SOUTH EAST ASIAN EDUCATION TRUST®
S.E.A. COLLEGE OF ENGINEERING & TECHNOLOGY
(Approved by All India Council for Technical Education (AICTE), New Delhi
Affiliated to Visvesvaraya Technological University(VTU), Belagavi, Recognised by Government of Karnataka)

Department of Electronics and Communication Engineering

Report on the 5 Days Workshop on Drone Model Building and Embedded IOT Application Development

A 5 Days Workshop on "Drone Model Building and Embedded IOT Application Development" was organized by Department of Electronics and Communication Engineering, S.E.A College of Engineering and Technology, Bangalore from 11th-15th December, 2023 in association with Pragmatic Embd Solutions. The timings for Morning Session was 09.00 am to 12.45 pm and afternoon Session was 1.30 to 4.00 pm. The workshop was arranged for final year, third year and second year ECE students. Nearly 69 students participated in the workshop. Inauguration for the workshop was held on CSE seminar hall on 8th November, 2022 at 10:00am. The function was presided by by Dr.Bhagavanth K Deshpande, Director, SEACET and Dr.B.Venkatanarayana, Principal, SEACET and introduction of resource person was given by Dr. Pradeep Kumar N.S., HOD, ECE, SEACET.

The resource person from Pragmatic Embd Solutions is Shashi Kiran, Director of company. MOU was signed between Pragmatic Embd Solutions and S.E.A College of Engineering and Technology for three years.

About **Workshop:**

Objective of the Workshop:

The broad objective of this Workshop aimed at giving your students a practical exposure on the diversified hardware and software used in Embedded Systems. The program covers hands-on Training on Arduino Boards.

Resource Person of the Workshop:

Resource Persons for the Workshop is Mr.Sashi Kiran from Pragmatic Embd Solutions.

First day 11.12.23

The First day 11.12.23 workshop Inaugural function was held on AC seminar hall at 10:00am. Later the workshop started by 11:00 am. In the first day the resource person gave introduction about embedded systems. Learnt about Features of ESP32 IOT Board. Along with the operations of relay, buzzer, LED and regulator.

Screen Shots for First day 11.12.23

Bengaluru, Karnataka, India
South East Asian College Engineering & Management, Basavanapura Rd, Lourdu Nagar, Virgonagar, Krishnarajapura, Bengaluru, Karnataka 560049, India
Lat 13.008787°
Long 77.715035°
11/12/23 10:05 AM GMT +05:30

Second day 12.12.22

The Second day 12.12.23 Forenoon and Afternoon sessions resource person delivered lecture on how to do operate DC motor drive, operation of relay and operation based on relay light. Learnt features of battery operator.

Screen Shots for Second day 12.12.23

Third day 13.12.23

The Third day 13.12.23 Forenoon and Afternoon sessions resource person delivered lecture on sensor activity. They learnt about surface mount devices, place through holes, IR sensor, LCD test, accelerometer test.

Screen Shots for Third day 13.12.23
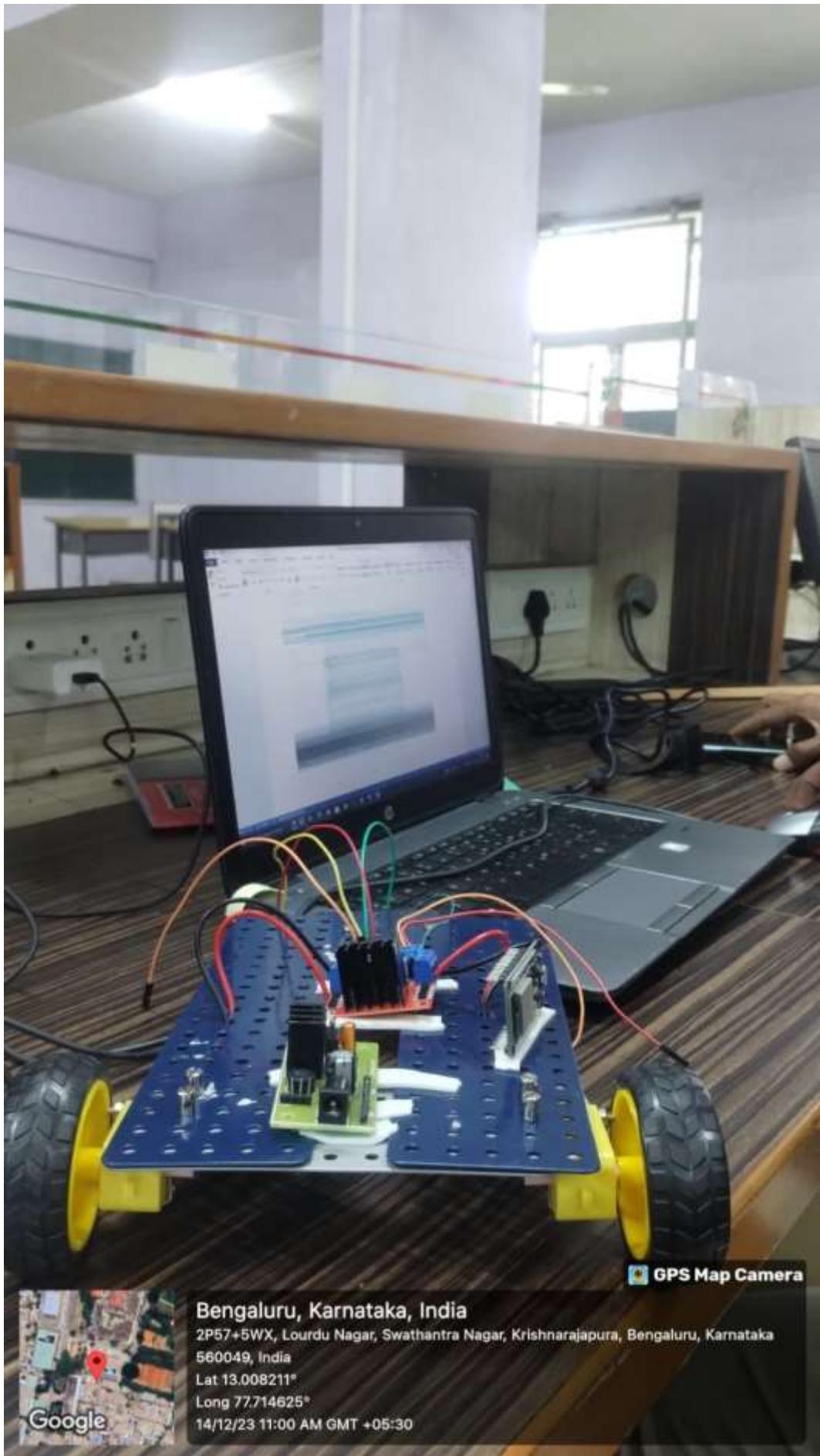
GPS Map Camera

Bengaluru, Karnataka, India
South East Asian College Engineering & Management, Basavanapura Rd, Lourdu Nagar, Virgonagar, Krishnarajapura, Bengaluru, Karnataka 560049, India
Lat 13.008787°
Long 77.715042°
11/12/23 10:35 AM GMT +05:30

Fourth day 14.12.23

The Fourth day 14.12.23 Forenoon and Afternoon sessions resource person delivered lecture on Robotic Assembly, robotic control using Bluetooth and Bluetooth controlled robot.

Screen Shots for Fourth day 14.12.23

Fifth day 15.12.23

The Fifth day 15.12.23 Forenoon and Afternoon sessions resource person gave hands on practice on how to control accelerometer, Drone Flying and Industrial Data Logger. MOU was signed between pragmatic embd solutions and SEA College of Engineering and Technolgy for three years.

Screen Shots for Fifth day 15.12.23

Bengaluru, Karnataka, India
2P57+5WX, Lourdu Nagar, Swathantra Nagar, Krishnarajapura, Bengaluru, Karnataka 560049, India
Lat 13.00811°
Long 77.714615°
15/12/23 02:43 PM GMT +05:30

Bengaluru, Karnataka, India
2P57+5WX, Lourdu Nagar, Swathantra Nagar, Krishnarajapura, Bengaluru, Karnataka 560049, India
Lat 13.008469°
Long 77.714983°
14/12/23 12:16 PM GMT +05:30

The Workshop was concluded at 03.00pm. The workshop ended with the vote of thanks by Dr. Pradeep Kumar N.S., HOD, ECE, SEACET. Lunch was provided at last day and Hi-tea to faculties and students of ECE department for all the 5 days. Feedback forms were collected from students at the last day. The workshop was highly informative to students. Thus workshop provided valuable awareness and insights on the various aspects of Embedded Systems

Outcome from the Workshop:

- Drone Model Construction Proficiency
- Embedded IoT Application Development Skills
- Autonomous Flight Capabilities
- IoT Application Development for Drone Data

Students Name list – Workshop:

Sl.No.	Student Name
1	AISHWARYA H R
2	BHARADWAZ R
3	JAGATI SAI TEJA
4	JALANI K S
5	KANNIKA P N
6	KARTHIK V H
7	KEVIN GEORGE D
8	NIKHIL K
9	RANJITHA M
10	S YUVARAJ
11	SAHANA H
12	SHAMME ZEHRA
13	SINDHU K J
14	SINDHU V
15	SKANDA P
16	SONIKA N
17	SPOORTHI J
18	SRIDHAR S MELI
19	SUZAIN KHANUM
20	THIRTAKUMAR H B
21	VAISHNAVI PATIL
22	VENUGOPAL H R
23	VYSHNAVI A R
24	Charithra Rani
25	Gagankumar T N

26	Srikanth D Nayaka
27	Sudeep B S
28	Thugu Aswini
29	Abhi S R
30	Aishwarya.m
31	ANJALI M
32	Bhargav A
33	Chaithra k R
34	Chiranjeevi S
35	DAKSHIRAJU SREENATH
36	Divya k s
37	Emmanuel chaudhary
38	Harsha.G
39	Jhonathan P
40	Manoj Kumar M
41	Moksha S
42	Muskan.A
43	Nandish T. S
44	Neerisha.M
45	Pallavi .K.A
46	Pranowmya Nalam
47	V Punnish
48	Sakshi Mohandas Pai
49	SANGEETHA C
50	Shama K
51	SHREYA RAJENDRA DEVEKAR
52	Sindhuja M.R
53	Sofiya.J
54	Soujanya C S
55	Swapna B V
56	Teja
57	Yashwanth C R
58	C V SUDHEER KUMAR
59	EDURU RAJESH
60	LOKESH P
61	MOHITH GOWDA C B
62	D N PADMANAND
63	PRATIK KUMAR RAI

Students Attendance sheet (scanned):

S.E.A. COLLEGE OF ENGINEERING & TECHNOLOGY
Department of Electronics and Communication Engineering
III SEM Drone Workshop Attendance List from (11.12.23 to 15.12.23)

S.No.	USN	Student Name	11.12.2023 FN	11.12.2023 AN	12.12.2023 FN	12.12.2023 AN	13.12.2023 FN	13.12.2023 AN	14.12.2023 FN	14.12.2023 AN	15.12.2023 FN	15.12.2023 AN
1	1SP22EC001	Abhi S R										
2	1SP22EC002	Aishwarya.m										
3	1SP22EC005	ANJALI M										
4	1SP22EC007	Bhargav A										
5	1sp22EC008	Chaithra k R										
6	1SP22EC012	Chiranjeevi S										
7	1SP22EC014	DAKSHIRAJU SREENATH										
8	1SP22EC017	Divya k s										
9	1SP22EC018	Emmanuel chaudhary										
10	1SP22EC019	Harsha.G										
11	1SP22EC022	Jhonathan P										
12	1SP22EC024	Manoj Kumar M										
13	1SP22EC025	Moksha S										
14	1SP22ECO27	Muskan.A										
15	1SP22EC029	Nandish T. S										
16	1SP22EC031	Neerisha.M										
17	1SP22EC037	Pallavi .K.A										
18	1SP22EC038	Pranowmya Nalam										
19	1SP22EC041	V Punnish										
20	1SP22EC044	Sakshi Mohandas Pai										
21	1SP22EC045	SANGEETHA C										
22	1SP22ECO48	Shama K										
23	1SP22EC051	DEVEKAR										
24	1SP22EC052	Sindhuja M.R										
25	1SP22EC053	Sofiya.J										
26	1SP22EC054	Soujanya C S										
27	1SP22EC056	Swapna B V										
28	1sp22ec057	Teja										
29	1SP22EC063	Yashwanth C R										

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Department of Electronics and Communication Engineering

V SEM Drone Workshop Attendance List

Sl.No	Student Name	11.12.2023 FN	11.12.2023 AN	12.12.2023 FN	12.12.2023 AN	13.12.2023 FN	13.12.2023 AN	14.12.2023 FN	14.12.2023 AN	15.12.2023 FN	15.12.2023 AN
1	AISHWARYA H R										
2	BHARADWAZ R										
3	JAGATI SAI TEJA										
4	JALANI K S										
5	KANNIKA P N										
6	KARTHIK V H										
7	KEVIN GEORGE D										
8	NIKHIL K										
9	RANJITHA M										
10	S YUVARAJ										
11	SAHANA H										
12	SHAMME ZEHRA										
13	SINDHU K J										
14	SINDHU V										
15	SKANDA P										
16	SONIKA N										
17	SPOORTHI J										
18	SRIDHAR S MELI										
19	SUZAIN KHANUM										
20	THIRTAKUMAR H B										
21	VAISHNAVI PATIL										
22	VENUGOPAL H R										
23	VYSHNAVI A R										
24	Charithra Rani										
25	Gagankumar T N										
26	Srikanth D Nayaka										
27	Sudeep B S										
28	Thugu Aswini										
29	Pawan										

Sample Feedback forms from students (scanned):

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Students Feedback Form

Workshop on "Drone Model Building and Embedded IoT Applications Development" for ECE students in association with IQAC and IIC from 11th to 15th December, 2023

Workshop Name: Drone Model Building & Embedded IOT Applications Development   Date: 15-12-23

Name of the Institution: S.E.A College of engineering and technology

Program Date: 11/12/23 to 15/12/23

Name of the Participant: SPOORTHI-J

Department: Electronics and communication engineering

USN NO: 1SP21EC027

Year and Semester: 3rd year (5th sem)

Address: #80, 63rd cross, 2nd main, Nisanga layout, Doddanekundi, Bangalore-37

Phone No: 8088139828   Mobile No: _____   e-mail ID: spoorthii003@gmail.com

> Write down the benefits got by attending this program?
  Learnt about Auxdino software and usage of ESP-32 boards.

> Any Notes or Content Material provided (Y/N): Yes

> Does this program have brought any change in your understanding of the subject, skills and your attitude towards the learning ?
  yes

> Have you found any innovative idea of making learning process from this program? Explain.

in this Drone making.

> Whether initiatives like this should be organized in the coming future or not? Give reason.

yes, Like this Workshop Should be
done in coming year It's very use
-full in the coming Future

> How do you plan to share the gained knowledge/skill with your friends who did not attend the program?

It is very usefull topic/project in
coming future so, I will explain to
my friends who are not attended the
workshop

✓ Kindly give rating to the different aspects of Workshop (Out of 10 marks)

Particular	Marks Given	Any Remarks
(a). Course Content	10	
(b). Resource Persons	10	
(c). Presentations	9	
(d). Interactive Sessions	9	
(e). Reading Material	9	
(f).Basic Facilities	10	
(g). Overall	10	

Sangeethai c.
Signature of the Participant

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Students Feedback Form

Workshop on "Drone Model Building and Embedded IoT Applications Development" for ECE students in association with IQAC and IIC from 11th to 15th December, 2023

Workshop Name: Drone Model Building & Embedded IoT   Date: 15-12-23

Name of the Institution: S.E.A College.

Program Date: 11-12-23

Name of the Participant: Sangeetha.C

Department: ECE

USN NO: 1SP22EC045

Year and Semester: IInd year IIIrd sem

Address: Hostel

Phone No: 7337728766 Mobile No: 8549046427 E-mail ID: Sangeethac264@gmail.com.

> Write down the benefits got by attending this program?

We learned new things in the project

> Any Notes or Content Material provided (Y/N): Yes

> Does this program have brought any change in your understanding of the subject, skills and your attitude towards the learning ?

Yes, It's very usefull Pr Jerther Studies

> Have you found any innovative idea of making learning process from this program? Explain.

Yes, we learned new things.

yes, I would like to work on more projects like this

> Whether initiatives like this should be organized in the coming future or not? Give reason.

yes, This will definetaely help students.

> How do you plan to share the gained knowledge/skill with your friends who did not attend the program?

I would like to work and publish it on media, so many people gain interest towards this.

✓ Kindly give rating to the different aspects of Workshop (Out of 10 marks)

Particular	Marks Given	Any Remarks
(a). Course Content	10	—
(b). Resource Persons	10	—
(c). Presentations	10	—
(d). Interactive Sessions	10	—
(e). Reading Material	10	—
(f).Basic Facilities	10	—
(g). Overall	10	—

Signature of the Participant