

SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust (R), Udupi)
Accredited by NBA / Accredited by NAAC with 'A' grade | Affiliated to VTU,
Belagavi Approved by AICTE, New Delhi & Recognized by Government of
Karnataka, Vishwothamanagar, Bantakal - 574 115, Udupi, Karnataka, India



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SMVITM

Dr. Sachin Bhat
Associate Professor and Head

Ref.No: SMVITM/ECE/2023/ 05

10th February, 2023

CIRCULAR

Dear Students,

The Department of Electronics and Communication Engineering is offering a Value Added Course on "IoT and Embedded System". The course is scheduled from 20th to 24th February, 2023. We believe this course will help you to upgrade your skills and it will be further helpful for your academics.

HOD ECE

Sachin Bhat
10/2/23
(S.B.)

Dr. Sachin Bhat

Head
Dept of E&C Engg.
SMVITM, BANTAKAL - 574 115

Copy to:

1. Principal
2. Vice Principal / Trust - For information

Tel: +91 9611615001 | Ext: 213 | Web: <https://sode-edu.in/departments/electronicandcommunicationengineering/> | E-mail: ec@sode-edu.in

hscop

Principal
SHRI MADHWA VADIRAJA
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Vishwothama Nagar, Udupi Dist.
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**SHRI MADHWA VADIRAJA
INSTITUTE OF TECHNOLOGY AND MANAGEMENT**
(Accredited with grade 'A' by NAAC & NBA)



Presents

VALUE ADDED COURSE
on
"IOT & EMBEDDED SYSTEM"

Organized by

**Department of
Electronics & Communication Engineering**

Coordinated by

Ms. Pavithra Poornima S, Asst. Professor, ECE Dept.

Mr. Sandesh Kumar, Sr. Asst. Professor, ECE Dept.

Ms. Vimitha, Asst. Professor,

ECE Dept. Mr. Shrvan, Asst.

Professor, ECE Dept.

Approved by

Dr. Sachin Bhat, Associate Professor, Dept. of ECE



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ABOUT THE COURSE

The ever growing network of technologies connecting and communicating via the internet to send and receive data in the absence of human-to-human or human-to-computer interaction. IoT consists of a network of smart devices, sensors, and actuators interconnecting with each other over the internet. IoT is rapidly evolving throughout the embedded industry. It is projected that there will be about 50 billion IoT devices connected to the internet by 2030. In this course, students will learn about sensor programming on an embedded device, IoT device provisioning, and the latest wireless communication protocols including Wi-Fi, Bluetooth, and transport protocols such as MQTT. Students will also explore the IoT data processing life cycle which includes capturing, cloud storage, and analyze data to various IoT devices. At the end of the course participants will be able to design a prototype of an IoT solution using sensor data, communication protocol, cloud, safety, and security risks.

Embedded Systems surround us in the form of gadgets and devices that we use. There is no aspect of human lives, which is untouched by such devices at home or for health diagnostics, transportation, and entertainment. Learning about Embedded Systems will give the skills to design and manufacture embedded system products of the future which will help participants towards better employability. This course teaches embedded system design using a building block approach, which allows one to visualize the requirement of an embedded system and then to design it efficiently. The course will teach embedded system design using a microcontroller, namely Texas Instruments MSP430 low power microcontroller. The course will introduce various interfacing techniques for popular input devices including sensors, output devices and communication protocols. It will teach power supply design for embedded applications. It will also teach effective embedded programming techniques in C and how to maintain code using GIT. It will have a significant practical component, which will be achieved through a MSP430 microcontroller kit, to be distributed for free, to selected participants. Embedded C Programming is the soul of the processor functioning inside each and every embedded system. We come across in our daily life, such as mobile phones, washing machines, and digital cameras. Each processor is associated with embedded software. The first and foremost thing is the embedded software that decides to function of the embedded system. Embedded C language is most popularly used to program the microcontroller.



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COURSE CONTENTS

Module	Topic s	Duration
1	Embedded C: Introduction to C, Operators, Control Flow, Modular Programming, Preprocessor, Storage Classes, Arrays, Strings-Character Arrays	10hrs
2	IOT: Introduction to Arduino, interfacing sensors & actuators, Robotics, Communication Protocol Wifi, Bluetooth, Cloud interfacing and Android Appdevelopment. Project based learning (Peer Learning)	10hrs
3	MSP 430: Introduction, Internal architecture, ISA, ALP Programs, Step by Step Installation, Lunchbox Hardware, Sensors and Actuators.	4 hrs
4	Python Workshop: Basics of Python programming, Array, Stacked arrays, Pandas	6 hrs

COURSE OUTCOME

CO No.	At the end of the course, Students will be able to	Bloom's Level
CO1	Write the structured program to address the complex embedded systems applications	L3
CO2	Design a prototype of an IoT solution using sensor data, communication protocol, cloud, safety, and security risks.	L4
CO3	Explore the ISA and design the embedded systems	L3
CO4	Understand the programming concept of python to achieve the ability to apply that in real life	L3

Cognitive levels as per Bloom's Taxonomy: L1-Remembering, L2-Understanding, L3-Applying, L4-Analyzing, L5-Evaluating & L6-Creating


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Mapping of COs with POs (Course articulation matrix)

	Engineering Knowledge	Problem Analysis	Design & Development of Solutions	Conduct Investigations of Complex Problems	Usage of Modern Tools	Engineer & Society	Environment Sustainability	Ethics	Individual & Team Work	Communication	Project Management Finance	Life-long Learning		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2		2	2				2				3	2
CO2	2	2	2		2				2				3	2
CO3	2				2				2				3	2
CO4	2	2	2		2				2				3	2

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COURSE DELIVERY SCHEDULE

Module	Topics Covered	Faculty	Mode of Delivery	Date on which topics covered	
				3A	3B
1	Introduction to C,	Mr. Shrvan, Asst. Professor, ECE Dept.	PPT	20-02-23	21-02-23
1	Operators,		PPT	20-02-23	21-02-23
1	Control Flow,		PPT	20-02-23	21-02-23
1	Modular Programming,		PPT	20-02-23	21-02-23
1	Preprocessor,		Hands-on	21-02-23	22-02-23
1	Storage Classes,		Hands-on	21-02-23	22-02-23
1	Arrays,		Hands-on	21-02-23	22-02-23
1	Strings-Character Arrays		Hands-on	21-02-23	22-02-23
1	Exercise		Hands-on	21-02-23	22-02-23
1	Exercise		Hands-on	21-02-23	22-02-23
2	Introduction to Arduino,	Mr. Sandesh kumar, Sr. Assistant Professor and Ms. Pavithra Poornima S, Asst. Professor, ECE Dept.	PPT	21-02-23	20-02-23
2	Interfacing sensors		PPT	21-02-23	20-02-23
2	Interfacing actuators,		PPT	21-02-23	20-02-23
2	Robotics,		PPT	21-02-23	20-02-23
2	Communication Protocol Wifi, Bluetooth,		Hands-on	21-02-23	20-02-23
2	Cloud interfacing		Hands-on	22-02-23	20-02-23
2	Android App development.		Hands-on	22-02-23	20-02-23
2	Project based learning (Peer Learning)		Hands-on	22-02-23	20-02-23
2	Project based learning (Peer Learning)		Hands-on	22-02-23	20-02-23
2	Project based learning (Peer Learning)		Hands-on	22-02-23	20-02-23
3	Introduction,	Ms. Vimitha, Asst. Professor, ECE Dept.	PPT	20-02-23	21-02-23
3	Internal architecture,		PPT	20-02-23	21-02-23
3	ISA,		PPT	20-02-23	21-02-23
3	ALP Programs,		PPT	20-02-23	21-02-23
3	Step by Step Installation,		Hands-on	20-02-23	21-02-23
3	Lunchbox Hardware,		Hands-on	20-02-23	21-02-23
3	Sensors		Hands-on	20-02-23	21-02-23
3	Actuators.		Hands-on	20-02-23	21-02-23
3	Exercise		Hands-on	20-02-23	21-02-23
3	Exercise		Hands-on	20-02-23	21-02-23
4	Basics of Python programming	Ms. Sheela, Assistant professor & Ms. Ramya, Assistant professor Global Academy of Technology, Bangalore	Hands-on	23-02-23	23-02-23
4	Array		Hands-on	23-02-23	23-02-23
4	Stacked arrays		Hands-on	24-02-23	24-02-23
4	Pandas		Hands-on	24-02-23	24-02-23

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Attendance Sheet:

Sl No.	USN	Student Name	DAY1	DAY2	DAY3	DAY 4	DAY5
1.	4MW21EC00 4	ADITHYA NAYAK	P	P	P	P	P
2.	4MW21EC00 1	ABHISHEK KUMAR	P	P	P	P	P
3.	4MW21EC00 2	ABHISHEK P S	P	P	A	A	A
4.	4MW21EC00 3	ADITHI G RAO	A	A	P	P	P
5.	4MW21EC00 5	ADVITHA NAYAK	P	P	P	P	P
6.	4MW21EC00 6	AJAAY MADHAV RAO	P	P	P	P	P
7.	4MW21EC00 7	AKSHATA MURALIDHARA BAIL	A	P	P	P	P
8.	4MW21EC00 8	AKSHAY V PRABHU	P	P	P	P	P
9.	4MW21EC00 9	ANAGHA BHAT S	A	P	P	P	P
10.	4MW21EC01 0	ANANYA K	P	P	P	P	P
11.	4MW21EC011	AYSHA RIFA MOZZAU	P	P	P	P	P
12.	4MW21EC01 2	B CHAITHRA	P	P	P	A	P
13.	4MW21EC01 3	CHAITANYA ANANT NILEKANI	P	P	P	P	P
14.	4MW21EC01 4	CHARAN S RAO	P	A	A	P	P
15.	4MW21EC01 5	CHETAN PANDURANG NAIK	P	P	P	P	P
16.	4MW21EC01 6	CETHAN	A	A	A	A	A
17.	4MW21EC01 7	DARSHAN	A	A	A	P	P
18.	4MW21EC01 8	DHANUSH (DEVADAS SHASTRI)	P	P	P	P	P
19.	4MW21EC01 9	DHANUSH KUMAR (UDAYA KUMAR)	P	P	P	P	P
20.	4MW21EC02 0	DISHA	A	A	A	P	A
21.	4MW21EC02 1	GAUTHAM G ACHARYA	P	P	P	P	P
22.	4MW21EC02 2	HARSHITH ACHARYA	P	A	P	P	P


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23.	4MW21EC023	K SUDEEPA HEBBAR	A	P	P	P	P
24.	4MW21EC024	KASHYAP H HEBBAR	P	P	A	P	A
25.	4MW21EC025	KAVYA	P	P	P	P	P
26.	4MW21EC026	KAVYA (BHASKAR POOJARY)	P	P	P	P	P
27.	4MW21EC027	KEERTHANA K	A	P	A	A	P
28.	4MW21EC028	KIRAN	A	P	P	P	P
29.	4MW21EC029	KOUSHIK ADIGA P	P	P	P	P	P
30.	4MW21EC030	KRITHI KULAL	P	A	P	P	P
31.	4MW21EC031	MANOJ HERLE G	P	P	A	P	P
32.	4MW21EC032	NAYAK ADITYA	A	P	P	P	P
33.	4MW21EC033	NEHA Y BANGERA	A	A	A	A	A
34.	4MW21EC034	NIREEKSHA J	A	P	A	P	A
35.	4MW21EC035	NISHANTH N NAYAK	A	P	A	P	A
36.	4MW21EC036	NISHMITHA	A	A	A	A	A
37.	4MW21EC037	NITHIN WAGLE	A	P	A	P	A
38.	4MW21EC038	ITYASHREE NARAYAN HARIKANTRA	P	A	P	P	A
39.	4MW21EC039	PALLAVI G NAYAK	A	P	A	P	P
40.	4MW21EC040	POOJARY VAIBHAV CHANDRASHEKHAR	A	P	P	P	P
41.	4MW21EC041	POORNESHA BHAT A	P	P	P	P	P
42.	4MW21EC042	PRABHU SUSHMA SUBRAMANYA	P	P	P	P	P
43.	4MW21EC043	PRAJNA PUNYA	P	P	P	P	P
44.	4MW21EC043	PRAJNA PUNYA	P	P	P	P	P

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45.	4MW21EC045	PRATHAM D POOJARY	P	P	P	P	P
46.	4MW21EC046	PRATHIKSHA	P	P	P	P	P
47.	4MW21EC047	PRERANA RATTIHALI	P	P	P	P	P
48.	4MW21EC048	RAKSHITH PRABHU	P	P	P	P	P
49.	4MW21EC049	RANJITH P	P	P	P	P	P
50.	4MW21EC050	RIA SHETTY	P	P	P	P	P
51.	4MW21EC051	RITIKA	P	P	P	P.	P
52.	4MW21EC052	SAHAJ G SHETTY	P	P	P	P	P
53.	4MW21EC053	SAMSON FRANCIS CASTELINO	P	P	P	P	P
54.	4MW21EC054	SAMYUKTHA SHETTY	P	P	P	P	P
55.	4MW21EC055	SANDARSHA SHETTY	A	A	A	A	P
56.	4MW21EC056	SHARMIL A	P	A	P	P	P
57.	4MW21EC057	SHASHANK Y S	P	P	P	P	P
58.	4MW21EC058	SHASHANKA G	P	P	P	P	P
59.	4MW21EC059	SHIVANI S RAO	P	P	P	P	P
60.	4MW21EC060	SHRAVYA	P	P	P	P	P
61.	4MW21EC061	SHREEHARSHA GIRISH GUNAGA	P	P	P	P	P
62.	4MW21EC062	SHREEVATSA	P	A	P	P	P
63.	4MW21EC063	SHREYA	P	P	P	P	P
64.	4MW21EC064	SHRIDEVI	P	P	P	P	P
65.	4MW21EC065	SPOORTHY S N	P	P	P	P	P


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66	4MW21EC0 66	SUDEEP S BANGERA	P	P	P	P	P
67	4MW21EC0 67	SUDEEP SANJEEV SHETTY	P	P	P	P	P
68	4MW21EC0 68	SUNIDHI BHAT	P	P	P	P	P
69	4MW21EC0 69	SUSHMITHA	P	P	P	P	P
70	4MW21EC0 70	T N RAKSHITHA RAO	P	P	P	P	P
71	4MW21EC0 71	TEJU PATEL R	P	P	P	P	P
71	4MW21EC0 72	THOWQEER AHAMED	P	P	P	P	P
73	4MW21EC0 73	U ASHLESH KUMAR	P	P	P	P	P
74	4MW21EC0 74	VAIBHAVLAX MI K MORAB	P	P	P	P	P
75	4MW21EC0 75	VAISHNAVI S	P	P	P	P	P
76	4MW21EC0 76	VARDHAN	A	A	A	A	P
77	4MW21EC0 77	VARSH A	P	A	P	P	P
78	4MW21EC0 78	VEDA	P	P	P	P	P
79	4MW21EC0 79	VIGNESH V AMIN	P	P	P	P	P
80	4MW21EC0 80	VINAYACHA NDRA	P	P	P	P	P
81	4MW21EC0 81	VINEET HA NAYAK	P	P	P	P	P
82	4MW21EC0 82	VIOLA NIKITA MENDONCA	P	P	P	P	P
83	4MW21EC0 83	YATIN	P	A	P	P	P
84	4MW21EC0 84	YOGESH P MAGI	P	P	P	P	P

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Assessment Schedule

Date	Module Assessed	Assessment Tool Used
22/02/2023	Module 1	Assignment – 1
22/02/2023	Module 2	Assignment – 2
22/02/2023	Module 3	Assignment – 3
24/02/2023	Module 4	Assignment – 4

Assessment Details

Sl No.	USN	Student Name	Module 1 (10M)	Module 2 (10M)	Module 3 (10M)	Module 4 (10M)	Total Marks (40M)
1.	4MW21EC004	ADITHYA NAYAK	10	10	10	10	40
2.	4MW21EC001	ABHISHEK KUMAR	10	10	10	10	40
3.	4MW21EC002	ABHISHEK P S	10	10	10	10	40
4.	4MW21EC003	ADITHI G RAO	10	10	10	10	40
5.	4MW21EC005	ADVITHA NAYAK	10	10	10	10	40
6.	4MW21EC006	AJAAY MADHAV RAO	10	10	10	10	40
7.	4MW21EC007	AKSHATA MURALIDHARA BAILOOR	10	10	10	10	40
8.	4MW21EC008	AKSHAY V PRABHU	10	10	10	10	40
9.	4MW21EC009	ANAGHA BHAT S	10	10	10	10	40
10.	4MW21EC010	ANANYA K	10	10	10	10	40
11.	4MW21EC011	AYSHA RIFA MOZZAUM	10	10	10	10	40
12.	4MW21EC012	B CHAITHRA	10	10	10	10	40
13.	4MW21EC013	CHAITANYA ANANT NILEKANI	10	10	10	10	40
14.	4MW21EC014	CHARAN S RAO	10	10	10	10	40
15.	4MW21EC015	CHETAN PANDURANG NAIK	10	10	10	10	40
16.	4MW21EC016	CHETHAN	10	10	10	10	40

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17.	4MW21EC017	DARSHAN	10	10	10	10	40
18.	4MW21EC018	DHANUSH (DEVADAS SHASTRI)	10	10	10	10	40
19.	4MW21EC019	DHANUSH KUMAR (UDAYA KUMAR)	10	10	10	10	40
20.	4MW21EC020	DISHA	10	10	10	10	40
21.	4MW21EC021	GAUTHAM G ACHARYA	10	10	10	10	40
22.	4MW21EC022	HARSHITH ACHARYA	10	10	10	10	40
23.	4MW21EC023	K SUDEEPA HEBBAR	10	10	10	10	40
24.	4MW21EC024	KASHYAP H HEBBAR	10	10	10	10	40
25.	4MW21EC025	KAVYA	10	10	10	10	40
26.	4MW21EC026	KAVYA (BHASKAR POOJARY)	10	10	10	10	40
27.	4MW21EC027	KEERTHANA K	10	10	10	10	40
28.	4MW21EC028	KIRAN	10	10	10	10	40
29.	4MW21EC029	KOUSHIK ADIGA P	10	10	10	10	40
30.	4MW21EC030	KRITHI KULAL	10	10	10	10	40
31.	4MW21EC031	MANOJ HERLE G	10	10	10	10	40
32.	4MW21EC032	NAYAK ADITYA	10	10	10	10	40
33.	4MW21EC033	NEHA Y BANGERA	10	10	10	10	40
34.	4MW21EC076	VARDHAN	10	10	10	10	40
35.	4MW21EC077	VARSHA	10	10	10	10	40
36.	4MW21EC036	NISHMITHA	10	10	10	10	40
37.	4MW21EC037	NITHIN WAGLE	10	10	10	10	40
38.	4MW21EC038	NITYASHREE NARAYAN HARIKANTRA	10	10	10	10	40
39.	4MW21EC039	PALLAVI G NAYAK	10	10	10	10	40
40.	4MW21EC040	POOJARY VAIBHAV CHANDRASHEKHAR	10	10	10	10	40
41.	4MW21EC041	POORNESHA BHAT A	10	10	10	10	40
42.	4MW21EC042	PRABHU SUSHMA SUBRAMANYA	10	10	10	10	40
43.	4MW21EC043	PRAJNA PUNYA	10	10	10	10	40
44.	4MW21EC043	PRAJNA PUNYA	10	10	10	10	40
45.	4MW21EC045	PRATHAM D	10	10	10	10	40

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		POOJARY					
46.	4MW21EC046	PRATHIKSHA	10	10	10	10	40
47.	4MW21EC047	PRERANA RATTIHALLI	10	10	10	10	40
48.	4MW21EC048	RAKSHITH PRABHU	10	10	10	10	40
49.	4MW21EC049	RANJITH P	10	10	10	10	40
50.	4MW21EC050	RIA SHETTY	10	10	10	10	40
51.	4MW21EC051	RITIKA	10	10	10	10	40
52.	4MW21EC052	SAHAJ G SHETTY	10	10	10	10	40
53.	4MW21EC053	SAMSON FRANCIS CASTELINO	10	10	10	10	40
54.	4MW21EC054	SAMYUKTHA SHETTY	10	10	10	10	40
55.	4MW21EC055	SANDARS HA SHETTY	10	10	10	10	40
56.	4MW21EC056	SHARMILA	10	10	10	10	40
57.	4MW21EC057	SHASHANK Y S	10	10	10	10	40
58.	4MW21EC058	SHASHANKA G	10	10	10	10	40
59.	4MW21EC059	SHIVANI S RAO	10	10	10	10	40
60.	4MW21EC060	SHRAVYA	10	10	10	10	40
61.	4MW21EC061	SHREEHARSHA GIRISH GUNAGA	10	10	10	10	40
62.	4MW21EC062	SHREEVATSA	10	10	10	10	40
63.	4MW21EC063	SHREYA	10	10	10	10	40
64.	4MW21EC064	SHRIDEVI	10	10	10	10	40
65.	4MW21EC065	SPOORTHY S N	10	10	10	10	40
66.	4MW21EC066	SUDEEP S BANGERA	10	10	10	10	40
67.	4MW21EC067	SUDEEP SANJEEV SHETTY	10	10	10	10	40
68.	4MW21EC068	SUNIDHI BHAT	10	10	10	10	40
69.	4MW21EC069	SUSHMITHA	10	10	10	10	40
70.	4MW21EC070	T N RAKSHITHA RAO	10	10	10	10	40
71.	4MW21EC071	TEJU PATEL R	10	10	10	10	40
71.	4MW21EC072	THOWQEER AHAMED	10	10	10	10	40
73.	4MW21EC073	U ASHLESH KUMAR	10	10	10	10	40
74.	4MW21EC074	VAIBHAVLAXMI K MORAB	10	10	10	10	40

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75	4MW21EC075	VAISHNAVI S	10	10	10	10	40
76	4MW21EC076	VARDHAN	10	10	10	10	40
77	4MW21EC077	VARSHA	10	10	10	10	40
78	4MW21EC078	VEDA	10	10	10	10	40
79	4MW21EC079	VIGNESH V AMIN	10	10	10	10	40
80	4MW21EC080	VINAYACHANDRA	10	10	10	10	40
81	4MW21EC081	VINEETHA NAYAK	10	10	10	10	40
82	4MW21EC082	VIOLA NIKITA MENDONCA	10	10	10	10	40
83	4MW21EC083	YATIN	10	10	10	10	40
84	4MW21EC084	YOGESH P MAGI	10	10	10	10	40

Attainment

CO	Module	Assessment Tool Used	Bloom's Level	Marks allotted	Total Marks	Weightage	Attainment Level
CO 1	1	Assignment	L3	10	10	1	3
CO 2	2	Assignment	L3	10	10	1	3
CO 3	3	Assignment	L3	10	10	1	3
CO4	4	Assignment	L3	10	10	1	3

Principals

Principal

SHRI MADHWA VADIRAJA
INSTITUTE OF TECHNOLOGY & MANAGEMENT
Vishwothama Nagar, Udipi Dist.
BANTAKAL - 574 115

Other Information about the course

Target Audience	3 rd Semester
Total number of Students enrolled for this course	81
Total number of classes held	30hrs
Portion coverage	100
Student's feedback	-
Expenditure for this course	-
Details of the e-content developed	-

Comments/Suggestions by the Course Coordinator

Comment/Observations	Suggested Actions
Students participation were good and learnt some useful skillfor their placement point of view	Proposed syllabus can be delivered in 2 phases. In phase 1 focusing only on C and Embedded C portion [Module 1] In phase 2 focusing only on module 2 ,module 3 and module 4

Signature of

Course Coordinator

Date:

For povitres . s.pocnima .
D.P.B.

H O D

Date:

Head

Dept of E&C Enng.
SMVITM, BANTAKAL - 574 115
15

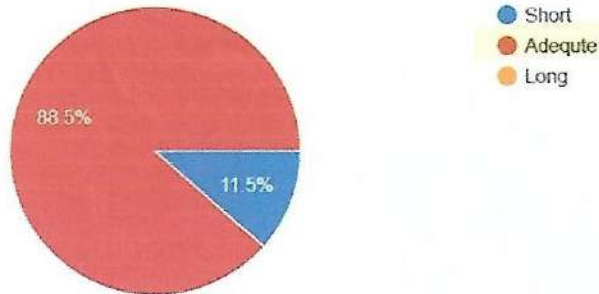
Principal

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Students Feedback for the syllabus

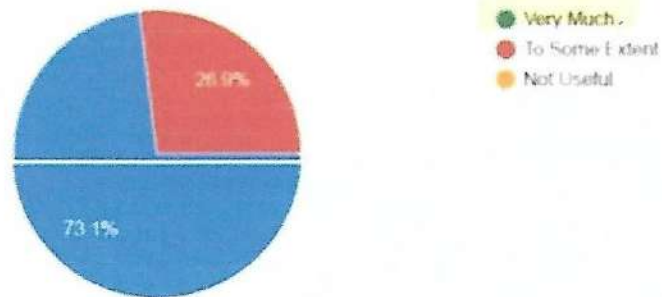
What is your opinion about the duration of Program?

26 responses



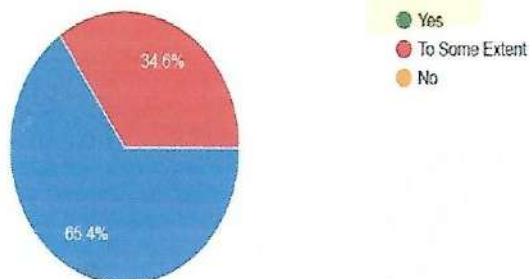
Did you find the Program useful?

26 responses



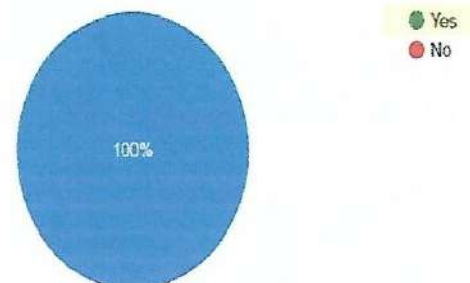
Did it fulfill your expectations?

26 responses

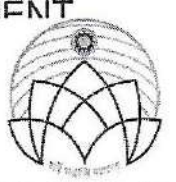


Will you Attend Similar Programs in future if conducted

26 responses




Principal
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Vishwothama Nagar, Udupi Dist.
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Dr. Guruprasad
Associate Professor and Head

25th February, 2023

Ms. Pavithra Poornima S,
Department of ECE
SMVITM, Bantakal

Dear Madam,


Subject: Letter of Appreciation

This is to place on record my sincere appreciation and compliments to Ms. Pavithra Poornima for conducting an Value Added Course on "IOT & Embedded System" held between 20/02/2023 to 24/02/2023 in the institute premises for the benefit of students. The course went on well and received much appreciation from the students.

We look forward to your continued support for the similar events in the days to come.

Thanking you

With best regards

HOD, ECE  Head
Dept of E&C Engg.
SMVITM, BANTAKAL - 574 115


Principal
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INSTITUTE OF TECHNOLOGY & MANAGEMENT
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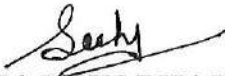
SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust, Udupi
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Vishwothama Nagar, Bantakal, Udupi 574115, Karnataka, India



CERTIFICATE

This is to certify that **B. CHAITRA** of Electronics and Communication Engineering Department has successfully completed value added course on IOT and EMBEDDED SYSTEM at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal on 20-02-2022 to 24-02-2022


DR. SACHIN BHAT
HOD, ECE
Dept of E&C Engg.


DR. THIRUMALESHWARA BHAT
Principal
SHRI MADHWA VADIRAJA
INSTITUTE OF TECHNOLOGY & MANAGEMENT
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