



(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 ELECTRICAL AND ELECTRONICS
ENGINEERING**

Academic Year 2024-2025 Odd semester

INDUSTRY CERTIFIED

VALUE ADDED COURSE

On

IOT AND ITS APPLICATIONS

2022-2026 Batch Students

III EEE

Number of Participants: 32

Er. T. Hari Prasath
COURSE COORDINATORS

Er.T.Hari Prasath, AP / EEE

Dr. D. Prince Winston Prof
HOD /EEE

Dr. D. Prince Winston Prof / EEE

Verified

*21/8/2024
S. Srinivasan
Vice Incharge.*



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

Academic Year 2024-2025 Odd semester

Guidelines for Value Added Courses:

- | | | |
|----|--|--|
| 1 | Academic Year | :2024-2025 |
| 2 | Regulations | :R2021 |
| 3 | Department Name | : Electrical and Electronics Engineering |
| 4 | Name of the Value - Added Course | : IoT and its Applications |
| 5 | Number of Credits | : 2 |
| 6 | Category | Theory/Lab/Hands- on/Skill based etc. |
| 7 | Name and Details of the Joint – Organization (Industry/NGO etc) if any | Quantanics Techserv Private Limited, Madurai |
| 8 | Resource Person Details: | Er. Sujitha, Trainer
Quantanics Techserv
Pvt.Ltf |
| 9 | VAC Coordinator Details | Dr.A. Rajavel AP/EEE |
| 10 | Course Coordinator Details | Er. T. Hari Prasath
AP/EEE |
| 11 | Duration (30H Mandatory) | 48 Hours |
| 12 | Period(From- To) | 08-07-2024 to 13-07-2024
(6 Days) |
| 13 | Venue | Power System Simulation
Laboratory |

G. Hari Prasath
Course Coordinator
(T.HARI PRASATH)

D. Prince Winston
HOD - EEE

N. J. Ban
22/07/24
DEAN Academics



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Industry Certified Value Added Course

on

IOT AND ITS APPLICATIONS

08-07-2024 to 13-07-2024

Enclosures:

S.No.	Checklist	Availability
1	Institutional approval copy	Yes
2	Circular	Yes
3	Syllabus copy with Course Outcomes	Yes
4	BoS Approval	Yes
5	Minutes of Three member Committee	Yes
6	Geo-tagged Photos	Yes
7	Certificate of all participants	Yes
8	Examination Schedule	NA
9	Question and Answers	Yes
10	Attendance Sheet	Yes
11	Evaluated Answer sheet	Yes
12	Test Report	Yes
13	Mark Statement	Yes
14	Grade Sheet	N/A
15	Feedback form	Yes
16	Feedback Analysis and Report	Yes
17	Program Summary / Report	Yes
18	Student's Oral Feedback (Recorded Video)	No
19	VAC -Short Video	Yes
20	Settlement to	Yes

A. J. S.
Dr. A. Rajasekar.

Dr. D. Princy W. S.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

(Accredited by NBA, New Delhi)

In association with Quantanics Techserv Pvt Ltd, Madurai.

Value Added Course on "IoT and its Applications"


2024-25 ODD Semester (July 2024)

List of Qualified Students

S.No.	Register Number	Roll Number	Name of the student
1	920422105005	22UEE001	HARI KUMARAN S
2	920422105001	22UEE002	ABDUL RAHMAN FAISAL F
3	920422105025	22UEE003	VISHAAL S
4	920422105013	22UEE004	MANJULADEVI P
5	920422105008	22UEE005	KANKESHRAJ A
6	920422105014	22UEE007	MUKILAN M
7	920422105004	22UEE008	DEEPAVISHALI S
8	920422105012	22UEE009	MADHUMITHA M
9	920422105011	22UEE010	M LAVANYA
10	920422105016	22UEE011	PAUL EBINESH G
11	920422105022	22UEE012	V K SUDHARSAN
12	920422105010	22UEE013	KESAVAN M
13	920422105015	22UEE014	S PARTHA SARATHY
14	920422105019	22UEE015	RAM V
15	920422105024	22UEE016	VIGNESH S
16	920422105020	22UEE017	SANTHIYA J

S.No.	Register Number	Roll Number	Name of the student
17	920422105009	22UEE018	KARUPPASAMY S
18	920422105006	22UEE019	HARIBASKARAN A
19	920422105002	22UEE020	AMUTHAN N
20	920422105003	22UEE021	CHARUPRIYA G
21	920422105023	22UEE022	THAMEESH AHAMED M
22	920422105021	22UEE023	SETHU PATHI M
23	920422105007	22UEE024	HARISH KUMAR K
24	920422105017	22UEE025	POOJA K
25	920422105018	22UEE026	PREM G
26	920422105307	22UEE027	YOGAN DHANUSH M
27	920422105304	22UEE028	JOHN RAJ S
28	920422105306	22UEE029	MANI KANDAN K
29	920422105303	22UEE030	JIM ALLEN D J
30	920422105305	22UEE031	JOSHUA RAJ R
31	920422105301	22UEE032	HARIKUMARAN M
32	920422105302	22UEE033	HARISH KUMAR V


Staff In-Charge
Dr. A. Rajavel


HOD/EEE
Dr. D. Prasad Venkatesh



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APPROVAL BOOK

Book No.

EEE

Date 18-05-2024

SL.No. **18**

Requisition to conduct Value Added Course (2024-25 ODD Semester) on "IoT and its applications" by Quantanics Techserv Private Limited, Madurai. This course will make the students to do consultancy / Project work in IoT based industries. Food and transport would require for resource persons at free of cost.

Details:

Batch strength : 32 (III year)

Duration : 6 days (08-07-24 to 13-07-24)

course fee + project kit / student : 1500 (Proposal enclosed)

Total amount + GST (18%) : $(1500 \times 32) + 8640 = 56,640$

Signature of Staff
 [S. JEGAN] 18/05/24

HOD

PRINCIPAL 20/5/24

OFFICE USE

Value Added Course Exp

- 1) Account Head :
- 2) Budget allotted :
- 3) Amount committed / Spent sofar :
- 4) Balance available :

Administrative Officer

Secretary



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05-07-2024

CIRCULAR

The Department of Electrical and Electronics Engineering of Kamaraj College of Engineering and Technology organizes 6 day Value added course for III EEE from 08-07-2024 to 13-07-2024. The detail of the course is given below.

Name of Value added course	Conducted by	Venue
Iot and its Applications	Quantanics Techserv Private Limited, Madurai	PSS Lab, D Block IV floor


HoD / EEE 07/24

Copy to:

1. To be read in III EEE class room
2. Circulated to all the EEE teaching faculty members through their email ID.
3. HoD / EEE
4. File



QUANTANICS TECHSERV PVT LTD

Digitise Your Lives

GSTIN : 33AAACQ5974E1ZG

CIN: U72900TN2019PTC127723

QUOTATION

Ref No: QN/2024 /MAY/08

Date: 13/05/2024

To

The Principal,
Kamaraj College of Engineering and Technology
Virudhunagar.

Dear Sir,

With reference to the discussion we had with you, we hereby quote our best offer

S.No	Description	Qty	Unit Cost in Rs.	Total Amount in Rs.
1	IOT Value Added Courses with project kit per batch	32	1500	48,000
Taxable Value				48,000
GST 18%				8,640
Total Amount in Rs.				56,640

Terms and conditions:

1. Validity : 15 Days from the date of quotation
2. Delivery : 1 Months from the date of the Advance payment

We look forward to the pleasure of receiving your valuable order at an early date. Thanking you and assuring you of our best services at all times.

If you have any further queries feel free to contact us.

Thanks & Regards

A. Kesavan
A.Kesavan
CEO





IoT Introduction

IoT Introduction - Basics of ATME328p C Programming - Basic Electronics Setting up Arduino IDE - LED Blinking Traffic Light System Diving deep into ATME328p C programming (functions) LED control using push button – Motor switching on using relay C pointers - arrays and memory allocation.

Sensors and Types of ATME328p 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 Cloud 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 - Storing Wifi Credentials in EEPROM -I2C - RTC time from RTC - NTP - NODEMCU IOT –Raspberry pi, NVIDIA Jetson Nano - Temperature & Humidity - PIR CLOUD – MQTT - Home automation - Robot control

Department of Electrical and Electronics Engineering

Title of the Program : Value Added Course on "IoT and its applications" Date: 08.07.2024 to 13.07.2024 (6Days)

Participants : III year (2022 – 2026 Batch)

Academic Year: 2024 – 2025 ODD

Conducted by : Quantanics Techserv, Madurai.

Venue : Power System Simulation 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
A. Rajavel


HoD/EEE
D. Prince Winston



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Department of Electrical and Electronics Engineering

(Accredited by NBA, New Delhi)

Submitted to the Principal through Dean (Academic Courses)

Sub: Requisition to recommend "IoT and its Applications" for 2022 - 2026 Batch

III year UG candidates in 2024 - 2025 ODD semester.

As per the current needs in industry, we need to provide the Value added course for 2022 - 2026 Batch III year UG candidates in 2024 - 2025 ODD Semester. In connection with this clause, three members committee has been constituted to scrutinize the Value added course evaluation, meeting has been convened on 08-07-2024 (01.30 PM to 02.30 PM) at PG14, Academic Block - D, EEE Department, Kamaraj College of Engineering and Technology, Virudhunagar.

Members List

S. No.	Members	Category	Signature
1	Dr. D. Prince Winston, Head & Prof./EEE	Head of the Department	
2	Dr.B.Gurukarthik babu, ASP / EEE	PG chairperson	
3	Mr.R.Ganesan, AP / EEE	UG course coordinator	

The three member committee has recommended the Value added course "IoT and its Applications" (2024 - 2025 ODD semester) for 2022 - 2026 Batch.

HoD/EEE
08/07/24
Dr. D. Prince Winston

Dean (Academic Courses)
Dr. R. Suresh Babu

Principal
Dr. S. Senthil



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Date: 05.07.2024

Department of Electrical and Electronics Engineering

(Accredited by NBA, New Delhi)

Submitted to the Principal through Dean (Academic Courses)

Sub: Requesting permission to nominate the three member committee for Value added course - 2022 - 2026 Batch III year UG candidates in 2024 - 2025 ODD Semester - Reg.

As per the current needs in industry, we need to provide the Value added course for 2022 - 2026 Batch III year UG candidates in 2024 - 2025 ODD Semester. In connection with this clause, three members committee has been constituted to scrutinize the Value added course evaluation.

Members List

S. No.	Members	Category
1	Dr. D. Prince Winston, Head & Prof./EEE	Head of the Department
2	Dr.B.Gurukarthik babu, ASP / EEE	PG chairperson
3	Mr.R.Ganesan, AP / EEE	UG course coordinator

We hereby request you to provide permission to nominate the above said three members committee to review the Value added course.

05/07/24
HoD/EEE

Dr. D. Prince Winston

17/7/24
Dean (Academic Courses)

Dr. R. Suresh Babu

Principal

Dr. S. Senthil

KAMARAJ[®]

COLLEGE OF ENGINEERING & TECHNOLOGY

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Value Added Course on "IoT and its Applications"

2024-25 ODD Semester (July 2024)

Class: III EEE (2022-2026) Batch

Day 1- 08.07.2024 (Introduction)



Day 2- 09.07.2024 (Installation)



Day 3- 10.07.2024 (Study on Protocols)



Day 4- 11.07.2024 (Working with Sensors)



Day 5- 12.07.2024 (Project)



Day 6- 13.07.2024 (Valedictory)



A. Jayaram
Staff Incharge
Dr. A. Jayaram

D. Prince winston
HoD / EEE
D. Prince winston

Day 1(10 marks)

What does MQTT stand for?

- Message Queuing Telemetry Transport

What does IoT stand for?

- Internet of Things

Which protocol is commonly used for IoT device communication?

- MQTT

What is a primary function of a sensor in an IoT system?

- To collect data from the environment

Which of the following is an example of an IoT device?

- Smart Refrigerator

What type of network is typically used for short-range IoT communication?

- PAN

Which of the following is a popular IoT development platform?

- Arduino

What is the role of an actuator in an IoT system?

- To perform actions based on data

Which wireless communication technology is known for its low power consumption, making it suitable for IoT devices?

- Bluetooth Low Energy (BLE)

What does the term "smart" in "smart devices" typically refer to?

- The device's ability to connect to the internet

Which cloud service is widely used for IoT applications?

- AWS IoT

Day 2(10 marks)

What does XAMPP stand for?

- Cross-Platform Apache MySQL PHP Perl

Which component of XAMPP is responsible for serving web pages?

- Apache

In XAMPP, which folder should you place your web application files to access them via a web browser?

- /htdocs

Which command is used to create a new database in MySQL?

- CREATE DATABASE dbname;

Which of the following is a valid data type in MySQL?

- TEXT

What does the acronym SQL stand for?

- Structured Query Language

What does MQTT stand for?

- Message Queue Telemetry Transport

Which of the following is not a quality of service (QoS) level in MQTT?

- At any time (3)

In MQTT, what term describes a message broker's storage of a client's subscription to a topic?

- Session State

Which protocol does MQTT typically use for its transport layer?

- TCP/IP

Which feature in Tinkercad allows you to create and simulate circuits with Arduino?

- Circuits

In Tinkercad Circuits, which component is commonly used to simulate a push-button input for Arduino projects?

- Push Button

Day 3 & 4(20 marks)

Define the term 'sensor'. Choose the most appropriate definition.

- a) Used to capture and can measure physical quantities

What type of sensor would be used in a washing machine?

- d) Water-level Sensor

In an automated system, what type of device is a sensor?

- a) Input device

Ultrasonic waves are a form of _____ waves.

- c) sound

The following are true about Ultrasonic sensor except one

- c) measure illuminance

Is this an example of INPUT or OUTPUT? Keyboard

- a) Input

What language is the Arduino IDE built on?

- a) C/C++

MQTT is:

- c) Based on publish-subscribe architecture

Which of the following are the three hardware signals?

- c) START, STOP, ACKNOWLEDGE

Identify the communication bus used in figure.

- d) I2C

SPI device communicates in _____.

- c) Full duplex

Does SPI have/has a single master?

- a) True

MOSI means _____.

- b) Line for master to send data to the slave

What rate can define the timing in the UART?

- a) baud rate

Communication in UART is

- a) Only duplex

An option of testing created virtual electronic circuits using virtual components

- d) Simulation

_____ are devices that detect and respond to changes in an environment. They're embedded in smart phones and an integral part of the Internet of Things (IoT).

- e) Sensors

IoT is the network of physical objects embedded with _____, which enables these objects to collect and exchange data.

- a) electronics
- d) software
- c) sensors
- b) network connectivity

Smartphones, Smartwatches, Cars, Refrigerators are all components of IoT

- b) True

It is used to restrict the flow of current to electrical components in a circuit.

- c) Resistor

Day 5&6(20 marks)

Which type of sensor is commonly used to measure the level of a liquid in a tank?

- b) Ultrasonic sensor

What is the primary function of a sensor in an electronic system?

- a) To convert physical quantities into electrical signals

Which sensor measures weight?

- b) Pressure Sensor

A servo motor is not a rotary actuator.

- b) False

Can a Servo Motor be used with robotic arm applications?

- b) True

Why does a single ultrasonic sensor have 2 "eyes" on it?

- a) One eye sends a signal and one receives it

When we print out the ultrasonic sensor data, what units are they in?

- b) centimeters

The speed of sound is _____ m/s.

- c) 340

The reflected wave is called the _____ wave.

- a) echo

What does the L in LCD stand for?

- d) Liquid

The LCD that comes with the Arduino is 16x2, what does the 2 mean?

- b) 2 lines

Which libraries do you need to use the i2c module?

- c) wire.h
- d) LiquidCrystal_I2C.h

In a database, Multiple _____ can be created.

- d) Tables

You have to enter Sam's DOB, What data type would you use for this field.

- b) Date

Is integer a number?

- b) True

What does MQTT signify?

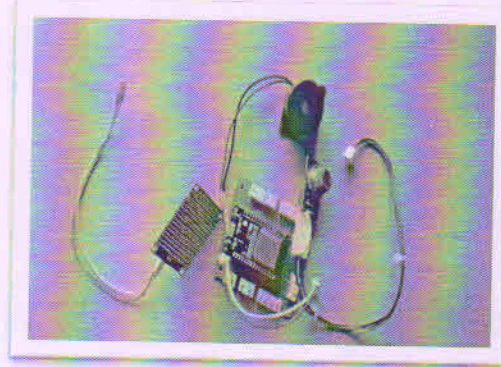
- b) Message Queuing Telemetry Transport

A. M.
Dr. R. Rajeev



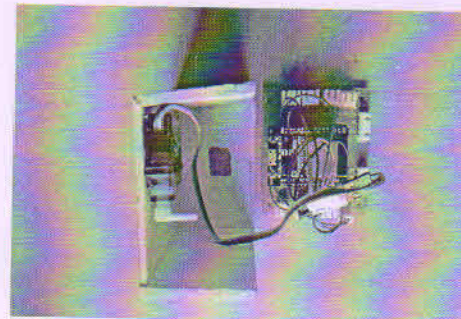
1.ESP32 - based smoke detector for enhanced fire safety monitoring

Abdul Rahman Faisal. F (22UEE002)
Amuthan. N (22UEE020)
Joshua Raj. R (22UEE031)



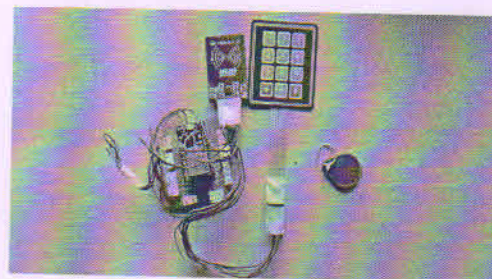
2.Servo motor – powered smart garage system for automated door control

Madhumitha. M (22UEE009)
Santhiya. J (22UEE017)
Charupriya. G(22UEE021)



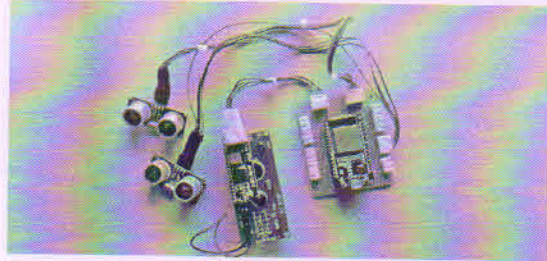
3.ESP32 RIFD - based smart attendance system for effective tracking

Deepavishali.S (22UEE008)
Lavanya.M (22UEE010)
Manjuladevi.P (22UEE004)
Pooja.K (22UEE025)



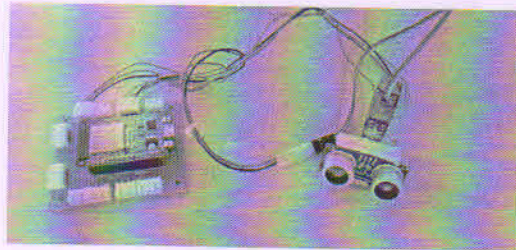
4.ESP32 - based people counter for accurate crowd measurement

Harikumaran.S (22UEE001)
Thameesh ahamed. M (22UEE022)
Jim allen. D.J (22UEE030)
Kankeshraj.A (22UEE005)



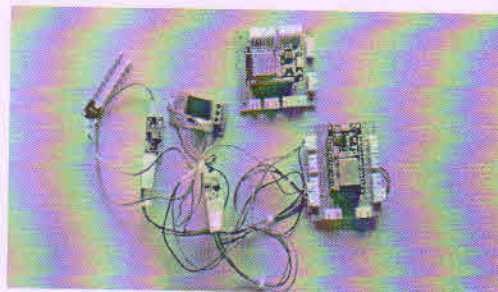
5.ESP32 ultrasonic radar system for object detection and tracking

Haribaskaran.A (22UEE019)
Mukilan.M (22UEE007)
Partha sarathy. S(22UEE014)



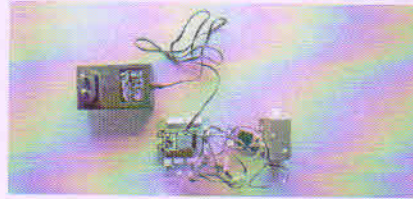
6.ESP32 - based water management system for efficient agricultural irrigation

Harish kumar. K (22UEE024)
Karuppasamy. S (22UEE018)
Harikumaran. K(22UEE032)
Yogan Dhanush.M (22UEE027)



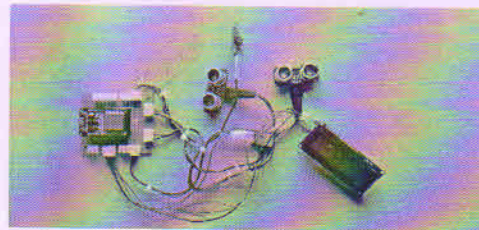
7.ESP32 web server – based automated door lock system for security

Prem. G (22UEE026)
Kesavan.M (22UEE013)
John Raj. R (22UEE028)



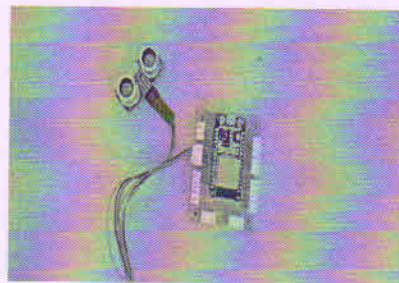
8.ESP32 - based environment management system for monitoring

Ram. V (22UEE015)
Sudharsan.V.K (22UEE012)
Vishaal.S (22UEE003)
Mani kandan.K(22UEE029)



9.ESP32 - based OTA firmware integration

Paul ebinesh. G (22UEE011)
Sethu pathi. M (22UEE023)
Vignesh. S (22UEE016)
Harish Kumar. V (22UEE033)



A. Jeyaraj
Dr. A. Rajan

IoT Day1 - Assessment

What does IoT stand for?

- Intranet of things
- Internet of things
- Interval of Time
- Intrusion of Time

1 point

Which protocol is commonly used for IoT device communication?

- MQTT
- I2C
- CAN
- ICT

1 point

What is a primary function of a sensor in an IoT system?

- To control the environmental parameter
- To collect the data from the environment
- To transfer the data from cloud to the controller
- To monitor the cloud parameter

1 point

Which of the following is an example of an IoT device?

- Arduino
- IR Sensor
- Smart Refrigerator
- Refrigerator

1 point

What type of network is typically used for short-range IoT communication?

- PAN
- MAN
- WAN
- TIN

1 point

Which of the following is a popular IoT development platform?

- Microprocessor 8085
- Microcontroller 8051
- PIC
- Arduino

1 point

Google Forms

M. Lavanya

9/10

Dr. C. Rajan

1 point

What does MQTT stand for?

- Message Queuing Transport Telemetry
- Message Queuing Telemetry Transport
- Mutual Queuing Transport Telemetry
- Mutual Queuing Telemetry Transport

1 point

What is the role of an actuator in an IoT system?

- To monitor the environmental parameter
- To perform action based on data
- To handle big data
- All the above

1 point

What does the term "smart" in "smart devices" typically refer to?

- Ability to handle large data
- device's ability to connect to the internet

1 point

Which cloud service is widely used for IoT applications?

- AWS
- Thingspeak
- Thingcloud

IoT Day 2- Assessment

What does XAMPP stand for?

- Cross-Platform Apache MySQL PHP Perl
- Hexa decimal application
- Independent platform app

Which component of XAMPP is responsible for serving web pages?

- Apache
- AMP
- XAM
- HTML

In XAMPP, which folder should you place your web application files to access them via a web browser?

- htdocs
- /htdocs
- .htdocs

Which command is used to create a new database in MySQL?

- CREATE DATABASE
- CREATE NEW DATABASE
- CREATE DATABASE dbname
- CREATE NEW DATABASE dbname

Which of the following is a valid data type in MySQL?

- Text
- Integer
- Boolean
- String

What does the acronym SQL stand for?

- Structure Query Language
- Sequence Query Language
- Standard Query Language

In MQTT, what term describes a message broker's storage of a client's subscription to a topic? 1 point

- Presentation state
- Session State
- Application state

Which protocol does MQTT typically use for its transport layer? 1 point

- TCP/IP
- IP
- OSI

Which feature in Tinkercad allows you to create and simulate circuits with Arduino? 1 point

- create
- open
- circuits
- simulate

In Tinkercad Circuits, which component is commonly used to simulate a push-button input for Arduino projects? 1 point

- Option
- Push Button
- Check box
- Text Box

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M. Lawany

9/10

A. W. Dr. A. Rajaul.

IoT Day 3 & 4 Assessment

In an automated system, what type of device is a sensor?

2 points

- Input
- Output
- Both Input and Output

What language is the Arduino IDE built on?

2 points

- Python
- Java
- C/C++

SPI device communicates in _____.

2 points

- Half Duplex
- Full Duplex
- parallel

In an automated system, what type of device is a sensor?

2 points

- Water level sensor
- Water level
- Door opening
- Door closing

Define the term 'sensor'. Choose the most appropriate definition.

2 points

- Used to capture and can measure physical quantities
- Used to control the physical quantities
- Used to capture the image

The following are true about Ultrasonic sensor except one

2 points

- measures sound
- measures distance
- measures illuminance

Smartphones, Smartwatches, Cars, Refrigerators are all components of IoT

2 points

- True
- False

It is used to restrict the flow of current to electrical components in a circuit.

2 points

- Resistor
- Inductor
- Capacitor
- All the above

An option of testing created virtual electronic circuits using virtual components

2 points

- simulation
- compilation
- Testing

What rate can define the timing in the UART?

2 points

- system rate
- clock rate
- baud rate

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18/19

A. Laven

A. A. Roberts

IoT 5-6 - Assessment

Which type of sensor is commonly used to measure the level of a liquid in a tank?

2 points

- Load sensor
- ultrasonic sensor
- IR sensor

What is the primary function of a sensor in an electronic system?

2 points

- To convert electrical quantity into physical quantity
- To convert physical quantity into electrical quantity

Which sensor measures weight?

2 points

- Proximity sensor
- IR sensor
- Ultrasonic sensor
- Pressure sensor

A servo motor is not a rotary actuator

2 points

- True
- False

The reflected wave is called the _____ wave.

2 points

- echo
- trigger
- pulse

What does the L in LCD stand for?

2 points

- Light
- Liquid
- limit

The LCD that comes with the Arduino is 16x2, what does the 2 mean?

2 points

- 2 characters
- 2 columns
- 2 lines

Which libraries do you need to use the i2c module?

2 points

- wire.h
- LiquidCrystalI2C.h
- node.h
- string.h

1

The speed of sound is _____ m/s.

2 points

- 240
- 140
- 340

When we print out the ultrasonic sensor data, what units are they in?

2 points

- m
- mm
- cm

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N. Lawrence

MP

Dr. P. Boyan
A. J. P.

IoT Day1 - Assessment

What does IoT stand for?

1 point

- Intranet of things
- Internet of things
- Interval of Time
- Intrusion of Time

Which protocol is commonly used for IoT device communication?

1 point

- MQTT
- I2C
- CAN
- ICT

What is a primary function of a sensor in an IoT system?

1 point

- To control the environmental parameter
- To collect the data from the environment
- To transfer the data from cloud to the controller
- To monitor the cloud parameter

Which of the following is an example of an IoT device?

1 point

- Arduino
- IR Sensor
- Smart Refrigerator
- Refrigerator

What type of network is typically used for short-range IoT communication?

1 point

- PAN
- MAN
- WAN
- TIN

Which of the following is a popular IoT development platform?

1 point

- Microprocessor 8085
- Microcontroller 8051
- PIC
- Arduino

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M. Looney

8/10

A. Dr. R. Rajan

1 point

What does MQTT stand for?

- Message Queuing Transport Telemetry
- Message Queuing Telemetry Transport
- Mutual Queuing Transport Telemetry
- Mutual Queuing Telemetry Transport

1 point

What is the role of an actuator in an IoT system?

- To monitor the environmental parameter
- To perform action based on data
- To handle big data
- All the above

1 point

What does the term "smart" in "smart devices" typically refer to?

- Ability to handle large data
- device's ability to connect to the internet

1 point

Which cloud service is widely used for IoT applications?

- AWS
- Thingspeak
- Thingcloud

IoT Day 2- Assessment

What does XAMPP stand for?

- Cross-Platform Apache MySQL PHP Perl
- Hexa decimal application
- Independent platform app

Which component of XAMPP is responsible for serving web pages?

- Apache
- AMP
- XAM
- HTML

In XAMPP, which folder should you place your web application files to access them via a web browser?

- htdocs
- /htdocs
- .htdocs

Which command is used to create a new database in MySQL?

- CREATE DATABASE
- CREATE NEW DATABASE
- CREATE DATABASE dbname
- CREATE NEW DATABASE dbname

Which of the following is a valid data type in MySQL?

- Text
- Integer
- Boolean
- String

What does the acronym SQL stand for?

- Structure Query Language
- Sequence Query Language
- Standard Query Language

In MQTT, what term describes a message broker's storage of a client's subscription to a topic? 1 point

- Presentation state
- Session State
- Application state

Which protocol does MQTT typically use for its transport layer? 1 point

- TCP/IP
- IP
- OSI

Which feature in Tinkercad allows you to create and simulate circuits with Arduino? 1 point

- create
- open
- circuits
- simulate

In Tinkercad Circuits, which component is commonly used to simulate a push-button input for Arduino projects? 1 point

- Option
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7/100

John Dy

Dr. A. Papad
A. J.

It is used to restrict the flow of current to electrical components in a circuit.

2 points

- Resistor
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An option of testing created virtual electronic circuits using virtual components

2 points

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2 points

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(1/2)

Dr. A. Rajan

IoT 5-6 - Assessment

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2 points

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A

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Comparison

10/10

Dr. P. Rajan

IoT Day1 - Assessment

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IoT Day 2- Assessment

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- Sequence Query Language
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IoT Day 3 & 4 Assessment

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- clock rate
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M. Kassem

18/20

Alm
Dr. A. Bayan

IoT 5-6 - Assessment

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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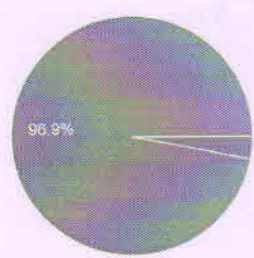
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Value Added Course on "IoT and its Applications"

2024-25 ODD Semester (July 2024)

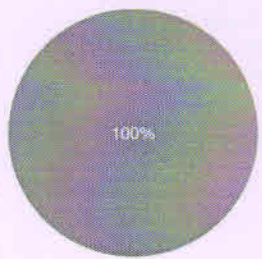
Assessment Summary

What does IoT stand for?
 32 responses



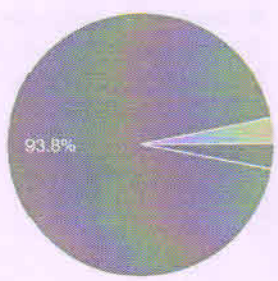
- Intranet of things
- Internet of things
- Interval of Time
- Intrusion of Time

Which protocol is commonly used for IoT device communication?
 32 responses



- MQTT
- I2C
- CAN
- ICT

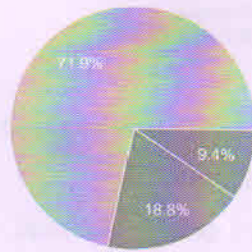
What is a primary function of a sensor in an IoT system?
 32 responses



- To control the environmental parameter
- To collect the data from the environment
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- To monitor the cloud parameter

Which of the following is an example of an IoT device?

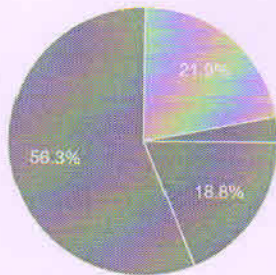
32 responses



- Arduino
- IR Sensor
- Smart Refrigerator
- Refrigerator

What type of network is typically used for short-range IoT communication?

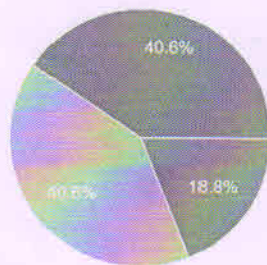
32 responses



- PAN
- MAN
- WAN
- TIN

Which of the following is a popular IoT development platform?

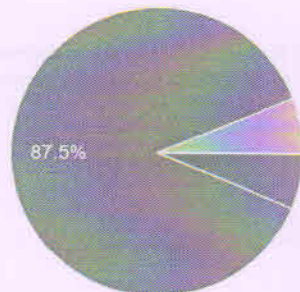
32 responses



- Microprocessor 8085
- Microcontroller 8051
- PIC
- Arduino

What does MQTT stand for?

32 responses



- Message Queuing Transport Telemetry
- Message Queuing Telemetry Transport
- Mutual Queuing Transport Telemetry
- Mutual Queuing Telemetry Transport

What is the role of an actuator in an IoT system?

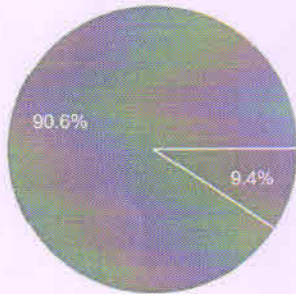
32 responses



- To monitor the environmental parameter
- To perform action based on data
- To handle big data
- All the above

What does the term "smart" in "smart devices" typically refer to?

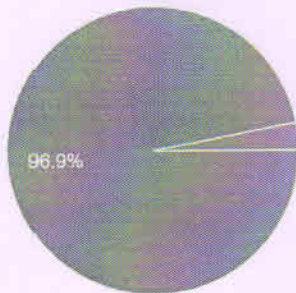
32 responses



- Ability to handle large data
- device's ability to connect to the internet

Which cloud service is widely used for IoT applications?

32 responses



- AWS
- Thingspeak
- Thingcloud

Alu
Staff In-Charge
Dr. D. Beyant

[Signature]
HoD/EEE
Dr. D. Prince Winston

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Department of Electrical and Electronics Engineering

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Value Added Course on "IoT and its Applications"

2024-25 ODD Semester (July 2024)

Class: III EEE (2022-2026) Batch

Regulation: R2021

S.No.	Register Number	Roll Number	Name of the student	Assessment (60)	Project (40)	Total (100)
1	920422105005	22UEE001	HARI KUMARAN S	50	33	83
2	920422105001	22UEE002	ABDUL RAHMAN FAISAL F	47	33	80
3	920422105025	22UEE003	VISHAAL S	49	33	82
4	920422105013	22UEE004	MANJULADEVI P	51	32	83
5	920422105008	22UEE005	KANKESHRAJ A	47	33	80
6	920422105014	22UEE007	MUKILAN M	52	33	87
7	920422105004	22UEE008	DEEPAVISHALI S	52	33	85
8	920422105012	22UEE009	MADHUMITHA M	51	34	85
9	920422105011	22UEE010	M LAVANYA	53	34	87
10	920422105016	22UEE011	PAUL EBINESH G	49	33	82
11	920422105022	22UEE012	V K SUDHARSAN	48	32	80
12	920422105010	22UEE013	KESAVAN M	52	35	87
13	920422105015	22UEE014	S PARTHA SARATHY	48	32	80
14	920422105019	22UEE015	RAM V	49	32	81
15	920422105024	22UEE016	VIGNESH S	48	32	80

S.No.	Register Number	Roll Number	Name of the student	Assessment (60)	Project (40)	Total (100)
16	920422105020	22UEE017	SANTHIYA J	48	33	81
17	920422105009	22UEE018	KARUPPASAMY S	48	32	80
18	920422105006	22UEE019	HARIBASKARAN A	49	32	81
19	920422105002	22UEE020	AMUTHAN N	47	34	81
20	920422105003	22UEE021	CHARUPRIYA G	48	33	81
21	920422105023	22UEE022	THAMEESH AHAMED M	48	32	80
22	920422105021	22UEE023	SETHU PATHI M	48	32	80
23	920422105007	22UEE024	HARISH KUMAR K	49	32	81
24	920422105017	22UEE025	POOJA K	48	33	81
25	920422105018	22UEE026	PREM G	52	35	87
26	920422105307	22UEE027	YOGAN DHANUSH M	50	33	83
27	920422105304	22UEE028	JOHN RAJ S	47	35	82
28	920422105306	22UEE029	MANI KANDAN K	51	32	83
29	920422105303	22UEE030	JIM ALLEN D J	48	32	80
30	920422105305	22UEE031	JOSHUA RAJ R	49	32	81
31	920422105301	22UEE032	HARIKUMARAN M	48	32	80
32	920422105302	22UEE033	HARISH KUMAR V	48	32	80


Staff In-Charge

Dr. A. Papaul


HOD/EEE

Dr. D. Prince
Wipaka.


Dean

(Academic Courses)

Dr. R. Suresh Babu



Value Added Course on "IoT and its Applications"

2024-25 ODD Semester (July 2024)

Class: III EEE (2022-2026) Batch

Regulation: R2021

Daily Assessment

S.No	Register Number	Roll Number	Name of the student	Day 1 (10)	Day 2 (10)	Day 3 & 4 (20)	Day 5 ^ 6 (20)	Total (60)
1	920422105005	22UEE001	HARI KUMARAN S	7	8	18	17	50
2	920422105001	22UEE002	ABDUL RAHMAN FAISAL F	6	8	17	16	47
3	920422105025	22UEE003	VISHAAL S	7	8	17	17	49
4	920422105013	22UEE004	MANJULADEVI P	8	8	18	17	51
5	920422105008	22UEE005	KANKESHRAJ A	7	7	16	17	47
6	920422105014	22UEE007	MUKILAN M	8	8	18	18	52
7	920422105004	22UEE008	DEEPAVISHALI S	9	8	18	17	52
8	920422105012	22UEE009	MADHUMITHA M	8	8	18	17	51
9	920422105011	22UEE010	M LAVANYA	9	9	18	17	53
10	920422105016	22UEE011	PAUL EBINESH G	7	8	17	17	49
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12	920422105010	22UEE013	KESAVAN M	8	8	18	18	52
13	920422105015	22UEE014	S PARTHA SARATHY	8	7	17	16	48
14	920422105019	22UEE015	RAM V	7	8	17	17	49



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S.No	Register Number	Roll Number	Name of the student	Day 1 (10)	Day 2 (10)	Day 3 & 4 (20)	Day 5 ^ 6 (20)	Total (60)
15	920422105024	22UEE016	VIGNESH S	8	8	16	16	48
16	920422105020	22UEE017	SANTHIYA J	7	7	17	17	48
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30	920422105305	22UEE031	JOSHUA RAJ R	8	8	16	17	49

📍 206, Vellaikannu Nagar, Theni Main Road, Madurai - 16.

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31	920422105301	22UEE032	HARIKUMARAN M	7	8	16	17	48
32	920422105302	22UEE033	HARISH KUMAR V	8	7	16	17	48


QUANTANICS TECHSERV PVT LTD
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Ph : 86810 01680

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2024-25 ODD Semester (July 2024)

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Regulation: R2021

Project Presentation Marks

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1.	920422105001	22UEE002	ABDUL RAHMAN FAISAL F	8	8	9	8	33
2.	920422105002	22UEE020	AMUTHAN N	8	8	9	9	34
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17.	920422105015	22UEE014	S PARTHA SARATHY	8	8	8	8	32
18.	920422105009	22UEE018	KARUPPASAMY S	8	8	8	8	32
19.	920422105007	22UEE024	HARISH KUMAR K	8	8	8	8	32
20.	920422105307	22UEE027	YOGAN DHANUSH M	8	8	8	9	33
21.	920422105301	22UEE032	HARIKUMARAN M	8	8	8	8	32
22.	920422105010	22UEE013	KESAVAN M	8	9	9	9	35
23.	920422105018	22UEE026	PREM G	8	9	9	9	35
24.	920422105304	22UEE028	JOHN RAJ S	8	9	9	9	35
25.	920422105022	22UEE012	V K SUDHARSAN	8	8	8	8	32
26.	920422105025	22UEE003	VISHAAL S	8	8	8	9	33
27.	920422105019	22UEE015	RAM V	8	8	8	8	32
28.	920422105306	22UEE029	MANI KANDAN K	8	8	8	8	32
29.	920422105016	22UEE011	PAUL EBINESH G	8	8	9	8	33

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S.No.	Register Number	Roll Number	Name of the student	Problem statement and Design (10)	Implementation (10)	Presentation (10)	Viva (10)	Total (40)
30.	920422105024	22UEE016	VIGNESH S	8	8	8	8	32
31.	920422105021	22UEE023	SETHU PATHI M	8	8	8	8	32
32.	920422105302	22UEE033	HARISH KUMAR V	8	8	8	8	32



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Value Added Course on "IoT and its Applications" 08/07/2024 to 13/07/2024

* Required

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

1. About Technical Presentation *

- Good
- Very Good
- Satisfactory

2. About the Lab Facility *

- Good
- Very Good
- Satisfactory

3. About the Course Materials *

- Good
- Very Good
- Satisfactory

4. Effectiveness of the Course *

- Good
- Very Good
- Satisfactory

5. Any other points to improve the conduct of program like Value Added Course in future. *

Review: Value Added Course on "IoT and its Applications" 08/07/2024 to 13/07/2024

Respondent:

1 HARIBASKARAN.A

00:21

Time to complete

1. About Technical Presentation *

Score / 0 pts

- Good
- Very Good
- Satisfactory

2. About the Lab Facility *

Score / 0 pts

- Good
- Very Good
- Satisfactory

3. About the Course Materials *

Score / 0 pts

- Good
- Very Good
- Satisfactory

4. Effectiveness of the Course *

Score / 0 pts

- Good
- Very Good
- Satisfactory

5. Any other points to improve the conduct of program like Value Added Course in future. *

Score / 0 pts

Good teaching

Review: Value Added Course on "IoT and its Applications" 08/07/2024 to 13/07/2024

Respondent

16 AMUTHAN.N

00:17

Time to complete

1. About Technical Presentation *

Score / 0 pts

- Good
- Very Good
- Satisfactory

2. About the Lab Facility *

Score / 0 pts

- Good
- Very Good
- Satisfactory

3. About the Course Materials *

Score / 0 pts

- Good
- Very Good
- Satisfactory

4. Effectiveness of the Course *

Score / 0 pts

- Good
- Very Good
- Satisfactory

5. Any other points to improve the conduct of program like Value Added Course in future. *

Score / 0 pts

Give seperate kit

Review: Value Added Course on "IoT and its Applications" 08/07/2024 to 13/07/2024

Respondent

24 KANKESHRAJA

01:43

Time to complete

1. About Technical Presentation *

Score / 0 pts

- Good
- Very Good
- Satisfactory

2. About the Lab Facility *

Score / 0 pts

- Good
- Very Good
- Satisfactory

3. About the Course Materials *

Score / 0 pts

- Good
- Very Good
- Satisfactory

4. Effectiveness of the Course *

Score / 0 pts

- Good
- Very Good
- Satisfactory

5. Any other points to improve the conduct of program like Value Added Course in future. *

Score / 0 pts

No

Value Added Course on "IoT and its Applications" 08/07/2024 to 13/07/2024

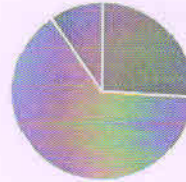
31 Responses

00:52 Average time to complete

Active Status

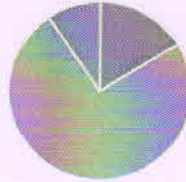
1. About Technical Presentation (0 point)

● Good	8
● Very Good	20
● Satisfactory	3



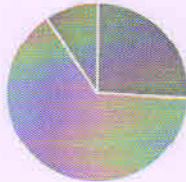
2. About the Lab Facility (0 point)

● Good	5
● Very Good	23
● Satisfactory	3



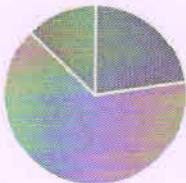
3. About the Course Materials (0 point)

● Good	8
● Very Good	20
● Satisfactory	3



4. Effectiveness of the Course (0 point)

● Good	7
● Very Good	20
● Satisfactory	4



5. Any other points to improve the conduct of program like Value Added Course in future. (0 point)

31
Responses

Latest Responses

"We need more value added course for improving our knowledge "

"Need more basics of coding "

"To teach basics of the coding "

12 respondents (39%) answered **Good** for this question.

Gooy **knowledge** **coding briefly** **VGood**
no queries **Best course** **V good** **wonderful opportunity**
value **helpful** **Good** **Extra days** **thing are awesome**
seperate kit **basics** **Good teaching** **curriculum** **useful**
Brief explanation **explanation about topics**

A. Jhu
Dr. A. Rayana

D. Prince Winston



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Department of Electrical and Electronics Engineering

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In association with Quantanics Techserv Pvt Ltd, Madurai.

Value Added Course on "IoT and its Applications"

2024-25 ODD Semester (July 2024)

Class: III EEE (2022-2026) Batch

Regulation: R2021

The IoT describes the network of physical devices embedded with sensors, software, and other technologies that collect and exchange data. These devices range from simple thermostats to complex industrial machinery, all connected to the internet via various protocols. This connectivity allows for data sharing, remote control, and automation, fundamentally transforming how we interact with our surroundings. Several key technologies underpin the functionality of IoT systems: Sensors gather data from the physical environment, while actuators translate digital signals into physical actions.

These protocols govern how devices communicate with each other and the cloud. Common protocols include wi-fi, Bluetooth and cellular networks. Cloud platforms provide storage, processing power, and analytics capabilities for the vast amounts of data generated by IoT devices. Data management tools collect, organize, analyze and visualize IoT data to extract valuable insights.


In this program students have learned about the basics of IoT, how to install the software required for cloud computing and to make data base in the webserver. Then the students have learned how to access the table from the webserver across the remote places. The students have made several projects with ESP32 like automated smoke detection system, automated door lock system through webserver, ultrasonic radar system, automated garage lock system.

Elements of this course

The course is comprised of the following elements:

- Basics of IoT
- Introduction to cloud computing and webserver

- IoT tasks using ESP32
- ESP32 interface with real time applications
- Assessment
- Programming assessment


Staff In-Charge
Dr. A. Nayak


HOD/EEE
Dr. D. P. Rao
with Sr.

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ASSESSMENT MARK: 83


Mr.A.KESAVAN


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Certificate No. : **EE002**

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ASSESSMENT MARK: 82

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ASSESSMENT MARK: 85

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ASSESSMENT MARK: 87

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Mr.A.KESAVAN

A. Kesavan
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Mr.A.KESAVAN

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Certificate No. : **EE017**

This is to certify that Mr. / Ms. S. KARUPPASAMY has attended the

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Mr.A.KESAVAN

CEO

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Certificate No. : **EE022**

This is to certify that Mr. / Ms. M. SETHUPATHI has attended the

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Certificate No. : **EE023**

This is to certify that Mr. / Ms. K. HARISH KUMAR has attended the

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Certificate No. : **EE024**

This is to certify that ~~Mr.~~ / Ms. **K. POOJA** has attended the

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Mr.A.KESAVAN

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Certificate No. : **EE025**

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Certificate No. : **EE026**

This is to certify that Mr. / Ms. M. YOGAN DHANUSH has attended the

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Certificate No. : **EE027**

This is to certify that Mr. / Ms. S. JOHN RAJ has attended the

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Certificate No. : **EE028**

This is to certify that Mr. / Ms. K. MANIKANDAN has attended the

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This is to certify that Mr. / Ms. D. J. JIM ALLEN has attended the

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Certificate No. : EE030

This is to certify that Mr. / Ms. R. JOSHUA RAJ has attended the

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Mr.A.KESAVAN

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Certificate No. : **EE031**

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Certificate No. : **EE032**

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