SRI VENKATESWARA

COLLEGE OF ENGINEERING AND TECHNOLOGY

Thirupachur-631203, Tiruvallur TK & DT

Approved by AICTE New Delhi & Affiliated to Anna University, Chennai

(A Telugu Minority Institution)

20EEEVAC01 – INDUSTRIAL INTERNET OF THINGS

EVENT REPORT

Name of the Course: INDUSTRIAL INTERNET OF THINGS

Name of the Instructor: Mr. R. Govindarajan, Asst. Prof, PIT

Year and Branch: II, III, IV & ME-PED – ELECTRICAL AND ELECTRONICS ENGINEERING

Duration of Course: 35 Hrs (**17.08.2020** to **22.08.2020**)

SUMMARY OF THE EVENT:

The Course was inaugurated on **17.08.2020** at 8.30 am by our respectable Principal and HOD. As per the Course plan session was started and went smooth for the Remaining days. On the last day **22.08.2020** by 3.30 pm the course was Completed Successfully.

During the Six Days of the program Students were participated with enthusiasm and they finally gained a knowledge on **"Industrial Internet of Things"**

ASSESMENT MODE:

No of Students Enrolled: 87

No of Students appeared: 87

Date of Exam: 22.08.2020

Scheme of Exam: Online

No of Students Passed: 87

OUTCOME:

The students were able to understand role of IOT industry, to Acquire Knowledge of recent trends of IOT sensors, to design various communication technologies of IIOT, to gain Knowledge of Communication Protocols.

COORDINATOR

(Mrs. S. S. Divya)

HOD /EEE

(Mr. M. Namachivayam)

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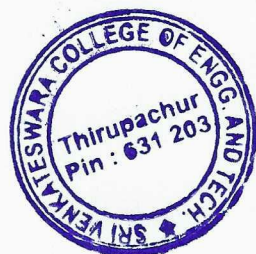Thirupachur, Thiruvallur - 631 203

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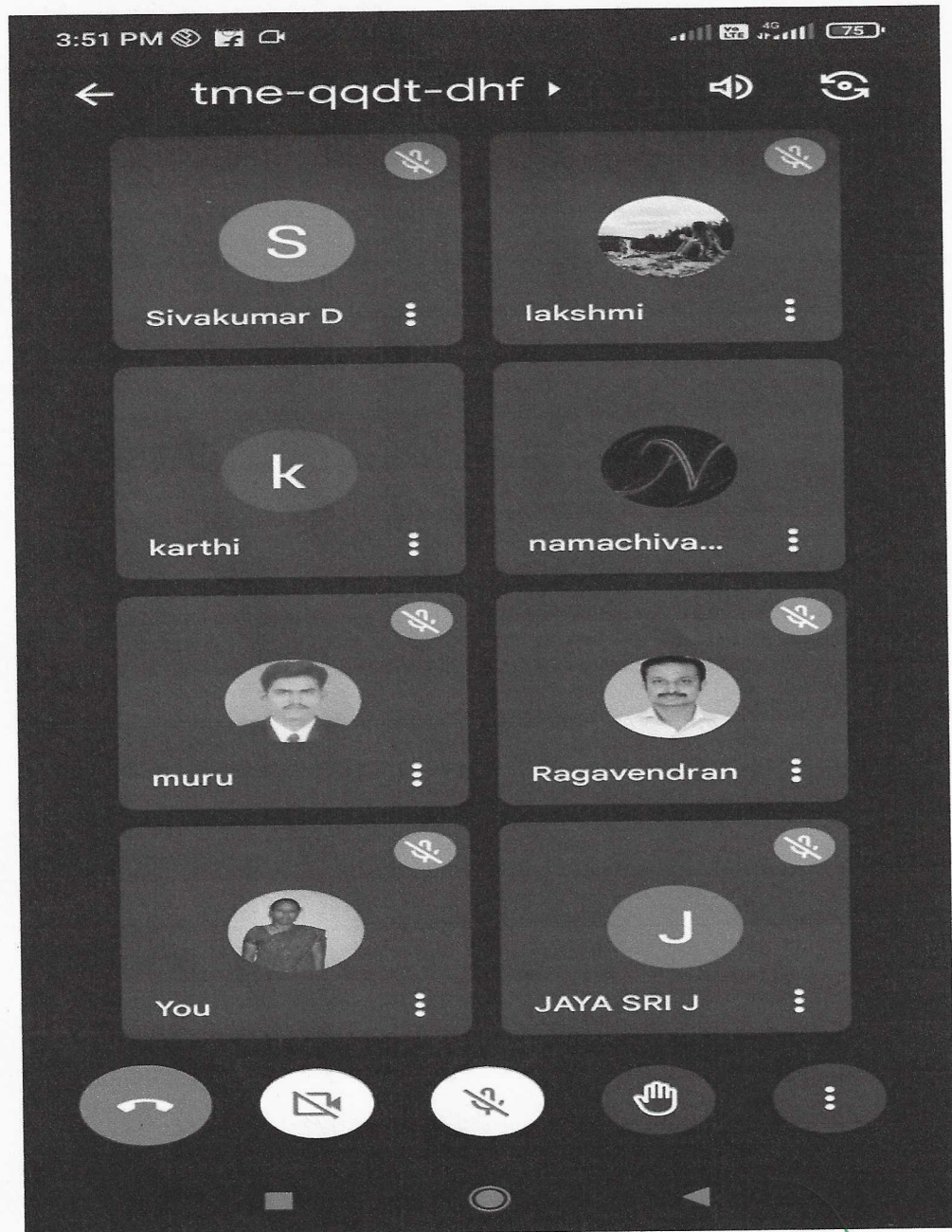**20EEEVAC01 – INDUSTRIAL INTERNET OF THINGS**

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REQUEST LETTER

From

Mr. M. Namachivayam

HOD /EEE

SVCET

Thirupachur.

Permitted

To,

The Principal
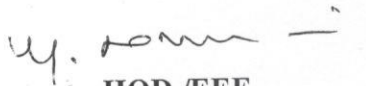
SVCET

Thirupachur

Respected sir,

Sub: Requesting permission to conduct a 6 Days value added course –Reg

As the head of **Electrical and Electronics Engineering** Department, I would like to request your support and permission to conduct Training Program on **"Industrial Internet of Things"** in our department. There is a need that has been identified of keeping the students up to date with the new technologies. Most students would not have knowledge on this area which is not our available in our curriculum. So, there is need for a there is need for this program to challenge the industry opportunities.

The dates for the Training program have been fixed. The Training will start on 17.08.2020 and end on 22.08.2020 (35Hrs). Will be handled by Mr. R. Govindharajan, Assistant Professor, Priyadharshini Institute of Technology

Please find the attached Invitation, circular to students, and a presentation highlighting the key areas that will be focused in the Training program.

Thanking You

HOD /EEE

(Mr. M. Namachivayam)

PRINCIPAL

(Dr. J. Venkatesh)

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Thirupachur, Thiruvallur - 631 203

03.08.2020

CIRCULAR

The department of Electrical and Electronics Engineering will be conducting value added course on **"Industrial Internet of Things"** from **17.08.2020** to **22.08.2020** (35 Hrs). It is proposed to keep the students up to date with the new technologies.

All the students are requested to participate actively, certificate will be provided for the enrolled Participants.

All the interested candidates should enroll their names to Mrs. S. S. Divya, Assistant Professor, Department of Electrical and Electronics Engineering on or before **07.08.2020**

HOD /EEE
(Mr. M. Namachivayam)

PRINCIPAL
(Dr. J. Venkatesh)

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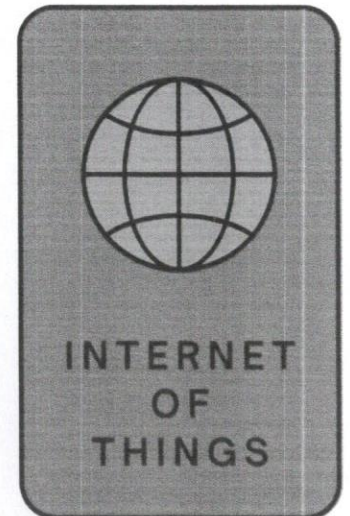## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEEERING
"INDUSTRIAL INTERNET OF THINGS"

Date : 17.08.2020 - 22.08.2020

RESOURCE PERSON

1. R. Govindharajan Asst Prof,
Priyadharshini Institute of Tech, Thirupathi

INTERNET OF THINGS

Mr. M. Namachivayam

HOD / EEE

Dr.J. Venkatesh

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RESOURCE PERSON PROFILE

Resource person:1

Name	:	Mr. R. Govindharajan
Designation	:	Assistant Professor
Department	:	EEE
Organization	:	Priyadharshini Institute of Technology, Tirupathi
Phone Number	:	9865270702
Email.ID	:	govindharajanrajan@gmail.com
Qualification	:	ME
Experience	:	15 years

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20EEEVAC01 – INDUSTRIAL INTERNET OF THINGS

COURSE CONTENT

OBJECTIVES

- To Impart Knowledge of Architecture of IIOT
- To learn about different components of Industrial Internet of Things
- To impart Knowledge of communication protocols

MODULE-I: INTRODUCTION INDUSTRIAL INTERNET OF THINGS

Introduction & Architecture, Theory, what is IIoT and connected world, The differences between IIoT and IIoT, Architecture of IIoT, IIoT node, challenges of IIOT.

MODULE-II: IIOT COMPONENTS THEORY

Fundamentals of Control Systems, Introductions, components, closed loop & open loop system. Introduction to Sensors (Description and Working Principle): What is sensor? Types of sensors, working principle of basic sensors – Ultrasonic Sensor, IR sensor, MQ2, Temperature and Humidity Sensors (DHT – Digital switch, Electro Mechanical switches.

MODULE-III: COMMUNICATION TECHNOLOGIES OF IIOT THEORY
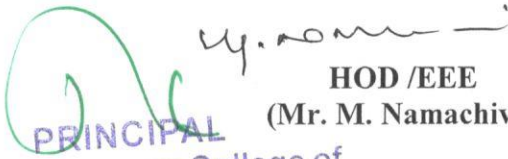
Communication Protocols: IEEE802.15.4, Zig Bee, Z Wave, Bluetooth, BLE, NFC, RFID industry standards communication technology (LoRAWAN), OPC UA, MQTT), connecting into existing Modbus and Profibus technology, wireless network communication. Visualization and Data Types of IIoT, Theory, Retrieving Data, Extraction from Web: Grabbing the content from a web page, sending data on the web page, Troubleshooting basic Arduino issues, Types of IoT interaction, Machine to Machine interaction (M2M): Control & Supervisory level of automation, Theory. Application: Health monitoring, IoT smart city, Smart irrigation, Robot Surveillance

OUTCOMES:

- Understand role of IoT in industry.
- Apply recent trends of IoT sensors.
- Design various communication technologies of IIOT.

COORDINATOR

(Mrs. S. S. Divya)

HOD /EEE

(Mr. M. Namachivayam)

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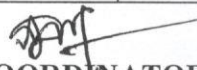Thirupachur-631203, Tiruvallur TK & DT
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20EEEVAC01 – INDUSTRIAL INTERNET OF THINGS
COURSE SCHEDULE

6 Days Training Schedule –INDUSTRIAL INTERNET OF THINGS			
Day & Date	Session & Time	Speaker Name	Session Topics
Day 1 & 17.08.2020	8.30 am to 10.30am	Mr. R. Govindharajan, Asst Prof, PIT	Introduction Industrial internet of things
	10.45 am to 12.45 pm	Mr. R. Govindharajan, Asst Prof, PIT	Introduction & Architecture
	1.30 pm to 3.30pm	Mr. R. Govindharajan, Asst Prof, PIT	Difference between IoT and IIoT.
Day 2 & 18.08.2020	8.30 am to 10.30am	Mr. R. Govindharajan, Asst Prof, PIT	Architecture of IIoT, IOT node, Challenges of IIOT
	10.45 am to 12.45 pm	Mr. R. Govindharajan, Asst Prof, PIT	Fundamentals of Control System
	1.30 pm to 3.30pm m	Mr. R. Govindharajan, Asst Prof, PIT	Introduction to Sensors
Day 3 & 19.08.2020	8.30 am to 10.30am	Mr. R. Govindharajan, Asst Prof, PIT	Communication Technologies of IIOT
	10.45 am to 12.45 pm	Mr. R. Govindharajan, Asst Prof, PIT	Communication Protocols: IEEE 802.15.4, ZigBee
	1.30 pm to 3.30pm	Mr. R. Govindharajan, Asst Prof, PIT	Z Wave, Bluetooth, BLE, NFC, RFID
Day 4 & 20.08.2020	8.30 am to 10.30am	Mr. R. Govindharajan, Asst Prof, PIT	Data Types of IIOT. Theory
	10.45 am to 12.45 pm	Mr. R. Govindharajan, Asst Prof, PIT	Machine to Machine interaction (M2M)
	1.30 pm to 3.30pm	Mr. R. Govindharajan, Asst Prof, PIT	IoT smart city, Smart irrigation, Robot surveillance
Day 5 & 21.08.2020	8.30 am to 10.30am	Mr. R. Govindharajan, Asst Prof, PIT	Control & Supervisory Level of Automation. Theory.
	10.45 am to 12.45 pm	Mr. R. Govindharajan, Asst Prof, PIT	Automation. Theory.
	1.30 pm to 3.30pm	Mr. R. Govindharajan, Asst Prof, PIT	Application: Health monitoring
Day 6 & 22.08.2020	8.30 am to 10.30am	Mr. R. Govindharajan, Asst Prof, PIT	Recent trends of IoT sensors
	10.45 am to 12.45 pm	Mr. R. Govindharajan, Asst Prof, PIT	Application Of Digital Watches
	1.30 pm to 2.30pm	Mr. R. Govindharajan, Asst Prof, PIT	Profibus Technology

COORDINATOR

(Mrs. S. S. Divya)

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Pin : 631 203

HOD /EEE

(Mr. M. Namachivayam)

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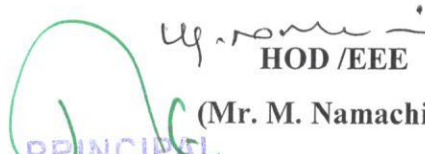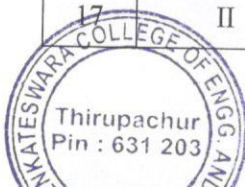## COLLEGE OF ENGINEERING AND TECHNOLOGY
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20EEEVAC01 – INDUSTRIAL INTERNET OF THINGS

Course Code	20EEEVAC01
Name of the Course	INDUSTRIAL INTERNET OF THINGS
Duration of the Course	35 HOURS
Academic Year	2020-21
Period of the Course	17.08.2020-22.08.2020

LIST OF STUDENTS ENROLLED

S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS
1	II	112419105001	BALAJI M
2	II	112419105002	HARISHKUMARAN A
3	II	112419105004	PRAVEENKUMAR D
4	II	112419105005	PREMAVATHI C
5	II	112419105006	RAKESHKUMAR J
6	II	112419105007	SNEHA N
7	II	112419105008	SONIYA K
8	II	112419105009	SRIDEVI K
9	II	112419105010	SUNILKUMAR B
10	II	112419105011	THULASIRAMAN B
11	II	112419105302	DEVANATHAN R
12	II	112419105303	GURUMOORTHY R
13	II	112419105304	JOTHIRAJAN T
14	II	112419105305	KALANITHI R
15	II	112419105306	NARESHKUMAR V
16	II	112419105307	PARTHIBAN S
17	II	112419105308	PRADEEPRAJ R

Thirupachur
Pin : 631 203

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S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS
18	II	112419105309	RAMAMOORTHY L
19	II	112419105310	SANTHOSH R
20	II	112419105311	SURENDHAR A
21	II	112419105312	VIJAY M
22	III	112418105001	ASWIN.E
23	III	112418105002	BHARANIDHRAN.M
24	III	112418105003	BHARATHI C.K
25	III	112418105004	DHAYANITHI.G
26	III	112418105006	DINESH.B
27	III	112418105007	KARTHICK .D
28	III	112418105008	MOHAMMED JUNAID AHMED.N
29	III	112418105009	PRASANNA KUMAR.K
30	III	112418105010	RAKESH.R
31	III	112418105011	SHARAN.G
32	III	112418105012	TAMILVANAN.D
33	III	112418105013	VENKATESAN.R
34	III	112418105014	VIJAYA KUMAR.S
35	III	112418105015	VINOTHINI.R
36	III	112418105016	YUVARAJ.N
37	III	112418105302	ANBARASAN A
38	III	112418105304	BALAJI C
39	III	112418105305	BALAKUMARAN S
40	III	112418105306	DEEPAK D
41	III	112418105308	JAYASEELAN D
42	III	112418105310	PERUMAL G

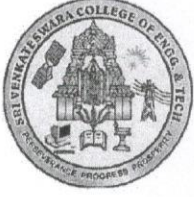PRINCIPAL
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S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS
43	III	112418105311	PRAGADEESHWARAN A
44	III	112418105312	RAMYA S
45	III	112418105313	SATHYA MOORTHY R
46	III	112418105314	SUBHAM THAKUR
47	III	112418105315	SUGUMARAN Á
48	III	112418105316	SUSANTHIKA C
49	III	112418105317	VASANTH V
50	III	112418105318	VINOTH KUMAR M
51	IV	112417105001	ANANDHA PRIYA.R
52	IV	112417105002	AKASH.A
53	IV	112417105003	AMMU.E
54	IV	112417105004	ANAND.S
55	IV	112417105005	CHANDRAMOULI.K
56	IV	112417105007	DIVAKAR.K
57	IV	112417105008	GAYATHRI.V
58	IV	112417105009	KIRUBAKARAN.G
59	IV	112417105010	KISHOREKUMAR S
60	IV	112417105011	MONISH.B
61	IV	112417105013	NAVANEETHA HALDER
62	IV	112417105014	NAVEENA.P
63	IV	112417105015	PRADEEBAN.V
64	IV	112417105017	PRAVEEN KUMAR.J
65	IV	112417105018	RAMYA.J.C
66	IV	112417105019	SNEHA.M
67	IV	112417105020	SONA.S

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S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS
68	IV	112417105021	SUBATHRA.K.S
69	IV	112417105023	SURESH KUMAR.R
70	IV	112417105025	UMA MAHESHWARI.R
71	IV	112417105026	VIGNESHWAR.D
72	IV	112417105027	VIGNESHWARAN.R
73	IV	112417105028	VIJAYESHWARAN.B
74	IV	112417105029	VIKRAM.S
75	IV	112417105301	AJAY KUMAR.K
76	IV	112417105302	JENIPER.M
77	IV	112417105303	KAMALAKKANNAN.V
78	IV	112417105304	KARTHIRAVAN.D
79	IV	112417105305	LAKSHMI PRASAD.D.M
80	IV	112417105306	MAGESHWARAN.M
81	I-ME-PED	112420415001	ARPUTHA RUBY
82	I-ME-PED	112420415002	SANGEETHA R
83	I-ME-PED	112420415003	SHANMUGARAJAN
84	II-ME-PED	112419415001	AJITH KUMAR R
85	II-ME-PED	112419415002	ANANTHI S
86	II-ME-PED	112419415003	NANDHINI M
87	II-ME-PED	112419415004	SRIRANJANI N

COORDINATOR

(Mrs. S. S. Divya)

HOD /EEE

(Mr. M. Namachivayam)

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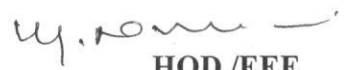Thirupachur, Thiruvallur - 631 203

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Duration of the Course	35 HOURS
Academic Year	2020-21
Period of the Course	17.08.2020-22.08.2020

ATTENDANCE

S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	17.08.2020 6 HOURS		18.08.2020 6 HOURS		19.08.2020 6 HOURS		20.08.2020 6 HOURS		21.08.2020 6 HOURS		22.08.2020 5 HOURS		TOTAL HOURS (35)
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
1	II	112419105001	BALAJI M	/	/	/	/	/	/	/	/	/	/	/	/	35
2	II	112419105002	HARISHKUMARAN A	/	/	/	/	/	/	/	/	/	/	/	/	35
3	II	112419105004	PRAVEENKUMAR D	/	/	/	/	/	/	/	/	/	/	/	/	35
4	II	112419105005	PREMAVATHI C	/	/	/	/	/	/	/	/	/	/	/	/	35
5	II	112419105006	RAKESHKUMAR J	/	/	/	/	/	/	/	/	/	/	/	/	35
6	II	112419105007	SNEHA N	/	/	/	/	/	/	/	/	/	/	/	/	35
7	II	112419105008	SONIYA K	/	/	/	/	/	/	/	/	/	/	/	/	35
8	II	112419105009	SRIDEVI K	/	/	/	/	/	/	/	/	/	/	/	/	35
9	II	112419105010	SUNILKUMAR B	/	/	/	/	/	/	/	/	/	/	/	/	35
10	II	112419105011	THULASIRAMAN B	/	/	/	/	/	/	/	/	/	/	/	/	35
11	II	112419105302	DEVANATHAN R	/	/	/	/	/	/	/	/	/	/	/	/	35
12	II	112419105303	GURUMOORTHY R	/	/	/	/	/	/	/	/	/	/	/	/	35
13	II	112419105304	JOTHIRAJAN T	/	/	/	/	/	/	/	/	/	/	/	/	35
14	II	112419105305	KALANITHI R	/	/	/	/	/	/	/	/	/	/	/	/	35
15	II	112419105306	NARESHKUMAR V	/	/	/	/	/	/	/	/	/	/	/	/	35

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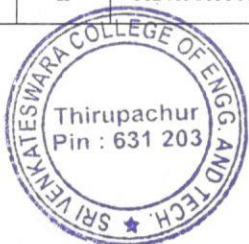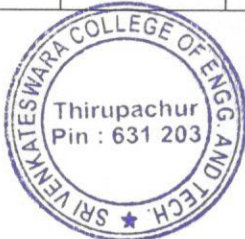## COLLEGE OF ENGINEERING AND TECHNOLOGY
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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
16	II	112419105307	PARTHIBAN S	/	/	/	/	/	/	/	/	/	/	/	/	35
17	II	112419105308	PRADEEPRAJ R	/	/	/	/	/	/	/	/	/	/	/	/	35
18	II	112419105309	RAMAMOORTHY L	/	/	/	/	/	/	/	/	/	/	/	/	35
19	II	112419105310	SANTHOSH R	/	/	/	/	/	/	/	/	/	/	/	/	35
20	II	112419105311	SURENDHAR A	/	/	/	/	/	/	/	/	/	/	/	/	35
21	II	112419105312	VIJAY M	/	/	/	/	/	/	/	/	/	/	/	/	35
22	III	112418105001	ASWIN.E	/	/	/	/	/	/	/	/	/	/	/	/	35
23	III	112418105002	BHARANIDHRAN.M	/	/	/	/	/	/	/	/	/	/	/	/	35
24	III	112418105003	BHARATHI C.K	/	/	/	/	/	/	/	/	/	/	/	/	35
25	III	112418105004	DHAYANITHI.G	/	/	/	/	/	/	/	/	/	/	/	/	35
26	III	112418105006	DINESH.B	/	/	/	/	/	/	/	/	/	/	/	/	35
27	III	112418105007	KARTHICK .D	/	/	/	/	/	/	/	/	/	/	/	/	35
28	III	112418105008	MOHAMMED JUNAID AHMED.N	/	/	/	/	/	/	/	/	/	/	/	/	35
29	III	112418105009	PRASANNA KUMAR.K	/	/	/	/	/	/	/	/	/	/	/	/	35
30	III	112418105010	RAKESH.R	/	/	/	/	/	/	/	/	/	/	/	/	35
31	III	112418105011	SHARAN.G	/	/	/	/	/	/	/	/	/	/	/	/	35
32	III	112418105012	TAMILVANAN.D	/	/	/	/	/	/	/	/	/	/	/	/	35
33	III	112418105013	VENKATESAN.R	/	/	/	/	/	/	/	/	/	/	/	/	35
34	III	112418105014	VIJAYA KUMAR.S	/	/	/	/	/	/	/	/	/	/	/	/	35
35	III	112418105015	VINOTHINI.R	/	/	/	/	/	/	/	/	/	/	/	/	35
36	III	112418105016	YUVARAJ.N	/	/	/	/	/	/	/	/	/	/	/	/	35

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Thirupachur-631203, Tiruvallur TK & DT
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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	17.08.2020 6 HOURS		18.08.2020 6 HOURS		19.08.2020 6 HOURS		20.08.2020 6 HOURS		21.08.2020 6 HOURS		22.08.2020 5 HOURS		TOTAL HOURS (35)
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
37	III	112418105302	ANBARASAN A	/	/	/	/	/	/	/	/	/	/	/	/	35
38	III	112418105304	BALAJI C	/	/	/	/	/	/	/	/	/	/	/	/	35
39	III	112418105305	BALAKUMARAN S	/	/	/	/	/	/	/	/	/	/		/	35
40	III	112418105306	DEEPAK D	/	/	/	/	/	/	/	/	/	/	/	/	35
41	III	112418105308	JAYASEELAN D	/	/	/	/	/	/	/	/	/	/		/	35
42	III	112418105310	PERUMAL G	/	/	/	/	/	/	/	/	/	/	/	/	35
43	III	112418105311	PRAGADEESHWARAN A	/	/	/	/	/	/	/	/	/	/	/	/	35
44	III	112418105312	RAMYA S	/	/	/	/	/	/	/	/	/	/	/	/	35
45	III	112418105313	SATHYA MOORTHY R	/	/	/	/	/	/	/	/	/	/	/	/	35
46	III	112418105314	SUBHAM THAKUR	/	/	/	/	/	/	/	/	/	/	/	/	35
47	III	112418105315	SUGUMARAN A	/	/	/	/	/	/	/	/	/	/	/	/	35
48	III	112418105316	SUSANTHIKA C	/	/	/	/	/	/	/	/	/	/	/	/	35
49	III	112418105317	VASANTH V	/	/	/	/	/	/	/	/	/	/	/	/	35
50	III	112418105318	VINOTH KUMAR M	/	/	/	/	/	/	/	/	/	/	/	/	35
51	IV	112417105001	ANANDHA PRIYA.R	/	/	/	/	/	/	/	/	/	/	/	/	35
52	IV	112417105002	AKASH.A	/	/	/	/	/	/	/	/	/	/	/	/	35
53	IV	112417105003	AMMU.E	/	/	/	/	/	/	/	/	/	/	/	/	35
54	IV	112417105004	ANAND.S	/	/	/	/	/	/	/	/	/	/	/	/	35
55	IV	112417105005	CHANDRAMOULI.K	/	/	/	/	/	/	/	/	/	/	/	/	35
56	IV	112417105007	DIVAKAR.K	/	/	/	/	/	/	/	/	/	/	/	/	35
57	IV	112417105008	GAYATHRI.V	/	/	/	/	/	/	/	/	/		/	/	35

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Thirupachur
Pin : 631 203

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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	17.08.2020 6 HOURS		18.08.2020 6 HOURS		19.08.2020 6 HOURS		20.08.2020 6 HOURS		21.08.2020 6 HOURS		22.08.2020 5 HOURS		TOTAL HOURS (35)
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
58	IV	112417105009	KIRUBAKARAN.G	/	/	/	/	/	/	/	/	/	/	/	/	35
59	IV	112417105010	KISHOREKUMAR S	/	/	/	/	/	/	/	/	/	/	/	/	35
60	IV	112417105011	MONISH.B	/	/	/	/	/	/	/	/	/	/	/	/	35
61	IV	112417105013	NAVANEETHA HALDER	/	/	/	/	/	/	/	/	/	/	/	/	35
62	IV	112417105014	NAVEENA.P	/	/	/	/	/	/	/	/	/	/	/	/	35
63	IV	112417105015	PRADEEBAN.V	/	/	/	/	/	/	/	/	/	/	/	/	35
64	IV	112417105017	PRAVEEN KUMAR.J	/	/	/	/	/	/	/	/	/	/	/	/	35
65	IV	112417105018	RAMYA.J.C	/	/	/	/	/	/	/	/	/	/	/	/	35
66	IV	112417105019	SNEHA.M	/	/	/	/	/	/	/	/	/	/	/	/	35
67	IV	112417105020	SONA.S	/	/	/	/	/	/	/	/	/	/	/	/	35
68	IV	112417105021	SUBATHRA.K.S	/	/	/	/	/	/	/	/	/	/	/	/	35
69	IV	112417105023	SURESH KUMAR.R	/	/	/	/	/	/	/	/	/	/	/	/	35
70	IV	112417105025	UMA MAHESHWARI.R	/	/	/	/	/	/	/	/	/	/	/	/	35
71	IV	112417105026	VIGNESHWAR.D	/	/	/	/	/	/	/	/	/	/	/	/	35
72	IV	112417105027	VIGNESHWARAN.R	/	/	/	/	/	/	/	/	/	/	/	/	35
73	IV	112417105028	VIJAYESHWARAN.B	/	/	/	/	/	/	/	/	/	/	/	/	35
74	IV	112417105029	VIKRAM.S	/	/	/	/	/	/	/	/	/	/	/	/	35
75	IV	112417105301	AJAY KUMAR.K	/	/	/	/	/	/	/	/	/	/	/	/	35
76	IV	112417105302	JENIPER.M	/	/	/	/	/	/	/	/	/	/	/	/	35
77	IV	112417105303	KAMALAKKANNAN.V	/	/	/	/	/	/	/	/	/	/	/	/	35
78	IV	112417105304	KARTHIRAVAN.D	/	/	/	/	/	/	/	/	/	/	/	/	35

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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
79	IV	112417105305	LAKSHMI PRASAD.D.M	/	/	/	/	/	/	/	/	/	/	/	/	35
80	IV	112417105306	MAGESHWARAN.M	/	/	/	/	/	/	/	/	/	/	/	/	35
81	I-ME-PED	112420415001	ARPUTHA RUBY	/	/	/	/	/	/	/	/	/	/	/	/	35
82	I-ME-PED	112420415002	SANGEETHA R	/	/	/	/	/	/	/	/	/	/	/	/	35
83	I-ME-PED	112420415003	SHANMUGARAJAN	/	/	/	/	/	/	/	/	/	/	/	/	35
84	II-ME-PED	112419415001	AJITH KUMAR R	/	/	/	/	/	/	/	/	/	/	/	/	35
85	II-ME-PED	112419415002	ANANTHI S	/	/	/	/	/	/	/	/	/	/	/	/	35
86	II-ME-PED	112419415003	NANDHINI M	/	/	/	/	/	/	/	/	/	/	/	/	35
87	II-ME-PED	112419415004	SRIRANJANI N	/	/	/	/	/	/	/	/	/	/	/	/	35

COORDINATOR

(Mrs. S. S. Divya)

HOD /EEE

(Mr. M. Namachivayam)

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20EEEVAC01 – INDUSTRIAL INTERNET OF THINGS
TEST QUESTIONS

1. The standard length of the MAC address is
   a) 16 bits
   b) 48 bits
   c) 32 bits
   d) 8 bits

2. What is the full form of IoT?
   a) Internet of Technology
   b) Incorporate of Things
   c) Internet of Things
   d) Incorporate of Technology

3. What is IoT?
   a) network of physical objects embedded with sensors
   b) network of virtual objects
   c) network of objects in the ring structure
   d) network of sensors

4. What is the use of PWM signals in IoT development boards?
   a) They are used by sensors to have analog input
   b) They are used by sensors to have digital input
   c) They are used by actuators to have analog input
   d) They are used by actuators to have digital input

5. Which of the following is true about Arduino IoT devices?
   a) They are open-source software
   b) They can only read analog inputs
   c) They have their own operating systems
   d) They don't have pre-programmed firmware

6. What is the role of Cloud in smart grid architecture of IoT?
   a) Security
   b) Collect data
   c) Manage data
   d) Store data

7. Dweet.io provides   to send data from IoT devices.
   a) Web API
   b) POST HTTP
   c) JSON
   d) HTTP

8. To avoid aliasing we use a   filter
   a) Digital filter
   b) Aliasing filter
   c) Analog filer
   d) Anti-aliasing filter

9. What is the default boot loader of the Arduino UNO?
   a) Optiboot boot loader
   b) AIR-boot
   c) Bare box
   d) GAG

10. Which of the following is not an application of lot?
    a) Wearable's
    b) Smart Grid
    c) Arduino
    d)Smart city

11. Which interface does the fingerprint sensor use?
    a)UART interface
    b)CoAP interface
    c)SPI interface
    d) 12P interface

12. What is the full form of HDLC?
    a) Higher Data Level Communication
    b) Higher Data Link Communication
    c) High-level Data Link Control
    d) High Data Level Control

13. Which of the following touch sensors is used in a cell phone?
    a) Resistive touch sensors
    b) Human sensor
    c) Capacitive touch sensor
    d) Follow sensor

14. Which of the following is the example of a short-range wireless network?
    a) VPN
    b) Wi-Fi
    c) Internet
    d)WWW

15. Active Engagement Features of IOT means?

    a) IoT makes the connected technology, product, or services to active engagement between each other.

    b) It makes the complete failure of the system.

    c) IoT makes things smart and enhances life through the use of data.

    d) None of the above

16. Which is the future application of IoT?

    a) QoS in communication

    b) Role of green IoT system

    c) Secure communication

    d) Multimedia communication

17. Open IoT manages the registration, data acquisition, deployment of sensors and interconnected objects, through which network?

    a) GSN

    b) X-GSN

    c) LSM

    d) HTTP

18. Which language is preferred for IOT analytics?

    a) C++

    b) Python

    c) HTML

    d) OHP

19. Which network is used by a sensor?

    a) PAN and LAN

    b) PAN and HAN

    c) HAN and LAN

    d) HAN, PAN, and LAN

20. The filtering is a security measure on various wireless networks:

    a. IP

    b. OUI

    c. MAC

    d. NIC Act

COORDINATOR

(Mrs. S. S. Divya)

HOD /EEE

(Mr. M. Namachivayam)

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20EEEVAC01 – INDUSTRIAL INTERNET OF THINGS
FEEDBACK FORM

FEEDBACK FORM

20EEEVAC01 – INDUSTRIAL INTERNET OF THINGS

* indicates required question

YEAR/SEM *
REGISTER NUMBER & NAME OF STUDENT

IV/II-112410519002-A.Harish Kumaran-22.08.2020

1. This course was interesting

☐ a) Strongly Agree
☑ b) Agree
☐ c) Moderate
☐ d) Disagree
☐ e) Strongly Disagree

2. Was this course useful?

☐ a) Strongly Agree
☑ b) Agree
☐ c) Moderate
☐ d) Disagree
☐ e) Strongly Disagree

3. During the course did you find any technical Difficulties?

☐ a) Strongly Agree
☐ b) Agree
☐ c) Moderate
☑ d) Disagree
☐ e) Strongly Disagree

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4. Did the instructor delivered the information, you didn't know already

- ☐ a) Strongly Agree
- ☑ b) Agree
- ☐ c) Moderate
- ☐ d) Disagree
- ☐ e) Strongly Disagree

5. The Subject matter was presented effectively

- ☐ a) Strongly Agree
- ☑ b) Agree
- ☐ c) Moderate
- ☐ d) Disagree
- ☐ e) Strongly Disagree

6. This instructor helped me learn about how the course works in the real world.

- ☐ a) Strongly Agree
- ☑ b) Agree
- ☐ c) Moderate
- ☐ d) Disagree
- ☐ e) Strongly Disagree

7. This instructor provided information I can use to be successful in my career.

- ☐ a) Strongly Agree
- ☑ b) Agree
- ☐ c) Moderate
- ☐ d) Disagree
- ☐ e) Strongly Disagree

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8. Overall how do you rate the Training Program?

- ☐ a) Strongly Agree
- ☑ b) Agree
- ☐ c) Moderate
- ☐ d) Disagree
- ☐ e) Strongly Disagree

Submitted 22/08/2020 3:40PM

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Google Forms

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20EEEVAC01 – INDUSTRIAL INTERNET OF THINGS
TEST QUESTIONS

Responses cannot be edited

20EEEVAC01 – INDUSTRIAL INTERNET OF THINGS

20EEEVAC01
– INDUSTRIAL INTERNET OF THINGS

YEAR/SEM
REGISTER NUMBER & NAME OF STUDENT

IV/II-112410519002-A.Harish Kumaran-22.08.2020

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- ○ b) Smart Grid
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- ○ d) Smart city

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11. Which interface does the fingerprint sensor use?

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- ◯ c) IoT makes things smart and enhances life through the use of data.
- ◯ d) None of the above

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19. Which network is used by a sensor?

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- ◯ c) HAN and LAN
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20. The filtering is a security measure on various wireless networks:

- ◯ a. IP
- ◯ b. OUI
- ◉ c. MAC
- ◯ d. NIC Act

Submitted 22/08/20 3:15PM

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20EEEVAC01 – INDUSTRIAL INTERNET OF THINGS

Course Code	20EEEVAC01
Name of the Course	INDUSTRIAL INTERNET OF THINGS
Duration of the Course	35 HOURS
Academic Year	2020-21
Period of the Course	17.08.2020-22.08.2020

STUDENT EVALUATION SHEET

S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	ATTENDANCE	MARKS
1	II	112419105001	BALAJI M	35	85
2	II	112419105002	HARISHKUMARAN A	35	90
3	II	112419105004	PRAVEENKUMAR D	35	90
4	II	112419105005	PREMAVATHI C	35	90
5	II	112419105006	RAKESHKUMAR J	35	90
6	II	112419105007	SNEHA N	35	90
7	II	112419105008	SONIYA K	35	85
8	II	112419105009	SRIDEVI K	35	100
9	II	112419105010	SUNILKUMAR B	35	95
10	II	112419105011	THULASIRAMAN B	35	95
11	II	112419105302	DEVANATHAN R	35	95
12	II	112419105303	GURUMOORTHY R	35	95
13	II	112419105304	JOTHIRAJAN T	35	85
14	II	112419105305	KALANITHI R	35	80
15	II	112419105306	NARESHKUMAR V	35	85
16	II	112419105307	PARTHIBAN S	35	95
17	II	112419105308	PRADEEPRAJ R	35	100

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S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	ATTENDANCE	MARKS
18	II	112419105309	RAMAMOORTHY L	35	90
19	II	112419105310	SANTHOSH R	35	80
20	II	112419105311	SURENDHAR A	35	85
21	II	112419105312	VIJAY M	35	100
22	III	112418105001	ASWIN.E	35	90
23	III	112418105002	BHARANIDHRAN.M	35	95
24	III	112418105003	BHARATHI C.K	35	95
25	III	112418105004	DHAYANITHI.G	35	95
26	III	112418105006	DINESH.B	35	85
27	III	112418105007	KARTHICK .D	35	100
28	III	112418105008	MOHAMMED JUNAID AHMED.N	35	95
29	III	112418105009	PRASANNA KUMAR.K	35	95
30	III	112418105010	RAKESH.R	35	95
31	III	112418105011	SHARAN.G	35	95
32	III	112418105012	TAMILVANAN.D	35	85
33	III	112418105013	VENKATESAN.R	35	85
34	III	112418105014	VIJAYA KUMAR.S	35	85
35	III	112418105015	VINOTHINI.R	35	100
36	III	112418105016	YUVARAJ.N	35	90
37	III	112418105302	ANBARASAN A	35	90
38	III	112418105304	BALAJI C	35	90
39	III	112418105305	BALAKUMARAN S	35	85
40	III	112418105306	DEEPAK D	35	90
41	III	112418105308	JAYASEELAN D	35	95
	III	112418105310	PERUMAL G	35	95

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S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	ATTENDANCE	MARKS
43	III	112418105311	PRAGADEESHWARAN A	35	90
44	III	112418105312	RAMYA S	35	90
45	III	112418105313	SATHYA MOORTHY R	35	90
46	III	112418105314	SUBHAM THAKUR	35	85
47	III	112418105315	SUGUMARAN A	35	85
48	III	112418105316	SUSANTHIKA C	35	95
49	III	112418105317	VASANTH V	35	95
50	III	112418105318	VINOTH KUMAR M	35	95
51	IV	112417105001	ANANDHA PRIYA.R	35	95
52	IV	112417105002	AKASH.A	35	95
53	IV	112417105003	AMMU.E	35	85
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55	IV	112417105005	CHANDRAMOULI.K	35	85
56	IV	112417105007	DIVAKAR.K	35	85
57	IV	112417105008	GAYATHRI.V	35	85
58	IV	112417105009	KIRUBAKARAN.G	35	85
59	IV	112417105010	KISHOREKUMAR S	35	85
60	IV	112417105011	MONISH.B	35	90
61	IV	112417105013	NAVANEETHA HALDER	35	95
62	IV	112417105014	NAVEENA.P	35	90
63	IV	112417105015	PRADEEBAN.V	35	95
64	IV	112417105017	PRAVEEN KUMAR.J	35	95
65	IV	112417105018	RAMYA.J.C	35	95
66	IV	112417105019	SNEHA.M	35	95
67	IV	112417105020	SONA.S	35	80

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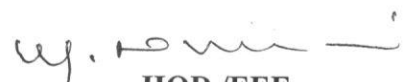Thirupachur, Thiruvallur - 631 203

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S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	ATTENDANCE	MARKS
68	IV	112417105021	SUBATHRA.K.S	35	95
69	IV	112417105023	SURESH KUMAR.R	35	100
70	IV	112417105025	UMA MAHESHWARI.R	35	95
71	IV	112417105026	VIGNESHWAR.D	35	95
72	IV	112417105027	VIGNESHWARAN.R	35	100
73	IV	112417105028	VIJAYESHWARAN.B	35	90
74	IV	112417105029	VIKRAM.S	35	90
75	IV	112417105301	AJAY KUMAR.K	35	95
76	IV	112417105302	JENIPER.M	35	95
77	IV	112417105303	KAMALAKKANNAN.V	35	95
78	IV	112417105304	KARTHIRAVAN.D	35	95
79	IV	112417105305	LAKSHMI PRASAD.D.M	35	90
80	IV	112417105306	MAGESHWARAN.M	35	90
81	I-ME-PED	112420415001	ARPUTHA RUBY	35	90
82	I-ME-PED	112420415002	SANGEETHA R	35	90
83	I-ME-PED	112420415003	SHANMUGARAJAN	35	95
84	II-ME-PED	112419415001	AJITH KUMAR R	35	95
85	II-ME-PED	112419415002	ANANTHI S	35	95
86	II-ME-PED	112419415003	NANDHINI M	35	100
87	II-ME-PED	112419415004	SRIRANJANI N	35	90

COORDINATOR

(Mrs. S. S. Divya)

HOD /EEE

(Mr. M. Namachivayam)

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This is to certify that Mr/Ms ...VINOTHINI.R.(112418105015.)........... UG/PG

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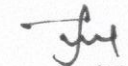
Value Added Course titled 'INDUSTRIAL INTERNET OF THINGS'

held from 17.08.2020 to 22.08.2020

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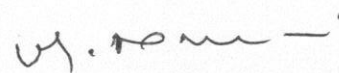This is to certify that Mr/Ms S.U.DHA..K (112418415006) UG/PG

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