DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

on

IoT

Academic Year	:	2024-2025 (ODD Semester)
Date / Days	:	08.07.2024 to 16.07.2024 / 7 Days
Duration	:	48 Hours
Organized by	:	Quantanics Techserv, Madurai

Verified.

25/7/2024
S. Athikumari
VAC Incharge

Coordinators

N.R.MADHAN

HoD/Mech

20/7/24

Dean (Academic Courses)

KAMARAJ®
COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar. K.Vellakulam – 625 701 (Near **VIRUDHUNAGAR).**

DEPARTMENT OF MECHANICAL ENGINEERING

Content	Details
Academic Year	2024-2025 (ODD Semester)
Date	08.02.2024 to 16.07.2024 (7 Days)
Name of the Value-added course	IoT
Duration	48 Hours
No of Credit	3 Credit
Category	Theory (15 Hours) and Lab (38 hours)
Organized by	Quantanics Techserv, Madurai
External Coordinator	Er. A. Kesavan, CEO, Quantanics Techserv, Madurai
Three Member Committee Members	1. Dr. S. Thanga Kasi Rajan, ASP& HoD/Mech 2. Er. R.Sakthivel Murugan, AP/Mech 3. Er. N. R. Madhan, AP/Mech
Internal Coordinators	Er. N. R. Madhan, AP/Mech Dr. B.K. Parrthiban, AP/Mech

Coordinators

N. R. MADHAN

HoD/Mech

Dean (Academic Courses)

APPROVAL BOOK

Book No. | MECH | Date : 16-05-2024

SL. No. **3**

VALUE ADDED COURSE

Name of the programme : IoT with Product Development

Date : 08.07.2024 to 12.07.2024 & 15/07 to 16/07/24

No of days : 7 Days

Conducted by : Team from Quantanics Techserv, madurai.

Amount : {Rs 1200/students} = 31 × ~~1200~~ 1750 = ~~37,200~~ 54,250 + [Total]
+
GST + 18% GST

Total = Rs 64,015

No of students : 31 Nos.

Requirements : Lunch & Snacks for trainers [7 Days]

Amount may please be sanctioned the above mentioned fees.

Signature of Staff   HoD 16/05/24   PRINCIPAL
N.R. ... 16/05/24
N.R. MADHAN, AP/MECH.

OFFICE USE

1) Account Head : Value Added Course Exp.

2) Budget allotted :

3) Amount committed / Spent sofar :

4) Balance available :

O.M.   Secretary

Madhan.N.R <madhanmech@kamarajengg.edu.in>

Mon 6 24 '024 1 18 PM

To:22UME <22ume@kamarajengg.edu.in>
Cc:MUTHU NATARAJAN.S <muthunatarajanmech@kamarajengg.edu.in>;MECH <mech@kamarajengg.edu.in>;HODMECH <hodmech@kamarajengg.edu.in>

Dear students,

The Department of Mechanical Engineering intends to offer a value-added course on IoT to third-year students from **July 8th to July 17th, 2023.** You are instructed to attend the programme without fail.
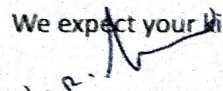
Training details

1. You are grouped as a team of 3 members.

2. Training kit (IoT Devices) will be given to each team. It will enhance your understanding level in this field.

3. Each team must do a project using this kit.

4. At the end of the programme, you have to demonstrate your project Work in front of three Value Added Course committee members. Based on this, internal mark will be awarded.

Examination details

Mark Allocation

Sl. No	Description	Maximum Mark awarded
1	Internal Evaluation (Based on your presentation)	40 marks
2	External Evaluation (Based on your project work)	60 marks

We expect your kind cooperation.

With Regards,
Madhan N R,
Assistant Professor,
Mechanical Department,

KAMARAJ

College of Engg and Tech,
Virudhunagar.

DEPARTMENT OF MECHANICAL ENGINEERING

Three-member committee meeting for value added course selection

Agenda		**Value Added Course Selection Meeting**
Date	:	03.07.2024
Time	:	09.10 AM
Venue	:	E14 Hall, Academic Block Four, Third Floor
Members Present	:	**Three Member Committee Members** 1. Dr. S. Thanga Kasi Rajan, ASP& HoD/Mech 2. Er.R.Sakthivel Murugan, AP/Mech 3. Er. N.R. Madhan, AP/Mech **Chairperson** 1. Dr.S.Muthu Natarajan, AP/Mech **Co-ordinators** 1. Er. N.R. Madhan, AP/Mech 2. Dr.B.K. Parrthiban, AP/Mech **Class representative (2022 – 2026 Batch)** 1. Mr. Naveen N.M. (22UME012), III Year/ Student 2. Mr. Dhanush R.K. (22UME013), III Year/ Student 3. Mr. Naveen Sarathi.V (22UME022), III Year/ Student 4. Mr. Kishore Vikram.N (22UME029), III Year/ Student

Minutes of the Meeting	:	It is optional to complete a Value-Added Course for Regulation 2021. In this regard a three-member committee has been formed and a meeting is organized to select the course for registration.
		• Meeting started by 09.10 AM. Dr. S. Thanga Kasi Rajan, Associate Professor & Head of the Department, welcome the gathering. He has advised to maintain SOP for value added course.
		• Er. N. R. Madhan, Assistant Professor & Value added course incharge has proposed course offered by
		    o Quantanics Techserv, Madurai offering IoT.
		• Based on the suggestion and feedback given by the 2021-2025 Batch students, 3 committee members for Value added course and student representative, "IoT" course is agreed to take in this V semester for 2022-2026 Batch students. Courses were selected by the students based on their interested.
		Justification for the Courses selection:
		The justification for the course selection were as follows
		    i. These courses will be useful for their project work
		    ii. It is a 48-hour courses (3 Credits)
		    iii. These courses are useful to meet the Industrial Needs
		    iv. These courses are in emerging areas.

| Proof | |

Three Member Committee Members
Dr. S. Thanga Kasi Rajan, ASP & HoD/Mech
Er.R.Sakthivel Murugan, AP/Mech
Er. N.R. Madhan, AP/Mech

Chairperson
Dr. S.Muthu Natarajan AP/Mech

HoD/Mech

26/7/24

Dean Academics

Department of Mechanical Engineering

Title of the Program : Value Added Course on "IoT"

Date: 08.07.2024 to 16.07.2024 (7 Days)

Participants : III year (2022 – 2026 Batch)
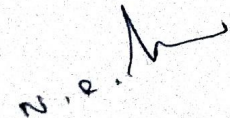
Academic Year: 2024 – 2025 ODD

Conducted by : Quantanics Techserv, Madurai.
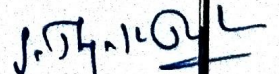
Venue : KCET-MECH-CAD Lab

Syllabus

IoT Introduction

IoT Introduction - Basics of ATMEL328p C Programming - Basic Electronics Setting up Arduino IDE – LED Blinking Traffic Light System Diving deep into ATMEL328p C programming (functions) LED control using push button – Motor switching on using relay C pointers - arrays and memory allocation.

Sensors and Types of ATMEL Controller

Temperature sensor to display temperature - ESP 32/ ESP8266 architecture- LED and Switch Control basics using push buttons, interfacing soil moisture sensor to check soil moisture. Interfacing Turbidity sensor for checking water turbidity.

Embedded Platform Introduction and dive in

Arduino IDE introduction - Boards types - Basic Electronics, Tools and Sensors - Setting up Arduino IDE - LED Blinking - Diving deep into C programming (functions) LED control using push button

Sensors and Types of Arduino Controller

Temperature sensor to display temperature - ESP 32/ ESP8266 architecture- LED and Switch Control basics using ESP Display Interfacing - 7 segment - LCD display - Keypad – Arduino IOT Could Mobile App introduction with example- Arduino Cloud Introduction with example

IoT Protocols and Applications

ADC Conversion - keypad relay control - USART - USART Communication Timer – Counter Clock – PWM - PWM Example - Project GSM - GPS GSM - GPS data - Microcontroller EEPROM - Temperature & Humidity - PIR CLOUD – MQTT - Home automation - Robot control.

Product Development

Design and Integration with Cloud and Control Stepper Motor – Servo Motor integration- Temperature Monitoring and Control and Alter System – Hydraulic Sensor Monitoring and Could integration – Speed and Vibration analysis System and Modbus System Design and Analysis.

Coordinators

N. R. MADHAN

HoD/Mech

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Department of Mechanical Engineering

Title of the Program : Value Added Course on "IoT"   Date: 08.07.2024 to 16.07.2024 (7 Days)

Participants : III year (2022 – 2026 Batch)   Academic Year: 2024 – 2025 ODD

Conducted by : Quantanics Techserv, Madurai.   Venue : KCET-MECH-CAD Lab

Course Outcomes

Students will be able to

Course Outcomes		Details
CO1	:	Gain a solid understanding of IoT fundamentals and microcontroller programming.
CO2	:	Develop practical skills in interfacing various sensors and actuators.
CO3	:	Master advanced C programming techniques specific to IoT applications.
CO4	:	Be proficient in using Arduino IDE and integrating IoT devices with cloud services.
CO5	:	Be capable of designing and developing complete IoT products and systems.

Coordinators

N.R. MADHAN

HoD/Mech

TAX INVOICE

(Original for buyer)

QUANTANICS TECHSERV PVT LTD 206, VELLAIKANNU NAGAR, THENI MAIN ROAD,MADURAI - 625016 Email Id: support@quantanics.in GST NO : 33AAACQ5974E1ZG	Invoice No QTSM/24-25/0003 — Dated: 13.07.2024
	Suppliers Ref — Other Reference Nil
	Buyers Order No. Ref: — Dated: -
	Dispatched Doc No. — Dated: -

To

The Principal,
Department of Mechanical Engineering,
Kamaraj College of Engineering and Technology,
S.P.G.C.Nagar,
Virudhunagar-626001

Mode of Dispatch: NILL

Destination: Virudhunagar

Terms of Delivery -

S. No	Description of Goods	Qty	Unit Rate	Amount
1.	**IoT (Internet of Things) Value Added Course**	31	1750/ Head	54250
				54250

BANK DETAILS

Name of the Bank: **INDUSIND BANK**
Account Name: **QUANTANICS TECHSERV PVT LTD**

Account No: 201003764986
IFSC CODE: INDB0001345

Taxable Amount	54250
Total GST (18%)	9,765
Grand Total (Rs.)	64015

Amount Chargeable (In Words) (Sixty four thousand and fifteen rupees only)

Declaration

We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct

For Quantanics Techserv Pvt Ltd

A.KESAVAN

CEO

Department of Mechanical Engineering

Title of the Program : Value Added Course on "IoT"	Date: 08.07.2024 to 16.07.2024 (7 Days)
Participants : III year (2022 – 2026 Batch)	Academic Year: 2024 – 2025 ODD
Conducted by : Quantanics Techserv, Madurai.	Venue : KCET-MECH-CAD Lab

Approval of Board of Study Meeting

Board of Study Meeting: VI	Mode: hybrid mode
Date & Timing: 11.03.2023 & 10.00 AM	Page No: 15 of 16

006.06.00: Information about the (Points Discussed in the following)

Item No.	Description	Suggestions / Comments from the BoS Members
006.06.01	Anna University New Amendment (Honours / Honours in same discipline / Minor)	Dr.S. Thangakasirajan, AP/Mech Presented the new amendment given by Anna University. Bos members accepted the amendments.
006.06.02	Pass Percentage of students	Dr.B. Balavairavan, AP/Mech Presented the Pass percentage year wise and course wise. Bos members accepted the results.
006.06.03	Value Added Courses offered/ Planned for the academic year: 2023 - 2024	Mr. N.R. Madhan, AP/Mech Presented the Value-added course planned for the academic year 2022 - 2023. BoS members suggested some value-added courses for next academic year: LabVIEW, Computational fluid dynamics, Image processing and coding, Deep learning in Metallurgy, NX CAD, CATIA and SolidWorks.

Coordinators

N. R. madhan

HoD/Mech

Internal Assessment Question link for VAC "IoT"

Madhan.N.R <madhanmech@kamarajengg.edu.in>

Mon 7/15/2024 4:13 PM

To:22UME <22ume@kamarajengg.edu.in>
Cc:MUTHU NATARAJAN.S <muthunatarajanmech@kamarajengg.edu.in>

Dear students,

It is planned to conduct Internal Assessment for Value Added Course on "IoT" on 15.07.2024 4.00pm.

Note:

Each question has 2 marks

Total question is 20nos

Maximum Mark is 40 Marks

Link for MS Form is

https://forms.office.com/r/BH0vGQHW7g

With Regards,
Madhan N R,
Assistant Professor,
Mechanical Department,

KAMARAJ

College of Engg and Tech,
Virudhunagar.

Internal Assessment | VAC | IoT

Department of Mechanical Engineering

Title of the Program : Value Added Course on "IoT"   **Date: 08.07.2024 to 16.07.2024 (7 Days)**

Participants : III year (2022 – 2026 Batch)   **Academic Year: 2024 – 2025 EVEN**

Conducted by : Quantanics Techserv, Madurai.   **Venue : KCER-MECH-CAD Lab**

Maximum Mark: 40 Marks

* Required

* This form will record your name, please fill your name.

[   ]

If digital input pin 4 was LOW and we wanted the variable 'switchstate' to store that value, which is the correct command. * (2 Points)

○ switchstate =digitalRead(4);

○ switchstate =digitalRead(4)

○ switchstate =digitalread(4);

○ switchstate=digitalRead(7);

Which command is correct for initialising pin 7 as an INPUT.
* (2 Points)

○ pinMode(7,INPUT)

○ pinmode(7,HIGH);

○ pinmode(7,OUTPUT);

○ pinMode(7,INPUT);

Which of the following is not a sensor in IoT? * (2 Points)

○ DHT11

○ Photoresistor

○ LED

○ BMP280

Which programming language is used by Arduino IDE IoT software for writing codes?
* (2 Points)

○ JavaScript

○ Python

○ C/C++

○ Java

To keep the LED on, output at pin 13 is written in code as?
* (2 Points)

○ digitalRead(13,1);

○ digitalwrite(13,HIGH);

○ digitalread(13,HIGH);

○ digitalWrite(13,HIGH);

delay(1000);   1000 in delay is equivalent to how many seconds?
* (2 Points)

○ 2s

○ 10s

○ 60s

○ 1s

What is the maximum bit value while we are reading the sensor data on the Arduino?
* (2 Points)

○ 1024

○ 9600

○ 206

○ 960

What is the microcontroller used in Arduino UNO?
* (2 Points)

○ ATmega2560

○ AT91SAM3x8E

○ ATmega328p

○ ATmega32114

How many times does the loop() function run on every startup of the Arduino system?
* (2 Points)

○ Infinity times

○ 2

○ 1

○ 3

How many times does the setup() function run on every startup of the Arduino system?
* (2 Points)

○ 2

○ 1

○ 4

○ 3

Which term is NOT used in the declaration?
* (2 Points)

○ None of these

○ Integer

○ Output

○ Float

Arduino IDE consists of 2 functions. What are they?
* (2 Points)

○ Build() and loop()

○ loop() build() and setup()

○ Setup() and build()

○ Setup() and loop()

digitalWrite(LED1,HIGH); What does it means by HIGH?
* (2 Points)

○ Switch ON

○ Blinking

○ Switch OFF

○ Sequence

Which command is correct for initialising pin A0 as an INPUT. * (2 Points)

○ pinmode(0,OUTPUT);

○ pinMode(0,INPUT)

○ pinMode(A0,INPUT);

○ pinmode(AO,HIGH);

True or False.We use a pull down resistor for digital inputs to ensure the input is held LOW
when the switch is off.
* (2 Points)

○ True

○ False

Which of the following is not related to Arduino IDE IoT software?
* (2 Points)

○ Upload

○ Verify

○ Terminate

○ Serial monitor

○

Arduino IDE consists Baudrate values ?
* (2 Points)

○ 2000

○ 9600

○ NILL

○ 700

How much bit ADC is used in Arduino?
* (2 Points)

○ 32 bit

○ 10 bit

○ 64 bit

○ 12 bit

What is the standard form of MQTT? * (2 Points)
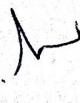
○ Message Queue Telemetry Transport

○ Message Queue Transport Telemetry

○ None of the above

○ Message Queue Time Transport
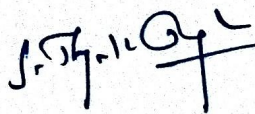
Select one Digital inputs___
* (2 Points)

○ Can be a wide range of values.

○ can turn on LED's

○ can be one of three states,HIGH,LOW and MIDDLE

○ can be only one of two states,HIGH or LOW

N.R.

N.R.MADHAN

HOD/MECH
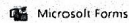
Internal Assessment | VAC | IoT

🔔 Send reminder to people who have not responded.

Remind them

31 Responses   **21.4** Average Score   **Active** Status

1. What is the standard form of MQTT? (2 points)
   58% of respondents (18 of 31) answered this question correctly.

   🔵 Message Queue Telemetry Trans...   18   ✓
   🟠 Message Queue Transport Tele...   3
   🟢 Message Queue Time Transport   7
   🔴 None of the above   3

2. Which of the following is not a sensor in IoT? (2 points)
   45% of respondents (14 of 31) answered this question correctly.

   🔵 BMP280   5
   🟠 DHT11   6
   🟢 Photoresistor   6
   🔴 LED   14   ✓

3. Which of the following is not related to Arduino IDE IoT software? (2 points)
   71% of respondents (22 of 31) answered this question correctly.

   🔵 Serial monitor   4
   🟠 Verify   4
   🟢 Upload   1
   🔴 Terminate   22   ✓

4. Which programming language is used by Arduino IDE IoT software for writing codes? (2 points)
   61% of respondents (19 of 31) answered this question correctly.

   🔵 Python   5
   🟠 Java   4
   🟢 C/C++   19   ✓
   🔴 JavaScript 3
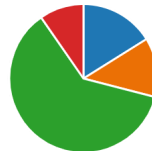
5. delay(1000);   1000 in delay is equivalent to how many seconds? (2 points)
   48% of respondents (15 of 31) answered this question correctly.

   🔵 10s   9
   🟠 2s   3
   🟢 60s   4
   🔴 1s   15   ✓

6. digitalWrite(LED1,HIGH); What does it means by HIGH? (2 points)
   71% of respondents (22 of 31) answered this question correctly.

   🔵 Blinking   4
   🟠 Switch OFF   1
   🟢 Switch ON   22   ✓
   🔴 Sequence   4

7. Which term is NOT used in the declaration? (2 points)
   39% of respondents (12 of 31) answered this question correctly.

● Float	9	
● Integer	2	
● Output	12	✓
● None of these	8	

8. To keep the LED on, output at pin 13 is written in code as? (2 points)
   68% of respondents (21 of 31) answered this question correctly.

● digitalread(13,HIGH);	5	
● digitalRead(13,1);	5	
● digitalwrite(13,HIGH);	21	✓
● digitalWrite(13,HIGH);	0	

9. How much bit ADC is used in Arduino? (2 points)
   19% of respondents (6 of 31) answered this question correctly.

● 12 bit	6	✓
● 10 bit	10	
● 32 bit	9	
● 64 bit	6	

10. What is the maximum bit value while we are reading the sensor data on the Arduino? (2 points)
    45% of respondents (14 of 31) answered this question correctly.

● 9600	12	
● 1024	14	✓
● 206	2	
● 960	3	

11. Select one Digital inputs____ (2 points)
    35% of respondents (11 of 31) answered this question correctly.

● can be one of three states,HIGH,...	6	
● can turn on LED's	8	
● can be only one of two states,HI...	11	✓
● Can be a wide range of values.	6	
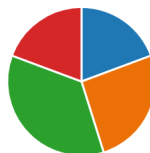
12. True or False.We use a pull down resistor for digital inputs to ensure the input is held LOW when (2 points)
    the switch is off.
    77% of respondents (24 of 31) answered this question correctly.

● True	24	✓
● False	7	

13. Which command is correct for initialising pin 7 as an INPUT. (2 points)
    68% of respondents (21 of 31) answered this question correctly.

● pinmode(7,OUTPUT);	2	
● pinMode(7,INPUT);	21	✓
● pinMode(7,INPUT)	5	
● pinmode(7,HIGH);	3	

14. Which command is correct for initialising pin A0 as an INPUT. (2 points)
    58% of respondents (18 of 31) answered this question correctly

- pinmode(0,OUTPUT;)   6
- pinMode(A0, INPUT);   18
- pinMode(0,INPUT;)   1
- pinmode(A0,HIGH);   4

15. If digital input pin 4 was LOW and we wanted the variable 'switchstate' to store that value, which (2 points)
    is the correct command.
    19% of respondents (6 of 31) answered this question correctly

- switchstate = digitalRead(4);   19
- switchstate = digitalRead(7);   6
- switchstate = digitalRead(4);   6 ✓
- switchstate = digitalread(4);   0
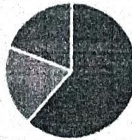
16. Arduino IDE consists of 2 functions. What are they? (2 points)
    61% of respondents (19 of 31) answered this question correctly

- Build() and loop()   3
- Setup() and build()   6
- Setup() and loop()   19 ✓
- loop() build() and setup() 3

17. Arduino IDE consists Baudrate values ? (2 points)
    55% of respondents (17 of 31) answered this question correctly

- 700   3
- 2000   3
- 9600   17 ✓
- NILL   8
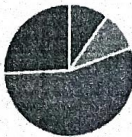
18. What is the microcontroller used in Arduino UNO? (2 points)
    61% of respondents (19 of 31) answered this question correctly

- ATmega328p   19 ✓
- ATmega2560   4
- ATmega32114   4
- AT91SAM3x8E   4

19. How many times does the setup() function run on every startup of the Arduino system? (2 points)
    55% of respondents (17 of 31) answered this question correctly

- 1   17 ✓
- 2   6
- 3   2
- 4   6
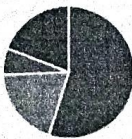
20. How many times does the loop() function run on every startup of the Arduino system? (2 points)
    55% of respondents (17 of 31) answered this question correctly

- 2   7
- 1   5
- 3   2
- Infinity times 17 ✓

N.R. MADHAN

HOD / MECH

Review: Internal Assessment | VAC | IoT

Respondent		
17	ANIKET LAKRA	

10:43
Time to complete

36/40
Points

✓ **Correct** 2/2 Points

2   / 2 pts
Auto-graded

What is the standard form of MQTT? *

◉ Message Queue Telemetry Transport ✓

◯ Message Queue Transport Telemetry

◯ Message Queue Time Transport

◯ None of the above

✓ **Correct** 2/2 Points

2   / 2 pts
Auto-graded

Which of the following is not a sensor in IoT? *

◯ BMP280

◯ DHT11

◯ Photoresistor

◉ LED ✓

✓ **Correct** 2/2 Points

2   / 2 pts
Auto-graded

Which of the following is not related to Arduino IDE IoT software?
*

◯ Serial monitor

◯ Verify

◯ Upload

◉ Terminate ✓

✓ **Correct** 2/2 Points

2   / 2 pts
Auto-graded

Which programming language is used by Arduino IDE IoT software for writing codes?
*

◯ Python

◯ Java

◉ C/C++ ✓

◯ JavaScript

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

delay(1000);   1000 in delay is equivalent to how many seconds?
*

○ 10s

○ 2s

○ 60s

◉ 1s ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

digitalWrite(LED1,HIGH); What does it means by HIGH?
*

○ Blinking

○ Switch OFF

◉ Switch ON ✓

○ Sequence

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

Which term is NOT used in the declaration?
*

○ Float

○ Integer

◉ Output ✓

○ None of these

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

To keep the LED on, output at pin 13 is written in code as?
*

○ digitalread(13,HIGH);

○ digitalRead(13,1);

○ digitalwrite(13,HIGH); ✓

◉ digitalWrite(13,HIGH);

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

How much bit ADC is used in Arduino?
*

○ 12 bit ✓

◉ 10 bit

○ 32 bit

○ 64 bit

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the maximum bit value while we are reading the sensor data on the Arduino?
*

◯ 9600

⦿ 1024 ✓

◯ 206

◯ 960

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Select one Digital inputs____
*

◯ can be one of three states,HIGH,LOW and MIDDLE

◯ can turn on LED's

⦿ can be only one of two states,HIGH or LOW ✓

◯ Can be a wide range of values.

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

True or False.We use a pull down resistor for digital inputs to ensure the input is held LOW when the switch is off.
*

⦿ True ✓

◯ False

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which command is correct for initialising pin 7 as an INPUT.
*

◯ pinmode(7,OUTPUT);

⦿ pinMode(7,INPUT); ✓

◯ pinMode(7,INPUT)

◯ pinmode(7,HIGH);

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which command is correct for initialising pin A0 as an INPUT. *

◯ pinmode(0,OUTPUT);

⦿ pinMode(A0,INPUT); ✓

◯ pinMode(0,INPUT)

◯ pinmode(AO,HIGH);

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

If digital input pin 4 was LOW and we wanted the variable 'switchstate' to store that value, which is the correct command. *

◯ switchstate =digitalRead(4);

◯ switchstate=digitalRead(7);

⦿ switchstate =digitalRead(4) ✓

◯ switchstate =digitalread(4);

✓ **Correct** 2/2 Points

Arduino IDE consists of 2 functions. What are they?

    Build() and loop()

    Setup() and build()

⬡ Setup() and loop() ✓

    loop() build() and setup()

✓ **Correct** 2/2 Points

Arduino IDE consists Baudrate values ?

    700

    2000

⬡ 9600 ✓

    NILL

✓ **Correct** 2/2 Points

What is the microcontroller used in Arduino UNO?

⬡ ATmega328p ✓

    ATmega2560

    ATmega32114

    AT91SAM3x8E

✓ **Correct** 2/2 Points

How many times does the setup() function run on every startup of the Arduino system?

⬡ 1 ✓

    2

    3

    4

✓ **Correct** 2/2 Points

How many times does the loop() function run on every startup of the Arduino system?

    2

    1

    3

    Infinity times ✓

N.R.~
N.R. MADHAN

HoD / MECH

Review: Internal Assessment | VAC | IoT

Respondent				
20	SUDHARSHAN.V.G		**07:38** Time to complete	**20/40** Points

---

✓ **Correct** 2/2 Points

What is the standard form of MQTT? *

◉ Message Queue Telemetry Transport ✓

○ Message Queue Transport Telemetry

○ Message Queue Time Transport

○ None of the above

| 2 | / 2 pts |
Auto-graded

✕ **Incorrect** 0/2 Points

Which of the following is not a sensor in IoT? *

○ BMP280

◉ DHT11

○ Photoresistor

○ LED ✓

| 0 | / 2 pts |
Auto-graded

✓ **Correct** 2/2 Points

Which of the following is not related to Arduino IDE IoT software?
*

○ Serial monitor

○ Verify

○ Upload

◉ Terminate ✓

| 2 | / 2 pts |
Auto-graded

✓ **Correct** 2/2 Points

Which programming language is used by Arduino IDE IoT software for writing codes?
*

○ Python

○ Java

◉ C/C++ ✓

○ JavaScript

| 2 | / 2 pts |
Auto-graded

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

delay(1000);   1000 in delay is equivalent to how many seconds?
*

○ 10s

○ 2s

○ 60s

◉ 1s ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

digitalWrite(LED1,HIGH); What does it means by HIGH?
*

○ Blinking

○ Switch OFF

◉ Switch ON ✓

○ Sequence

✕ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

Which term is NOT used in the declaration?
*

○ Float

○ Integer

○ Output ✓

◉ None of these

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

To keep the LED on, output at pin 13 is written in code as?
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0 / 2 pts
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How much bit ADC is used in Arduino?
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○ 12 bit ✓

○ 10 bit

○ 32 bit

◉ 64 bit

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0 / 2 pts
Auto-graded

What is the maximum bit value while we are reading the sensor data on the Arduino?
*

◉ 9600

◯ 1024 ✓

◯ 206

◯ 960

✕ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

Select one Digital inputs____
*

◉ can be one of three states,HIGH,LOW and MIDDLE

◯ can turn on LED's

◯ can be only one of two states,HIGH or LOW ✓

◯ Can be a wide range of values.

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

True or False.We use a pull down resistor for digital inputs to ensure the input is held LOW when the switch is off.
*

◉ True ✓

◯ False

✕ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

Which command is correct for initialising pin 7 as an INPUT.
*

◯ pinmode(7,OUTPUT);

◯ pinMode(7,INPUT); ✓

◯ pinMode(7,INPUT)

◉ pinmode(7,HIGH);

✕ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

Which command is correct for initialising pin A0 as an INPUT. *

◉ pinmode(0,OUTPUT);

◯ pinMode(A0,INPUT); ✓

◯ pinMode(0,INPUT)

◯ pinmode(AO,HIGH);

✕ **Incorrect** 0/2 Points

0 / 2 pts
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If digital input pin 4 was LOW and we wanted the variable 'switchstate' to store that value, which is the correct command. *

◉ switchstate =digitalRead(4);

◯ switchstate=digitalRead(7);

◯ switchstate =digitalRead(4) ✓

◯ switchstate =digitalread(4);

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2   / 2 pts
Auto-graded

Arduino IDE consists of 2 functions. What are they?

Build() and loop()

Setup() and build()

Setup() and loop() ✓

loop() build() and setup()

✗ **Incorrect** 0/2 Points

0   / 2 pts
Auto-graded

Arduino IDE consists Baudrate values ?

700

2000

9600 ✓

NILL

✗ **Incorrect** 0/2 Points

0   / 2 pts
Auto-graded

What is the microcontroller used in Arduino UNO?

ATmega328p ✓

ATmega2560

ATmega32114

AT91SAM3x8E

✓ **Correct** 2/2 Points

2   / 2 pts
Auto-graded

How many times does the setup() function run on every startup of the Arduino system?

1 ✓

2

3

4

✓ **Correct** 2/2 Points

2   / 2 pts
Auto-graded

How many times does the loop() function run on every startup of the Arduino system?

2

1

3

Infinity times ✓

Review: Internal Assessment | VAC | IoT

	Respondent				
	18	VELMURUGAN.M			

10:27
Time to complete

10/40
Points

✕ **Incorrect** 0/2 Points

What is the standard form of MQTT? *

○ Message Queue Telemetry Transport ✓

○ Message Queue Transport Telemetry

○ Message Queue Time Transport

◉ None of the above

0 / 2 pts
Auto-graded

✕ **Incorrect** 0/2 Points

Which of the following is not a sensor in IoT? *

○ BMP280

○ DHT11

◉ Photoresistor

○ LED ✓

0 / 2 pts
Auto-graded

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Which of the following is not related to Arduino IDE IoT software? *

○ Serial monitor

○ Verify

○ Upload

◉ Terminate ✓

2 / 2 pts
Auto-graded

✕ **Incorrect** 0/2 Points

Which programming language is used by Arduino IDE IoT software for writing codes? *

○ Python

◉ Java

○ C/C++ ✓

○ JavaScript

0 / 2 pts
Auto-graded

✕ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

delay(1000);   1000 in delay is equivalent to how many seconds?
*

- ⦿ 10s
- ◯ 2s
- ◯ 60s
- ◯ 1s ✓

✕ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

digitalWrite(LED1,HIGH); What does it means by HIGH?
*

- ◯ Blinking
- ◯ Switch OFF
- ◯ Switch ON ✓
- ⦿ Sequence

✕ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

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*

- ⦿ Float
- ◯ Integer
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0 / 2 pts
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- ◯ digitalwrite(13,HIGH); ✓
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✕ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

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*

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- ◯ 10 bit
- ⦿ 32 bit
- ◯ 64 bit

✕ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

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*

⦿ 9600

◯ 1024 ✓

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2 / 2 pts
Auto-graded

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◯ switchstate=digitalRead(7);

⦿ switchstate =digitalRead(4) ✓

◯ switchstate =digitalread(4);

✓ **Correct** 2/2 Points   2   / 2 pts
                                                                                                        Auto-graded

Arduino IDE consists of 2 functions. What are they?

    Build() and loop()

    Setup() and build()

    Setup() and loop() ✓

    loop() build() and setup()

✕ **Incorrect** 0/2 Points   0   / 2 pts
                                                                                                        Auto-graded

Arduino IDE consists Baudrate values ?

    700

    2000

    9600 ✓

    NILL

✕ **Incorrect** 0/2 Points   0   / 2 pts
                                                                                                        Auto-graded

What is the microcontroller used in Arduino UNO?

    ATmega328p ✓

    ATmega2560

    ATmega32114

    AT91SAM3xBE

✕ **Incorrect** 0/2 Points   0   / 2 pts
                                                                                                        Auto-graded

How many times does the setup() function run on every startup of the Arduino system?

    1 ✓

    2

    3

    4

✕ **Incorrect** 0/2 Points   0   / 2 pts
                                                                                                        Auto-graded

How many times does the loop() function run on every startup of the Arduino system?

    2

    1

    3

    Infinity times ✓

N.R.
N.R. MADHAN

HOD /MBIH

Department of Mechanical Engineering

Title of the Program : Value Added Course on "IoT"

Date: 08.07.2024 to 16.07.2024 (7 Days)

Participants : III year (2022 – 2026 Batch)
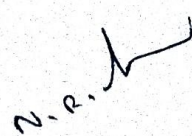
Academic Year: 2024 – 2025 ODD

Conducted by : Quantanics Techserv, Madurai.

Venue : KCET-MECH-CAD Lab

Internal Assessment Mark

S No	Roll Number	Register Number	Student Name	Total Marks Out of 40
1	22UME001	920422114014	MURUGAN.J	26
2	22UME002	920422114013	MARIA REENALDIN.G	28
3	22UME003	920422114020	SUBAN KUMAR.P	12
4	22UME004	920422114022	SURENDAR KUMAR.M	14
5	22UME005	920422114025	VIGNESHWAR.S	28
6	22UME006	920422114002	ABINASH.T	18
7	22UME007	920422114007	GOWTHAM.A	12
8	22UME008	920422114021	SUDHARSHAN.V.G	20
9	22UME009	920422114010	KARUPPASAMY.S	32
10	22UME010	920422114023	VELMURUGAN.M	10
11	22UME011	920422114004	AVINESH.T	12
12	22UME012	920422114015	NAVEEN.N.M	34
13	22UME013	920422114006	DHANUSH.R.K	22
14	22UME014	920422114001	AATHI.V	20
15	22UME016	920422114026	VIJAYAN.S.P	12
16	22UME017	920422114008	GURU PRAVEEN.D	24
17	22UME018	920422114017	PARAMASIVAN.B	8
18	22UME019	920422114024	VIGNESH.B	20
19	22UME020	920422114003	ANIKET LAKRA	36
20	22UME021	920422114009	KARTHIK.M	22
21	22UME022	920422114016	NAVEEN SARATHI.V	32
22	22UME023	920422114011	KIRUBAJI.T.S	30
23	22UME024	920422114019	SOLEESWARAN.R	16
24	22UME025	920422114005	BALAJI.S	22
25	22UME026	920422114018	SIVAKANNAN.S	10
26	22UME027	920422114012	MANIKANDAN.G	20
27	22UME028	920422114305	VISHWAMARUDHU.K	16
28	22UME029	920422114303	KISHORE VIKRAM.N	10
29	22UME030	920422114304	THANGAVELPANDIAN.P	16
30	22UME031	920422114301	ARAVIND KUMAR.S	14
31	22UME032	920422114302	HARI BALAJI.L	32

Coordinators

N.R.MADHAW

HoD/Mech

Re: Circular for External Assessment in VAC - reg.

Parrthipan.B.K <parrthipanmech@kamarajengg.edu.in>
Tue 7/16/2024 9:47 AM

To:22UME <22ume@kamarajengg.edu.in>
Cc:HODMECH <hodmech@kamarajengg.edu.in>;MUTHU NATARAJAN.S <muthunatarajanmech@kamarajengg.edu.in>;
Madhan.N.R <madhanmech@kamarajengg.edu.in>

📎 1 attachments (1 MB)
PPT Template.pptx;

Dear Students,

Herewith I have attached the PPT Template for your reference.

Rubrics for evaluation
1. Concept - 30 Marks
2. Circuit/ Model - 20 Marks
3. Presentation - 20 Marks
4. Respond to Queries - 20 Marks
5. Team Work - 10 Marks

Upload your presentation as per the template in the below one drive link on or before 12.30 PM. (16.07.24)

Link to upload PPT - [Micro Project Presentation 16.07.24](#)

With Regards,
Dr. B.K.Parrthipan, M.E., M.B.A., Ph.D.
Assistant Professor | Mechanical Engineering,
KAMARAJ College of Engineering and Technology.
+91 96008 68095

From: HODMECH <hodmech@kamarajengg.edu.in>
Sent: Monday, July 15, 2024 9:51 PM
To: 22UME <22ume@kamarajengg.edu.in>
Cc: Madhan.N.R <madhanmech@kamarajengg.edu.in>; Parrthipan.B.K
<parrthipanmech@kamarajengg.edu.in>; MUTHU NATARAJAN.S
<muthunatarajanmech@kamarajengg.edu.in>
Subject: Circular for External Assessment in VAC - reg.

Dear students,

The Department of Mechanical Engineering is conducting value-added course on IoT to third-year students from **July 8th to July 16th, 2024.**

All the students are instructed to attend the External assessment (60 % Weightage) of Micro Project cum Presentation. Each batch should present their project for 10 minutes. The Date, Time and Venue details are given below:

Date : 16.07.2024

Time : 1.30 pm to 3.30 pm

Venue : E15 Hall.

With Regards,

Dr. S. Thanga Kasi Rajan
Associate Professor & Head,
Department of Mechanical Engineering,
Kamaraj College of Engineering and Technology (Autonomous)
K.Vellakulam-625701
Near Virudhunagar
Madurai
Ph:9942670301
Email:hodmech@kamarajengg.edu.in

From: HODMECH
Sent: 16 July 2024 09:32
To: MECH
Subject: Fwd: Circular for External Assessment in VAC - reg.

Dear sir

Dr. BB, Dr. M.P and Dr. KM are deputed to assess the micro project.

Other faculty members join in E15 hall at the scheduled time given below.

Regards
Kasi

Get Outlook for iOS

From: HODMECH
Sent: Monday, July 15, 2024 9:51:56 PM
To: 22UME <22ume@kamarajengg.edu.in>
Cc: Madhan.N.R <madhanmech@kamarajengg.edu.in>; Parrthipan.B.K
<parrthipanmech@kamarajengg.edu.in>; MUTHU NATARAJAN.S
<muthunatarajanmech@kamarajengg.edu.in>
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Associate Professor & Head,
Department of Mechanical Engineering,
Kamaraj College of Engineering and Technology (Autonomous)
K.Vellakulam-625701
Near Virudhunagar

Title of the Program : Value Added Course on "IoT"
Participants : III year (2022 – 2026 Batch)

Date: 08.07.2024 to 16.07.2024 (7 Days)
Conducted by : Quantanics Techserv, Madurai.
Venue : KCET-MECH-CAD Lab

External Assessment Exam Proof

Team	Roll Number	Register Number	Student Name	Project Title	Photo Proof
1	22UME001	920422114014	MURUGAN.J	Design a IoT device for monitoring a Pressure in the vessel	
	22UME005	920422114025	VIGNESHWAR.S		
	22UME014	920422114001	AATHI.V		
	22UME019	920422114024	VIGNESH.B		
	22UME025	920422114005	BALAJI.S		
2	22UME008	920422114021	SUDHARSHAN.V.G	Design a IoT device for maintaining a temperature in the room	
	22UME012	920422114015	NAVEEN.N.M		
	22UME013	920422114006	DHANUSH.R.K		
	22UME023	920422114011	KIRUBAJI.T.S		
	22UME026	920422114018	SIVAKANNAN.S		
3	22UME003	920422114020	SUBAN KUMAR.P	Design a IoT device for controlling the voltage	
	22UME004	920422114022	SURENDAR KUMAR.M		
	22UME010	920422114023	VELMURUGAN.M		
	22UME016	920422114026	VIJAYAN.S.P		
	22UME018	920422114017	PARAMASIVAN.B		
4	22UME002	920422114013	MARIA REENALDIN.G	Design a IoT device for running the servo motor	
	22UME007	920422114007	GOWTHAM.A		
	22UME017	920422114008	GURU PRAVEEN.D		
	22UME020	920422114003	ANIKET LAKRA		
	22UME022	920422114016	NAVEEN SARATHI.V		
5	22UME006	920422114002	ABINASH.T	Design a IoT device for running the stepper motor	
	22UME011	920422114004	AVINESH.T		
	22UME021	920422114009	KARTHIK.M		
	22UME027	920422114012	MANIKANDAN.G		
	22UME032	920422114302	HARI BALAJI.L		
6	22UME024	920422114019	SOLEESWARAN.R	Design a IoT device for maintaining a humidity in the room	
	22UME028	920422114305	VISHWAMARUDHU.K		
	22UME029	920422114303	KISHORE VIKRAM.N		
	22UME030	920422114304	THANGAVELPANDIAN.P		
	22UME031	920422114301	ARAVIND KUMAR.S		
	22UME009	920422114010	KARUPPASAMY.S		

Coordinators
2. R. MADHA

HoD/Mech

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY ®

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

16.07.24

Department of Mechanical Engineering

Micro Project Presentation – Evaluation Sheet

Team No.	Roll No.	Name	Concept (30)	Circuit/Model (20)	Presentation (20)	Respond to Queries (20)	Team Work (10)	Total (100)
1	22UME001	MURUGAN.J	26	18	15	18	10	86
	22UME005	VIGNESHWAR.S	25	18	10	16	10	79
	22UME014	AATHI.V	25	18	15	18	10	86
	22UME019	VIGNESH.B	24	14	16	16	10	87
	22UME025	BALAJI.S	24	18	18	18	10	89
2	22UME008	SUDHARSHAN.V.G	25	17	14	15	10	87
	22UME012	NAVEEN.N.M	26	17	19	18	10	89
	22UME013	DHANUSH.R.K	25	17	19	18	10	89
	22UME023	KIRUBAJI .T.S	25	17	18	18	10	88
	22UME026	SIVAKANNAN.S	25	17	17	18	10	87
3	22UME003	SUBAN KUAMR.P	25	18	15	15	8	81
	22UME004	SURENDAR KUMAR.M	25	18	15	15	8	81
	22UME010	VELMURUGAN.M	25	18	5	15	8	71
	22UME016	VIJAYAN.S.P	25	18	15	15	8	81
	22UME018	PARAMASIVAN.B	24	18	17	17	8	81

Team No.	Roll No.	Name	Concept (30)	Circuit /Model (20)	Presentation (20)	Respond to Queries (20)	Team Work (10)	Total (100)
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	22UME007	GOWTHAM.A	28	18	18	18	10	92
	22UME017	GURU PRAVEEN.D	28	17	18	18	10	92
	22UME020	ANIKET LAKRA	28	18	18	18	10	92
	22UME022	NAVEEN SARATHI.V	28	18	18	18	10	92
5	22UME006	ABINASH.T	25	15	15	12	5	72
	22UME011	AVINESH.T	25	15	15	12	5	72
	22UME021	KARTHIK.M	25	15	15	12	5	72
	22UME027	MANIKANDAN.G	25	15	15	12	5	72
	22UME032	HARIBALAJI.L	25	15	15	12	5	72
6	22UME024	SOLEESWARAN.R	28	18	18	19	10	93
	22UME028	VISHWAMARADHU.K	28	18	18	19	10	93
	22UME029	KISHORE VIKRAM.N	28	18	18	19	10	93
	22UME030	THANGAVELPANDIAN.P	28	18	18	19	10	93
	22UME031	ARAVIND KUMAR.S	28	18	18	19	10	93
	22UME001	KARUPASAMY	20	10	10	05	05	50

Coordinator

Reviewer Name & Signature

Dr.N.Parthasarai

AP /Mech.

(HOD/MECH)

16.07.24

Department of Mechanical Engineering

Micro Project Presentation – Evaluation Sheet

Team No.	Roll No.	Name	Concept (30)	Circuit /Model (20)	Presentation (20)	Respond to Queries (20)	Team Work (10)	Total (100)
1	22UME001	MURUGAN.J	25	20	15	15	9	84
	22UME005	VIGNESHWAR.S	25	20	00	15	5	65
	22UME014	AATHI.V	25	20	17	20	10	92
	22UME019	VIGNESH.B	25	20	10	10	7	72
	22UME025	BALAJI.S	25	20	17	20	10	92
2	22UME008	SUDHARSHAN.V.G	25	20	15	15	8	83
	22UME012	NAVEEN.N.M	25	20	00	20	7	72
	22UME013	DHANUSH.R.K	25	20	18	20	10	98
	22UME023	KIRUBAJI .T.S	25	20	15	15	8	83
	22UME026	SIVAKANNAN.S	25	20	10	10	5	70
3	22UME003	SUBAN KUAMR.P	25	20	16	20	10	91
	22UME004	SURENDAR KUMAR.M	25	20	16	20	10	91
	22UME010	VELMURUGAN.M	25	20	15	10	5	75
	22UME016	VIJAYAN.S.P	25	20	15	10	5	75
	22UME018	PARAMASIVAN.B	25	20	15	10	5	75

Team No.	Roll No.	Name	Concept (30)	Circuit /Model (20)	Presentation (20)	Respond to Queries (20)	Team Work (10)	Total (100)
4	22UME002	MARIA REENALDIN.G	25	20	18	18	10	91
	22UME007	GOWTHAM.A	25	20	12	05	5	67
	22UME017	GURU PRAVEEN.D	25	20	16	15	8	84
	22UME020	ANIKET LAKRA	25	20	17	20	8	90
	22UME022	NAVEEN SARATHI.V	25	20	12	15	8	80
5	22UME006	ABINASH.T	25	20	15	5	2	57
	22UME011	AVINESH.T	25	20	11	5	2	63
	22UME021	KARTHIK.M	25	20	12	5	2	64
	22UME027	MANIKANDAN.G	25	20	15	10	2	72
	22UME032	HARIBALAJI.L	25	20	05	5	2	57
6	22UME024	SOLEESWARAN.R	25	20	12	12	2	71
	22UME028	VISHWAMARADHU.K	25	20	15	15	5	80
	22UME029	KISHORE VIKRAM.N	25	20	15	15	5	80
	22UME030	THANGAVELPANDIAN.P	25	20	12	12	5	74
	22UME031	ARAVIND KUMAR.S	25	20	16	17	8	86
	22UME009	KARUPASAMY	20	10	10	5	5	50

Co-ordinator

K. muruga
16.07.24
Dr. K. MURUGANANTHAN
Reviewer Name & Signature

[HOD/MECH]

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar – C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

Department of Mechanical Engineering

Micro Project Presentation – Evaluation Sheet

Team No.	Roll No.	Name	Concept (30)	Circuit /Model (20)	Presentation (20)	Respond to Queries (20)	Team Work (10)	Total (100)
1	22UME001	MURUGAN.J	20	15	15	20	10	80
	22UME005	VIGNESHWAR.S	20	15	15	20	10	80
	22UME014	AATHI.V	20	15	15	15	8	73
	22UME019	VIGNESH.B	20	15	15	10	5	65
	22UME025	BALAJI.S	20	15	15	10	8	68
2	22UME008	SUDHARSHAN.V.G	25	15	15	20	8	78
	22UME012	NAVEEN.N.M	25	15	15	20	8	78
	22UME013	DHANUSH.R.K	20	15	15	20	8	78
	22UME023	KIRUBAJI .T.S	20	15	15	20	8	78
	22UME026	SIVAKANNAN.S	20	15	15	10	8	63
3	22UME003	SUBAN KUAMR.P	25	20	20	20	10	95
	22UME004	SURENDAR KUMAR.M	25	20	20	20	10	95
	22UME010	VELMURUGAN.M	20	10	10	10	5	50
	22UME016	VIJAYAN.S.P	20	10	10	15	5	60
	22UME018	PARAMASIVAN.B	20	10	10	15	5	60

Team No.	Roll No.	Name	Concept (30)	Circuit /Model (20)	Presentation (20)	Respond to Queries (20)	Team Work (10)	Total (100)
4	22UME002	MARIA REENALDIN.G	25	20	18	20	8	91
	22UME007	GOWTHAM.A	20	20	18	15	8	76
	22UME017	GURU PRAVEEN.D	25	15	18	15	8	81
	22UME020	ANIKET LAKRA	25	15	18	15	8	81
	22UME022	NAVEEN SARATHI.V	20	15	18	15	8	76
5	22UME006	ABINASH.T	20	18	14	14	7	73
	22UME011	AVINESH.T	20	18	14	14	7	73
	22UME021	KARTHIK.M	20	18	14	14	7	73
	22UME027	MANIKANDAN.G	20	18	14	14	7	73
	22UME032	HARIBALAJI.L	20	18	14	14	7	73
6	22UME024	SOLEESWARAN.R	20	18	18	15	7	72
	22UME028	VISHWAMARADHU.K	20	18	18	15	7	72
	22UME029	KISHORE VIKRAM.N	20	18	18	15	7	72
	22UME030	THANGAVELPANDIAN.P	20	18	18	15	7	72
	22UME031	ARAVIND KUMAR.S	20	18	18	15	7	72
	22UME009	KARUPPASAMY	20	10	10	5	5	50

Reviewer Name & Signature

Dr.B.Balavairavan
AP/mech.

(HOD/MECH)

KAMARAJ®
COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

Department of Mechanical Engineering

Title of the Program : Value Added Course on "IoT"

Date: 08.07.2024 to 16.07.2024 (7 Days)

Participants : III year (2022 – 2026 Batch)

Academic Year: 2024 – 2025 ODD

Conducted by : Quantanics Techserv, Madurai.

Venue : KCET-MECH-CAD Lab

External Assessment Mark

S No	Roll Number	Register Number	Student Name	Evaluator 1 Out of 100	Evaluator 2 Out of 100	Evaluator 3 Out of 100	Total (Average)
1	22UME001	920422114014	MURUGAN.J	86	84	80	84
2	22UME002	920422114013	MARIA REENALDIN.G	91	91	91	91
3	22UME003	920422114020	SUBAN KUMAR.P	81	91	95	89
4	22UME004	920422114022	SURENDAR KUMAR.M	81	91	95	89
5	22UME005	920422114025	VIGNESHWAR.S	79	65	80	75
6	22UME006	920422114002	ABINASH.T	72	57	73	68
7	22UME007	920422114007	GOWTHAM.A	92	67	76	79
8	22UME008	920422114021	SUDHARSHAN.V.G	84	83	78	82
9	22UME009	920422114010	KARUPPASAMY.S	50	50	50	50
10	22UME010	920422114023	VELMURUGAN.M	71	75	50	66
11	22UME011	920422114004	AVINESH.T	72	63	73	70
12	22UME012	920422114015	NAVEEN.N.M	89	72	78	80
13	22UME013	920422114006	DHANUSH.R.K	89	98	78	89
14	22UME014	920422114001	AATHI.V	86	92	73	84
15	22UME016	920422114026	VIJAYAN.S.P	81	75	60	72
16	22UME017	920422114008	GURU PRAVEEN.D	92	84	81	86
17	22UME018	920422114017	PARAMASIVAN.B	81	75	60	72
18	22UME019	920422114024	VIGNESH.B	87	72	65	75
19	22UME020	920422114003	ANIKET LAKRA	92	90	81	88
20	22UME021	920422114009	KARTHIK.M	72	64	73	70
21	22UME022	920422114016	NAVEEN SARATHI.V	92	80	76	83
22	22UME023	920422114011	KIRUBAJI.T.S	88	83	78	83
23	22UME024	920422114019	SOLEESWARAN.R	93	71	72	79
24	22UME025	920422114005	BALAJI.S	89	92	68	83
25	22UME026	920422114018	SIVAKANNAN.S	87	70	68	75
26	22UME027	920422114012	MANIKANDAN.G	72	72	73	73
27	22UME028	920422114305	VISHWAMARUDHU.K	93	80	72	82
28	22UME029	920422114303	KISHORE VIKRAM.N	93	90	72	85
29	22UME030	920422114304	THANGAVELPANDIAN.P	93	74	72	80
30	22UME031	920422114301	ARAVIND KUMAR.S	93	86	72	84
31	22UME032	920422114302	HARI BALAJI.L	72	57	73	68

Coordinators

N.R.MADHAN

HoD/Mech

Ref doc:- QTSM/24-25/KCE/045

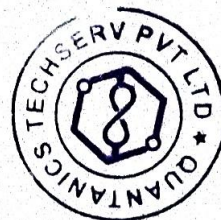**Title of the Program : Value Added Course on "IoT"**   **Date: 08.07.2024 to 16.07.2024 (7 Days)**
Name of the College : Kamaraj College of Engineering and Technology   **Department: Mechanical Engineering**

Assessment Mark

S No	Roll Number	Register Number	Student Name	Evaluator 1 Out of 100	Evaluator 2 Out of 100	Evaluator 3 Out of 100	Total (Average)
1	22UME001	920422114014	MURUGAN.J	86	84	80	84
2	22UME002	920422114013	MARIA REENALDIN.G	91	91	91	91
3	22UME003	920422114020	SUBAN KUMAR.P	81	91	95	89
4	22UME004	920422114022	SURENDAR KUMAR.M	81	91	95	89
5	22UME005	920422114025	VIGNESHWAR.S	79	65	80	75
6	22UME006	920422114002	ABINASH.T	72	57	73	68
7	22UME007	920422114007	GOWTHAM.A	92	67	76	79
8	22UME008	920422114021	SUDHARSHAN.V.G	84	83	78	82
9	22UME009	920422114010	KARUPPASAMY.S	50	50	50	50
10	22UME010	920422114023	VELMURUGAN.M	71	75	50	66
11	22UME011	920422114004	AVINESH.T	72	63	73	70
12	22UME012	920422114015	NAVEEN.N.M	89	72	78	80
13	22UME013	920422114006	DHANUSH.R.K	89	98	78	89
14	22UME014	920422114001	AATHI.V	86	92	73	84
15	22UME016	920422114026	VIJAYAN.S.P	81	75	60	72
16	22UME017	920422114008	GURU PRAVEEN.D	92	84	81	86
17	22UME018	920422114017	PARAMASIVAN.B	81	75	60	72
18	22UME019	920422114024	VIGNESH.B	87	72	65	75
19	22UME020	920422114003	ANIKET LAKRA	92	90	81	88
20	22UME021	920422114009	KARTHIK.M	72	64	73	70
21	22UME022	920422114016	NAVEEN SARATHI.V	92	80	76	83
22	22UME023	920422114011	KIRUBAJI.T.S	88	83	78	83
23	22UME024	920422114019	SOLEESWARAN.R	93	71	72	79
24	22UME025	920422114005	BALAJI.S	89	92	68	83
25	22UME026	920422114018	SIVAKANNAN.S	87	70	68	75
26	22UME027	920422114012	MANIKANDAN.G	72	72	73	73
27	22UME028	920422114305	VISHWAMARUDHU.K	93	80	72	82
28	22UME029	920422114303	KISHORE VIKRAM.N	93	90	72	85
29	22UME030	920422114304	THANGAVELPANDIAN.P	93	74	72	80
30	22UME031	920422114301	ARAVIND KUMAR.S	93	86	72	84
31	22UME032	920422114302	HARI BALAJI.L	72	57	73	68

CEO

A. Kesavan

A.Kesavan

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM 1001

This is to certify that Mr./Ms. _____ MURUGAN . J _____

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024** to **16.07.2024**

ASSESSMENT MARK...**84**...%

A. Sresavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION

CERTIFICATE

Certificate No:-KM 10002

This is to certify that Mr./Ms. _____ MARIA REENALDIN . G _____

has attended Seven days Value Added Course on Internet of Things (IoT) offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from 08.07.2024 to 16.07.2024

ASSESSMENT MARK....91.....%

A. Sreenivasan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

Certificate No:-KM10003

VALUE ADDED COURSE COMPLETION
CERTIFICATE

This is to certify that Mr./Ms. _____ SUBAN KUMAR .P _____
has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by
Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,
Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK...**89**...%

A.Srenivan

DIRECTOR
A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION

CERTIFICATE

Certificate No:-KM 10004

This is to certify that Mr./Ms. _____ SURENDAR kuMAR M _____

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from 08.07.2024 to 16.07.2024

ASSESSMENT MARK 89 %

A. Kenavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM 10005

This is to certify that Mr./Ms. _____ VIGNESHWAR . S _____

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from 08.07.2024 to 16.07.2024

ASSESSMENT MARK...**75**...%

A. Sreenavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION

CERTIFICATE

Certificate No:-KM 10006

This is to certify that Mr./Ms. _____ **ABINASH . T** _____

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK....**68**....%

A. Eresavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM 10007

This is to certify that Mr./Ms. _____ GOWTHAM . A _____

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK...**79**....%

A. Kesavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION

CERTIFICATE

Certificate No:-KM I 0008

This is to certify that Mr./Ms. _____ SUDHARSHAN . V.G _____

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from 08.07.2024 to 16.07.2024

ASSESSMENT MARK...**82**...%

A. Sivanaan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION

CERTIFICATE

Certificate No:-KM 10009

This is to certify that Mr./Ms. _____ kARUPPASAMY . S _____

has attended Seven days Value Added Course on Internet of Things (IoT) offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from 08.07.2024 to 16.07.2024

ASSESSMENT MARK ..50...%

A. Sheravan

DIRECTOR

A. KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM 10010

This is to certify that Mr./Ms. _____ VELMURUGAN . M _____

has attended Seven days Value Added Course on Internet of Things (IoT) offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK...**66**....%

A. Kesavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM 100011

This is to certify that Mr./Ms. .... **Avinesh . T** ....

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

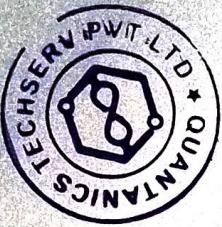**Quantanics TechServ Pvt. Ltd,** 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK ...**70**...%

A. Kesavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI16

VALUE ADDED COURSE COMPLETION
CERTIIFICATE

Certificate No:-KM 1 00012

This is to certify that Mr./Ms. ____ NAVEEN.N.M ____

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from 08.07.2024 to 16.07.2024

ASSESSMENT MARK...**80**....%

A. Stavavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM 10 0013

This is to certify that Mr./Ms. ___DHANUSH.R.k___

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from 08.07.2024 to 16.07.2024

ASSESSMENT MARK...**89**...%

A. Srenavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM I 0 0 0 I 4

This is to certify that Mr./Ms. ——— AATHI . V ———————

has attended Seven days Value Added Course on Internet of Things (IoT) offered by

Quantanics TechServ Pvt. Ltd., 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from 08.07.2024 to 16.07.2024

ASSESSMENT MARK ... 84 ... %

A. Srinivasan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION

CERTIFICATE

Certificate No:-KM 10015

This is to certify that Mr./Ms. _____ VIJAYAN .S.P _____

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK......72....%

A. Kesavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM I00016

This is to certify that Mr./Ms. .... GURU PRAVEEN .D ....

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from 08.07.2024 to 16.07.2024

ASSESSMENT MARK..86....%

A.Sesavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION

CERTIFICATE

Certificate No:-KM 100017

This is to certify that Mr./Ms. _____ **PARAMASIVAN .B** _____

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK...**72**...%

A.Selvadan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI5

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:- KM 100018

This is to certify that Mr./Ms. ....

Vignesh. B

has attended Seven days Value Added Course on Internet of Things (IoT) offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from 08.07.2024 to 16.07.2024

ASSESSMENT MARK 75 %

A. Sravan

DIRECTOR
A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

Certificate No:-KM 100019

VALUE ADDED COURSE COMPLETION
CERTIFICATE

This is to certify that Mr./Ms. ————— ANIKET LAKRA —————

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK...**88**...%

A. Kesavan

DIRECTOR

A. KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM I OOO2O

This is to certify that Mr./Ms. ————— kARThIk . M —————

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK...**70**...%

A. Srenavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

Certificate No:-KM 10002 l

VALUE ADDED COURSE COMPLETION
CERTIFICATE

This is to certify that Mr./Ms. ___ NAVEEN SARATHI . V ___

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK...**83**...%

A. Kesavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

Certificate No:-KM 100022

VALUE ADDED COURSE COMPLETION

CERTIFICATE

This is to certify that Mr./Ms. _____ KIRUBATI . T.S _____

has attended Seven days Value Added Course on Internet of Things (IoT) offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from 08.07.2024 to 16.07.2024

ASSESSMENT MARK ...83... %

A. Srenavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

Certificate No:-KM 100023

VALUE ADDED COURSE COMPLETION
CERTIFICATE

This is to certify that Mr./Ms. _____ SOLEESWARAN . R _____

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK ..79....%

A. Snavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM 100024

This is to certify that Mr./Ms. _____ Balaji . S _____

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK ...83...%

A. Kesavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION

CERTIFICATE

Certificate No:-KM 100025

This is to certify that Mr./Ms. _____ Sivakannan . S _____

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd., 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK...**75**....%

A. Kesavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM 100026

This is to certify that Mr./Ms. _MANIKANDAN·G_

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK....**73**....%

A. Srenavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM 100027

This is to certify that Mr./Ms. **VISHWAMARUDHU . K**

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK..**82**...%

A. Kesavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM 100028

This is to certify that Mr./Ms. _____ Kishore Vikram .N _____

has attended Seven days Value Added Course on Internet of Things (IoT) offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from 08.07.2024 to 16.07.2024

ASSESSMENT MARK. 85 %

A. Esenavan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM 100029

This is to certify that Mr./Ms. ....**THANGAVELPANDIAN . P**..........
has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by
Quantanics TechServ Pvt. Ltd., 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,
Madurai, Tamil Nadu 625016 from 08.07.2024 to 16.07.2024

ASSESSMENT MARK..**80**....%

A. Kesavan

DIRECTOR
A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION
CERTIFICATE

Certificate No:-KM I 00030

This is to certify that Mr./Ms. _____ ARAVIND KUMAR . S _____

has attended Seven days Value Added Course on **Internet of Things (IoT)** offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from **08.07.2024 to 16.07.2024**

ASSESSMENT MARK ..84....%

A. Sreenivan

DIRECTOR

A.KESAVAN

QUANTANICS TECHSERV PVT LTD

MADURAI-16

VALUE ADDED COURSE COMPLETION

CERTIFICATE

Certificate No:-KM 10031

This is to certify that Mr./Ms. __HARI BALAJI . L__

has attended Seven days Value Added Course on Internet of Things (IoT) offered by

Quantanics TechServ Pvt. Ltd, 207/49A, Theni Rd, Chavadi, VOC Nagar, North Street,

Madurai, Tamil Nadu 625016 from 08.07.2024 to 16.07.2024

ASSESSMENT MARK __68__ %

A. Srinivasan

DIRECTOR

A.KESAVAN

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S P G C. Nagar, K Vellakulam – 625 701 (Near VIRUDHUNAGAR)

Department of Mechanical Engineering

Title of the Program : Value Added Course on "IoT"

Date: 08.07.2024 to 16.07.2024 (7 Days)

Participants : III year (2022 – 2026 Batch)

Academic Year: 2024 – 2025 ODD

Conducted by : Quantanics Techserv, Madurai.

Venue : KCET-MECH-CAD Lab

Overall Assessment Mark

S No	Roll Number	Register Number	Student Name	External Assessment (out of 100)	External Assessment (out of 60)	Internal Assessment (out of 40)	Total Mark (out of 100)
1	22UME001	920422114014	MURUGAN.J	84	51	26	77
2	22UME002	920422114013	MARIA REENALDIN.G	91	55	28	83
3	22UME003	920422114020	SUBAN KUMAR.P	89	54	12	66
4	22UME004	920422114022	SURENDAR KUMAR.M	89	54	14	68
5	22UME005	920422114025	VIGNESHWAR.S	75	45	28	73
6	22UME006	920422114002	ABINASH.T	68	41	18	59
7	22UME007	920422114007	GOWTHAM.A	79	48	12	60
8	22UME008	920422114021	SUDHARSHAN.V.G	82	50	20	70
9	22UME009	920422114010	KARUPPASAMY.S	50	30	32	62
10	22UME010	920422114023	VELMURUGAN.M	66	40	10	50
11	22UME011	920422114004	AVINESH.T	70	42	12	54
12	22UME012	920422114015	NAVEEN.N.M	80	48	34	82
13	22UME013	920422114006	DHANUSH.R.K	89	54	22	76
14	22UME014	920422114001	AATHI.V	84	51	20	71
15	22UME016	920422114026	VIJAYAN.S.P	72	44	12	56
16	22UME017	920422114008	GURU PRAVEEN.D	86	52	24	76
17	22UME018	920422114017	PARAMASIVAN.B	72	44	8	52
18	22UME019	920422114024	VIGNESH.B	75	45	20	65
19	22UME020	920422114003	ANIKET LAKRA	88	53	36	89
20	22UME021	920422114009	KARTHIK.M	70	42	22	64
21	22UME022	920422114016	NAVEEN SARATHI.V	83	50	32	82
22	22UME023	920422114011	KIRUBAJI.T.S	83	50	30	80
23	22UME024	920422114019	SOLEESWARAN.R	79	48	16	64
24	22UME025	920422114005	BALAJI.S	83	50	22	72
25	22UME026	920422114018	SIVAKANNAN.S	75	45	10	55
26	22UME027	920422114012	MANIKANDAN.G	73	44	20	64
27	22UME028	920422114305	VISHWAMARUDHU.K	82	50	16	66
28	22UME029	920422114303	KISHORE VIKRAM.N	85	51	10	61
29	22UME030	920422114304	THANGAVELPANDIAN.P	80	48	16	64
30	22UME031	920422114301	ARAVIND KUMAR.S	84	51	14	65
31	22UME032	920422114302	HARI BALAJI.L	68	41	32	73

Coordinators

N.R. MADHAN

HoD/Mech

Dean Academics

26/7/24

Ref doc:- QTSM/24-25/KCE/046

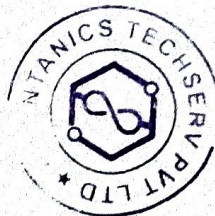**Title of the Program : Value Added Course on "IoT"** **Date: 08.07.2024 to 16.07.2024 (7 Days)**
Name of the College : Kamaraj College of Engineering and Technology **Department: Mechanical Engineering**

Attendance Sheet

S No	Roll Number	Register Number	Student Name	Total (%)
1	22UME001	920422114014	MURUGAN.J	100
2	22UME002	920422114013	MARIA REENALDIN.G	100
3	22UME003	920422114020	SUBAN KUMAR.P	100
4	22UME004	920422114022	SURENDAR KUMAR.M	86
5	22UME005	920422114025	VIGNESHWAR.S	100
6	22UME006	920422114002	ABINASH.T	86
7	22UME007	920422114007	GOWTHAM.A	86
8	22UME008	920422114021	SUDHARSHAN.V.G	100
9	22UME009	920422114010	KARUPPASAMY	86
10	22UME010	920422114023	VELMURUGAN.M	100
11	22UME011	920422114004	AVINESH.T	100
12	22UME012	920422114015	NAVEEN.N.M	100
13	22UME013	920422114006	DHANUSH.R.K	100
14	22UME014	920422114001	AATHI.V	100
15	22UME016	920422114026	VIJAYAN.S.P	100
16	22UME017	920422114008	GURU PRAVEEN.D	100
17	22UME018	920422114017	PARAMASIVAN.B	86
18	22UME019	920422114024	VIGNESH.B	86
19	22UME020	920422114003	ANIKET LAKRA	100
20	22UME021	920422114009	KARTHIK.M	86
21	22UME022	920422114016	NAVEEN SARATHI.V	100
22	22UME023	920422114011	KIRUBAJI.T.S	100
23	22UME024	920422114019	SOLEESWARAN.R	86
24	22UME025	920422114005	BALAJI.S	100
25	22UME026	920422114018	SIVAKANNAN.S	86
26	22UME027	920422114012	MANIKANDAN.G	100
27	22UME028	920422114305	VISHWAMARUDHU.K	86
28	22UME029	920422114303	KISHORE VIKRAM.N	86
29	22UME030	920422114304	THANGAVELPANDIAN.P	100
30	22UME031	920422114301	ARAVIND KUMAR.S	86
31	22UME032	920422114302	HARI BALAJI.L	100

CEO

A.Kesavan

Department of Mechanical Engineering

Title of the Program : Value Added Course on "IoT"

Date: 08.07.2024 to 16.07.2024 (7 Days)

Participants : III year (2022 – 2026 Batch)

Academic Year: 2024 – 2025 ODD

Conducted by : Quantanics Techserv, Madurai.

Venue : KCET-MECH-CAD Lab

Attendance Sheet

S No	Roll Number	Register Number	Student Name	Total (%)
1	22UME001	920422114014	MURUGAN.J	100
2	22UME002	920422114013	MARIA REENALDIN.G	100
3	22UME003	920422114020	SUBAN KUMAR.P	100
4	22UME004	920422114022	SURENDAR KUMAR.M	86
5	22UME005	920422114025	VIGNESHWAR.S	100
6	22UME006	920422114002	ABINASH.T	86
7	22UME007	920422114007	GOWTHAM.A	86
8	22UME008	920422114021	SUDHARSHAN.V.G	100
9	22UME009	920422114010	KARUPPASAMY	86
10	22UME010	920422114023	VELMURUGAN.M	100
11	22UME011	920422114004	AVINESH.T	100
12	22UME012	920422114015	NAVEEN.N.M	100
13	22UME013	920422114006	DHANUSH.R.K	100
14	22UME014	920422114001	AATHI.V	100
15	22UME016	920422114026	VIJAYAN.S.P	100
16	22UME017	920422114008	GURU PRAVEEN.D	100
17	22UME018	920422114017	PARAMASIVAN.B	86
18	22UME019	920422114024	VIGNESH.B	86
19	22UME020	920422114003	ANIKET LAKRA	100
20	22UME021	920422114009	KARTHIK.M	86
21	22UME022	920422114016	NAVEEN SARATHI.V	100
22	22UME023	920422114011	KIRUBAJI.T.S	100
23	22UME024	920422114019	SOLEESWARAN.R	86
24	22UME025	920422114005	BALAJI.S	100
25	22UME026	920422114018	SIVAKANNAN.S	86
26	22UME027	920422114012	MANIKANDAN.G	100
27	22UME028	920422114305	VISHWAMARUDHU.K	86
28	22UME029	920422114303	KISHORE VIKRAM.N	86
29	22UME030	920422114304	THANGAVELPANDIAN.P	100
30	22UME031	920422114301	ARAVIND KUMAR.S	86
31	22UME032	920422114302	HARI BALAJI.L	100

Coordinators

N. R. MADHAN

HoD/Mech

Department of Mechanical Engineering

Title of the Program : Value Added Course on "IoT"	Date: 08.07.2024 to 16.07.2024 (7 Days)
Participants : III year (2022 – 2026 Batch)	Academic Year: 2024 – 2025 ODD
Conducted by : Quantanics Techserv, Madurai.	Venue : KCET-MECH-CAD Lab

Summary Report

Date	Description
08.07.2024	**IoT Introduction** Learn the essentials of C programming specific to the ATMEL328p microcontroller. Understand the foundational concepts of electronics crucial for IoT development. Install and configure the Arduino Integrated Development Environment (IDE) to start programming.
09.07.2024	Implement simple projects like LED blinking and a traffic light system to get hands-on experience. Delve deeper into C programming with functions, pointers, arrays, and memory allocation. Control LEDs using push buttons and switch motors using relays.
10.07.2024	**Sensors and Types of ATMEL Controller** Display temperature readings using sensors. Explore the architecture of these popular IoT controllers. Interface soil moisture sensors and turbidity sensors to monitor environmental conditions.
11.07.2024	**Embedded Platform Introduction and Dive In** Get an overview of the Arduino IDE and various board types. Learn about essential tools and sensors used in IoT projects. Further your skills in C programming and LED control. Understand sensor integration and controller architecture. Work with 7-segment displays, LCDs, and keypads. Introduction and practical examples using the Arduino IoT Cloud and mobile apps.
12.07.2024	**IoT Protocols and Applications** Understand Analog-to-Digital Conversion. Learn to control relays using a keypad. Explore Universal Synchronous/Asynchronous Receiver-Transmitter (USART) communication. Work with timers, counters, and Pulse Width Modulation (PWM). Integrate GSM and GPS for data communication. Store data in the microcontroller's EEPROM. Apply IoT for home automation and robot control using MQTT.
14.07.2024	**Product Development** Design IoT products and integrate them with cloud services. Learn to control stepper and servo motors. Develop systems for monitoring and controlling temperature. Monitor hydraulic sensors and integrate with the cloud. Implement systems for analyzing speed and vibration using Modbus. **Internal Assessment** Internal Assessment was conducted through MS Quiz
15.07.2024	**External Assessment** **During the forenoon session**, a group of four students did their project work using IoT. The instructor corrected and evaluated the project. **During the afternoon session**, each team presented their project work using IoT to the juries. The Head of the Department of Mechanical Engineering framed the juries.

Coordinators

N. R. MADHAN

HoD/Mech

KAMARAJ®
COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution) AFFILIATED TO ANNA UNIVERSITY CHENNAI
S.P.G.C Chidambaranadar - () Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam - 625 701 Dist. VIRUDHUNAGAR)

Department of Mechanical Engineering

Title of the Program : Value Added Course on "IoT" **Date: 08.07.2024 to 16.07.2024 (7 Days)**

Participants : III year (2022 – 2026 Batch) **Academic Year: 2024 – 2025 ODD**

Conducted by : Quantanics Techserv, Madurai. **Venue : KCET-MECH-CAD Lab**

Attendance Report

S No	Roll Number	Register Number	Student Name	08/07	09/07	10/07	11/07	12/07	15/07	16/07
1	22UME001	920422114014	MURUGAN.J							
2	22UME002	920422114013	MARIA REENALDIN.G							
3	22UME003	920422114020	SUBAN KUMAR.P							
4	22UME004	920422114022	SURENDAR KUMAR.M	AB						
5	22UME005	920422114025	VIGNESHWAR.S							
6	22UME006	920422114002	ABINASH.T	AB						
7	22UME007	920422114007	GOWTHAM.A	AB						
8	22UME008	920422114021	SUDHARSHAN.V.G							
9	22UME009	920422114010	KARUPPASAMY.S	AB						
10	22UME010	920422114023	VELMURUGAN.M							
11	22UME011	920422114004	AVINESH.T							
12	22UME012	920422114015	NAVEEN.N.M							
13	22UME013	920422114006	DHANUSH.R.K							
14	22UME014	920422114001	AATHI.V							
15	22UME016	920422114026	VIJAYAN.S.P							
16	22UME017	920422114008	GURU PRAVEEN.D							
17	22UME018	920422114017	PARAMASIVAN.B	AB						
18	22UME019	920422114024	VIGNESH.B	AB						
19	22UME020	920422114003	ANIKET LAKRA							
20	22UME021	920422114009	KARTHIK.M	AB						
21	22UME022	920422114016	NAVEEN SARATHI.V							
22	22UME023	920422114011	KIRUBAJI.T.S							
23	22UME024	920422114019	SOLEESWARAN.R	AB						
24	22UME025	920422114005	BALAJI.S							
25	22UME026	920422114018	SIVAKANNAN.S	AB						
26	22UME027	920422114012	MANIKANDAN.G							
27	22UME028	920422114305	VISHWAMARUDHU.K	AB						
28	22UME029	920422114303	KISHORE VIKRAM.N	AB						
29	22UME030	920422114304	THANGAVELPANDIAN.P							
30	22UME031	920422114301	ARAVIND KUMAR.S	AB						
31	22UME032	920422114302	HARI BALAJI.L							

Coordinators

N. R. MADHAN

HoD/Mech

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY

An Autonomous Institution

VIRUDHUNAGAR

Department of Mechanical Engineering

Title of the Program : Value Added Course on "IoT"

Date: 08.07.2024 to 16.07.2024 (7 Days)

Participants : III year (2022 – 2026 Batch)

Academic Year: 2024 – 2025 ODD

Conducted by : Quantanics Techserv, Madurai.

Venue : KCET-MECH-CAD Lab

- -
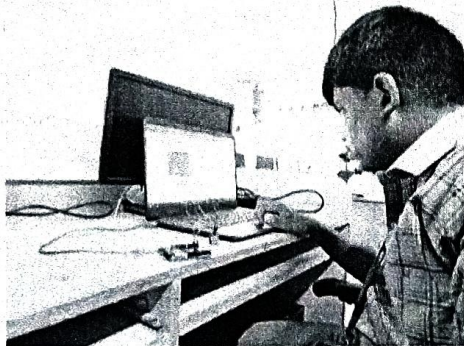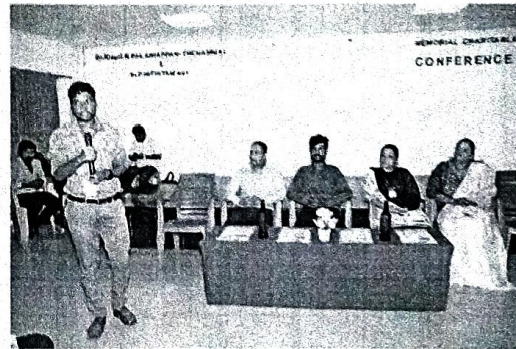
Photo Proof

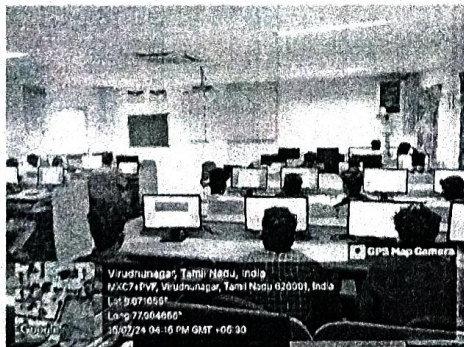Inauguration function conducted on 08.09.2024

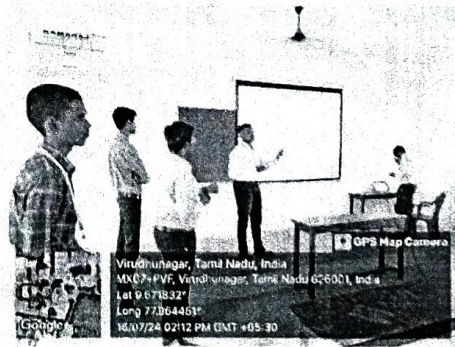
Demonstration done by the trainer

"IoT" Practical done by the students

Student's feedback during the Valedictory Function on 12.07.2024

Internal Assessment Exam on 15.07.2024

Students presented their project work during the External Assessment on 16.07.2024

Coordinators

N. R. MADAN

HoD/Mech

Feedback Form | IoT| III Year | Value Added Course

Title of the Program : Value added course for "IoT"
Participants   : III - year students
Date   : 08.07.2024 to 16.07.2024
Conducted by   : Quantanics Techserv, Madurai

Coordinators:
Er. Madhan N R, AP/Mech,

Instructions: Please indicate your level of agreement the statements listed below

4 Star - Strong Agree
3 Star - Agree
2 Star - Neutral
1 Star - Dis-Agree

* Required

* This form will record your name, please fill your name.

[   ]

1. The objectives of the training were clearly defined by the Co-ordinator *

☆ ☆ ☆ ☆

2. Participation and interaction were encouraged. *

☆ ☆ ☆ ☆

3. The topics covered were relevant to me. *

☆ ☆ ☆ ☆

4. The content was organized and easy to follow. *

☆ ☆ ☆ ☆

5. This training experience will be useful me. *

☆ ☆ ☆ ☆

6. The trainer was knowledgeable about the training topics. *

☆ ☆ ☆ ☆

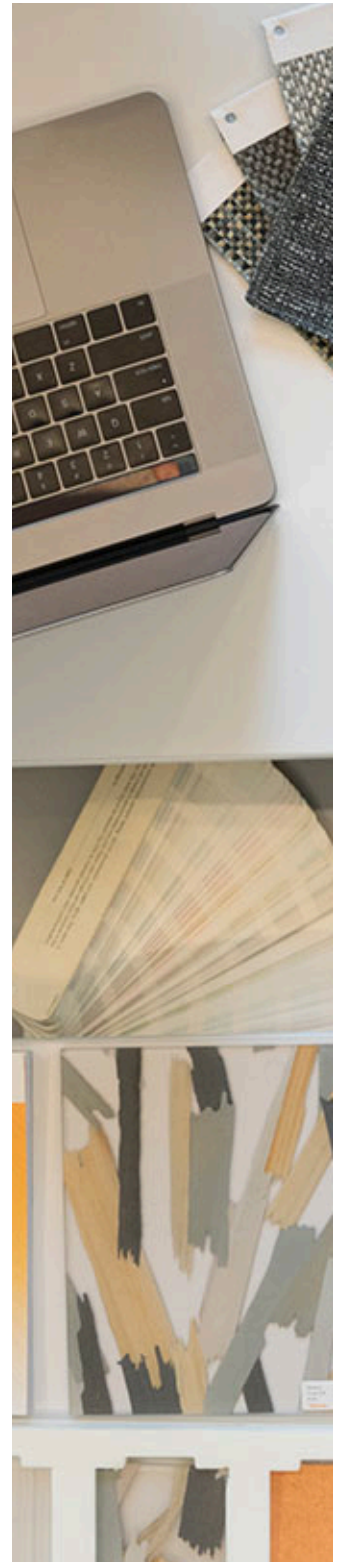7. The trainer was well prepared. *

☆ ☆ ☆ ☆

8. The training objectives were met. *

☆ ☆ ☆ ☆

9. The time allotted for the training was sufficient *

☆ ☆ ☆ ☆

10. The HOP Lab were adequate and comfortable. *

☆ ☆ ☆ ☆

Your view about this programme

11. What did you like most about this training? *

12. What aspects of the training could be improved? *

13. How do you hope to change your practice as a result of this training? *

14. Please share over all comments about this programme *

15. Do you suggest this programme to your juniors *

   ○ No

   ○ Yes

Kindly approve these question

N. R. MADHAN

approved.

HOD/MECH

Feedback Form | IoT| III Year | Value Added Course

🔔 Send reminder to people who have not responded.   [Remind them]

31 Responses   **01:26** Average time to complete   **Active** Status

1. The objectives of the training were clearly defined by the Co-ordinator (0 point)

3.48
Average Rating
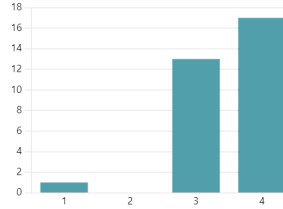
2. Participation and interaction were encouraged. (0 point)

3.52
Average Rating
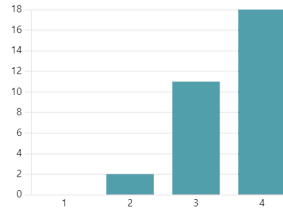
3. The topics covered were relevant to me. (0 point)

3.45
Average Rating
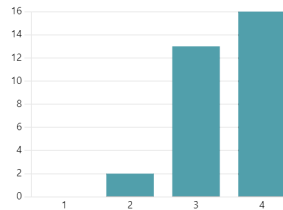
4. The content was organized and easy to follow. (0 point)

3.55
Average Rating
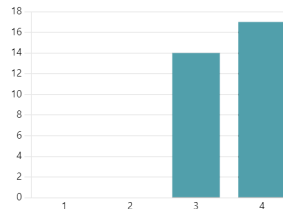
5. This training experience will be useful me. (0 point)

3.61
Average Rating
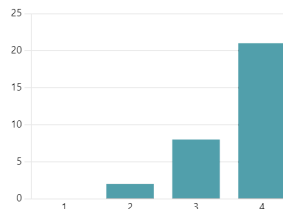
6. The trainer was knowledgeable about the training topics. (0 point)

3.65
Average Rating
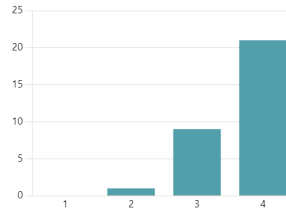
7. The trainer was well prepared. (0 point)

3.65
Average Rating
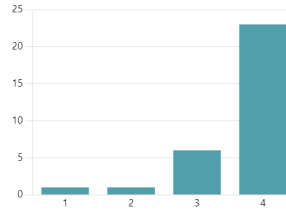
8. The training objectives were met. (0 point)

3.55
Average Rating
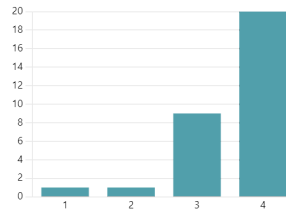
9. The time allotted for the training was sufficient (0 point)

3.45
Average Rating
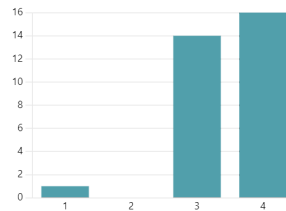
10. The HOP Lab were adequate and comfortable. (0 point)

3.45
Average Rating

11. What did you like most about this training? (0 point)

31
Responses

Latest Responses

Good

12. What aspects of the training could be improved? (0 point)

31
Responses

Latest Responses

Good

Board for aurdino   time period   Yes   basic   useful course   knowledge   IoT   Hardware integration   Coding   No opinion   clarification   Same   improved

13. How do you hope to change your practice as a result of this training? (0 point)

31
Responses

Latest Responses

time application   real time   pratical things ebbeded in internet   Event stroud
days   internet of things   **Good**   Daily training
Need to do more time   things   theory
IoT   knowledge of abbeded   Gathering
Interaction

14. Please share over all comments about this programme. (0 point)

31
Responses

Latest Responses

knowledgeable   Super   use in future   Information
Iot of things   Nice program IOT   time limit
juniors   Good comments   **Good**   future   usefull
programme was good   time
sensor and actuator   overall   course

15. Do you suggest this programme to your juniors (0 point)

All the students
are giving positive response
about this program.

N.R.
N.R. MADHAN

S.Thy...

HOO/MECH

Review: Feedback Form | IoT| III Year | Value Added Course

Respondent		04:32
20	GURU PRAVEEN.D	Time to complete

1. The objectives of the training were clearly defined by the Co-ordinator *

Score   / 0 pts

★ ★ ★ ☆

2. Participation and interaction were encouraged. *

Score   / 0 pts

★ ★ ★ ☆

3. The topics covered were relevant to me. *

Score   / 0 pts

★ ★ ★ ☆

4. The content was organized and easy to follow. *

Score   / 0 pts

★ ★ ★ ☆

5. This training experience will be useful me. *

Score   / 0 pts

★ ★ ★ ☆

6. The trainer was knowledgeable about the training topics. *

Score   / 0 pts

★ ★ ★ ☆

7. The trainer was well prepared. *

Score   / 0 pts

★ ★ ★ ★

8. The training objectives were met. *

Score   / 0 pts

★ ★ ★ ☆

9. The time allotted for the training was sufficient *

Score   / 0 pts

★ ★ ★ ☆

10. The HOP Lab were adequate and comfortable. *   Score   / 0 pts

★ ★ ★ ☆

Your view about this programme

11. What did you like most about this training? *   Score   / 0 pts

About new thinks

12. What aspects of the training could be improved? *   Score   / 0 pts

Knowing new things

13. How do you hope to change your practice as a result of this training? *   Score   / 0 pts

Gathering

14. Please share over all comments about this programme. *   Score   / 0 pts

Nice

15. Do you suggest this programme to your juniors *   Score   / 0 pts

Yes

No

N.R. MADHAN

NOD /MECH

Review: Feedback Form | IoT| III Year | Value Added Course

Respondent		
21	KARUPPASAMY.S	**02:31** Time to complete

1. The objectives of the training were clearly defined by the Co-ordinator *

★ ★ ★ ★

Score ____ / 0 pts

2. Participation and interaction were encouraged. *

★ ★ ★ ★

Score ____ / 0 pts

3. The topics covered were relevant to me. *

★ ★ ★ ☆

Score ____ / 0 pts

4. The content was organized and easy to follow. *

★ ★ ★ ★

Score ____ / 0 pts

5. This training experience will be useful me. *

★ ★ ★ ★

Score ____ / 0 pts

6. The trainer was knowledgeable about the training topics. *

★ ★ ★ ★

Score ____ / 0 pts

7. The trainer was well prepared. *

★ ★ ★ ★

Score ____ / 0 pts

8. The training objectives were met. *

★ ★ ★ ★

Score ____ / 0 pts

9. The time allotted for the training was sufficient *

★ ★ ★ ★

Score ____ / 0 pts

10. The HOP Lab were adequate and comfortable *   Score   /0 pts

★ ★ ★ ★

Your view about this programme

11. What did you like most about this training? *   Score   /0 pts

Encouragment

12. What aspects of the training could be improved? *   Score   /0 pts

Nothing

13. How do you hope to change your practice as a result of this training? *   Score   /0 pts

Interaction

14. Please share over all comments about this programme. *   Score   /0 pts

Super

15. Do you suggest this programme to your juniors *   Score   /0 pts

☉ Yes

No

N·R·MADHAN

HOD/ MECH

Review: Feedback Form | IoT| III Year | Value Added Course

Respondent		
24	VIJAYAN.S.P	01:51
		Time to complete

1. The objectives of the training were clearly defined by the Co-ordinator *   Score ___ / 0 pts

★ ★ ★ ☆

2. Participation and interaction were encouraged. *   Score ___ / 0 pts

★ ★ ☆ ☆

3. The topics covered were relevant to me. *   Score ___ / 0 pts

★ ★ ★ ☆

4. The content was organized and easy to follow. *   Score ___ / 0 pts

★ ★ ★ ☆

5. This training experience will be useful me. *   Score ___ / 0 pts

★ ★ ☆ ☆

6. The trainer was knowledgeable about the training topics. *   Score ___ / 0 pts

★ ★ ★ ★

7. The trainer was well prepared. *   Score ___ / 0 pts

★ ★ ★ ☆

8. The training objectives were met. *   Score ___ / 0 pts

★ ★ ★ ☆

9. The time allotted for the training was sufficient *   Score ___ / 0 pts

★ ★ ★ ☆

10. The HOP Lab were adequate and comfortable. *

★ ★ ★ ☆

Score 　/ 0 pts

Your view about this programme

11. What did you like most about this training? *

Aurdino

Score 　/ 0 pts

12. What aspects of the training could be improved? *

Board for aurdino

Score 　/ 0 pts

13. How do you hope to change your practice as a result of this training? *

Yes

Score 　/ 0 pts

14. Please share over all comments about this programme. *

Helpful

Score 　/ 0 pts

15. Do you suggest this programme to your juniors *

☑ Yes

No

Score 　/ 0 pts

N.R.
N. R. MADITAN

HOD / MECH