

Acharya Institute of Technology

Department of ECE



Summer School - "Embedded systems and IoT "

Registration Form

Date : 14/03/2023 to 21/03/2023 and 24/03/2023 to 25/03/2023

Sl.No.	Email Address	Name	USN	Mobile Number
1	boleb.20.beec@acharya.ac.in	Bole Swetha	1AY20EC015	8310613967
2	brajbhushan.20.beec@acharya.ac.in	Brajbhushan sharma	1AY20EC016	6361931483
3	chandnir.20.beec@acharya.ac.in	Chandani Kumari	1AY20EC018	9611983769
4	dilipb.20.beec@acharya.ac.in	Dilip Kumar B	1AY20EC026	6362501501
5	divyar.20.beec@acharya.ac.in	Divya Dharshini R	1AY20EC027	7338035123
6	manasam.20.beec@acharya.ac.in	Manasa B	1AY20EC043	9905365587
7	prathiks.20.beec@acharya.ac.in	Prathik Reddy	1AY20EC066	8792285951
8	ritiks.20.beec@acharya.ac.in	Ritik Raj	1AY20EC071	8431518896
9	shwet.20.beec@acharya.ac.in	Shweta Patil	1AY20EC082	9632285560
10	surajd.20.beec@acharya.ac.in	Suraj singh	1AY20EC087	6200176205
11	harshithar.21.beec@acharya.ac.in	Harshitha B R	1AY21EC411	8971500265
12	chandrayappagari.20.beec@acharya.ac.in	CHANDRAYAPPAGARI SAI TEJA REDDY	1AY20EC019	9182123393
13	atula.20.beec@acharya.ac.in	ATUL KHUNTIA	1AY20EC009	8618324057

Resource Person Names

1	sandeepkumark@acharya.ac.in	Sandeep Kumar K
2	pranitanirajpalsapure@acharya.ac.in	Pranita Niraj Palsapure
3	raghunath@acharya.ac.in	Raghunath B H
4	mohan@acharya.ac.in	Mohan N
5	suma2352@acharya.ac.in	Suma C
6	trupti2534@acharya.ac.in	Kumbhar Trupti Ravikumar
7	sumangala2520@acharya.ac.in	Sumangala
8	shadakshari2501@acharya.ac.in	Shadakshari

	Co-Ordinators	
1	mohan@acharya.ac.in	Mohan N
2	suma2352@acharya.ac.in	Suma C
3	trupti2534@acharya.ac.in	Kumbhar Trupti Ravikumar

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Soldevanahalli Bangalore-560 107

HEAD OF THE DEPARTMENT
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Acharya Dr. Sarvepalli Radhakrishnan Road, Bangalore-560 107
DEPARTMENT OF ELECTRONICS AND COMMUNICATION

Report of

Summer School

On

"Embedded Systems and IOT"

Conducted by:

Department of Electronics and Communication Engineering

Acharya Institute of Technology

Acharya Dr. Sarvepalli Radhakrishnan Road, Bengaluru -560 107



14th to 25th Mar, 2023

Venue: DSP Lab, ECE Department

M. Srinivas

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION

The Department of Electronics and Communication Engineering, Acharya Institute of Technology had organized a Summer School on "Embedded Systems and IOT" for first year ECE students.

About the Summer School

The workshop aimed at introducing the basic tools and technologies of embedded system, so as to cultivate among the students an interest in the area of embedded systems and IOT

The Session on the Internship began with Labview by Prof.Raghunath B H, Prof.Mohan N and Prof.Sumangala S J from 14th Mar 2023 to 15th Mar 2023. The Internship proceeded with the demonstration of Labview programming basic and building virtual instruments for various applications.

Introduction to Raspberry Pi3 was given followed by Installation of Raspbian operating system using ETCHER,basic python programming.Students were made familiar about various GPIO modes and programming to Interface various sensors and actuators to Raspberry Pi handled by Mr. Sandeep Kumar K, Mr.Shadakshari from 17th Mar 2023 to 18th Mar 2023.

Tinkercad tool with Arduino Uno sessions for interfacing various sensors and actuators to build embedded systems and small projects related to the same is handled by Mrs. Suma C and Mrs.Trupiti on 20th Mar 2023.

Introduction to Node MCU was given followed by installation of libraries required for Arduino IDE compatibility and programming to Interface various sensors and actuators to Node MCU is handled by Mrs. Pranita N Palsapure and Mr.Sandeep Kumar K on 21st Mar 2023.

Images were captured using IP webcam application connected to Raspberry PI via WIFI network, These images were processed using OpenCV library on Raspberry PI. Also cloud platforms like Thingspeak, firebase were introduced to send Images and data to cloud. This session is conducted by Mr. Sandeep Kumar K on 23rd Mar 2023.

Problem statements related to Embedded system and IOT were assigned to students.Students worked on these problem statements under the supervision of mentors on 24th Mar and students presented on the same followed by demonstration on 25th Mar 2023.

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Highlights of the Summer School

- Interface I/O devices with NodeMCU, RaspberryPi in developing Embedded System Applications.
- Enhanced learning of embedded system applications through simulation using TinkerCad, Labview and Python programming.
- Team building and Communication skills through project-based learning and presentations.

Outcome of the program:

- Hands on exposure on embedded system and IoT
- Apply intermediate and advance practices in Python, TinkerCad, NodeMCU and Raspberry-Pi
- To relate use of embedded system and IOT to given problem
- To interface input output devices with NodeMCU and RaspberryPi

Resource Persons:

1. Mr. Sandeep Kumar K Asst. Prof, Dept. of ECE, AIT
2. Mr. Raghunath B H Asst. Prof, Dept. of ECE, AIT
3. Mrs. Pranita Niraj Palsapure Asst. Prof, Dept. of ECE, AIT
4. Mr. Mohan N Asst. Prof, Dept. of ECE, AIT
5. Mrs. Suma C Asst. Prof, Dept. of ECE, AIT
6. Mrs. Kumbhar Trupti Asst. Prof, Dept. of ECE, AIT
7. Mr. Shadakshari Asst. Prof, Dept. of ECE, AIT
8. Mrs. Sumangala S J Asst. Prof, Dept. of ECE, AIT

Convener:

Dr. Rajeswari , Prof and Head, Dept. of ECE , AIT

Coordinators:

1. Mr. Mohan N, Asst. Prof., Mob.: 9008727782, mohan@acharya.ac.in
2. Mrs. Suma C, Asst. Prof., Mob.: 9739561456, suma2352@acharya.ac.in
3. Mrs. Kumbhar Trupti, Asst. Prof., Mob.: 9036393116, trupti2534@acharya.ac.in

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Quiz conducted at the end of every session using kahoot platform and all the responses are recorded for evaluation. A sample summary of quiz is shown below.

Objectives of the Summer School

- ❖ Gain Hands on experience on python, Tinker cad , NodeMCU , raspberry
- ❖ Interactive learning with embedded systems and IOT
- ❖ To instill the lifelong values of teamwork and individual responsibility

RegistrationLink/Form:<https://forms.gle/nERBJArmL1enfuGT>

M. Anurag

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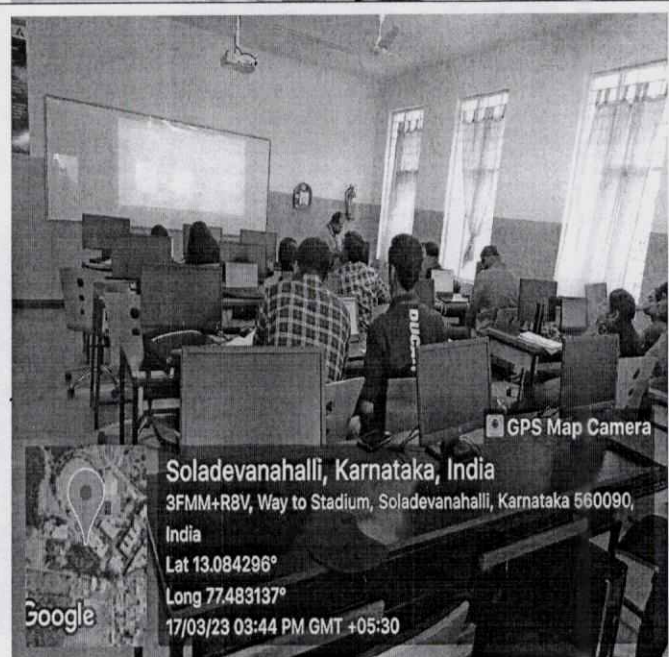
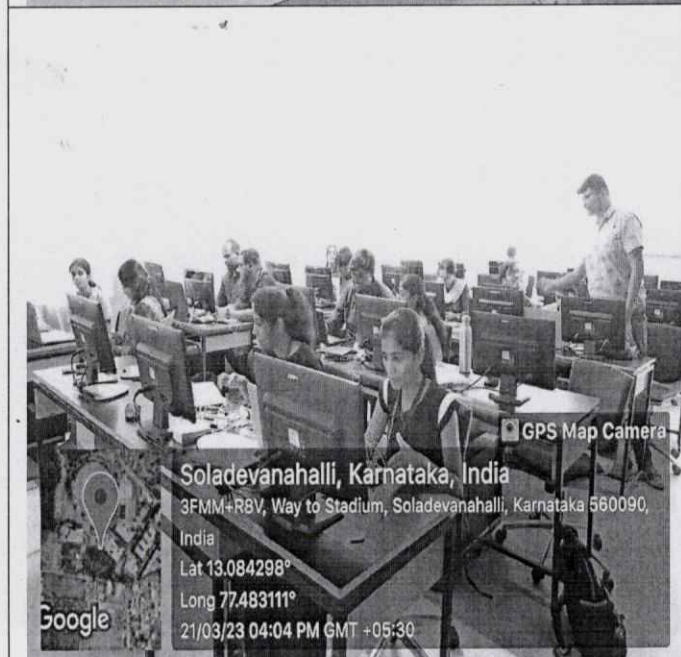
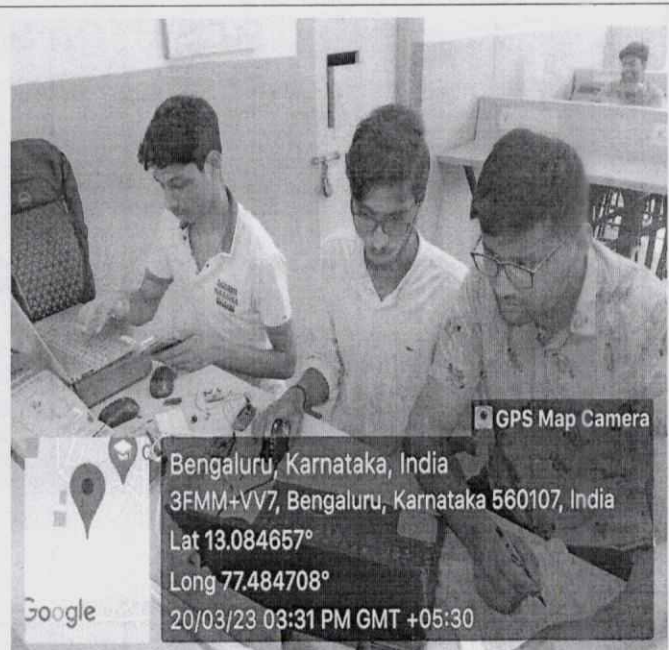
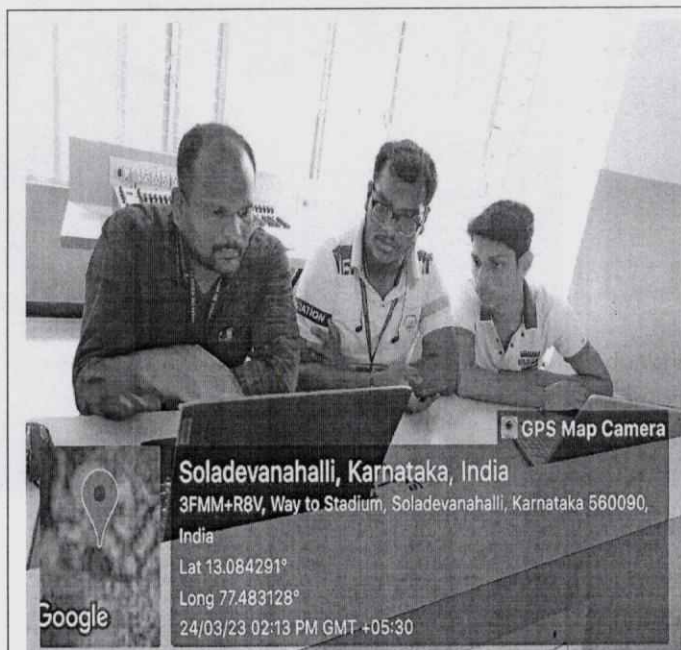


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Photograph of Sessions on RaspberryPi with Python



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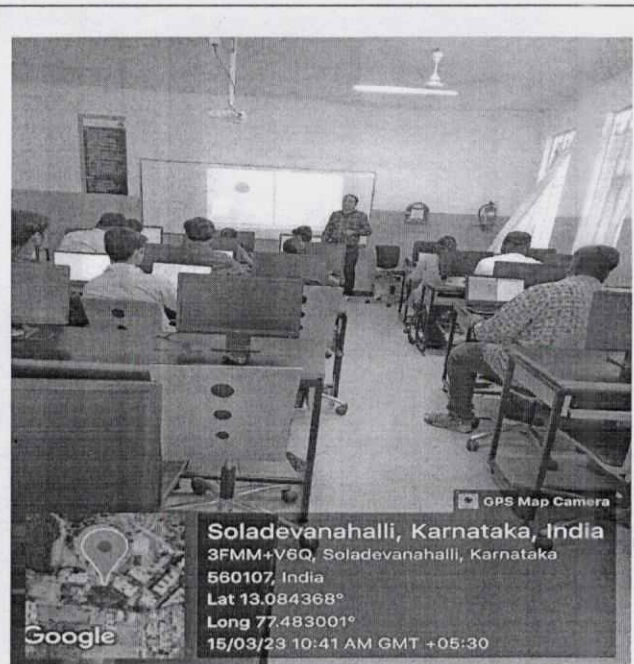
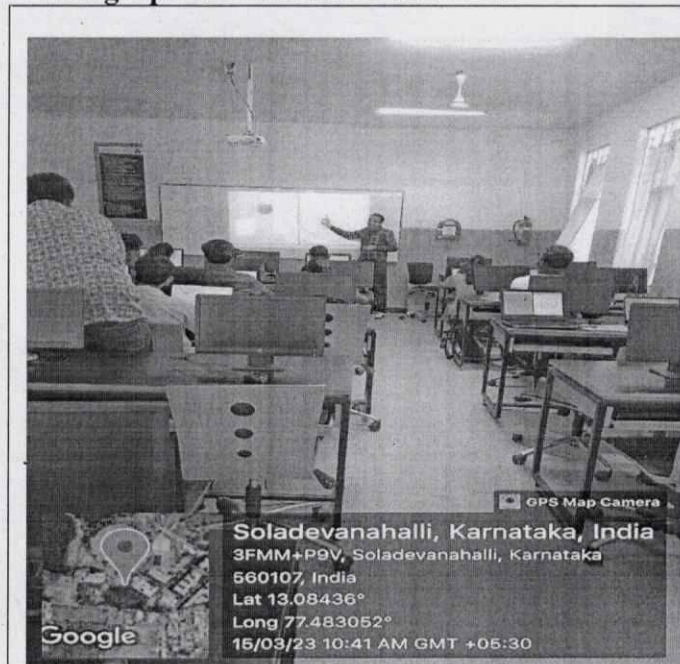
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Photographs taken during the Summer School

Keynote session by Dr. Rajeswari, Professor and HOD, Department of ECE



Photograph of Sessions on Labview



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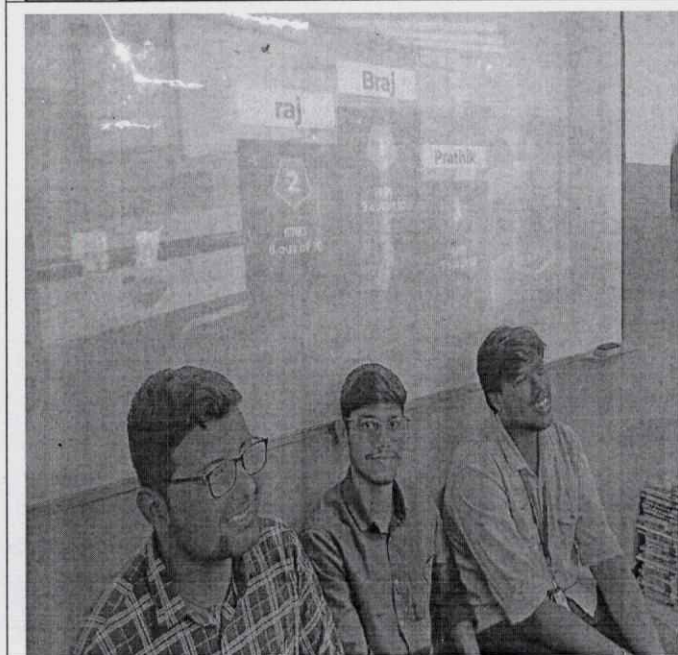
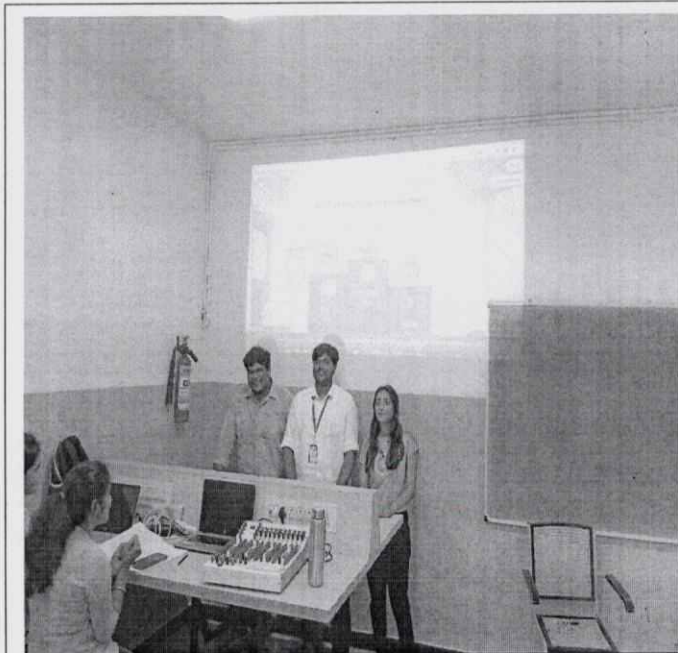
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Photograph of Quiz at the end of every session



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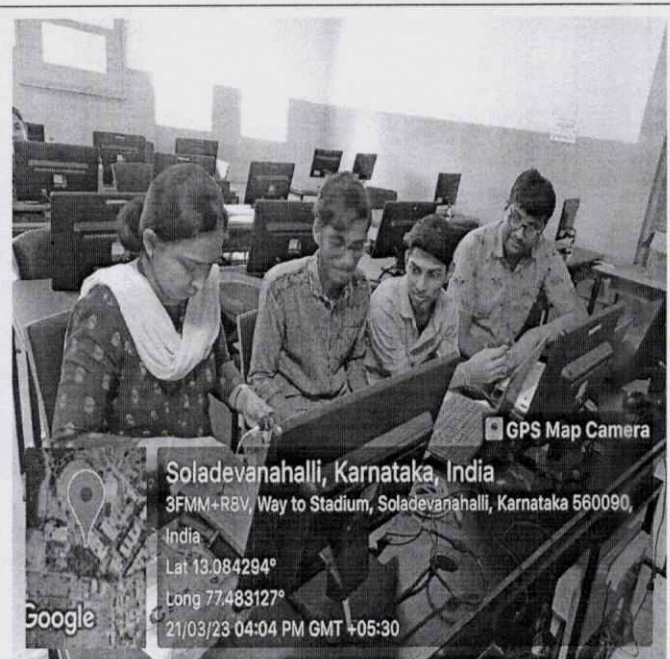
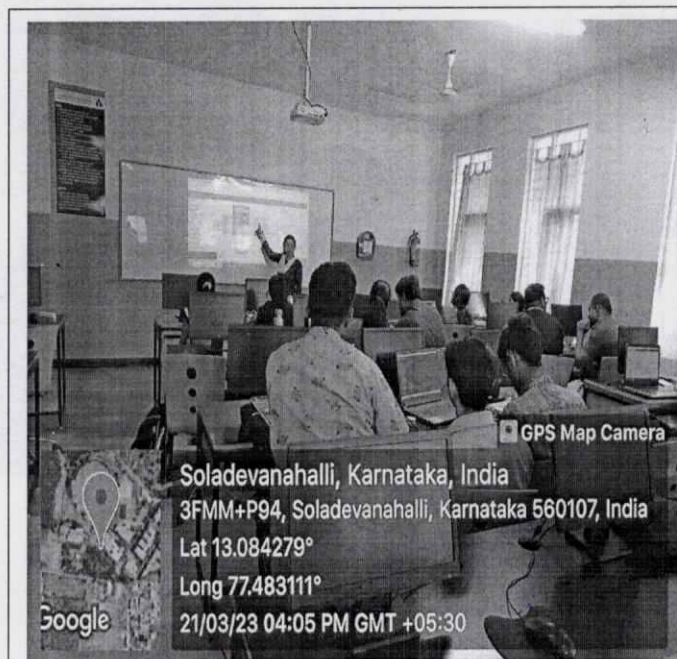
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Photograph of Sessions on Tinkercad



Photograph of Sessions on NodeMCU



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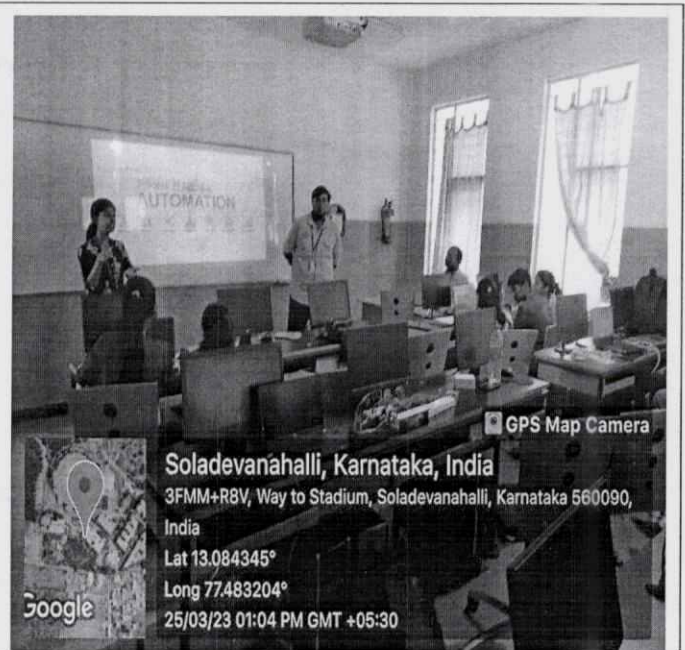


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Photograph of Project presentation



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Summer School feedback

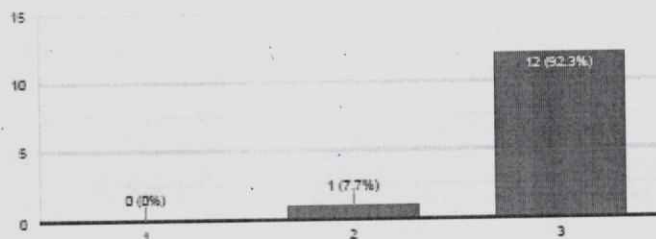
Feedback form of Summer School on Embedded systems and IOT

13 responses

To what extent you are able to use modern tools for embedded system application.

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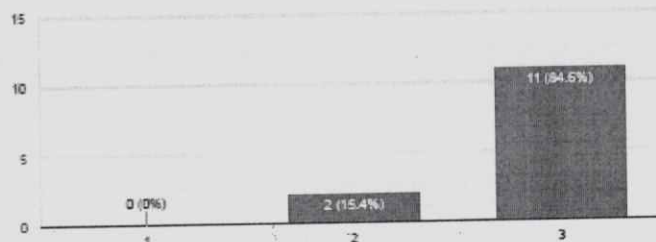
13 responses



To what extent can you relate use of Embedded system and IOT to the given problem?

Copy

13 responses



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Outcomes	Program Outcomes											
	Engineering knowledge	Problem analysis	Design/development of solutions	Conduct investigations of complex problems	Modern tool usage	The engineer and society	Environment and sustainability	Ethics:	Individual and teamwork	Communication	Project management and finance	Life-long learning
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	3	2	2	-	3	-	-	-	3	3	-	3
2	3	2	2	-	3	-	-	-	3	3	-	3
3	3	2	2	-	3	-	-	-	3	3	-	3
4	3	2	2	-	3	-	-	-	3	3	-	3

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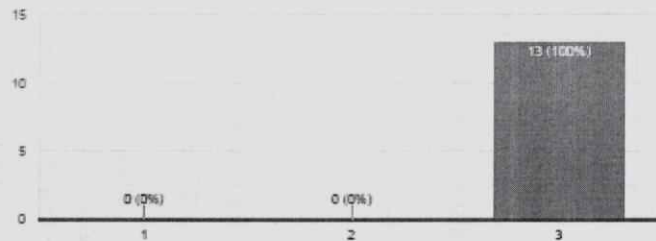
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Feedback form of Summer School on Embedded systems and IOT

To what extent can you interface Input output devices with Node MCU and Raspberry pi?

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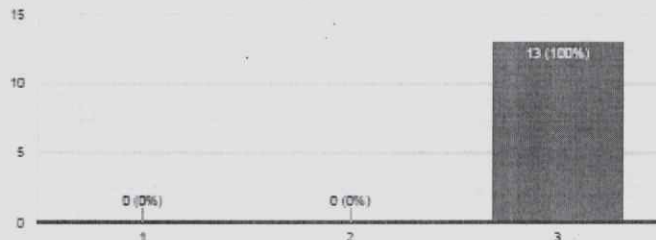
13 responses



To what extent has Summer School helped you to work as a good team leader and a team worker?

 Copy

13 responses



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Acharya Institute of Technology

Department of Electronics and Communication Engg.

in association with

Fasal (Wolkus Technology Solutions Private Limited), SiyaCon Technologies and IEEE



IEEE



SiyaCon Technologies

Cordially invites you to the Inaugural function of

"Summer Schools on Embedded Systems and IoT & Digital IC Design using Cadence"

14th March 2023, 10.00 AM, MBA Seminar Hall, AIT

PRESIDENT

Dr. Rajath Hegde M M

Principal, Acharya Institute of Technology

GUEST OF HONOR

Prof. Marigowda C K

Vice-Principal, Acharya Institute of Technology

CONVENOR

Dr. RAJESWARI

Professor & Head,
Dept. of ECE, AIT

RESOURCE PERSONS / COORDINATORS

Prof. Sandeep Kumar K	Dr. Jayalaxmi H
Prof. Pranita N Palsapure	Dr. Asha CN
Prof. Mohan N	Prof. Nagapushpa K P
Prof. Raghunath B H	Prof. Veena S K
Prof. Suma C	Prof. Kumbhar Trupti
Prof. Shadakshari	Prof. Sumangala S J

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PROGRAM FLOW

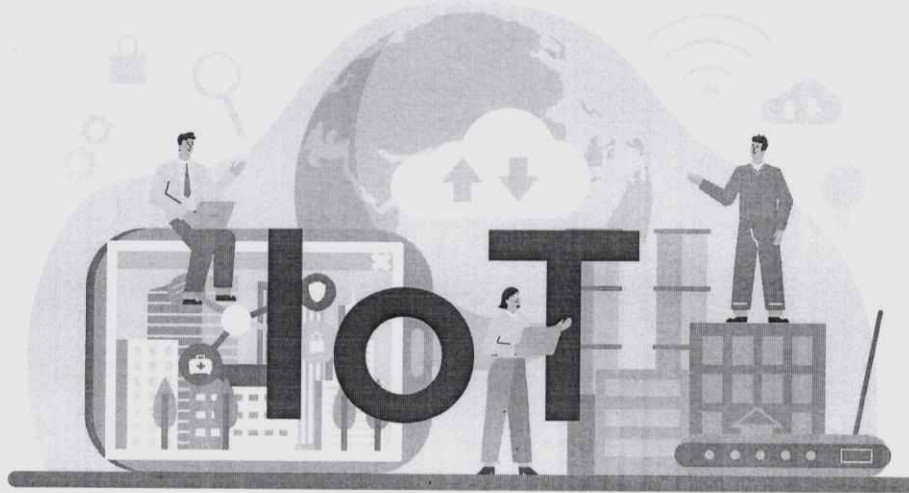
Event	Time
Registration	9.30 AM
Welcome & Overview of Summer School	10.00AM
Address by Guest of honor Prof. Marigowda C K	10.05AM
Presidential Address Dr. Rajath Hegde M M	10.10 AM
Address by HOD Dr. Rajeswari	10.15AM
Vote of Thanks	10.25 AM
Group Photo Assembly	10:30AM
First Session of Summer School	10.45 AM

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SUMMER SCHOOL ON "EMBEDDED SYSTEM AND IOT"

Target Audience: 6th Sem students

Date: March 14th To 21st & 24th To 25th, 2023 | **Time:** 10:30 AM - 04:30 PM

Venue: ECE Labs

If online: Meeting link to be provided |

If offline: Location to be given along with google maps link to location

ABOUT THE PROGRAM:

Objectives of the Program:

- Interface I/O devices with NodeMCU, RaspberryPi in developing Embedded System Applications.
- Enhanced learning of embedded system applications through simulation using TinkerCad, Labview and Python programming.
- Team building and Communication skills through project-based learning and presentations.

Expected Outcome of the Program:

- Hands on exposure on embedded system and IoT
- Apply intermediate and advance practices in Python, ThinkerCad, NodeMCU and Raspberry Pi

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Certificate of Participation

This is to certify that

Mr./Ms. *Chandrayappagari Sai Teja Reddy*

has attended the summer school on “**Embedded system and IOT**” organized by **Department of ECE, Acharya Institute of Technology**, Bengaluru in association with Fasal (Wolkus Technology Solutions Private Limited) and AIT- IEEE student branch, from 14/03/2023 to 25/03/2023 with a consolidated score of **85%**

Dr. Rajeswari
H.O.D , Dept .of. ECE

Prof. Marigowda C K
Vice-Principal, AIT

Dr. Rajath Hegde M M
Principal, AIT



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This is to certify that

Mr./Ms..... *Manasa B*

has attended the summer school on “**Embedded system and IOT**” organized by **Department of ECE, Acharya Institute of Technology, Bengaluru** in association with Fasal (Wolkus Technology Solutions Private Limited) and AIT- IEEE student branch, from 14/03/2023 to 25/03/2023 with a consolidated score of**78%**.....

Dr. Rajeswari
H.O.D , Dept .of. ECE

Prof. Marigowda C K
Vice-Principal, AIT

Dr. Rajath Hegde M M
Principal, AIT



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This is to certify that

Mr./Ms..... *Atul Khuntia*

has attended the summer school on “**Embedded system and IOT**” organized by **Department of ECE, Acharya Institute of Technology, Bengaluru** in association with Fasal (Wolkus Technology Solutions Private Limited) and AIT- IEEE student branch, from 14/03/2023 to 25/03/2023 with a consolidated score of **70%**.....

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Prof. Marigowda C K
Vice-Principal, AIT

Dr. Rajath Hegde M M
Principal, AIT



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This is to certify that

Mr./Ms.....*Prathik Reddy*.....

has attended the summer school on “**Embedded system and IOT**” organized by
Department of ECE, Acharya Institute of Technology, Bengaluru in association
with Fasal (Wolkus Technology Solutions Private Limited) and AIT- IEEE student
branch, from 14/03/2023 to 25/03/2023 with a consolidated score of**88%**.....

Dr. Rajeswari
H.O.D , Dept .of. ECE

Prof. Marigowda C K
Vice-Principal, AIT

Dr. Rajath Hegde M M
Principal, AIT



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This is to certify that

Mr./Ms..... *Shweta Patil*

has attended the summer school on “**Embedded system and IOT**” organized by **Department of ECE, Acharya Institute of Technology, Bengaluru** in association with Fasal (Wolkus Technology Solutions Private Limited) and AIT- IEEE student branch, from 14/03/2023 to 25/03/2023 with a consolidated score of **85%**

Dr. Rajeswari
H.O.D , Dept .of. ECE

Prof. Marigowda C K
Vice-Principal, AIT

Dr. Rajath Hegde M M
Principal, AIT



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This is to certify that

Mr./Ms.....*Ritik Raj*.....

has attended the summer school on “**Embedded system and IOT**” organized by
Department of ECE, Acharya Institute of Technology, Bengaluru in association
with Fasal (Wolkus Technology Solutions Private Limited) and AIT- IEEE student
branch, from 14/03/2023 to 25/03/2023 with a consolidated score of**75%**.....

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Prof. Marigowda C K
Vice-Principal, AIT

Dr. Rajath Hegde M M
Principal, AIT



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This is to certify that

Mr./Ms..... *Divya Dharshini R*

has attended the summer school on “**Embedded system and IOT**” organized by
Department of ECE, Acharya Institute of Technology, Bengaluru in association
with Fasal (Wolkus Technology Solutions Private Limited) and AIT- IEEE student
branch, from 14/03/2023 to 25/03/2023 with a consolidated score of **65%**

Dr. Rajeswari
H.O.D , Dept .of. ECE

Prof. Marigowda C K
Vice-Principal, AIT

Dr. Rajath Hegde M M
Principal, AIT



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This is to certify that

Mr./Ms.....*Harshitha B R*.....

has attended the summer school on “**Embedded system and IOT**” organized by
Department of ECE, Acharya Institute of Technology, Bengaluru in association
with Fasal (Wolkus Technology Solutions Private Limited) and AIT- IEEE student
branch, from 14/03/2023 to 25/03/2023 with a consolidated score of**65%**.....

Dr. Rajeswari
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Prof. Marigowda C K
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This is to certify that

Mr./Ms..... *Bole Swetha*

has attended the summer school on “**Embedded system and IOT**” organized by **Department of ECE, Acharya Institute of Technology, Bengaluru** in association with Fasal (Wolkus Technology Solutions Private Limited) and AIT- IEEE student branch, from 14/03/2023 to 25/03/2023 with a consolidated score of **65%**

Dr. Rajeswari
H.O.D , Dept .of. ECE

Prof. Marigowda C K
Vice-Principal, AIT

Dr. Rajath Hegde M M
Principal, AIT



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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



Certificate of Participation

This is to certify that

Mr./Ms.....*Chandani Kumari*.....

has attended the summer school on “**Embedded system and IOT**” organized by
Department of ECE, Acharya Institute of Technology, Bengaluru in association
with Fasal (Wolkus Technology Solutions Private Limited) and AIT- IEEE student
branch, from 14/03/2023 to 25/03/2023 with a consolidated score of**60%**.....

Dr. Rajeswari
H.O.D , Dept .of. ECE

Prof. Marigowda C K
Vice-Principal, AIT

Dr. Rajath Hegde M M
Principal, AIT



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Certificate of Participation

This is to certify that

Mr./Ms..... *Suraj Singh*

has attended the summer school on “**Embedded system and IOT**” organized by **Department of ECE, Acharya Institute of Technology, Bengaluru** in association with Fasal (Wolkus Technology Solutions Private Limited) and AIT- IEEE student branch, from 14/03/2023 to 25/03/2023 with a consolidated score of **80%**

Dr. Rajeswari
H.O.D , Dept .of. ECE

Prof. Marigowda C K
Vice-Principal, AIT

Dr. Rajath Hegde M M
Principal, AIT



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Certificate of Participation

This is to certify that

Mr./Ms.....*Dilip Kumar B*.....

has attended the summer school on “**Embedded system and IOT**” organized by
Department of ECE, Acharya Institute of Technology, Bengaluru in association
with Fasal (Wolkus Technology Solutions Private Limited) and AIT- IEEE student
branch, from 14/03/2023 to 25/03/2023 with a consolidated score of**85%**.....

Dr. Rajeswari
H.O.D , Dept .of. ECE

Prof. Marigowda C K
Vice-Principal, AIT

Dr. Rajath Hegde M M
Principal, AIT



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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



Certificate of Participation

This is to certify that

Mr./Ms..... *Brajbhushan Sharma*

has attended the summer school on “**Embedded system and IOT**” organized by
Department of ECE, Acharya Institute of Technology, Bengaluru in association
with Fasal (Wolkus Technology Solutions Private Limited) and AIT- IEEE student
branch, from 14/03/2023 to 25/03/2023 with a consolidated score of **65%**

Dr. Rajeswari
H.O.D , Dept .of. ECE

Prof. Marigowda C K
Vice-Principal, AIT

Dr. Rajath Hegde M M
Principal, AIT