



CIN: U88900KA2024NPL183676

GSSS TECHNOLOGY BUSINESS INCUBATOR FOUNDATION

SPARK IDEAS, FUEL INNOVATIONS

DST-iTBI-GSSSTBIF, MYSURU

PROF.B.S.PANDIT MEMORIAL BLOCK, GSSSIETW CAMPUS,
KRS ROAD, METAGALLI MYSURU-570016 | KARNATAKA | INDIA



DST NIDHI
START-TO-SCALE STARTUP SUPPORT

04/12/2025

Report on the Four-Day Bootcamp on IoT Device Programming

Organized by: DST-iTBI-GSSSTBIF, Mysuru

In association with: C-DAC Bengaluru & Department of ECE, GSSSIETW

Revised Date: 1st – 4th December 2025

Venue: Room No. D-015, 'D' Block, GSSSIETW Campus

1. Introduction

The GSSS Technology Business Incubator Foundation (GSSSTBIF), Mysuru, conducted a four-day Bootcamp on "*IoT Device Programming*" in collaboration with the Centre for Development of Advanced Computing (C-DAC), Bengaluru, and the Department of Electronics and Communication Engineering (ECE), GSSSIETW.

This Bootcamp was organized as **Phase II** of the IoT training initiative under the Future Skills PRIME (FSP) program of the Government of India. In Phase I, **120 students** were trained. Phase II focused on providing the remaining students with advanced exposure to IoT device programming and embedded systems.

2. Resource Person

The sessions for Phase II were handled by **Mr. Pranav Sangar**, Project Engineer, C-DAC Bengaluru

Mr. Sangar delivered an industry-oriented training experience, providing strong emphasis on real-time applications, IoT communication protocols, and hands-on programming of embedded hardware.

3. Program Overview

As this Bootcamp was a continuation of the Phase I training program, no formal inauguration was conducted.

This phase specifically targeted 68 students from the ECE – Section C, ensuring that all pre-final year students of the department received uniform exposure to IoT technologies, microcontroller programming, and industry practices.

4. Topics Covered

The Bootcamp delivered a structured training experience combining theoretical foundations with hands-on practical sessions. Major topics included:

- Fundamentals of IoT and its real-world applications
- Sensors and actuators: concepts, interfacing, and implementation
- Microcontroller programming fundamentals
- Wireless technologies for IoT: Wi-Fi, BLE, Zigbee
- IoT communication protocols: MQTT, CoAP, REST
- End-to-end IoT application workflow: development to deployment

Training Hardware: Ubi Mote IoT Development Kit

Participants engaged in coding assignments, demonstrations, and group tasks that helped reinforce key concepts.

5. Outcomes of the Bootcamp

The Bootcamp successfully enabled participants to:

- Gain strong conceptual clarity on IoT architecture
- Develop practical skills in sensor integration and microcontroller programming
- Understand industry-grade wireless standards and protocols
- Explore C-DAC's approaches to IoT system design
- Demonstrate interest in pursuing IoT projects and early-stage innovation

6. Participation and Feedback

A total of **68 students** from the 5th Semester ECE (Section C) enthusiastically participated in Phase II.

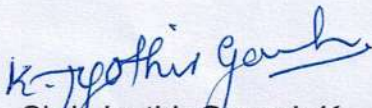
Feedback confirmed that the participants found the Bootcamp highly engaging and technically enriching. Students appreciated the hands-on activities, clarity of instruction, and relevance to current industry technologies.

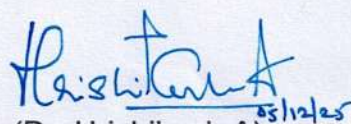
7. Conclusion

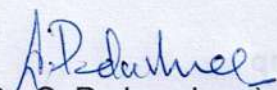
The Four-Day Bootcamp on IoT Device Programming achieved its objective of delivering practical, application-driven training to ECE students. Conducted as the second phase of a two-part training effort, this initiative ensured that **all students of the department received essential IoT skills** aligned with the Future Skills PRIME mandate.

The collaboration between DST-iTBI-GSSSTBIF, C-DAC Bengaluru, and GSSSIETW continues to strengthen the institution's commitment to fostering technical competency, innovation, and entrepreneurship among students.

Prepared by:


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Chairman,
Governing Body,
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**GSSS**GEETHA SHISHU
SHIKSHANA SANGHA (R)**INSTITUTE OF ENGINEERING
AND TECHNOLOGY FOR WOMEN**

(Affiliated to Vignansaraya Technological University, Belagavi. Approved by AICTE New Delhi & Govt. of Karnataka)

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**FEEDBACK**

Date: 22/08/2025

Event: Five day Boot Camp held from 18th to 22nd August 2025 on "IoT Device Programming" for 5th Sem A Section

Resource Persons: 1) Mr. Murugan S, Scientist-D, ACTS & BD, C-DAC, Bangalore

2) Pranav Sangar, Project Engineer, C-DAC, Bangalore

3) Dnyaneshwar Anshiram Gange, Project Engineer, C-DAC, Bangalore

Does this event:**Q1:** Help you to indulge in lifelong learning**Q2:** Help you to learn Modern engineering tools to solve Engineering Problems.**Q3:** Help you to work effectively as an individual, and a team to learn multidisciplinary concept.

Sl. No	USN	Q1	Q2	Q3	Please provide the feedback on the program to improve the event quality	Signature
1	4GW23EC001	3	3	3	Informative	Aishwarya
2	4GW23EC002	3	3	3	Informative	Sangar
3	4GW23EC003	3	3	3	The workshop was good	D
4	4GW23EC004	3	3	3	We expect more components in upcoming workshops.	Aishwarya G
5	4GW23EC005	3	3	3	We expect more components in upcoming workshop	Aishwarya
6	4GW23EC006	3	3	3	We had good hands on experience of circuit and software	Aishwarya
7	4GW23EC007	3	3	3	Overall workshop is good	Aishwarya L
8	4GW23EC008	3	3	3	Very Informative	Aishwarya M
9	4GW23EC009	3	3	3	Informative	Aishwarya M
10	4GW23EC010	3	2	2	We could have utilized the time even more efficiently	Aishwarya
11	4GW23EC011	3	3	3	Informative	Aishwarya

ELEC

	4GW23EC012	3	3	3	overall training was good but shortage of component	Anantha M
13	4GW23EC013	3	3	3	we expect more com - ponents in upcoming workshop	Anantha P
14	4GW23EC014	3	3	3	We expect more components in upcoming workshop	Anantha R
15	4GW23EC016	3	3	3	We expect more sufficient component to utilize the time effectively	Amulya L
16	4GW23EC017	3	3	3	Very informative	Ananya M
17	4GW23EC018	3	3	3	overall training was good but expected detailed explanation	Ananya CM
18	4GW23EC019	3	3	3	It was very useful	Ananya
19	4GW23EC020	3	3	3	Good	U
20	4GW23EC021	3	3	3	The workshop was good but expected sufficient	Ananya S.S
21	4GW23EC022	3	3	3	the workshop was good but expected sufficient	Ananya
22	4GW23EC023	3	3	3	Good	A
23	4GW23EC024	3	3	3	Good	Ankita V
24	4GW23EC025	3	3	3	Good	A
25	4GW23EC027	3	3	3	the workshop was very useful & helpful	Abhishek
26	4GW23EC028	3	3	3	The workshop was very helpful	Bharana M.B
27	4GW23EC029	-	-	-		
28	4GW23EC030	3	3	3	The basic concept is necessary but we not to learn too much	Abhinav
29	4GW23EC031	-	-	-		
30	4GW23EC032	3	3	3	There was shortage of components sessions were good	Abhinav
31	4GW23EC033	3	3	3	Good	Abhinav
32	4GW23EC034	3	2	3	Good	A
33	4GW23EC035	3	3	3	The experience was good, but could've been better with interaction	Abhinav
34	4GW23EC036	3	3	3	We expect more components in further next workshops	Abhinav
35	4GW23EC037	3	3	3	The workshop was good	Abhinav
36	4GW23EC039	3	3	3	we expect more components & workshop was good	Abhinav
37	4GW23EC040	3	3	3	useful session	Abhinav
38	4GW23EC041	3	3	3	we expect sufficient components for upcoming sessions	Abhinav
39	4GW23EC042	3	3	3	we expect more components other than its very useful	Abhinav

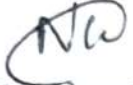
	4GW23EC043	3	3	3	The session was good but could have been more interactive	Ly. Divya
41	4GW23EC044	3	3	3	The session was good but could have been more interactive	Divya N.
42	4GW23EC045	3	3	3	It was helpful but would love real application project	Pranav
43	4GW23EC046	3	3	3	It was a very helpful session for basics	S.H.
44	4GW23EC047	3	2	3	The session was very helpful	Divya
45	4GW23EC048	3	3	3	Very helpful session	Goan
46	4GW23EC049	3	3	3	Informative session	(Divya)
47	4GW23EC050	3	3	3	It was Informative	Harshita D. Divya
48	4GW23EC051	3	3	3	We expect more components in further workshop	Harshita G.
49	4GW23EC052	3	3	3	Useful session	Harshita
50	4GW23EC053	3	3	3	It was informative	Harshita
51	4GW23EC054	3	3	3	Informative session, overall the workshop was good & effective	Harshita
52	4GW23EC055	3	2	2	We expect more components in further workshop	Harshita
53	4GW23EC056	3	3	3	Useful	Harshita
54	4GW23EC057	3	3	3	We need more hands on session with more components	Harshita D. Koushik
55	4GW23EC058	3	3	3	We expect more components in upcoming workshop	Tanishka
56	4GW23EC059	3	3	3	Good Session	K. Deepika
57	4GW23EC060	3	3	3	Very good session	Harshita
58	4GW23EC061	3	3	3	Good experience	Divya
59	4GW23EC062	3	3	3	Informative session	Koushik
60	4GW23EC063	3	3	3	Very informative and good communication	Harshita G.
61	4GW24EC402	3	3	3	Overall workshop was good	Harshita
62	4GW24EC406	3	3	3	We expect more components in upcoming workshop	Harshita
63	4GW24EC409	3	3	3	Overall workshop was good	Harshita
64	4GW24EC411	3	3	3	Good Session	Harshita G.
65	4GW24EC415	3	3	3	Workshop was good	Harshita S.
Average		2.95	2.90	2.95		Observation

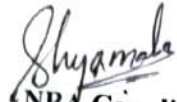
>70%-2				Observation	
>60%-1				The average feedback from the students reflect that the event is highly mapped to a, b, c.	
<80%-0				It can be helpful for carry out projects.	

1-Silght

2-Moderate

3-High


Event Coordinator


NBA Coordinator


HOD, ECE

PAC Members

1. Dr. Padmaiaharee. S
2. Dr. Jayanth J Jayarath
3. Dr. Sreenivas Rao M. V. 
4. Dr. Manjula G. 
5. Dr. Sushma S. J. 