|--------------------|
| 34 | 160719734029 | |
| 35 | 160719734030 | |
| 36 | 160719734301 | |
| 37 | 160719734302 | K. Ashok |
| 38 | 160719734303 | |
| 39 | 160719734304 | |
| 40 | 160719734305 | Jameel |
| 41 | 160719734306 | R Sai Baidavan |
| 42 | 160719734307 | P. Nish. |
| 43 | 160719734308 | |
| 44 | 160719734309 | Mu |
| 45 | 160719734310 | Rajender |
| 46 | 160719734311 | in Amara |
| 47 | 160719734312 | |
| 48 | 160719734313 | Hymavathi |
| 49 | 160719734314 | |
| 50 | 160719734315 | M. Anil Gouf. |
| 51 | 160719734316 | Ch. Shireeni |
| 52 | 160719734317 | D. Vijay |
| 53 | 160719734318 | Shikhezen & Fatima |
| 54 | 160719734319 | |
| 55 | 160719734320 | |
| 56 | 160719734321 | |
| 57 | 160719734322 | Shivani |


Co-ordinator


HOD, FEE
Head of Department
Department of FEE
Methodist College of Engg & Tech.
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Department of Electrical and Electronics Engineering

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06/01/2023

V Semester Attendance Sheet

| S. No. | Roll Number | Signature |
|--------|--------------|-----------------------|
| 1 | 160720734001 | |
| 2 | 160720734002 | |
| 3 | 160720734003 | B. Sundeer |
| 4 | 160720734004 | G. Sumanth Kumar |
| 5 | 160720734005 | |
| 6 | 160720734006 | |
| 7 | 160720734007 | Nisarath Kumar & Khan |
| 8 | 160720734008 | |
| 9 | 160720734009 | Babu |
| 10 | 160720734011 | |
| 11 | 160720734012 | |
| 12 | 160720734013 | |
| 13 | 160720734014 | |
| 14 | 160720734015 | |
| 15 | 160720734301 | A. Sundeer |
| 16 | 160720734302 | K. Sumanth |
| 17 | 160720734303 | |
| 18 | 160720734304 | |
| 19 | 160720734305 | K. Sai Mani Deep |
| 20 | 160720734306 | Y. Nithin |
| 21 | 160720734307 | Abdul Mohes |
| 22 | 160720734308 | |
| 23 | 160720734309 | S. Ashwathi |
| 24 | 160720734310 | |
| 25 | 160720734311 | Nithin |
| 26 | 160720734312 | |
| 27 | 160720734313 | Ch. Virendra |
| 28 | 160720734314 | |
| 29 | 160720734315 | K. Nandhakumar Reddy |
| 30 | 160720734316 | |
| 31 | 160720734317 | M. Harish |
| 32 | 160720734318 | Kiran. |
| 33 | 160720734319 | |
| 34 | 160720734320 | |
| 35 | 160720734322 | |

6/1/23
Co-ordinator

HOD, EEE
Department of EEE

Methodist College of Engg & Tech.
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Department of Electrical and Electronics Engineering

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DE : 7/1/2023

VII Semester Attendance Sheet

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|--------|--------------|-----------|
| 1 | 160718734018 | |
| 2 | 160718734030 | |
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| 6 | 160718734044 | |
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| 9 | 160719734003 | |
| 10 | 160719734004 | |
| 11 | 160719734005 | |
| 12 | 160719734006 | |
| 13 | 160719734007 | |
| 14 | 160719734008 | |
| 15 | 160719734009 | |
| 16 | 160719734010 | |
| 17 | 160719734011 | |
| 18 | 160719734012 | |
| 19 | 160719734013 | |
| 20 | 160719734014 | |
| 21 | 160719734015 | |
| 22 | 160719734016 | |
| 23 | 160719734017 | |
| 24 | 160719734018 | |
| 25 | 160719734019 | |
| 26 | 160719734020 | |
| 27 | 160719734021 | |
| 28 | 160719734022 | |
| 29 | 160719734023 | |
| 30 | 160719734024 | |
| 31 | 160719734025 | |
| 32 | 160719734026 | |
| 33 | 160719734028 | |

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| 44 | 160719734309 | Mu. |
| 45 | 160719734310 | |
| 46 | 160719734311 | |
| 47 | 160719734312 | Abbas |
| 48 | 160719734313 | Amir |
| 49 | 160719734314 | |
| 50 | 160719734315 | |
| 51 | 160719734316 | |
| 52 | 160719734317 | |
| 53 | 160719734318 | |
| 54 | 160719734319 | |
| 55 | 160719734320 | |
| 56 | 160719734321 | |
| 57 | 160719734322 | |


 21/1/23
 Co-ordinator


 HOD EEE
 Head of Department
 Department of EEE
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dt: 7/1/2023.

| S. No. | Roll Number | Signature |
|--------|--------------|------------------------|
| 1 | 160720734001 | |
| 2 | 160720734002 | |
| 3 | 160720734003 | B. Sunder |
| 4 | 160720734004 | G. Samanta |
| 5 | 160720734005 | |
| 6 | 160720734006 | |
| 7 | 160720734007 | Nisan Ahmed |
| 8 | 160720734008 | |
| 9 | 160720734009 | Boya |
| 10 | 160720734011 | |
| 11 | 160720734012 | |
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| 21 | 160720734307 | Abdul Mohaf |
| 22 | 160720734308 | Vibhav |
| 23 | 160720734309 | Ashwini |
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| 25 | 160720734311 | |
| 26 | 160720734312 | Nadene |
| 27 | 160720734313 | Ch. Vikram |
| 28 | 160720734314 | |
| 29 | 160720734315 | K. Nandha Kumar Reddy. |
| 30 | 160720734316 | Pranav |
| 31 | 160720734317 | M. Harinath |
| 32 | 160720734318 | B. Kiran |
| 33 | 160720734319 | |
| 34 | 160720734320 | |
| 35 | 160720734322 | |

2/1/23
Co-ordinator

HOD of EEE
Department of EEE

Methodist College of Engg & Tech.
Abids, Hyderabad-500 001.

| Timestamp | Name of Student | Semester | How do you rate | How do you rate | How do you rate | How well are you | Any other suggestions for improving the workshop. Keep computer labs more |
|-----------------------|-------------------------------|----------|------------------|-----------------|-----------------|------------------|---|
| 2023/01/07 4:26:44 PM | Gl MOHAMMED ATHER HUSSAIN | VII | Excellent | Excellent | Excellent | Excellent | |
| 2023/01/07 4:26:56 PM | Gl Syed faisal | V | Good | Good | Good | Good | |
| 2023/01/07 4:26:56 PM | Gl Mohd Shehbaz Khan | VII | Excellent | Excellent | Good | Excellent | Still they need to get good components some of the components where not working |
| 2023/01/07 4:27:04 PM | Gl Hymavathi | VII | Good | Satisfactory | Good | Satisfactory | Good |
| 2023/01/07 4:27:11 PM | Gl G SAMPATH | VII | Excellent | Excellent | Excellent | Excellent | Nothing |
| 2023/01/07 4:27:16 PM | Gl Mohammed Furqaan | VII | Excellent | Good | Excellent | Excellent | It was a good experience so no other suggestions. |
| 2023/01/07 4:27:49 PM | Gl Nerella Rakesh | VII | Excellent | Excellent | Good | Good | No |
| 2023/01/07 4:27:57 PM | Gl Tandle chetan | VII | Good | Good | Good | Good | It was good |
| 2023/01/07 4:28:09 PM | Gl Saki Saicharan | VII | Good | Good | Good | Excellent | No, good |
| 2023/01/07 4:28:14 PM | Gl Mohammed Jameeluddin | VII | Good | Good | Good | Good | |
| 2023/01/07 4:28:16 PM | Gl K.Devika | VII | Good | Satisfactory | Good | Excellent | Ntg |
| 2023/01/07 4:28:16 PM | Gl V sri samyuktha | VII | Good | Good | Satisfactory | Excellent | no thank you |
| 2023/01/07 4:28:20 PM | Gl Abdul Mateen | VII | Excellent | Good | Good | Good | They need to more informative regarding products and accurate. Rest all good!! |
| 2023/01/07 4:28:23 PM | Gl G.sampath | VII | Satisfactory | Poor | Poor | Excellent | Total improve |
| 2023/01/07 4:28:35 PM | Gl Vamshi Kumar Reddy Kantham | VII | Satisfactory | Satisfactory | Satisfactory | Satisfactory | Ok |
| 2023/01/07 4:28:46 PM | Gl Mohammed Mohsin Bajaber | VII | Good | Good | Good | Good | It can be improved more. |
| 2023/01/07 4:28:49 PM | Gl R.Bose Babu | V | Good | Good | Good | Good | Better big equipments required |
| 2023/01/07 4:28:50 PM | Gl Sunder | V | Good;Satisfactor | Good | Good | Good | Keep for more than 2 days |
| 2023/01/07 4:29:04 PM | Gl Kiran | V | Poor | Satisfactory | Excellent | Satisfactory | Please change the ambience of the workshop. |
| 2023/01/07 4:29:11 PM | Gl Tanvi H Nerlekar | VII | Excellent;Good | Good | Excellent | Good | Overall good session and hope many other useful workshops will be conducted |
| 2023/01/07 4:29:20 PM | Gl Affan Yaseen | VII | Excellent | Excellent | Excellent | Excellent | 2persons per system to be assigned for more convenience and better output. The |
| 2023/01/07 4:29:25 PM | Gl MAGI SOWJANYA | VII | Good | Satisfactory | Satisfactory | Good | Improving teaching skills |

| | | | | | | | |
|-----------------------|--------------------------------|-------|------------------|------------------|------------------|------------------|--|
| 2023/01/07 4:29:36 PM | Gl A.Yashwanth | VII | Good | Good | Good | Excellent | Need to improve no of systems |
| 2023/01/07 4:29:49 PM | Gl Mukkera Sai kiran yadav | VII | Excellent | Excellent | Excellent | Excellent | Workshop projects should be advance level |
| 2023/01/07 4:29:59 PM | Gl Mohammed Abrar Ahmed | VII;V | Good | Satisfactory | Satisfactory | Satisfactory | The in hand training is good but some technical issues |
| 2023/01/07 4:30:03 PM | Gl Ch vishal | V | Excellent | Excellent | Excellent | Excellent | No suggestion. Everything is good |
| 2023/01/07 4:30:19 PM | Gl A. George Muller | V | Good | Excellent | Good | Excellent | Everything was good, a bit more interactive and outdoor experience would've been |
| 2023/01/07 4:30:31 PM | Gl Y Nithin | V | Excellent | Excellent;Good | Good | Good | Time managing |
| 2023/01/07 4:31:05 PM | Gl Nitin sai chandra | VII | Satisfactory | Good | Good | Good | - |
| 2023/01/07 4:31:12 PM | Gl Mohammed Muzakkir Mohiuddin | VII | Satisfactory | Good | Good | Satisfactory | Apparatus should be improved, the information provided should improve. |
| 2023/01/07 5:09:06 PM | Gl KOSGI SAI MANI DEEP | V | Good | Good | Good | Good | Low cost |
| 2023/01/07 5:17:06 PM | Gl Vaibhav murali | V | Good | Good | Good | Good | Yes |
| 2023/01/07 6:10:15 PM | Gl G.Sumanth Kumar | V | Excellent;Good;S | Excellent;Good;S | Excellent;Good;S | Excellent;Good;S | It would be better for having more than 2 days,to learn more in detail in workshop |
| 2023/01/07 9:20:35 PM | Gl R SAI BRINDAVAN | VII | Satisfactory | Poor | Satisfactory | Satisfactory | No. |