



Add-on Course  
On  
**“Firmware development using Embedded C with Microcontroller”**  
25<sup>th</sup> to 30<sup>th</sup> MAR 2024



Organized by,  
**Department of Electronics and Communication Engineering,**  
**Adichunchanagiri Institute of Technology,**  
**Chikmagalur – 577102**  
**Karnataka, India**  
[www.aitechmagalur.ac.in](http://www.aitechmagalur.ac.in)

**About the College:**  
**Adichunchanagiri Institute of Technology (AIT)** was established in the year 1980 under the auspicious of **Adichunchanagiri Shikshana Trust(R)** with the blessings of **Bhairavaikya Jagadguru Padmabhushana Sri Sri Sri Dr. Balagangadharanatha Mahaswamiji** to provide technical and other professional education in the rural area of Chikmagalur, the land of Coffee. With the blessings of **Jagadguru Sri. Sri. Sri. Nirmalanandanatha Swamiji**, AIT is imparting the quality education in Engineering and Management with ethical and spiritual values.

**About the Department:**

The Department of **Electronics & communication Engineering** came into existence in the year **1981**. The department was under the affiliation of University of Mysore from 1981 to 1992 & under Kuvempu University from 1992 to 1998. Since 1998 the department is under the affiliation of Visvesvaraya Technological University. The PG programme includes M.Tech in Digital Electronics and Communication Systems which offers an experiential learning in advanced topics in engineering. The department is recognized as a research center under VTU and the research scholars from various colleges and industry are participating in active research.

**Objectives of the Add-on Course:**

This course provides an overview of the architecture of the microcontroller and will learn about the CPU, memory, I/O ports, and peripheral modules. Students will learn about skills in writing efficient and maintainable code in Embedded C and Understand data types, structures, pointers, and memory management specific to embedded systems and how they relate to read sensor data and control actuators. Students will experience about how to Utilize debugging tools and techniques, This will also enable them to write unit tests and integrate testing frameworks for firmware.

**Resource Person:**

The resource person from the academia with the long standing experience will deliver lectures during this course of programme.

**Chief Patron:**

Sri. Sri. Sri. Nirmalandanatha Swamiji, pontiff, Adichunchanagiri Maha Samsthana Matt.

**Patron:**

Sri. Sri. Gunanatha Samiji, Sringeri Shakha Matt.

**Organizing Chair:**

Dr. C.T Jayadeva, Principal, AIT, Chikmagalur.

**Convenor:**

**Professor & Head**  
**Dept. of Electronics & Communication Engg**  
**Adichunchanagiri Institute of Technology**  
**Chikmagalur - 577 102**

Dr. Goutham M.A, Professor and Head, Dept. of Electronics and Communication Engg.,

**Coordinator:**

Mr. Harish Kumar C.R, Asst Professor, Mr.RaghuKumar B.S, Asst Professor Dept. of Electronics and Communication Engg.,

**Address for Communication:**

Mr. Harish Kumar C.R, Asst Professor, Mr.RaghuKumar B.S, Asst Professor Dept. of Electronics and Communication Engg.,  
Adichunchanagiri Institute of Technology, Chikmagalur, Karnataka – 577102  
Mobile: 9964072122/9164280757  
Email: eclabait@gmail.com

**Department of Electronics and Communication Engineering,**

**Add-on Course**

On

**Firmware development using Embedded C with Microcontroller**  
25<sup>th</sup> to 30<sup>th</sup> MAR 2024

**Registration Form**

Name:

.....

Sem & Sec: .....

USN : .....

Department:.....

Mobile:

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E-mail:

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Address:

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Place:

Date:

Signature of the Applicant





## Add-On Course on “Firmware Development Using Embedded C With Microcontroller” during 25/03/2024 To 30/03/2024 (5 Days)

### Contents:

#### Day 1: Introduction to Embedded Systems & NodeMCU

- Introduction to Embedded Systems
- Overview of embedded systems
- Role of microcontrollers in IoT
- Key features of embedded C programming
- Introduction to NodeMCU
- Overview of NodeMCU architecture (ESP8266)
- GPIOs and peripheral support
- Setting up the development environment (IDE, toolchain)
- Hands-on: Getting Started with NodeMCU
- Flashing firmware and setting up basic communication
- Simple LED blinking program

#### Day 2: Embedded C Programming Basics

- Basics of Embedded C
- Introduction to C programming concepts specific to embedded systems
- Data types, variables, and memory management
- Control structures and functions
- Code optimization for embedded systems
- Working with GPIOs
- Controlling digital I/O pins
- Interfacing switches and LEDs
- Hands-on: GPIO Control
- Writing code for input/output operations using NodeMCU

#### Day 3: Advanced Peripherals & Communication Protocols

- Introduction to Serial Communication
- UART, SPI, and I2C protocols
- Communicating between NodeMCU and external devices
- Interfacing Sensors
- Connecting temperature, light, and motion sensors
- Reading data from analog and digital sensors
- Hands-on: Sensor Integration
- Writing embedded C code to collect sensor data via UART/I2C

#### Day 4: IoT Integration & Networking

- Introduction to IoT Protocols
- Basics of MQTT, HTTP, and TCP/IP
- Connecting NodeMCU to Wi-Fi
- Sending Data to Cloud Platforms
- Setting up a simple IoT cloud platform (e.g., Ubidots, ThingSpeak)
- Writing C code to send sensor data to the cloud
- Hands-on: Cloud Integration
- Building an application that sends real-time sensor data to the cloud

## Day 5: Project Development & Debugging

- Building IoT Projects
- Developing a complete IoT project (e.g., smart home, temperature monitoring system)
- Implementing cloud control and monitoring
- Debugging Embedded Systems
- Common errors and troubleshooting techniques in embedded C
- Practical tips for debugging hardware and software
- Hands-on: Complete Project Implementation
- Final project presentation and discussion

*Saunthara*

Professor & Head  
Dept. of Electrical & Information Engg  
National Institute of Technology  
Chennai



ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
STUDENTS ENROLLMENT LIST

ADD- ON COURSE : "FIRMWARE DEVELOPMENT USING EMBEDDED C WITH MICROCONTROLLER"

SL NO	USN	STUDENT NAME	SIGNATURE
1	4AI20EC001	ABHISHEK M KARIKATTI	
2	4AI20EC002	ABHISHEK NITHYA	
3	4AI20EC003	ABHISHEK PRAJAPATI	
4	4AI20EC004	ABHISHEK T C	
5	4AI20EC005	AKSHATHA K R	
6	4AI20EC006	ANOUSHKA T K	
7	4AI20EC007	ANUSHA G K	
8	4AI20EC008	ANUSHA K R	
9	4AI20EC009	ANUSHREE C J	
10	4AI20EC010	ARPITHA H S	
11	4AI20EC011	ASHWINI KALARI	
12	4AI20EC012	BASAVARAJU M M	
13	4AI20EC013	BHAGYA SHREE K R	
14	4AI20EC014	BHARATH A L	
15	4AI20EC015	BHARATH S	
16	4AI20EC016	BHOOMIKA B S	
17	4AI20EC017	BHOOMIKA B L	
18	4AI20EC018	BHOOMIKA P N	
19	4AI20EC019	BHUVANA T G	
20	4AI20EC020	CHARAN A	
21	4AI20EC021	CHETHANSHETTY C R	
22	4AI20EC023	DARSHAN M BANGRE	
23	4AI20EC024	DEEKSHITH L R	
24	4AI20EC025	DEEPIKA T	
25	4AI20EC026	GAGANA URS G S	
26	4AI20EC027	GIRIDHANYA C	
27	4AI20EC028	GOWTHAM P	
28	4AI20EC029	GREESHMA B R	
29	4AI20EC030	HANUMANTH J URS	
30	4AI20EC031	HARSHITHA M K	
31	4AI20EC032	HEMA C S	
32	4AI20EC033	JEEVAN KUMAR G P	
33	4AI20EC034	KARTHIK B S	
34	4AI20EC035	KAVANA S NAIK	
35	4AI20EC036	KAVYA K M	
36	4AI20EC037	KAVYASHREE URS C N	
37	4AI20EC038	KUSUMA B K	
38	4AI20EC039	LIKHITH H D	
39	4AI20EC040	MADAN C R	
40	4AI20EC042	MADHAN GOWDA M	
41	4AI20EC043	MAHASOOK AHMED	
42	4AI20EC044	MAHESH	



43	4AI20EC045	MANOJ KUMAR R S	R. S Manoj
44	4AI20EC046	MOHAMMED MOHTASHIM	Moh
45	4AI20EC047	MONISHA S	Monish
46	4AI20EC048	MOULYA	Moulya
47	4AI20EC049	MOUZIMA RUME	Mouzi
48	4AI20EC050	NADIYA IRAM	Nadiya
49	4AI20EC051	NAVEEN V HIREMATH	Naveen
50	4AI20EC052	NAVYA B K	Navya
51	4AI20EC053	NEHA M N	Neha
52	4AI20EC054	NIKHIL K S	Nikhil
53	4AI20EC055	NIKHITH R M	Nikhith
54	4AI20EC056	NIRIKSHA K G	Niriksha
55	4AI20EC115	PANCHAMI	Panchami
56	4AI21EC400	DEVIKA M U	Devika
57	4AI21EC401	MAGESH P	Magesh
58	4AI19EC086	SHIVAKUMAR AMBBAKKI	Shivakumar
58	4AI20EC057	NIRUPAM HEGDE M P	Nirupam
59	4AI20EC058	NISARGA S	Nisarga
60	4AI20EC059	NISARGAKANTH K L	Nisargakanth
61	4AI20EC060	NISCHITHA C V	Nischitha
62	4AI20EC061	NISCHITHA H S	Nischitha
63	4AI20EC062	NITHIN H M	Nithin
64	4AI20EC063	NITHIN N	Nithin
65	4AI20EC064	P V SAIGEETHIKA	P Saigeethika
66	4AI20EC065	PALLAVIS	Pallavi
67	4AI20EC066	POOJA MANJUNATH NAIK	Pooja
68	4AI20EC067	POOJASHREE M N	Poojashree
69	4AI20EC068	PRAGATHI S	Pragathi
70	4AI20EC069	PRAJWAL S L	Prajwal
71	4AI20EC070	PRANEETHA K	Praneetha
72	4AI20EC071	PREKSHA C Y	Preksha
73	4AI20EC072	R PRATHIK	R Prathik
74	4AI20EC073	RAHUL B N	Rahul
75	4AI20EC074	RAKSHITH K	Rakshith
76	4AI20EC075	RAKSHITH N P	Rakshith
77	4AI20EC076	RUDRESH L S	Rudresh
78	4AI20EC077	S V UNNATHI	S Unnathi
79	4AI20EC078	SAFA ALI	Safa
80	4AI20EC080	SANMATHI H M	Sanmathi
81	4AI20EC081	SHABAZ KHAN	Shabaz
82	4AI20EC082	SHAKTHI B S	Shakthi
83	4AI20EC083	SHEETHAL M	Sheethal
84	4AI20EC084	SHREE SAMEEHANA R	Shree Sameehana
85	4AI20EC085	SHREE VISHNU N V	Shree Vishnu
86	4AI20EC086	SHREYA B M	Shreya
87	4AI20EC087	SHWETHA H S	Shwetha
88	4AI20EC088	SNEHA N S	Sneha

89	4AI20EC089	SONIKA H P	<i>Sonika H P</i>
90	4AI20EC090	SPOORTHI D N	<i>Spoorthi D N</i>
91	4AI20EC091	SRUJAN K J	<i>Srujan K J</i>
92	4AI20EC092	SRUSTI B A	<i>Srusti B A</i>
93	4AI20EC093	SUDEEP K P	<i>Sudeep K P</i>
94	4AI20EC094	SUGAM GANESH K S	<i>Sugam G K S</i>
95	4AI20EC095	SUGAM K N	<i>Sugam K N</i>
96	4AI20EC096	SUJAY URS C B	<i>Sujay U R C B</i>
97	4AI20EC097	SUKHI D	<i>Sukhi D</i>
98	4AI20EC098	SWAMY KOTRESH B	<i>Swamy Kotresh B</i>
99	4AI20EC099	SWARNA GOWRI K S	<i>Swarna G K S</i>
100	4AI20EC100	SWATHI B P	<i>Swathi B P</i>
101	4AI20EC101	SWATHISH H SHETTY	<i>Swathish H Shetty</i>
102	4AI20EC102	VAGDEVI M K	<i>Vagdevi M K</i>
103	4AI20EC103	VAISHNAVI S R	<i>Vaishnavi S R</i>
104	4AI20EC104	VARSHA C J	<i>Varsha C J</i>
105	4AI20EC105	VARSHINI S	<i>Varshini S</i>
106	4AI20EC106	VARSHITH D N	<i>Varshith D N</i>
107	4AI20EC107	VARSHITHA S V	<i>Varshitha S V</i>
108	4AI20EC108	VEDHASHREE C R	<i>Vedhashree C R</i>
109	4AI20EC109	VINAYAK BHYRESH ONIMANI	<i>Vinayak Bhyresh Onimani</i>
110	4AI20EC110	VINAYAKA M S	<i>Vinayaka M S</i>
111	4AI20EC111	VIVEK S M	<i>Vivek S M</i>
112	4AI20EC112	YASHWANTH K N	<i>Yashwanth K N</i>
113	4AI20EC113	YOGISH N S	<i>Yogish N S</i>
114	4AI21EC402	NANDASHREE A G	<i>Nandashree A G</i>
115	4AI21EC403	SAHANA K R	<i>Sahana K R</i>

*Sreeharsh*  
 Professor & Head  
 Dept. of Electronics & Communication E.  
 Adichunchanagiri Institute of Technology  
 Chikmagalur - 577 102



ADD-ON COURSE ON FIRMWARE DEVELOPMENT USING EMBEDDED C WITH MICROCONTROLLER

ATTENDANCE REPORT

FROM 25.03.2024 TO 30.03.2024 (5 DAYS)

VIII sem			25-Mar		26-Mar		27-Mar		28-Mar		30-Mar		SIGNATURE
Sl NO	Name	USN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
1	4AI20EC001	ABHISHEK M KARIKATTI	P	P	P	P	P	P	A	P	P	P	<i>Abhishek</i>
2	4AI20EC002	ABHISHEK NITHYA	P	P	P	P	P	P	P	P	P	P	<i>Abhishek</i>
3	4AI20EC003	ABHISHEK PRAJAPATI	P	A	P	P	P	P	A	P	P	P	<i>Abhishek</i>
4	4AI20EC004	ABHISHEK T C	P	P	P	P	P	P	P	P	P	P	<i>Abhishek</i>
5	4AI20EC005	AKSHITHA K R	P	P	P	P	P	P	P	P	P	P	<i>Akshitha</i>
6	4AI20EC006	ANOUSHKA T K	P	A	P	P	P	P	A	P	P	P	<i>Anoushka</i>
7	4AI20EC007	ANUSHA G K	P	P	P	P	P	P	P	P	P	A	<i>Anusha G.K.</i>
8	4AI20EC008	ANUSHA K R	P	P	P	P	P	P	P	P	P	P	<i>Anusha K.R.</i>
9	4AI20EC009	ANUSHREE C J	P	P	P	P	P	P	P	P	P	P	<i>Anushree C.J.</i>
10	4AI20EC010	ARPITHA H S	P	P	P	P	P	A	P	P	P	P	<i>Arpitha H.S.</i>
11	4AI20EC011	ASHWINI KALARI	P	P	P	P	P	P	P	P	P	P	<i>Ashwini Kalari</i>
12	4AI20EC012	BASAVARAJU M M	P	P	P	P	P	P	P	P	P	P	<i>Basavaraju M.M.</i>
13	4AI20EC013	BHAGYA SHREE K R	P	P	P	P	P	P	P	P	P	A	<i>Bhagya Shree K.R.</i>
14	4AI20EC014	BHARATH A L	P	P	P	P	P	P	P	P	P	P	<i>Bharath A.L.</i>
15	4AI20EC015	BHARATH S	P	P	P	P	P	P	P	P	P	P	<i>Bharath S.</i>
16	4AI20EC016	BHOOMIKA B S	P	P	A	P	P	P	P	P	P	P	<i>Bhoomika B.S.</i>
17	4AI20EC017	BHOOMIKA B L	P	P	P	P	P	P	P	P	P	P	<i>Bhoomika B.L.</i>
18	4AI20EC018	BHOOMIKA P N	P	P	P	P	P	P	P	P	P	P	<i>Bhoomika P.N.</i>
19	4AI20EC019	BHUVANA T G	P	P	P	P	P	P	P	P	P	P	<i>Bhuvana T.G.</i>
20	4AI20EC020	CHARAN A	P	P	P	P	P	P	P	P	P	P	<i>Charan A.</i>
21	4AI20EC021	CHETHANSHEETY C R	P	P	P	P	P	P	P	P	P	P	<i>Chethansheety C.R.</i>
22	4AI20EC023	DARSHAN M BANGRE	A	A	P	P	P	P	P	P	P	P	<i>Darshan M.Bangre</i>
23	4AI20EC024	DEEKSHITH L R	P	P	P	P	P	P	P	P	P	P	<i>Deekshith L.R.</i>
24	4AI20EC025	DEEPIKA T	P	P	P	P	P	P	P	P	P	P	<i>Deepika T.</i>
25	4AI20EC026	GAGANA URS G S	P	P	P	P	P	P	P	P	P	P	<i>Gagana URS G.S.</i>
26	4AI20EC027	GIRIDHANYA C	A	P	P	P	P	P	P	P	P	P	<i>Giridhanya C.</i>
27	4AI20EC028	GOWTHAM P	P	P	P	P	P	P	P	P	P	P	<i>Gowtham P.</i>



			25-Mar		26-Mar		27-Mar		28-Mar		30-Mar		SIGNATURE
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
28	4AI20EC029	GREESHMA B R	P	P	P	P	P	P	P	P	P	P	
29	4AI20EC030	HANUMANTH J URS	P	P	P	P	P	P	P	P	P	P	
30	4AI20EC031	HARSHITHA M K	P	P	P	P	P	P	P	P	P	P	
31	4AI20EC032	HEMA C S	P	P	P	P	P	P	P	P	P	P	
32	4AI20EC033	JEEVAN KUMAR G P	P	P	P	P	P	P	P	P	P	P	
33	4AI20EC034	KARTHIK B S	P	P	P	P	P	P	P	P	P	P	
34	4AI20EC035	KAVANA S NAIK	P	P	P	P	P	P	P	P	P	P	
35	4AI20EC036	KAVYA K M	P	P	P	P	P	P	P	P	P	P	
36	4AI20EC037	KAVYASHREE URS C N	P	P	P	P	P	P	P	P	P	P	
37	4AI20EC038	KUSUMA B K	P	P	P	P	P	P	P	P	P	P	
38	4AI20EC039	LIKHITH H D	P	P	P	P	P	P	P	P	P	P	
39	4AI20EC040	MADAN C R	P	P	P	P	P	P	P	P	P	P	
40	4AI20EC042	MADHAN GOWDA M	P	P	P	P	P	P	P	P	P	P	
41	4AI20EC043	MAHASOOK AHMED	P	P	P	P	P	P	P	P	P	P	
42	4AI20EC044	MAHESH	P	P	P	P	P	P	P	P	P	P	
43	4AI20EC045	MANOJ KUMAR R S	P	P	P	P	P	P	P	P	P	P	
44	4AI20EC046	MOHAMMED MOHTASHIM	P	P	P	P	P	P	P	P	P	P	
45	4AI20EC047	MONISHA S	P	P	P	P	P	P	P	P	P	P	
46	4AI20EC048	MOULYA	P	P	P	P	P	P	P	P	P	P	
47	4AI20EC049	MOUZIMA RUME	P	P	P	P	P	P	P	P	P	P	
48	4AI20EC050	NADIYA IRAM	P	P	P	P	P	P	P	P	P	P	
49	4AI20EC051	NAVEEN V HIREMATH	P	P	P	P	P	P	P	P	P	P	
50	4AI20EC052	NAVYA B K	P	P	P	P	P	P	P	P	P	P	
51	4AI20EC053	NEHA M N	P	P	P	P	P	P	P	P	P	P	
52	4AI20EC054	NIKHIL K S	P	P	P	P	P	P	P	P	P	P	
53	4AI20EC055	NIKHITH R M	P	P	P	P	P	P	P	P	P	P	
54	4AI20EC056	NIRIKSHA K G	P	P	P	P	P	P	P	P	P	P	
55	4AI20EC115	PANCHAMI	P	P	P	P	P	P	P	P	P	P	
56	4AI21EC400	DEVIKA M U	P	P	P	P	P	P	P	P	P	P	
57	4AI21EC401	MAGESH P	P	P	P	P	P	P	P	P	P	P	
58	4AI19EC086	SHIVAKUMAR AMBBAKKI	P	P	P	P	P	P	P	P	P	P	
59	4AI20EC057	NIRUPAM HEGDE M P	P	P	P	P	P	P	P	P	P	P	
60	4AI20EC058	NISARGA S	P	P	P	P	P	P	P	P	P	P	
61	4AI20EC059	NISARGAKANTH K L	P	P	P	P	P	P	P	P	P	P	
62	4AI20EC060	NISCHITHA C V	P	P	P	P	P	P	P	P	P	P	
63	4AI20EC061	NISCHITHA H S	P	P	P	P	P	P	P	P	P	P	
64	4AI20EC062	NITHIN H M	P	P	P	P	P	P	P	P	P	P	
65	4AI20EC063	NITHIN N	P	P	P	P	P	P	P	P	P	P	



VIII sem			25-Mar		26-Mar		27-Mar		28-Mar		30-Mar		SIGNATURE
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
66	4AI20EC064	P V SAIGBETHIKA	A	P	P	P	P	P	P	P	P	P	P V Saigbethika
67	4AI20EC065	PALLAVIS	P	P	P	P	P	P	P	P	P	P	Pallavis
68	4AI20EC066	POOJA MANJUNATH NAIK	P	P	P	P	A	P	P	P	P	P	Pooja
69	4AI20EC067	POOJASHREE M N	P	P	A	P	P	P	P	P	P	P	Poojashree
70	4AI20EC068	PRAGATHI S	P	P	P	P	A	P	P	P	P	P	Pragathi
71	4AI20EC069	PRAJWAL S L	P	A	P	P	P	P	P	P	P	P	Prajwal
72	4AI20EC070	PRANEETHA K	P	P	P	P	P	A	P	P	P	P	Praneetha
73	4AI20EC071	PREKSHA C Y	P	P	P	P	A	P	P	P	P	P	Preksha
74	4AI20EC072	R PRATHIK	P	A	P	P	P	P	P	P	P	P	R Prathik
75	4AI20EC073	RAHUL B N	P	P	P	P	P	A	P	P	P	P	Rahul
76	4AI20EC074	RAKSHITH K	P	P	P	P	A	P	P	P	P	P	Rakshith
77	4AI20EC075	RAKSHITH N P	P	P	P	P	P	P	P	A	P	P	Rakshith
78	4AI20EC076	RUDRESH L S	P	A	P	P	P	P	P	P	P	P	Rudresh
79	4AI20EC077	S V UNNATHI	P	P	P	A	P	P	P	P	P	P	S V Unnathi
80	4AI20EC078	SAFA ALI	P	P	P	P	P	P	P	A	P	P	Safa Ali
81	4AI20EC080	SANMATHI H M	P	A	P	P	P	A	P	P	P	P	Sanmathi
82	4AI20EC081	SHABAZ KHAN	P	P	P	A	P	P	P	P	P	P	Shabaz
83	4AI20EC082	SHAKTHI B S	P	P	P	P	P	A	P	P	P	P	Shakthi
84	4AI20EC083	SHEETHAL M	P	P	P	A	P	P	P	P	P	P	Sheetal
85	4AI20EC084	SHREE SAMEEHANA R	P	P	P	P	A	P	P	P	P	P	Shree Sameehana
86	4AI20EC085	SHREE VISHNU N V	P	P	P	P	P	A	P	P	P	P	Shree Vishnu
87	4AI20EC086	SHREYA B M	P	A	P	P	P	P	P	P	P	P	Shreya
88	4AI20EC087	SHWETHA H S	P	P	P	A	P	P	P	P	P	P	Shwetha
89	4AI20EC088	SNEHA N S	P	P	P	P	A	P	P	P	P	P	Sneha
90	4AI20EC089	SONIKA H P	P	P	P	P	P	A	P	P	P	P	Sonika
91	4AI20EC090	SPOORTHI D N	P	A	P	P	P	P	P	P	P	P	Spoorthi
92	4AI20EC091	SRUJAN K J	P	P	P	P	A	P	P	P	P	P	Srujan
93	4AI20EC092	SRUSTI B A	P	P	A	P	P	P	A	P	P	P	Srusti
94	4AI20EC093	SUDEEP K P	P	P	P	A	P	P	A	P	P	P	Suddeep K.P.
95	4AI20EC094	SUGAM GANESH K S	P	P	P	P	A	P	P	P	P	P	Sugam
96	4AI20EC095	SUGAM K N	P	P	P	P	P	A	P	P	P	P	Sugam
97	4AI20EC096	SUJAY URS C B	P	P	A	P	P	P	P	P	P	P	Sujay
98	4AI20EC097	SUKHI D	P	P	P	P	A	P	P	P	P	P	Sukhi
99	4AI20EC098	SWAMY KOTRESH B	P	P	P	P	P	P	P	P	P	P	Swamy
100	4AI20EC099	SWARNA GOWRI K S	P	P	P	P	P	P	A	P	P	P	Swarna





## CERTIFICATE OF ADD-ON COURSE

# “LOGINWARE GLOBAL LEARNING”

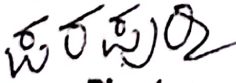
(A learning initiative by Loginware Softtec Pvt.Ltd.)

We the undersigned do hereby proudly present this Certificate of Add-on course for outstanding honorable effort of Ms. Pragathi S (Bonafide Student of AIT, Chickmagaluru) for her successful completion of “Firmware development using embedded C with Microcontroller” add-on course at AIT, Chickmagaluru from 25th March to 30th March 2024.

We found Ms. Pragathi S is efficient and effective in discharging responsibilities assigned to her. We found her character and conducts were good.

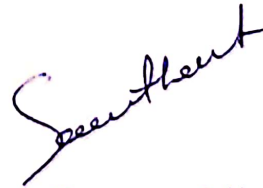
We wish success in her future assignment.

**For Loginware Softtec Pvt.Ltd.**



**Director**

Director



Professor & Head  
Dept. of Electronics & Communication Engg  
Adichunchanurga Institute of Technology  
Channarayana - 577 197

**Loginware Softtec Pvt. Ltd.,**

#428, 3rd Floor, Glass House, 11th Cross, 3rd Main,

Opp. Road to Radiant Apartment,

Suncity, Kengeri Satellite Town, Bengaluru, Karnataka - 560040

✉ info@loginwaresofttec.com • www.loginwaresofttec.com

☎ 99166 09819, +91 79969 90246

**Loginware Softtec Pvt. Ltd.,**

#40/163, 1st Floor, Opp. Bharathi Associates, BM Bypass Road,  
Boovanahalli, Hassan- 573201

✉ info@loginwaresofttec.com • www.loginwaresofttec.com

☎ 08172 - 297179, +91 79969 90246

## CERTIFICATE OF ADD-ON COURSE

# “LOGINWARE GLOBAL LEARNING”

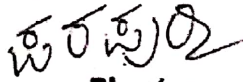
(A learning initiative by Loginware Softtec Pvt.Ltd.)

We the undersigned do hereby proudly present this Certificate of Add-on course for outstanding honorable effort of Ms. Nischitha C V (Bonafide Student of AIT, Chickmagalur) for her successful completion of “Firmware development using embedded C with Microcontroller” add-on course at AIT, Chickmagalur from 25th March to 30th March 2024.

We found Ms. Nischitha C V is efficient and effective in discharging responsibilities assigned to her. We found her character and conducts were good.

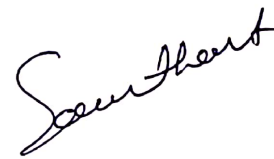
We wish success in her future assignment.

For Loginware Softtec Pvt.Ltd.



Director

Director



Professor & Head  
Dept. of Electronics & Communication Engg  
Adichunchanagiri Institute of Technology  
Chikmagalur - 577 102

Loginware Softtec Pvt. Ltd.,

#428, 3rd Floor, Glass House, 11th Cross, 3rd Main,  
Opp. Road to Radiant Apartment,

Suncity, Kengeri Satellite Town, Bengaluru, Karnataka - 560060  
✉ info@loginwaresofttec.com 🌐 www.loginwaresofttec.com  
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## CERTIFICATE OF ADD-ON COURSE

# “LOGINWARE GLOBAL LEARNING”

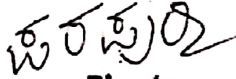
(A learning initiative by Loginware Softtec Pvt.Ltd.)

We the undersigned do hereby proudly present this Certificate of Add-on course for outstanding honorable effort of Ms. Poojashree M N (Bonafide Student of AIT, Chickmagaluru) for her successful completion of “Firmware development using embedded C with Microcontroller” add-on course at AIT, Chickmagaluru from 25th March to 30th March 2024.

We found Ms. Poojashree M N is efficient and effective in discharging responsibilities assigned to her. We found her character and conducts were good.

We wish success in her future assignment.

**For Loginware Softtec Pvt.Ltd.**



**Director**

Director



**Professor & Head**

Dept. of Electronics & Communication Engg  
Adichunchanegiri Institute of Technology  
Chikmagalur - 577 192

**Loginware Softtec Pvt. Ltd.,**

#428, 3rd Floor, Glass House, 11th Cross, 3rd Main,  
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Suncity, Kengeri Satellite Town, Bengaluru, Karnataka - 560060  
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Ref: LW/CI/LGL  
Date: 30/March/2024



## CERTIFICATE OF ADD-ON COURSE

# “LOGINWARE GLOBAL LEARNING”

(A learning initiative by Loginware Softtec Pvt.Ltd.)

We the undersigned do hereby proudly present this Certificate of Add-on course for outstanding honorable effort of Ms. Pallavi S (Bonafide Student of AIT, Chickmagaluru) for her successful completion of “Firmware development using embedded C with Microcontroller” add-on course at AIT, Chickmagaluru from 25th March to 30th March 2024.

We found Ms. Pallavi S is efficient and effective in discharging responsibilities assigned to her. We found her character and conducts were good.

We wish success in her future assignment.

For Loginware Softtec Pvt.Ltd.

Director

Director

Professor & Head

Dept. of Electronics & Communication Engg  
Adichunchanagiri Institute of Technology  
Chikmagalur - 577 102

Loginware Softtec Pvt. Ltd.,

#428, 3rd Floor, Glass House, 11th Cross, 3rd Main,  
Opp. Road to Radlant Apartment,

Suncity, Kengeri Satellite Town, Bengaluru, Karnataka - 560060

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08172 - 297179, +91 79969 90246



### Add-on Course Feedback Form

<b>Date:</b>	25 <sup>th</sup> to 30 <sup>th</sup> MAR 2024
<b>Course Title:</b>	Firmware development using Embedded C with Microcontroller
<b>Presenter(s):</b>	Loginware Softeq Pvt Ltd

*Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.*

4= Strongly Agree      3= Agree      2= Disagree      1= Strongly Disagree

1. Workshop objectives were stated clearly and met.	4 3 2 1
2. The workshop was well organized.	4 3 2 1
3. The information and/or skills presented were relevant and useful	4 3 2 1
4. The presenter(s) provided adequate time for questions and answered them satisfactorily.	4 3 2 1
5. The presenter(s) suggested ways to follow up the training.	4 3 2 1
6. The training arrangements were adequate.	4 3 2 1
7. The instructor was a good communicator	4 3 2 1
8. How would you rate this workshop? (please check one)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Very Good
9. Areas/topics about which you would like to receive further training:	

Santosh

Nikhith P. M.  
Signature of the student

Name: Nikhith P. M.

USN: 4A12020055

## Add-on Course Feedback Form

<b>Date:</b>	25 <sup>th</sup> to 30 <sup>th</sup> MAR 2024
<b>Course Title:</b>	Firmware development using Embedded C with Microcontroller
<b>Presenter(s):</b>	Loginware Softee Pvt Ltd

*Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.*

**4= Strongly Agree      3= Agree      2= Disagree      1= Strongly Disagree**

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2. The workshop was well organized.	4 3 2 1
3. The information and/or skills presented were relevant and useful	4 3 2 1
4. The presenter(s) provided adequate time for questions and answered them satisfactorily.	4 3 2 1
5. The presenter(s) suggested ways to follow up the training.	4 3 2 1
6. The training arrangements were adequate.	4 3 2 1
7. The instructor was a good communicator	4 3 2 1
8. How would you rate this workshop? (please check one)	<input type="checkbox"/> Excellent <input type="checkbox"/> Very Good
9. Areas/topics about which you would like to receive further training:	
Nothing	

madhan gowda.M  
 Signature of the student  
 Name.....madhan gowda M  
 USN.....HAI20EC049



### Add-on Course Feedback Form

<b>Date:</b>	25 <sup>th</sup> to 30 <sup>th</sup> MAR 2024
<b>Course Title:</b>	Firmware development using Embedded C with Microcontroller
<b>Presenter(s):</b>	Loginware Sofltec Pvt Ltd

*Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.*

**4= Strongly Agree      3= Agree      2= Disagree      1= Strongly Disagree**

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2. The workshop was well organized.	4 3 2 1
3. The information and/or skills presented were relevant and useful	4 3 2 1
4. The presenter(s) provided adequate time for questions and answered them satisfactorily.	4 3 2 1
5. The presenter(s) suggested ways to follow up the training.	4 3 2 1
6. The training arrangements were adequate.	4 3 2 1
7. The instructor was a good communicator	4 3 2 1
8. How would you rate this workshop? (please check one)	<input type="checkbox"/> Excellent <input type="checkbox"/> Very Good
9. Areas/topics about which you would like to receive further training:	

Unni  
Signature of the student

Name.....UNNATHI S.V  
USN.....4A120EC077

### Add-on Course Feedback Form

<b>Date:</b>	25 <sup>th</sup> to 30 <sup>th</sup> MAR 2024
<b>Course Title:</b>	Firmware development using Embedded C with Microcontroller
<b>Presenter(s):</b>	Loginware Softtec Pvt Ltd

*Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.*

4= *Strongly Agree*      3= *Agree*      2= *Disagree*      1= *Strongly Disagree*

1. Workshop objectives were stated clearly and met.	4 3 2 1
2. The workshop was well organized.	4 3 2 1
3. The information and/or skills presented were relevant and useful	4 3 2 1
4. The presenter(s) provided adequate time for questions and answered them satisfactorily.	4 3 2 1
5. The presenter(s) suggested ways to follow up the training.	4 3 2 1
6. The training arrangements were adequate.	4 3 2 1
7. The instructor was a good communicator	4 3 2 1
8. How would you rate this workshop? (please check one)	<input type="checkbox"/> Excellent <input type="checkbox"/> Very Good
9. Areas/topics about which you would like to receive further training:	

*Kusuma B K*

Signature of the student

Name... 4AD20EC038 .....

USN... KUSUMA B.K. .....





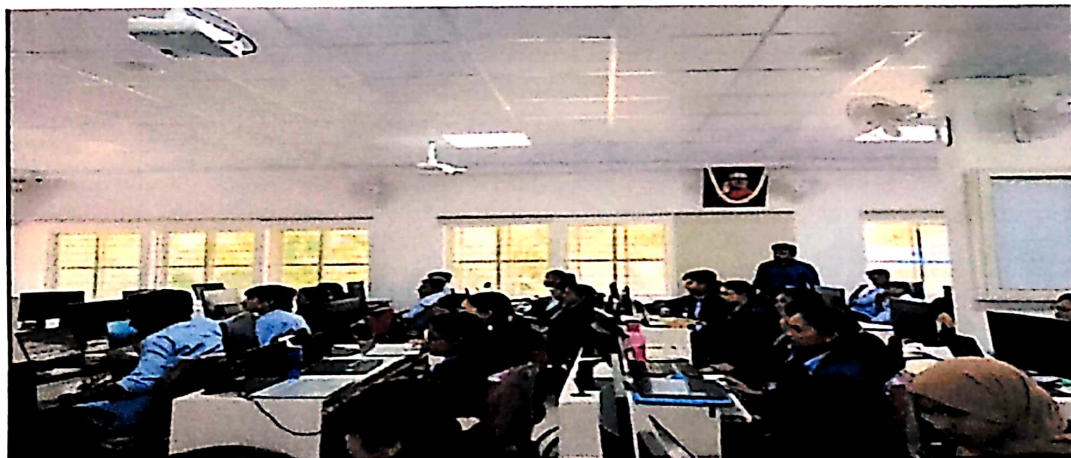
## Report

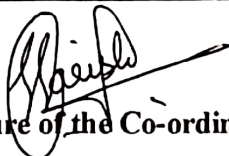
### “Firmware Development Using Embedded C With Microcontroller”

**Add-On Course Description:** 30 hours course was conducted for final year students on the title “Firmware Development Using Embedded C With Microcontroller” conducted in department of ECE, AIT Chikamagaluru by Loginware softec Pvt Ltd Bangalore from 25.03.2024 to 30-03-2024. Total number of students benefited by this course are 116. The objective of this course is to enhance the knowledge in the field of Embedded C using Microcontroller.

**Resource Persons:** Thejesh P, Director , Loginware Softec Pvt Ltd and team members.

Contact: 9916609819



  
Signature of the Co-ordinator

  
Signature of the HOD  
Dept. of Electronics & Communication Engg  
Adichunchanagiri Institute of Technology,  
Chikmagalur - 577 102



Add-on Course

On

# MATERIALS USED FOR CONSTRUCTION

07-09 and 15-16 DEC 2023



Organized by,

Department of Electronics and Communication Engineering,

Adichunchanagiri Institute of Technology,

Chikmagalur – 577102

Karnataka, India

[www.aitechmagalur.ac.in](http://www.aitechmagalur.ac.in)

### About the College:

Adichunchanagiri Institute of Technology (AIT) was established in the year 1980 under the auspicious of Adichunchanagiri Shikshana Trust(R) with the blessings of Bhairavaikya Jagadguru Padmabhushana Sri Sri Sri Dr. Balagangadharanatha Mahaswamiji to provide technical and other professional education in the rural area of Chikmagalur, the land of Coffee. With the blessings of Jagadguru Sri. Sri. Sri. Nirmalanandanatha Swamiji, AIT is imparting the quality education in Engineering and Management with ethical and spiritual values.

### About the Department:

The Department of Electronics & communication Engineering came into existence in the year 1981. The department was under the affiliation of University of Mysore from 1981 to 1992 & under Kuvempu University from 1992 to 1998. Since 1998 the department is under the affiliation of Visvesvaraya Technological University. The PG programme includes M.Tech in Digital Electronics and Communication Systems which offers an experiential learning in advanced topics in engineering. The department is recognized as a research center under VTU and the research scholars from various colleges and industry are participating in active research.

### Objectives of the Add-on Course:

This course provides an overview of the various materials used in construction. Knowing the fundamental principles of structural, physical and long-term performance, students will learn about material and product manufacturing techniques and how they relate to mechanical and non-mechanical properties of the various materials. Common construction methods are introduced and building details are explored. They will experience about material capacity and behavior as well as construction methods in demonstrations. Furthermore, material applications and detailing in structural and non-structural building components are explored. Resulting from this course, students will gain a comparative knowledge of material properties and possible applications in construction and architecture.

### Resource Person:

The resource person from the academia with the long standing experience will deliver lectures during this course of programme.

### Chief Patron:

Sri. Sri. Sri. Nirmalandanatha Swamiji, pontiff, Adichunchanagiri Maha Samsthana Matt.

### Patron:

Sri. Sri. Gunanatha Samiji, Sringeri Shakha Matt.

### Organizing Chair:

Dr. C.T Jayadeva, Principal, AIT, Chikmagalur.

### Convenor:

Dr. Goutham M.A, Professor and Head, Dept of Electronics and Communication Engg.,

### Coordinator:

Mrs. Usha K.P, Asst Professor, Mrs. Meghashree M, Asst Professor Dept. of Electronics and Communication Engg.,

### Address for Communication:

Mrs. Usha K.P, Asst Professor, Mrs. Meghashree M, Asst Professor Dept. of Electronics and Communication Engg., Adichunchanagiri Institute of Technology, Chikmagalur, Karnataka – 577102  
Mobile: 9448009643/9743399543  
Email: eclabait@gmail.com

Department of Electronics and Communication Engineering,

Add-on Course

On

# MATERIALS USED FOR CONSTRUCTION

07-09 and 15-16 DEC 2023

Registration Form

Name:

.....

Sem & Sec: .....

USN : .....

Department: .....

Mobile:

.....

E-mail:

.....

Address:

.....

.....

.....

.....

Place:

Date:

Signature of the Applicant

Professor & Head  
Dept. of Electronics & Communication Engg  
Adichunchanagiri Institute of Technology,  
Chikmagalur - 577 102



Add on Course

## “MATERIALS USED FOR CONSTRUCTION”

### SYLLABUS

#### UNIT - I

Stone as building material: Requirement of good building stones. Bricks; Classification. Requirement of good bricks; Cement Concrete blocks. requirement of good blocks. Timber as construction material: Natural and manufactured Sand; Natural and manufactured coarse aggregate; Cement; Steel and Iron.

#### UNIT – II

Materials for doors and windows, Types of Doors and Windows; Flooring material: Concrete (VDF), Mosaic, Kota, Slate, Marble, Granite, Tile flooring, Cladding of tiles. Different roofing materials. Plumbing and Sanitary, Building Electrification, Paints.

#### Course Outcomes:

After a successful completion of the course, the student will be able to:

- Select suitable materials for buildings and adopt suitable construction techniques.
- Exhibit the knowledge of building finishes.



**Professor & Head**  
Dept. of Electronics & Communication Engg  
Adichunchanagiri Institute of Technology,  
Chikmagalur - 577 102



|| Jai Sri Gurudev ||  
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ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY  
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING  
JYOTHINAGAR, CHIKKAMAGALURU - 577 102  
(Affiliated to Visvesvaraya Technological University, Belagavi)



**STUDENT ENROLLMENT LIST**  
**ADD-ON Course - Materials used for Construction<sup>7</sup>**  
**From 07/12/2023 to 16/12/2023**

Sl.No	USN	Student Name	Signature
1	4AI21EC001	ABHISHEK K M	Abhishek
2	4AI21EC002	AKANKSHA C	Akanksha C
3	4AI21EC003	ANANYA M	Ananya M.
4	4AI21EC004	ANKITH P	Ankith P
5	4AI21EC005	ANKUSH D D	Ankush D.D
6	4AI21EC006	ANUSHA A	Anusha A
7	4AI21EC007	ANUSHREE J K	Anushree J K
8	4AI21EC008	ASHWIN GOWDA S J	Ashwin
9	4AI21EC010	BENAKESH S N	Benakesh S N
10	4AI21EC011	BHAVANA H P	Bhavana H P
11	4AI21EC012	BHOOMIKA B C	Bhoomika B C
12	4AI21EC013	BHUMIKA D M	Bhoomika D.M
13	4AI21EC014	BIBI SWAGRA	Bibi Swagra
14	4AI21EC015	CHAITHANYA J	Chaithanya J
15	4AI21EC016	CHAITHRA L P	Chaithra L.P.
16	4AI21EC017	CHANDANA K	Chandana K
17	4AI21EC018	CHANDANA PATIL C S	Chandana C S
18	4AI21EC019	CHANDRAKANTH S M	Chandrakanth S M
19	4AI21EC020	CHEZHAN N M	Chethan N M
20	4AI21EC021	DARSHAN S	Darshan S
21	4AI21EC022	DARSHINI B	Darshini B
22	4AI21EC023	DEEKSHA K B	Deeksha K.B
23	4AI21EC024	DEEKSHA K R	Deeksha K.R
24	4AI21EC025	DEEPAK M S	Deepak M S
25	4AI21EC027	DEEPAKRAJ R B	Deepak R B
26	4AI21EC028	DHANUSH GOWDA H	Dhanush
27	4AI21EC031	GOWTHAM B G	Gowtham B G
28	4AI21EC033	JEEVAN R M	Jeevan R M
29	4AI21EC034	KARTHIKEYAN J	Karthikeyan J
30	4AI21EC035	KAVANA K S	Kavana K S
31	4AI21EC036	KEERTHANA L S	Keerthana L S
32	4AI21EC037	LIKHITH S V	Likhith S V


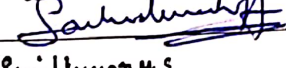
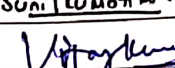
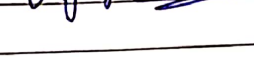



33	4AI21EC038	LIKITHA C M	likitha.cm
34	4AI21EC040	MANJUSHREE K S	Manjushree
35	4AI21EC042	MANUPATEL S P	Manupatel
36	4AI21EC043	MANYA U	Manya U
37	4AI21EC044	MEGHANA R	Meghana
38	4AI21EC045	MOHAMMED WASIB	Mohammed Wasib
39	4AI21EC046	NAKUL P M	Nakul
40	4AI21EC047	NEHA G M	Neha G M
41	4AI21EC048	NIDHI K M	Nidhi K M
42	4AI21EC049	NIRANJAN G M	Niranjana G M
43	4AI21EC050	NISHANTH GOWDA V S	Nishantha Gowda V S
44	4AI21EC051	NISHCHITHA M	Nishchitha M
45	4AI21EC052	PAVANKUMAR	Pavankumar
46	4AI21EC053	POOJA H H	Pooja H H
47	4AI22EC400	ARPITHA C S	Arpitha C S
48	4AI22EC402	AVINASH H R	Avinash H R
49	4AI22EC406	CHETHAN V	Chethan V
50	4AI22EC407	DAYANANDA H L	Dayananda H L
51	4AI22EC408	DEEPU P	Deepu P
52	4AI22EC413	INDIKA G	Indika G
53	4AI22EC414	KANAKRAJ H R	Kanakraj H R
54	4AI22EC415	KARANRAJ H R	Karanraj H R
55	4AI22EC418	NAVEEN H L	Naveen H L
56	4AI22EC419	PAVAN KUMAR C N	Pavan Kumar C N
57	4AI22EC420	PUNITH R	Punith R
58	4AI22EC423	SANDYA M	Sandya M
59	4AI22EC424	SHASHANK K G	Shashank K G
60	4AI22EC425	SHASHIKIRAN M	Shashikiran M
61	4AI22EC426	SNEHA S V	Sneha S V
62	4AI21EC054	POORNIMA H G	Poornima H G
63	4AI21EC055	PRAGNA J	Pragna J
64	4AI21EC056	PRAJWAL L	Prajwal L
65	4AI21EC057	PRAMOD GOWDA T E	Pramod Gowda T E
66	4AI21EC058	PRANAMYA G	Pranamyia G
67	4AI21EC059	PRIYA H S	Priya H S
68	4AI21EC060	PRIYANKA H J	Priyanka H J
69	4AI21EC061	PRIYANKA H S	Priyanka H S
70	4AI21EC062	PRUTHVI V	Pruthvi V
71	4AI21EC063	PRUTHVI V P	Pruthvi V P
72	4AI21EC065	PUNITH T R	Punith T R
73	4AI21EC066	RAKSHITH C N	Rakshith C N
74	4AI21EC067	RAKSHITHA K U	Rakshitha K U

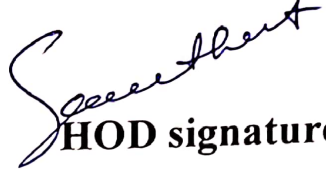
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34	4AI21EC040	MANJUSHREE K S	<del>Manjushree</del>
35	4AI21EC042	MANUPATEL S P	Manupatel
36	4AI21EC043	MANYA U	<del>Manya</del> .U
37	4AI21EC044	MEGHANA R	Megha
38	4AI21EC045	MOHAMMED WASIB	Md Wasib
39	4AI21EC046	NAKUL P M	Nakul
40	4AI21EC047	NEHA G M	<del>Neha</del>
41	4AI21EC048	NIDHI K M	Nidhi
42	4AI21EC049	NIRANJAN G M	Niranjana
43	4AI21EC050	NISHANTH GOWDA V S	Nishantha
44	4AI21EC051	NISHCHITHA M	Nishchitha
45	4AI21EC052	PAVANKUMAR	<del>Pavan</del>
46	4AI21EC053	POOJA H H	Pooja.H.H
47	4AI22EC400	ARPITHA C S	Arpitha.C.S
48	4AI22EC402	AVINASH H R	Avinash
49	4AI22EC406	CHETHAN V	<del>Chethan</del>
50	4AI22EC407	DAYANANDA H L	Dayanand
51	4AI22EC408	DEEPU P	Deepu
52	4AI22EC413	INDIKA G	Indika
53	4AI22EC414	KANAKRAJ H R	Kanakraja
54	4AI22EC415	KARANRAJ H R	Karanraj
55	4AI22EC418	NAVEEN H L	Naveen.H.L
56	4AI22EC419	PAVAN KUMAR C N	Pavan
57	4AI22EC420	PUNITH R	Punithi
58	4AI22EC423	SANDYA M	Sandya.M.
59	4AI22EC424	SHASHANK K G	Shashank
60	4AI22EC425	SHASHIKIRAN M	Shashikiran
61	4AI22EC426	SNEHA S V	Sneha.
62	4AI21EC054	POORNIMA H G	Poornima
63	4AI21EC055	PRAGNA J	<del>Pragna</del>
64	4AI21EC056	PRAJWAL L	Prajwal
65	4AI21EC057	PRAMOD GOWDA T E	Prmod.T.E
66	4AI21EC058	PRANAMYA G	Pranaya
67	4AI21EC059	PRIYA H S	Priya
68	4AI21EC060	PRIYANKA H J	<del>Priyanka</del>
69	4AI21EC061	PRIYANKA H S	<del>Priyanka</del>
70	4AI21EC062	PRUTHVI V	Pruthvi
71	4AI21EC063	PRUTHVI V P	Pruthvi.V.P.
72	4AI21EC065	PUNITH T R	Punith.T.R
73	4AI21EC066	RAKSHITH C N	Rakshith
74	4AI21EC067	RAKSHITHA K U	<del>Rakshitha</del>



75	4AI21EC069	ROHINI N C	Rohini. N. C.
76	4AI21EC070	RUMANRAZA M WALIKAR	Rumanraza M. Walikar
77	4AI21EC071	SANJAY J K	Sanjay J. K.
78	4AI21EC072	SATHISH S V	Sathish S. V.
79	4AI21EC073	SHALINI B S	Shalini B. S.
80	4AI21EC074	SHANVI D	Shanvi D.
81	4AI21EC075	SHARATH K Y	Sharath K. Y.
82	4AI21EC076	SHARATH R	Sharath R.
83	4AI21EC077	SHASHANK A N	Shashank A. N.
84	4AI21EC081	SHIVESH DEV K M	Shivesh Dev K. M.
85	4AI21EC082	SHRESHTA A D	Shreshtha A. D.
86	4AI21EC083	SHUBHA T M	Shubha T. M.
87	4AI21EC084	SINCHANA K S	Sinchana K. S.
88	4AI21EC085	SINCHANA KAKADE S	Sinchana Kakade S.
89	4AI21EC086	SIRI D A	Siri D. A.
90	4AI21EC087	SOMASHEKAR N J	Somashekar N. J.
91	4AI21EC088	SONIYA G	Soniya G.
92	4AI21EC089	SOWMYA C G	Sowmya C. G.
93	4AI21EC090	SRUSTI C	Srusti C.
94	4AI21EC091	SUHAS P	Suhas P.
95	4AI21EC092	SUHAS RATHOD C P	Suhas Rathod C. P.
96	4AI21EC093	SUPRITH R M	Suprith R. M.
97	4AI21EC094	TEJASWINI R JAGADISH	Tejaswini R. Jagadish
98	4AI21EC095	TEJU K B	Teju K. B.
99	4AI21EC096	THARUN R	Tharun R.
100	4AI21EC097	THEJU A R	Theju A. R.
101	4AI21EC098	THULASI K	Thulasi K.
102	4AI21EC099	ULLAS H J	Ullas H. J.
103	4AI21EC100	VARSHITH C P	Varshith C. P.
104	4AI21EC101	VEENA R GOWDA	Veena R. Gowda
105	4AI21EC102	VINAY H B	Vinay H. B.
106	4AI21EC103	YASHASWINI C B	Yashaswini C. B.
107	4AI22EC401	ARPITHA K R	Arpitha K. R.
108	4AI22EC403	BHAGAVANTRAYA SANKANOOR	Bhagavantraya Sankanoor
109	4AI22EC404	BHARATH M B	Bharath M. B.
110	4AI22EC405	CHEZHAN H S	Chethan H. S.
111	4AI22EC409	GANESH KUMAR	Ganesh Kumar
112	4AI22EC410	GIRISH A C	Girish A. C.
113	4AI22EC411	HARISH K S	Harish K. S.
114	4AI22EC412	HARSHA V	Harsha V.
115	4AI22EC416	KAVYA B M	Kavya B. M.
116	4AI22EC417	MONIKA K M	Monika K. M.

117	4AI22EC421	RUDRESHA C S	
118	4AI22EC422	SACHCHIDANANDA H	
119	4AI22EC427	SUNIL KUMAR M C	
120	4AI22EC428	VIJAYA KUMAR N B	

  
Coordinator signature

  
HOD signature

**Professor & Head**  
Dept. of Electronics & Communication Engg.  
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Chikmagalur - 577 102



**ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY**  
**CHIKKAMAGALURU-577102**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**ADD-ON Course - On "Materials used for Construction"**  
**Attendance Report**

Note: Session 1: 9:00-12.30.00

Session 2:00-5.00

Resource person: Shruthi C G

S.NO	USN	Student Name	07/12/2023		08/12/2023		09/12/2023		15/12/2023		16/12/2023		Signature
			Session-1	Session-2	Session-1	Session-2	Session-1	Session-2	Session-1	Session-2	Session-1	Session-2	
1	4AI21EC001	ABHISHEK K M											Abhishek
2	4AI21EC002	AKANKSHA C	P	P	A	P	P	P	A	P	P	P	Akanksha
3	4AI21EC003	ANANYA M	P	P	P	P	A	P	P	P	P	P	Ananya M
4	4AI21EC004	ANKITH P	P	P	P	P	P	P	P	P	P	P	Ankith P
5	4AI21EC005	ANKUSH D D	P	P	P	P	P	P	A	P	A	A	Ankush D D
6	4AI21EC006	ANUSHA A	P	P	P	P	P	P	P	P	P	P	Anusha A
7	4AI21EC007	ANUSHREE J K	P	P	P	P	P	P	P	P	P	P	Anushree J K
8	4AI21EC008	ASHWIN GOWDA S J	A	P	P	P	P	P	P	P	P	P	Ashwin
9	4AI21EC010	BENAKESH S N	P	P	P	P	P	A	P	P	P	P	Benakesh S N
10	4AI21EC011	BHAVANA H P	P	P	P	P	P	P	P	P	P	P	Bhavana H P
11	4AI21EC012	BHOOMIKA B C	P	P	P	P	P	P	P	P	P	P	Bhoomika B C
12	4AI21EC013	BHUMIKA D M	P	P	A	A	P	P	P	P	P	P	Bhoomika D M
13	4AI21EC014	BIBI SWAGRA	P	P	P	P	P	P	P	P	P	P	Bibi Swagra
14	4AI21EC015	CHAITHANYA J	P	P	P	P	P	P	P	P	P	P	Chaithanya J
15	4AI21EC016	CHAITHRA L P	P	P	P	P	P	P	P	P	P	P	Chaithra L P
16	4AI21EC017	CHANDANA K	P	P	P	P	P	P	A	A	P	P	Chandana K

17	4AI21EC018	CHANDANA PATIL CS	P	P	P	P	P	P	P	P	P	P	P	Jada
18	4AI21EC019	CHANDRAKAN TH SM	P	P	P	P	P	P	A	P	P	P	P	Con
19	4AI21EC020	CHETHAN NM	P	P	P	P	P	P	P	P	P	P	P	nm
20	4AI21EC021	DARSHAN S	P	P	P	P	P	P	P	P	P	P	P	<del>...</del>
21	4AI21EC022	DARSHINI B	P	P	P	P	P	P	P	P	P	P	P	Darshini B
22	4AI21EC023	DEEKSHA KB	P	P	P	P	P	P	P	P	P	P	P	Deeksha KB
23	4AI21EC024	DEEKSHA KR	P	P	P	P	P	P	P	P	P	P	P	Deeksha
24	4AI21EC025	DEEPAK MS	P	P	P	P	A	P	P	P	A	P	P	Deepak MS
25	4AI21EC027	DEEPAKRAJ RB	P	P	P	P	P	A	P	P	P	P	P	Deepak
26	4AI21EC028	DHANUSH GOWDA H	P	P	P	P	P	P	P	P	P	P	P	Dhanush
27	4AI21EC031	GOWTHAM BG	P	P	P	P	P	P	P	P	P	P	P	Gowtham
28	4AI21EC033	JEEVAN RM	P	P	P	P	A	P	P	P	P	P	P	Jeevan
29	4AI21EC034	KARTHIKEYAN J	P	P	P	P	P	P	P	P	P	P	A	Karthi
30	4AI21EC035	KAVANA KS	P	P	P	A	P	P	P	P	P	P	P	Kavana
31	4AI21EC036	KEERTHANA L S	P	P	P	P	A	P	P	P	P	P	P	Keerthi
32	4AI21EC037	LIKITHA SV	P	P	P	P	P	P	P	P	P	P	P	Likitha
33	4AI21EC038	LIKITHA CM	P	A	P	P	P	P	P	P	P	P	P	Likitha CM
34	4AI21EC040	MANJUSHREE KS	P	P	P	P	P	P	P	P	P	P	P	Manjushree
35	4AI21EC042	MANUPATEL S P	P	P	P	P	P	P	P	P	P	P	P	Manupatel
36	4AI21EC043	MANYA U	P	P	P	P	P	P	P	P	P	P	P	Manya
37	4AI21EC044	MEGHANA R	P	P	P	P	P	P	P	P	P	P	P	Meghana
38	4AI21EC045	MOHAMMED WASIB	P	P	P	A	P	P	P	P	P	P	P	Mohammed
39	4AI21EC046	NAKUL PM	P	P	P	P	P	P	P	P	P	P	P	Nakul





64	4AI21EC056	PRAJWAL L	P	P	P	P	P	P	P	P	P	P	P	Prajwal
65	4AI21EC057	PRAMOD GOWDA T E	P	P	P	P	P	P	P	P	P	P	P	P.T.E
66	4AI21EC058	PRANAMYA G	P	P	P	P	P	P	P	P	P	P	P	Praj.
67	4AI21EC059	PRIYA HS	P	P	P	P	P	P	P	P	P	P	P	Priya
68	4AI21EC060	PRIYANKA HJ	P	P	P	P	P	P	P	P	P	P	P	Priyanka
69	4AI21EC061	PRIYANKA HS	P	P	P	P	P	P	P	P	P	P	P	Priyanka
70	4AI21EC062	PRUTHVI V	P	P	P	P	P	A	P	P	P	P	P	Pruthvi
71	4AI21EC063	PRUTHVI V P	P	P	P	P	P	P	P	P	P	P	P	Pruthvi.V.P
72	4AI21EC065	PUNITH T R	P	P	P	P	P	P	P	P	P	P	P	Punith.T.R
73	4AI21EC066	RAKSHITH C N	P	P	P	P	P	P	P	P	P	P	P	Rakshith
74	4AI21EC067	RAKSHITHA K U	P	P	P	P	P	P	P	P	P	P	P	Rakshitha
75	4AI21EC069	ROHINI N C	P	P	P	P	P	P	P	P	P	P	P	Rohini.N.C
76	4AI21EC070	RUMANRAZA M WALIKAR	P	A	P	P	P	P	P	P	P	P	P	Rumanraza
77	4AI21EC071	SANJAY J K	P	P	P	P	P	P	P	P	P	P	P	Sanjay
78	4AI21EC072	SATHISH S V	P	P	P	P	P	P	A	P	P	P	P	Sathish.S.V
79	4AI21EC073	SHALINI B S	P	P	P	A	P	P	P	P	P	P	P	Shalini
80	4AI21EC074	SHANVI D	P	P	P	P	P	P	P	P	P	P	P	Shanvi.D
81	4AI21EC075	SHARATH K Y	P	P	P	P	P	P	P	P	P	P	P	Sharath.K.Y
82	4AI21EC076	SHARATH R	P	P	P	P	P	P	P	P	P	P	P	Sharath.R
83	4AI21EC077	SHASHANK A N	P	P	P	P	P	P	P	P	P	P	P	Shashank A.N
84	4AI21EC081	SHIVESH DEV K M	P	P	P	P	P	P	P	P	P	P	P	Shivesh Dev.K.M
85	4AI21EC082	SHRESHTA A D	P	P	P	P	P	P	P	P	P	P	P	Shreshtha
86	4AI21EC083	SHUBHA T M	P	P	P	P	P	P	P	P	P	P	P	Shubha
87	4AI21EC084	SINCHANA K S	P	P	P	P	P	P	P	P	P	P	P	Sinchana



88	4AI21EC085	SINCHANA KAKADE S	P	P	P	P	P	P	P	P	P	P	P	S.S.
89	4AI21EC086	SIRI D A	P	A	P	P	P	P	P	P	P	P	P	<del>S.S.</del>
90	4AI21EC087	SOMASHEKAR N J	P	P	P	A	P	P	P	P	P	P	P	<del>S.S.</del>
91	4AI21EC088	SONIYA G	P	P	P	P	P	P	P	P	P	P	P	<del>S.S.</del>
92	4AI21EC089	SOWMYA C G	P	P	P	P	P	P	P	P	P	P	P	Sowmya C.G.
93	4AI21EC090	SRUSTI C	P	P	P	P	P	P	P	P	P	P	P	Sruthi.C.
94	4AI21EC091	SUHAS P	P	P	P	A	P	P	P	P	P	P	P	<del>Suhas.P</del>
95	4AI21EC092	SUHAS RATHOD C P	P	P	P	P	P	P	P	P	P	P	P	<del>Suhas</del>
96	4AI21EC093	SUPRITH R M	P	P	P	P	P	P	P	P	P	P	P	Suprith
97	4AI21EC094	TEJASWINI R JAGADISH	P	A	P	P	P	A	P	P	A	P	P	<del>Tejas</del>
98	4AI21EC095	TEJU K B	P	P	P	P	P	P	P	P	P	P	P	Teju
99	4AI21EC096	THARUN R	P	P	P	P	P	P	P	P	P	P	P	Tharun
100	4AI21EC097	THEJU A R	P	P	P	P	P	P	P	P	P	P	P	Theju.A.R.
101	4AI21EC098	THULASI K	P	A	P	P	P	P	P	P	P	P	P	<del>Thulasi</del>
102	4AI21EC099	ULLAS H J	P	P	P	P	P	P	P	P	P	P	P	Ullas.H.J.
103	4AI21EC100	VARSHITH C P	P	P	P	P	P	P	P	P	P	P	P	Varshith
104	4AI21EC101	VEENA R GOWDA	P	P	P	P	A	P	P	P	P	P	P	V.
105	4AI21EC102	VINAY H B	P	P	P	P	P	P	P	P	P	P	P	Vinay
106	4AI21EC103	YASHASWINI C B	P	P	P	P	P	P	P	P	P	P	P	Yashaswini.C.B.
107	4AI22EC401	ARPITHA K R	P	P	P	P	P	P	P	P	P	P	P	Arpitha.K.R.
108	4AI22EC403	BHAGAVANTR AYA SANKANOOR	P	P	P	P	A	P	P	P	P	P	P	Bhagavantr
109	4AI22EC404	BHARATH M B	P	P	P	P	P	P	P	P	P	P	P	Bharath
110	4AI22EC405	CETHAN H S	P	P	P	P	P	P	P	P	P	P	P	Chethan.H.S.

111	4AI22EC409	GANESH KUMAR	P	P	P	P	P	P	P	A	P	P	<i>[Signature]</i>
112	4AI22EC410	GIRISH A C	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
113	4AI22EC411	HARISH K S	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
114	4AI22EC412	HARSHA V	P	P	P	P	P	A	P	P	P	P	<i>[Signature]</i>
115	4AI22EC416	KAVYA B M	P	A	A	P	P	P	P	P	P	P	<i>[Signature]</i> B.M
116	4AI22EC417	MONIKA K M	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
117	4AI22EC421	RUDRESHA C S	P	P	P	A	P	P	P	P	P	P	<i>[Signature]</i>
118	4AI22EC422	SACHCHIDANA NDA H	A	P	P	P	P	P	P	P	A	P	<i>[Signature]</i>
119	4AI22EC427	SUNIL KUMAR M C	P	P	A	P	P	P	P	P	P	P	<i>[Signature]</i>
120	4AI22EC428	VIJAYA KUMAR N B	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>

Coordinator signature

*[Signature]*  
HOD signature

**Professor & Head**  
Dept. of Electronics & Communication Engg  
Adichunchanogiri Institute of Technology,  
Chikmagalur - 577 102





**ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY**  
CHIKKAMAGALURU - 577102  
**DEPARTMENT OF**  
**ELECTRONICS AND COMMUNICATION ENGINEERING**



*Certificate of Completion*

This is to certify that Mr./Miss. Shivesh Dev H.M. has completed Add on Course on  
“**MATERIALS USED FOR CONSTRUCTION**” held at the Department of Electronics and Communication  
Engineering, Adichunchanagiri institute of Technology Chikkamagalur from 07th to 9th DEC 2023 and 15th to  
16th DEC 2023 (5 Days) Successfully.



**CO-ORDINATOR**

Dept. of ECE, AIT,  
Chikkamagalur

**Professor & Head**  
Dept. of Electronics & Communication Engg  
Adichunchanagiri Institute of Technology,  
Chikkamagalur - 577 102

**Dr. GOUTHAM M A**

Professor and Head Dept. of  
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Chikkamagalur





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CHIKKAMAGALURU - 577102  
DEPARTMENT OF  
ELECTRONICS AND COMMUNICATION ENGINEERING



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This is to certify that Mr./Miss. Soniya G has completed Add on Course on  
“**MATERIALS USED FOR CONSTRUCTION**” held at the Department of Electronics and Communication  
Engineering, Adichunchanagiri institute of Technology Chikkamagalur from 07th to 9th DEC 2023 and 15th to  
16th DEC 2023 (5 Days) Successfully.



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Chikkamagalur

**Professor & Head**  
Dept. of Electronics & Communication Engg  
Adichunchanagiri Institute of Technology  
Chikkamagalur - 577 102

**Dr. GOUTHAM M A**  
Professor and Head Dept. of  
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Chikkamagalur





# ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

CHIKKAMAGALURU - 577102

DEPARTMENT OF  
ELECTRONICS AND COMMUNICATION ENGINEERING




## Certificate of Completion

This is to certify that Mr./Miss. Prananya G has completed Add on Course on  
“**MATERIALS USED FOR CONSTRUCTION**” held at the Department of Electronics and Communication  
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16th DEC 2023 (5 Days) Successfully.



  
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Dept. of Electronics & Communication Engg  
Adichunchanagiri Institute of Technology,  
Chikkamagalur - 577 102

  
**Dr. GOUTHAM M A**  
Professor and Head Dept. of  
ECE, AIT  
Chikkamagalur

## Add-on Course Feedback Form

<b>Date:</b>	07 <sup>th</sup> to 9 <sup>th</sup> December and 15 <sup>th</sup> to 16 <sup>th</sup> December 2023(Weekends only)
<b>Course Title:</b>	Materials used for construction
<b>Presenter(s):</b>	Shruthi C G , Assistant Professor, Dept of Civil, AIT, Chikkamagaluru

*Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.*

*4= Strongly Agree      3= Agree      2= Disagree      1= Strongly Disagree*

1. Workshop objectives were stated clearly and met.	4 3 2 1
2. The workshop was well organized.	4 3 2 1
3. The information and/or skills presented were relevant and useful	4 3 2 1
4. The presenter(s) provided adequate time for questions and answered them satisfactorily.	4 3 2 1
5. The presenter(s) suggested ways to follow up the training.	4 3 2 1
6. The physical arrangements were adequate.	4 3 2 1
7. The instructor was a good communicator	4 3 2 1
8. How would you rate this workshop? (please check one)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Very Good
9. Areas/topics about which you would like to receive further training:	

*Sentient*

*Sinchana Kakade S.*  
Signature of the student

Name... *Sinchana...Kakade.S.*

USN... *HAJ21EC085*



## Add-on Course Feedback Form

<b>Date:</b>	07 <sup>th</sup> to 09 <sup>th</sup> December and 15 <sup>th</sup> to 16 <sup>th</sup> December 2023(Weekends only)
<b>Course Title:</b>	Materials used for construction
<b>Presenter(s):</b>	Shruthi C G , Assistant Professor, Dept of Civil, AIT, Chikkamagaluru

*Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.*

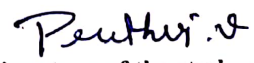
*4= Strongly Agree*

*3= Agree*

*2= Disagree*

*1= Strongly Disagree*

1. Workshop objectives were stated clearly and met.	4 3 2 1
2. The workshop was well organized.	4 3 2 1
3. The information and/or skills presented were relevant and useful	4 3 2 1
4. The presenter(s) provided adequate time for questions and answered them satisfactorily.	4 3 2 1
5. The presenter(s) suggested ways to follow up the training.	4 3 2 1
6. The physical arrangements were adequate.	4 3 2 1
7. The instructor was a good communicator	4 3 2 1
8. How would you rate this workshop? (please check one)	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Very Good
9. Areas/topics about which you would like to receive further training:	

  
 Signature of the student  
 Name.....Peuthi.....  
 USN.....LAI21E6062


## Add-on Course Feedback Form

<b>Date:</b>	07 <sup>th</sup> to 09 <sup>th</sup> December and 15 <sup>th</sup> to 16 <sup>th</sup> December 2023(Weekends only)
<b>Course Title:</b>	Materials used for construction
<b>Presenter(s):</b>	Shruthi C G , Assistant Professor, Dept of Civil, AIT, Chikkamagaluru

*Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.*

**4= Strongly Agree      3= Agree      2= Disagree      1= Strongly Disagree**

1. Workshop objectives were stated clearly and met.	4 3 2 1 <u>4</u> / 3 2 1
2. The workshop was well organized.	4 3 2 1 <u>4</u> / 3 2 1
3. The information and/or skills presented were relevant and useful	4 3 2 1 <u>4</u> / 3 2 1
4. The presenter(s) provided adequate time for questions and answered them satisfactorily.	4 3 2 1 <u>4</u> / 3 2 1
5. The presenter(s) suggested ways to follow up the training.	4 3 2 1 <u>4</u> / 3 2 1
6. The physical arrangements were adequate.	4 3 2 1 <u>4</u> / 3 2 1
7. The instructor was a good communicator	4 3 2 1 <u>4</u> / 3 2 1
8. How would you rate this workshop? (please check one)	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Very Good
9. Areas/topics about which you would like to receive further training:	
/	

  
 Signature of the student  
 Name.....Thulasi...K.....  
 USN...4AT21EC098..



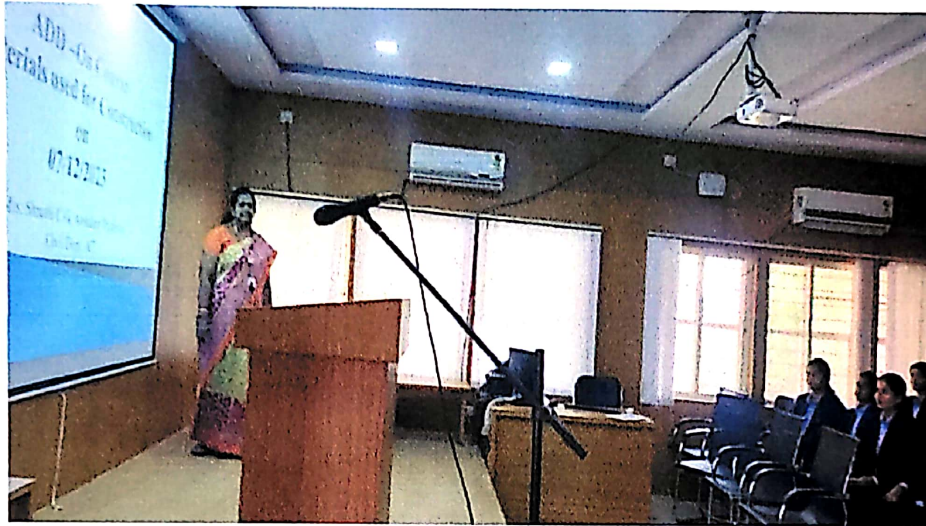


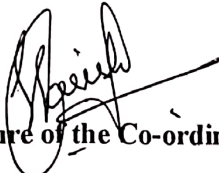
## Report

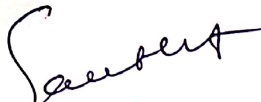
### “Materials Used for Construction”

**Add-On Course Description:** 30 hours course was conducted for final year students on the title “Materials Used for Construction” conducted in department of ECE, AIT Chikamagaluru from 07<sup>th</sup> to 9<sup>th</sup> December and 15<sup>th</sup> to 16<sup>th</sup> December 2023. Total number of students benefited by this course are 119. The objective of this course is to enhance the knowledge in the field of Embedded C using Microcontroller.

**Resource Persons:** Mrs. Shruthi C G., Assistant Professor,  
Dept of Civil, AIT, Chikkamagaluru, Contact: 9986383741



  
Signature of the Co-ordinator

  
Signature of the HOD

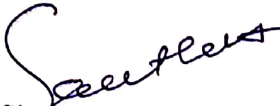


|| Jai Sri Gurudev ||  
SRI ADICHUNCHANAGIRI SHIKSHANA TRUST \*  
**ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**JYOTHINAGAR, CHIKKAMAGALURU - 577 102**  
(Affiliated to Visvesvaraya Technological University, Belagavi)  
Approved by AICTE New Delhi, Accredited by NAAC



Student Name	Title/Course Code	Year	Duration
Kavana K S	Master class on Embedded systems	2023-2024	21 days
Pragna J	Master class on Embedded systems	2023-2024	21 days
Poornima	Master class on Embedded systems	2023-2024	21 days
Pranamyia	Master class on Embedded systems	2023-2024	21 days
Shanvi D	Master class on Embedded systems	2023-2024	21 days
Ananya M	Master class on Embedded systems	2023-2024	21 days
Manjunath B J	Master class on Web development Full stack	2023-2024	30 days
Lekhan kumar	Master class on Web development Full stack	2023-2024	30 days
Abhilash N	Master class on Web development Full stack	2023-2024	30 days
Chiraag A E	Master class on Web development Full stack	2023-2024	30 days
Soniya G	Master class on autonomus vehicle design	2023-2024	21 days
Sinchana Kakade S	Web development	2023-2024	30 days
Pramod B R	Nano Technology	2023-2024	30 days
Ananya M	The joy of computing using Python	2023-2024	12 week
Bhavana H P	The joy of computing using Python	2023-2024	12 week
Niranjan G M	Sensors and Actuators	2023-2024	12 week
Arpitha K R	Introduction to IOT	2023-2024	12 week
Bhagavantraya S	Introduction to IOT	2023-2024	12 week
Soniya G	Python for DATA Science	2023-2024	4 week
Shanvi D	Python for DATA Science	2023-2024	4 week
Pranamyia G	Python for DATA Science	2023-2024	4 week
Punith T R	Python for DATA Science	2023-2024	4 week
BIBI Swagra	Software Testing	2023-2024	4 week
Sanjay J K	The joy of computing using Python	2023-2024	12 week

Signature of the Coordinator

  
Signature of the HOD





# Certificate of Course Completion

## Pramod B R

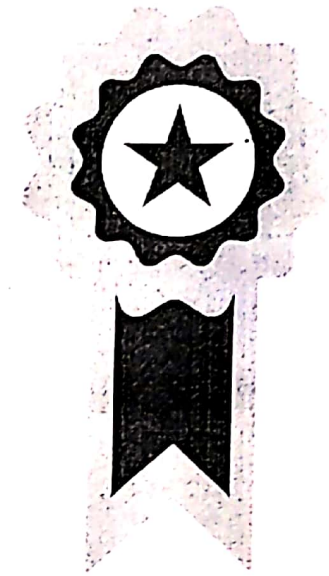
has successfully completed **Nano Technology**  
with Teachnook from **01/08/2023** to **30/09/2023**

During this course, the student has found to be keen and enthusiastic Candidate.

Certificate ID : TNINTC23-8405  
Date 14/10/2023



A Verified Certificate from Teachnook can provide a proof for a student or other institution, an employer or other institution, that you have successfully completed an online course



A handwritten signature in black ink.

Academic Head

A handwritten signature in black ink.

Sr. HR Manager



CERTIFICATE NO PAN\_EMBPART\_335

 Pantech e Learning  
DIGITAL LEARNING SOLUTIONS

**PANTECH SOLUTIONS**  
Technology Beyond The Dreams

# CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

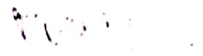
NAME Shanvi D

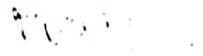
COLLEGE ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

has Successfully Completed  
21 DAYS MASTERCLASS ON EMBEDDED SYSTEMS(ARDUINO)

at Pantech e Learning Pvt Ltd

From 14.02.2024 to 05.03.2024

  
\_\_\_\_\_  
Sh. K. K. Thakur  
CHAIRMAN  
IETE, Ranchi

  
\_\_\_\_\_  
M. Malaiyappan  
Director  
Pantech e learning







CERTIFICATE NO PAN\_EMBPART\_262

 **Pantech e Learning**  
DIGITAL LEARNING SIMPLIFIED

**PANTECH SOLUTIONS**  
Technology Beyond The Dream

# CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT


NAME Pragna J


COLLEGE ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

has Successfully Completed  
21 DAYS MASTERCLASS ON EMBEDDED SYSTEMS(ARDUINO)

at Pantech e Learning Pvt Ltd

From 14.02.2024 to 05.03.2024

  
\_\_\_\_\_  
Sh. K. K. Thakur  
CHAIRMAN  
IETE, Ranchi

  
\_\_\_\_\_  
M. Malaiyappan  
Director  
Pantech e learning



CERTIFICATE NO PAN\_EMBPART\_367

 **Pantech e Learning**  
DIGITAL LEARNING SIMPLIFIED

**PANTECH SOLUTIONS**  
Technology Beyond The Dreams

# CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

NAME Kavana K S

COLLEGE ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

has Successfully Completed  
21 DAYS MASTERCLASS ON EMBEDDED SYSTEMS(ARDUINO)

at Pantech e Learning Pvt Ltd

From 14.02.2024 to 05.03.2024

  
\_\_\_\_\_  
Sh. K. K. Thakur  
CHAIRMAN  
IETE, Ranchi

  
\_\_\_\_\_  
M. Malaiyappan  
Director  
Pantech e learning







CERTIFICATE NO PAN\_EMBPART\_258

 **Pantech e Learning**  
DIGITAL LEARNING SIMPLIFIED

**PANTECH SOLUTIONS**  
Technology Beyond The Dreams

# CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

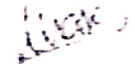
NAME Ananya M

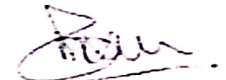
COLLEGE ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

has Successfully Completed  
21 DAYS MASTERCLASS ON EMBEDDED SYSTEMS(ARDUINO)

at Pantech e Learning Pvt Ltd

From 14.02.2024 to 05.03.2024

  
Sh. K. K. Thakur  
CHAIRMAN  
IETE, Ranchi

  
M. Malaivappan  
Director  
Pantech e learning





CERTIFICATE NO PEL\_WEBDEV\_PART\_179

 **Pantech e Learning**  
DIGITAL LEARNING COMPANY

**PANTECH SOLUTIONS**  
Technology Beyond The Dreams

# CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

NAME MANJUNATH B J


COLLEGE ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY


has Successfully Completed

30 DAYS MASTERCLASS ON WEB DEVELOPMENT FULL STACK(Using React JS)

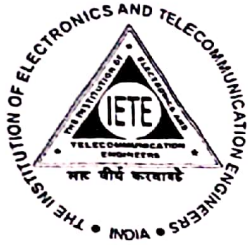
at Pantech e Learning Pvt Ltd

From 11.12.2023 to 10.01.2024


  
\_\_\_\_\_  
Sh. K. K. Thakur  
CHAIRMAN  
IETE, Ranchi

  
\_\_\_\_\_  
M. Malaiyappan  
Director  
Pantech e learning





CERTIFICATE NO PEL\_WEBDEV\_PART\_473

 Pantech e Learning  
Pantech e Learning Pvt Ltd

**PANTECH SOLUTIONS**  
Technology Beyond The Dreams

# CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

NAME LEKHAN KUMAR S


COLLEGE AIT


has Successfully Completed

30 DAYS MASTERCLASS ON WEB DEVELOPMENT FULL STACK(Using React JS)

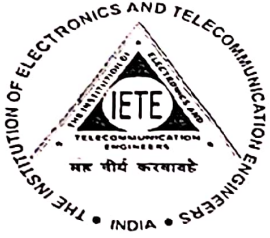
at Pantech e Learning Pvt Ltd

From 11.12.2023 to 10.01.2024

  
\_\_\_\_\_  
Sh. K. K. Thakur  
CHAIRMAN  
IETE, Ranchi

  
\_\_\_\_\_  
M. Malaiyappan  
Director  
Pantech e learning





CERTIFICATE NO PEL\_WEBDEV\_PART\_216



Pantech e Learning  
DIGITAL LEARNING SOLUTIONS

PANTECH SOLUTIONS  
Technology Beyond The Dreams

# CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

NAME ABHILASH N

COLLEGE ADHICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMANGALUR

has Successfully Completed

30 DAYS MASTERCLASS ON WEB DEVELOPMENT FULL STACK(Using React JS)

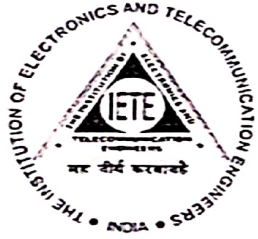
at Pantech e Learning Pvt Ltd

From 11.12.2023 to 10.01.2024

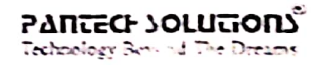
\_\_\_\_\_  
Sh. K. K. Thakur  
CHAIRMAN  
IETE, Ranchi

\_\_\_\_\_  
M.Malaiyappan  
Director  
Pantech e learning





CERTIFICATE NO PEL\_WEBDEV\_PART\_249



# CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

NAME CHIRAAG.A.E.

COLLEGE ADICHUCHANAGIRI INSTITUTE OF TECHNOLOGY

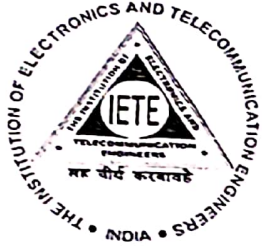
has Successfully Completed  
30 DAYS MASTERCLASS ON WEB DEVELOPMENT FULL STACK(Using React JS)

at Pantech e Learning Pvt Ltd

From 11.12.2023 to 10.01.2024

\_\_\_\_\_  
Sh. K. K. Thakur  
CHAIRMAN  
IETE, Ranchi

\_\_\_\_\_  
M.Malaivappan  
Director  
Pantech e learning



CERTIFICATE NO PAN\_EMBPART\_218

 Pantech e Learning  
DIGITAL LEARNING THROUGH E-LEARNING

**PANTECH SOLUTIONS**  
Technology Beyond The Dreams

# CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

NAME Pranamy.G

COLLEGE ADICHUNCHANAGIRI ISTITUTE OF TECHNOLOGY

has Successfully Completed  
21 DAYS MASTERCLASS ON EMBEDDED SYSTEMS(ARDUINO)

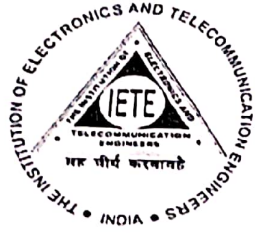
at Pantech e Learning Pvt Ltd

From 14.02.2024 to 05.03.2024


Sh. K. K. Thakur  
CHAIRMAN  
IETE, Ranchi

M.Malaiyappan  
Director  
Pantech e learning





CERTIFICATE NO PAN\_EMBPART\_697

 Pantech e Learning  
DIGITAL LEARNING SOLUTIONS

**PANTECH SOLUTIONS**  
Technology Beyond The Dreams

# CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

NAME Poornima Hg


COLLEGE ADI CHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

has Successfully Completed  
21 DAYS MASTERCLASS ON EMBEDDED SYSTEMS(ARDUINO)

at Pantech e Learning Pvt Ltd

From 14.02.2024 to 05.03.2024

\_\_\_\_\_  
Sh. K. K. Thakur  
CHAIRMAN  
IETE, Ranchi

  
\_\_\_\_\_  
M. Malaiyappan  
Director  
Pantech e learning



CERTIFICATE NO PEL\_WEBDEV\_PART\_179

 **Pantech e Learning**  
DIGITAL LEARNING REDEFINED

**PANTECH SOLUTIONS**  
Technology Beyond The Dreams

# CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

NAME MANJUNATH B J

COLLEGE ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY


has Successfully Completed

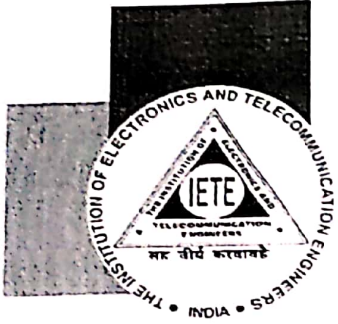
30 DAYS MASTERCLASS ON WEB DEVELOPMENT FULL STACK(Using React JS)

at Pantech e Learning Pvt Ltd

From 11.12.2023 to 10.01.2024

Sh. K. K. Thakur  
CHAIRMAN  
IETE, Ranchi

  
M. Malaivappan  
Director  
Pantech e learning



CERTIFICATE NO PAN\_PARTAVD\_193

# CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

NAME Soniya G


COLLEGE ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

has Successfully Completed  
21 Days Masterclass on Autonomous Vehicle Design

at Pantech e Learning Pvt Ltd

From 11.03.2024 to 31.03.2024

\_\_\_\_\_  
Sh. K. K. Thakur  
CHAIRMAN  
IETE, Ranchi

  
\_\_\_\_\_  
M. Malaiyappan  
Director  
Pantech e learning





This certificate is proudly awarded to

**Sinchana Kakade S**

For successfully completing an internship on

**Web Development**

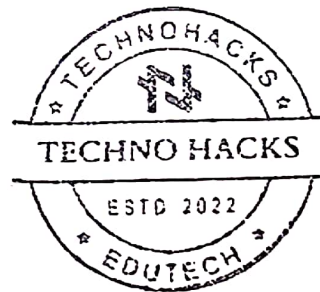
from **08/05/2024** to **07/06/2024** at **TechnoHacks Solutions Pvt. Ltd.**

During this internship, we found him/her consistent and hardworking.

We wish all the best for future endeavours.

**Certificate ID : TH02344**

**Founder & CEO**  
TechnoHacks EduTech



Scan to verify





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

ANANYA M

for successfully completing the course

## The Joy of Computing using Python

with a consolidated score of 55 %

Online Assignments	24.6/25	Proctored Exam	30/75
--------------------	---------	----------------	-------

Total number of candidates certified in this course: 12432

*Devendra Jalihal*

Prof. Devendra Jalihal

Chairperson,

Centre for Outreach and Digital Education, IITM

Jan-Apr 2024

(12 week course)

*Prof. Andrew Thangaraj*

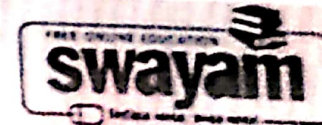
Prof. Andrew Thangaraj

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24CS575553600007

To verify the certificate



No. of credits recommended: 3 or 4





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

BHAVANA HP

for successfully completing the course

The Joy of Computing using Python

with a consolidated score of 55 %

Online Assignments	24.56/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 12432

*Devendra Jalihal*

Prof. Devendra Jalihal

Chairperson,

Centre for Outreach and Digital Education, IITM

Jan-Apr 2024

(12 week course)

*Prof. Andrew Thangaraj*

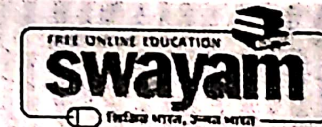
Prof. Andrew Thangaraj

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24CS57S55360009

To verify the certification



No. of credits recommended: 3 or 4







Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

NIRANJAN G M

for successfully completing the course

Sensors and Actuators

with a consolidated score of 70 %

Online Assignments	20.94/25	Proctored Exam	49.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 1821

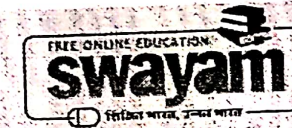
Prof. G. L. Sivakumar Babu  
Chairman, Center for Continuing Education  
IISc Bangalore

Jan-Apr 2024  
(12 week course)

Prof. L. Umanand  
NPTEL Coordinator  
IISc Bangalore



Indian Institute of Science Bangalore



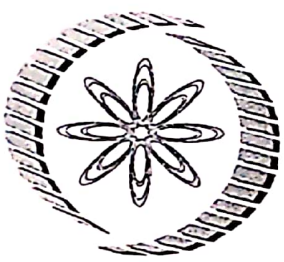
Roll No: NPTEL24EE45S953600041

To verify the certificate



No. of credits recommended: 3 or 4





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**ARPITHA K R**

for successfully completing the course

## Introduction to Internet of Things

with a consolidated score of **75** %

Online Assignments	23.75/25	Proctored Exam	51/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **32882**

**Jan-Apr 2024**

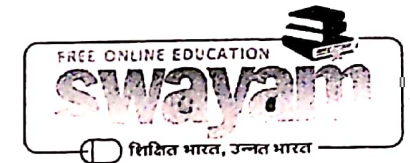
(12 week course)

**Prof. Haimanti Banerji**

Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS35S553600038

To verify the certificate

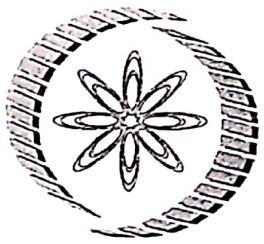


No. of credits recommended: 3 or 4



Scanned with Oken Scanner





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**BHAGAVANTRAYA SANKANOOR**  
for successfully completing the course

## Introduction to Internet of Things

with a consolidated score of **64** %

Online Assignments	23.75/25	Proctored Exam	40.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **32882**

Jan-Apr 2024

(12 week course)

**Prof. Haimanti Banerji**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS35S553600010

To verify the certificate



No. of credits recommended: 3 or 4



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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SONIYA G**

for successfully completing the course

**Python for Data Science**

with a consolidated score of **70** %

Online Assignments	23.67/25	Proctored Exam	45.92/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **11953**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,

Centre for Outreach and Digital Education, IITM

**Jan-Feb 2024**

**(4 week course)**

*Prof. Andrew Thangaraj*

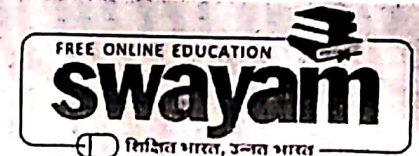
**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24CS54S646800041

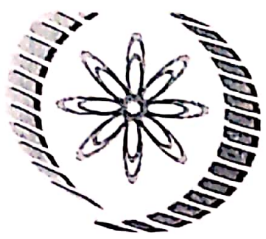
To verify the certificate



No. of credits recommended: 1 or 2



Scanned with Oken Scanner



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**SHANVI D**  
for successfully completing the course  
**Python for Data Science**

with a consolidated score of **60** %

Online Assignments	23.67/25	Proctored Exam	36.21/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **11953**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,

Centre for Outreach and Digital Education, IITM

**Jan-Feb 2024**

(4 week course)

*Andrew Thangaraj*

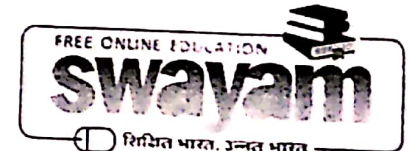
**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24CS54S646800037

To verify the certificate



No. of credits recommended: 1 or 2



Scanned with Oken Scanner



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**PUNITH TR**

for successfully completing the course

**Python for Data Science**

with a consolidated score of **56** %

Online Assignments	25/25	Proctored Exam	30.62/75
--------------------	-------	----------------	----------

Total number of candidates certified in this course: **11953**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,

Centre for Outreach and Digital Education, IITM

**Jan-Feb 2024**

**(4 week course)**

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24CS54S646800031

To verify the certificate

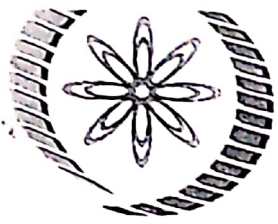


No. of credits recommended: 1 or 2



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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**PRANAMYA G**

for successfully completing the course

**Python for Data Science**

with a consolidated score of **46** %

Online Assignments	15.83/25	Proctored Exam	30.62/75
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Total number of candidates certified in this course: **11953**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,

Centre for Outreach and Digital Education, IITM

**Jan-Feb 2024**

**(4 week course)**

*Prof. Andrew Thangaraj*

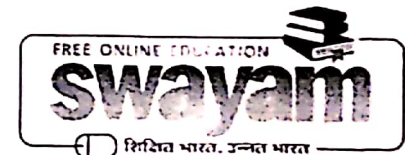
**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24CS54S546800019

To verify the certificate



No. of credits recommended: 1 or 2



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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**BIBI SWAGRA**

for successfully completing the course

**Software Testing**

with a consolidated score of **51** %

Online Assignments	15.42/25	Proctored Exam	36/75
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Total number of candidates certified in this course: 1519

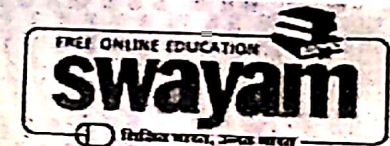
Jan-Feb 2024

(4 week course)

Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS47S446800019

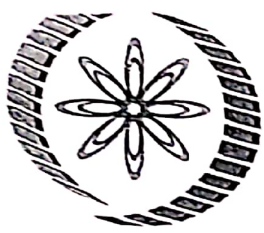
To verify the certificate



No. of credits recommended: 1 or 2







# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SANJAY J K**

for successfully completing the course

**The Joy of Computing Using Python**

with a consolidated score of **57** %

Online Assignments	23.97/25	Proctored Exam	33.51/75
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Total number of candidates certified in this course: **16145**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,

Centre for Outreach and Digital Education, IITM

**Jul-Oct 2023**

**(12 week course)**

*Prof. Andrew Thangaraj*

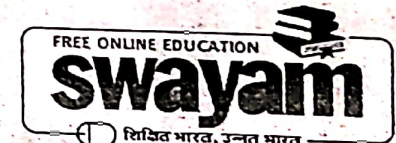
**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23CS108S633600109

To verify the certificate



No. of credits recommended: 3 or 4



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