

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust®, Udupi)

Accredited by NAAC with 'A' grade | Affiliated to VTU, Belagavi

Approved by AICTE, New Delhi & Recognized by Govt. of Karnataka

Vishwothama Nagar, Bantakal - 574115, Udupi District, Karnataka.



SMVITM

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Student list of Value-added Course on IoT AND EMBEDDED SYSTEM USING PYTHON

SNo.	USN	Student Name	Signature
1.	4MW21EC002	ABHISHEK P S	<i>Abhishek</i>
2.	4MW21EC003	ADITHI G RAO	<i>Adithi</i>
3.	4MW21EC004	ADITHYA NAYAK	<del>Adithya</del> <i>Adithya</i>
4.	4MW21EC005	ADVITHA NAYAK	<i>Advitha</i>
5.	4MW21EC006	AJAAY MADHAV RAO	<i>Ajay</i>
6.	4MW21EC007	AKSHATA MURALIDHARA BAILOOR	<i>Akshata</i>
7.	4MW21EC008	AKSHAY V PRABHU	<i>Akshay</i>
8.	4MW21EC009	ANAGHA BHAT S	<i>Anagha</i>
9.	4MW21EC010	ANANYA K	<i>Ananya</i>
10.	4MW21EC011	AYSHA RIFA MOZZAUM	<i>Aysha</i>
11.	4MW21EC012	B CHAITHRA	<i>Chaithra</i>
12.	4MW21EC013	CHAITANYA ANANT NILEKANI	<i>Chaitanya</i>
13.	4MW21EC014	CHARAN S RAO	<i>Charan</i>
14.	4MW21EC015	CHETAN PANDURANG NAIK	<i>Chetan</i>
15.	4MW21EC016	CHETHAN	<i>Chethan</i>
16.	4MW21EC017	DARSHAN	<i>Darshan</i>
17.	4MW21EC018	DHANUSH (DEVADAS SHASTRI)	<i>Dhanush</i>
18.	4MW21EC019	DHANUSH KUMAR (UDAYA KUMAR)	<i>Dhanush Kumar</i>
19.	4MW21EC020	DISHA	<i>Disha</i>
20.	4MW21EC021	GAUTHAM G ACHARYA	<i>Gautham</i>
21.	4MW21EC022	HARSHITH ACHARYA	<i>Harshith</i>
22.	4MW21EC023	K SUDEEPA HEBBAR	<i>Sudeep</i>
23.	4MW21EC024	KASHYAP H HEBBAR	<i>Kashyap</i>
24.	4MW21EC025	KAVYA	<i>Kavya</i>
25.	4MW21EC026	KAVYA (BHASKAR POOJARY)	<i>Kavya</i>
26.	4MW21EC027	KEERTHANA K	<i>Keerthana</i>
27.	4MW21EC028	KIRAN	<i>Kiran</i>
28.	4MW21EC029	KOUSHIK ADIGA P	<i>Koushik</i>
29.	4MW21EC030	KRITHI KULAL	<i>Krithi</i>

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	4MW21EC030		
30.	4MW21EC031	MANOJ HERLE G	Manoj
31.	4MW21EC032	NAYAK ADITYA	Aditya
32.	4MW21EC033	NEHA Y BANGERA	Neha
33.	4MW21EC034	NIREEKSHA J	Nireeksha
34.	4MW21EC035	NISHANTH N NAYAK	Nishanth
35.	4MW21EC036	NISHMITHA	Nishmitha
36.	4MW21EC037	NITHIN WAGLE	Nithin
37.	4MW21EC038	NITYASHREE NARAYAN HARIKANTRA	Nityashree
38.	4MW21EC039	PALLAVI G NAYAK	Pallavi
39.	4MW21EC040	POOJARY VAIBHAV CHANDRASHEKHAR	Vaibhav
40.	4MW21EC041	POORNESHA BHAT A	Poornesh
41.	4MW21EC042	PRABHU SUSHMA SUBRAMANYA	Prabhushma
42.	4MW21EC043	PRAJNA PUNYA	Prajna
43.	4MW20EC071	MAYUR	Mayur
44.	4MW21EC044	PRAJWAL A NAYAK	Prajwal
45.	4MW21EC045	PRATHAM D POOJARY	Pratham
46.	4MW21EC046	PRATHIKSHA	Prathiksha
47.	4MW21EC047	PRERANA RATTIHALLI	Prerana
48.	4MW21EC048	RAKSHITH PRABHU	Rakshith
49.	4MW21EC049	RANJITH P	Ranjith P
50.	4MW21EC050	RIA SHETTY	Ria
51.	4MW21EC051	RITIKA	Ritika
52.	4MW21EC052	SAHAJ G SHETTY	Sahaj Shetty
53.	4MW21EC053	SAMSON FRANCIS CASTELINO	Samson
54.	4MW21EC054	SAMYUKTHA SHETTY	Samyuktha Shetty
55.	4MW21EC055	SANDARSHA SHETTY	Sandarsha Shetty
56.	4MW21EC056	SHARMILA	Sharmilana
57.	4MW21EC057	SHASHANK Y S	Shashank
58.	4MW21EC058	SHASHANKA G	Shashanka
59.		SHIVANI S RAO	Shivani

	4MW21EC059		
60.	4MW21EC060	SHRAVYA	Shravya
61.	4MW21EC061	SHREEHARSHA GIRISH GUNAGA	Shresh
62.	4MW21EC062	SHREEVATSA	Shreevatsa
63.	4MW21EC063	SHREYA	Shreya
64.	4MW21EC064	SHRIDEVI	Shridevi
65	4MW21EC065	SPOORTHY S N	Spoorthy
65	4MW21EC066	SUDEEP S BANGERA	Sudeep
66	4MW21EC067	SUDEEP SANJEEV SHETTY	Sudeep
67	4MW21EC068	SUNIDHI BHAT	Sunidhi Bhat
68	4MW21EC069	SUSHMITHA	Sushmita
69.	4MW21EC070	T N RAKSHITHA RAO	Rakshi
70	4MW21EC071	TEJU PATEL R	Teju
71	4MW21EC072	THOWQEER AHAMED	Thowqeer
72	4MW21EC073	U ASHLESH KUMAR	Ashlesh
73	4MW21EC074	VAIBHAVLAXMI K MORAB	Vaibhav
74	4MW21EC075	VAISHNAVI S	Vaishnavi
75	4MW21EC076	VARDHAN	Vardhan
76	4MW21EC077	VARSHA	Varsha
77	4MW21EC078	VEDA	Veda
78	4MW21EC079	VIGNESH V AMIN	Vignesh
79	4MW21EC080	VINAYACHANDRA	Vinayachandra
80	4MW21EC081	VINEETHA NAYAK	Vineetha
81	4MW21EC082	VIOLA NIKITA MENDONCA	Viola
82	4MW21EC083	YATIN	Yatin
83	4MW21EC084	YOGESH P MAGI	Yogesh
84	4MW20EC053	SAVEN KUMAR	Saven
85	4MW22EC402	NAGARAJ S NAYAK	Nagaraj

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## COURSE CONTENTS

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

SI 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*

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## 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  
Head  
Dept of E&C Engg.

  
**DR. THIRUMALESHWARA BHAT**  
Principal  
SHRI MADHWA VADIRAJA  
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