



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B)

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

28.08.2023

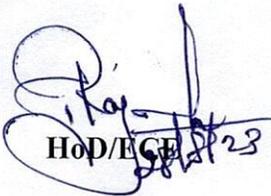
Submitted to Principal for kind approval

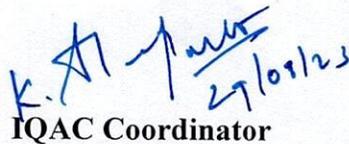
Respected sir,

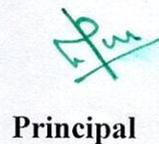
The Department of Electronics and Communication Engineering is organizing the Value added course in the topic “**VECE 21-IoT and its Applications in Communication Sector**” from **30-08-2023 to 04-09-2023** for IV Year ECE Students

We submit this for your kind approval

Sl. no	Name of VAC Courses	Course Coordinator	Internal Faculty Name	Duration(5 days) 30-08-2023 to 04-09-2023	Total hours
1	VECE 21-IoT and its Applications in Communication Sector	Mrs.G.Preemi AP/ECE PSNCET	Mrs.N.Siva Sankari AP/EIE PSNCET Tirunelveli	9.00 am -1.00 pm 2.00 pm- 4.00 pm	30


HoD/ECE
28/8/23


IQAC Coordinator
29/08/23


Principal


Executive Director
28/8/23



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

21.08.2023

Submitted to Principal for kind approval

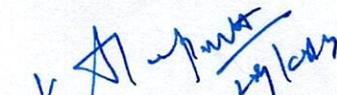
Respected sir,

The Department of Electronics and Communication Engineering is organizing the Value added course on “**VECE 21-IoT and its Applications in Communication Sector**” from **30-08-2023 to 04-09-2023** for III & IV ECE students. At the part this, we need the following components required for conducting Value added course. We request for your kind permission for the purchased items. Kindly do the needful for the same.

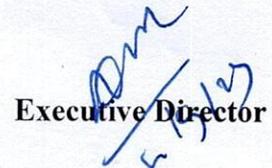
Sl.no	Products	Qty	Unit Price	Price
1	8266 Module	04	425	1700
2	Cable	04	85	340
3	Jumper wire	08	04	32
Total				2072

We submit this for your kind approval **Rs.2072** /-


HoD/ECE


IQAC Coordinator


Principal


Executive Director



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+. Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PSNCET/ECE/F.No 47/Cir.No.03/2023-24

Date: 21.08.2023

CIRCULAR

The Department of ECE is organizing the following Value-Added Course from 30.08.2023 to 04.09.2023. All the ECE department students and other willing students are informed to register their names to respective Course Coordinator on or before 28.08.2023. The two credits will be awarded to the participants who have successfully completed the Value-Added Course.

S.No	Name of VAC Programme	Course Coordinator	Resource person	Duration (30/08/2023-04/09/2023)	Total hours
1	IoT and its Applications in Communication Sector	Mrs.G.Preemi AP/ECE	Mrs.N.Siva Sankari AP/EIE	9.00 am – 1.00 pm 2.00 pm – 4.00 pm	30

HOD/ECE_{21/8/23}

Copy to:

1. The Principal, PSNCET
2. To Heads (Circuit Branches), PSNCET
3. Dept. Notice Board

PSN College of Engineering and
Technology

Five days value added course

on

**VECE 21 – IoT and its Applications in
Communication Sector**

30.08.2023 to 04.09.2023

Registration Form

Name :
Year :
Department :
Institution :
Address for
Communication :

Mobile Number :
Email ID :
Amount :

Date: Signature of the Participant

Signature of Head of the
Dept. /Institute with Seal

ORGANIZING COMMITTEE

CHIEF PATRON

Dr. P. Suyambu

Chairman

PSN Group of Institutions

Er. P.S. Jayaram

PSN Group of Institutions

PATRON

Dr.P. Selvakumar

Executive Director - PSNCET

Dr.V.Manikandan

Principal – PSNCET

CONVENOR

Dr.T.Rajesh,

Professor

PSN College of Engineering and Technology
Tirunelveli

COORDINATOR

Mrs.G.Preemi,

Assistant Professor

PSN College of Engineering and Technology
Tirunelveli

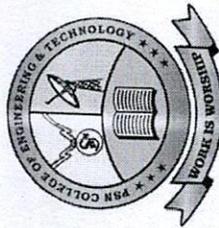
Department of Electronics & Communication
Engineering

Five days value added course

on

**VECE 21 – IoT and its Applications in
Communication Sector**

30.08.2023 to 04.09.2023



Department of Electronics & Communication

Engineering

PSN College of Engineering and Technology
(Autonomous)

Tirunelveli – 627 152

ABOUT THE INSTITUTION

An abode of excellence, a pinnacle of glory, a name that deserves mention wherever there initiates a discussion about the world of engineering, PSN College of Engineering & Technology. An autonomous institution. The institution was founded in 2001 with the sole purpose of providing cutting edge technical education that is both accessible and affordable. From the year 2001, the college embarked on programs of expansion in terms of courses and intake, infrastructure and facilities. Presently the college offers 10 U.G courses. The college also offers 10 P.G courses in engineering including MCA and MBA. More than 70 research scholars are in various disciplines. About 15 KMS away from Tirunelveli towards the well-known Papanasam, the college is situated in Melathediyoor. The institution is spread over an area of about 200 Acres, and maintains a royal existence with its marvellous infrastructure and widely acclaimed for its meticulous planning, resource scheduling and institutional management.

ABOUT THE DEPARTMENT

The department of Electronics and Communication Engineering offer,

- B.E - ECE,
- M.E- Applied Electronics,
- M.E-Communication System,
- M.E-Avionics,

It has been recognized as Research Centre by Anna University, Chennai. It has well trained and experienced faculty members with high degree qualification, who are engaged with the cutting-edge researches such as Pattern Recognition NANO Science and Technology, VLSI/Embedded System, Wireless Sensor Network, Digital Signals, Image Processing etc.

qualification, who are engaged with the cutting edge researches such as Pattern Recognition NANO Science and Technology, VLSI/Embedded System, Wireless Sensor Network, Digital Signal, Image Processing etc. It has well equipped curriculum related laboratories.

TOPICS

- INTRODUCTION TO IOT
- IOT COMMUNICATION
- THE IOT WPRLD FORUM(IOT WF)

STANDARDISED ARCHITECTURE

- IOT DEVICES
- IOT APPLICATIONS
- IOT-HANDS-ON USING NODE MCU
- ARDUINO CLOUD IOT

Resource Person

Mrs.N.Siva Sankari,
Assistant Professor,
PSNCET,
Tirunelveli.

REGISTRATION DETAILS

The course fee includes participation, lunch & refreshment. Registration for the value added course can be made by sending duly filled application form along with a DD drawn in favour of "PSN College of Engineering and Technology" payable at Tirunelveli.

Total number of participants is limited to 50. Selection will be done on first come first served basis. Confirmation of participation is to be made after the selection intimation from the organizers.

Course Fee:

- Academicians : Rs. 300/-
- Research Scholars : Rs. 300/-
- UG/PG Students : Rs. 250/-

For Registration

Contact:

Mrs.G.Premi,
AP/ECE

Department Of Electronics & Communication Engineering,
PSN College of Engineering and Technology,
Melathediyoor

Tirunelveli – 627 152
Mobile: 8015686787

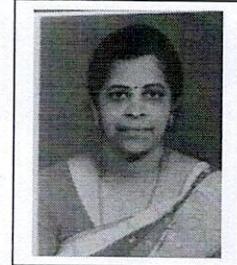
E Mail: hodece@psncet.ac.in

Last date for registration : 28.08.2023

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

FACULTY PROFILE

1. Name : N.SIVASANKARI
2. Date of Birth : 22/11/1981
3. Highest Qualification : M.E
4. Designation : ASSISTANT PROFESSOR



4. Academic Performance (Descending Order)

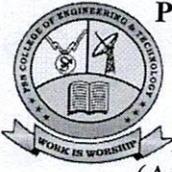
S.No	Degree	University/ Institution	Year of Pass	% of Marks/CGPA	Class
1.	M.E(Embedded System Technologies)	ANNA UNIVERSITY	2013	7.7	FIRST CLASS
2.	B.E(Electronics and Instrumentation)	MS UNIVERSITY	2003	75.32	FIRST CLASS WITH DISTINCTION

5. Total Years of Experience : 7 YEARS.

S. No.	Period		Organization / Institution	Position Held
	From	To		
1.	03/6/2016	TILL DATE	PSN COLLEGE OF ENGINEERING AND TECHNOLOGY	ASSISTANT PROFESSOR

6. Area of Interest: Artificial Intelligence, Machine learning, Deep learning, Internet of Things, soft computing and optimization techniques.

4/3



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+. Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

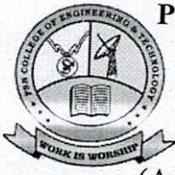
VALUE ADDED COURSE – IOT AND ITS APPLICATIONS IN COMMUNICATION

SECTOR

(30.08.2023 to 04.09.2023)

LIST OF PARTICIPANTS

S.No	Register No.	Name of the Student	Department
1	2005001	Aarthi P	IV ECE
2	2005002	Auvadaiappan S	
3	2005003	Balaji A	
4	2005004	Bhavanisha A	
5	2005005	Jegan P	
6	2005007	Karthikeyan G	
7	2005008	Kaviya S	
8	2005009	Keerthana R	
9	2005010	Kiran kumar K	
10	2005011	Krishnapriya S	
11	2005013	Nesa Punitha R	
12	2005014	Shivashangaran M	
13	2005015	Sureshkumar S	
14	2005017	Suthilakshmi C	
15	2005018	Thangamuneeswari E	
16	2005019	Yamini S	
17	2005302	Joseph Daniel Raja	
18	2005303	Kegin raj. R	
19	2005305	Priyesh	
20	2005306	Samuel J.K	



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Melathediyoar, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

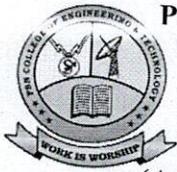
Sl. No.	Reg. No.	Name of the Student	Department
1.	2006001	Dharani Dharan A	IV EIE
2.	2006002	Munish Bharath B	
3.	2006003	Sudalai Mani M	
4.	2006301	Hariharan N	
5.	2006302	Vijayaraja J	

Praemi

VAC Coordinator

[Signature]
HOD/ECE

[Handwritten mark]



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)
Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

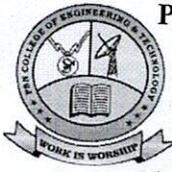
20	2005306	Samuel J.K	J.K	J.K	J.K	J.K	J.K	J.K	J.K	J.K	J.K	J.K	J.K	J.K
21	2006001	Dharani Dharan A	Dha											
22	2006002	Munish Bharath B	Mu											
23	2006003	Sudalai Mani M	Sud											
24	2006301	Hariharan N	Har											
25	2006302	Vijayaraja J	Vij											

Preerani

VAC Coordinator

[Signature]
HOD/ECE

[Handwritten mark]



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)
Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B)
An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Report of Value-Added Course Conducted

Title of the Course	IoT and its Applications in Communication Sector
Dates & Duration	30.08.2023 to 04.09.2023
Name of the Resource Person	Mrs.N.Siva Sankari AP/EIE, PSNCET, Tirunelveli
Name of the Course Coordinator	Mrs.G.Preemi AP/ECE, PSNCET, Tirunelveli
No. of Participants	25
Course Outcomes	
After the successful completion of this value-added course, the students were able to know <ul style="list-style-type: none">• IOT communication.• IOT Devices• Aurdino cloud IOT• Applications	
Remarks of the Course Coordinator about the Course	
The course was well attained by students. The value-added course on IoT and its Applications in Communication Sector was very useful to the students. The student's feedback is excellent about this programme. Organizing this programme for every year will be useful to students.	

Date: 05.09.2023

PO Mapping:

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
✓	✓			✓	✓			✓				✓	✓

Preemi

Signature of the Course Coordinator

[Signature]

Signature of the Head of the Department

[Signature]

Principal



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)
Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



ACADEMIC YEAR 2023-2024

VALUE ADDED COURSES – COURSE CONTENT

IoT and its Applications in Communication Sector

30 Hours

Module 1:

(i) Introduction to IOT- Characteristics, properties, and its general applications.

(ii) Hands-on session

How to use IOT devices

Module 2:

(i) General applications IOT devices

(ii) Hands-on session

IOT- Hands on using Node MCU

Module 3:

(i) About Arduino IDE

(ii) Hands-on session

Arduino

Module 4:

(i) Arduino cloud IOT

(ii) IOT platform

Module 5:

i) IFTTT – Third party web based service

ii) Test and Feedback



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Melathediyoore, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2023-2024

VALUE ADDED COURSES – IOT AND ITS APPLICATIONS IN
COMMUNICATION SECTOR

COURSE PLAN

Course	Value Added Course
Topic	IoT and its Applications in Communication Sector
Dates & Duration	30.08.2023 to 04.09.2023[30 Hrs.]

S. No.	Topic to be covered	Hours Needed	Mode of Teaching
Introduction to IOT			
1	Introduction to IOT basics	3	PPT
2	Internet of Things	3	PPT
3	IOT Communication	3	PPT
The IoT World Forum(IoTWF) Standardized Architecture			
4	Layer 2 functions	3	PPT
5	Layer 3 functions	3	PPT
IOT Devices			
6	IoT platform	3	PPT
7	End to End IoT Solution Implementation	3	PPT
IOT HANDS-ON Using Node MCU			
8	ESP 8266	3	PPT
9	Arduino cloud IOT	3	PPT
Applications			
10	THINGS SPEAK IOT platform	2	PPT
11	Test and Feedback	1	PPT

HOD/ECE



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Melathediyoar, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

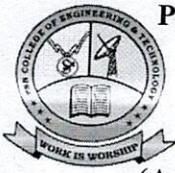
**VALUE ADDED COURSES – IOT AND ITS APPLICATIONS IN
COMMUNICATION SECTOR**

MARK STATEMENT

DATE: 30.08.2023 to 04.09.2023

S. No	Reg. No.	Name of the Student	Mark
1.	2005001	Aarthi P	19
2.	2005002	Auvadaiappan S	18
3.	2005003	Balaji A	17
4.	2005004	Bhavanisha A	18
5.	2005005	Jegan P	18
6.	2005007	Karthikeyan G	17
7.	2005008	Kaviya S	20
8.	2005009	Keerthana R	20
9.	2005010	Kiran kumar K	17
10.	2005011	Krishnapriya S	20
11.	2005013	Nesa Punitha R	18
12.	2005014	Shivashangaran M	17
13.	2005015	Sureshkumar S	19
14.	2005017	Suthilakshmi C	17
15.	2005018	Thangamuneeswari E	19
16.	2005019	Yamini S	18
17.	2005302	Joseph Daniel Raja	17
18.	2005303	Kegin raj. R	18
19.	2005305	Priyesh	19
20.	2005306	Samuel J.K	17
21.	2006001	Dharani Dharan A	18

[Handwritten signature]



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)
Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))
An ISO 9001:2015 Certified Institution

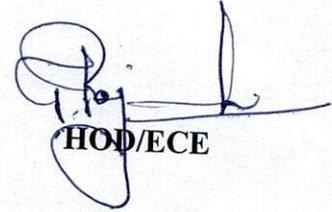
(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

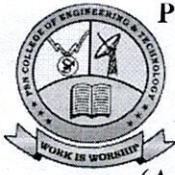
22.	2006002	Munish Bharath B	19
23.	2006003	Sudalai Mani M	20
24.	2006301	Hariharan N	19
25.	2006302	Vijayaraja J	18

Preemi

VAC Coordinator


HOD/ECE

23



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

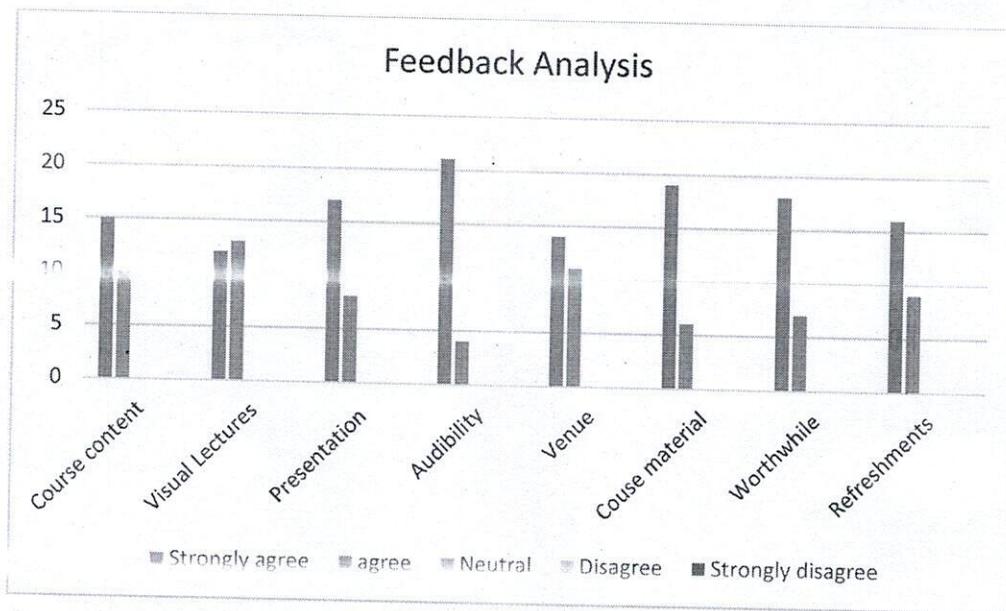
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED COURSES – IOT AND ITS APPLICATIONS IN COMMUNICATION SECTOR

30.08.2023 to 04.09.2023

FEEDBACK ANALYSIS

S.No	Name of VAC Programme	Course Coordinator	Resource person	Duration (30/08/2023-04/09/2023)	Total hours
1	IoT and its Applications in Communication Sector	Mrs.G.Preemi, AP/ECE	Mrs.N.Siva Sankari, AP/EIE	9.00 am – 1.00 pm 2.00 pm – 4.00 pm	30



Preemi

VAC CO-ORDINATOR

PS

[Signature]
HoD/ECE



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FEEDBACK FORM FOR ACADEMIC EVENTS

Type of Event: Conference / Seminar / Symposium / Guest Lecture / FDP / Others. *value Added course*

Date & Venue of Event: *30.08.23 - 1.9.23 & IV ECE.*

Organized by: *Department of ECE*

Please indicate the extent to which you agree with the following statements regarding the event:

S. No	Statements	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1	Course Content provided at this event is relevant and useful	✓				
2	Visual lectures were clear and easy to understand		✓			
3	Presentations were interesting		✓			
4	The audibility of the Presentations were good	✓				
5	The venue was suitable	✓				
6	The Course material handout was adequate		✓			
7	Overall, the event was worthwhile		✓			
8	Refreshments were suitable	✓				

What are the two most useful things you got out of the event?

*I have learned more about IoT.
I learned its uses and Applications.*

How could the event be improved?

It is overall good.

Other comments

Name of the Participant with address: *E. Thangamunneswari*

6/185, South Street, Nattar, Mangalam

Virudhungan (606005)



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)
Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FEEDBACK FORM FOR ACADEMIC EVENTS

Type of Event: Conference / Seminar / Symposium / Guest Lecture / FDP / Others *value added course*

Date & Venue of Event: *30.08.2023 - 31.08.2023* ~~24.08.2023~~ *4.9.2023* ~~7~~ *Final year ECE*

Organized by: *Department of ECE*

Please indicate the extent to which you agree with the following statements regarding the event:

S. No	Statements	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1	Course Content provided at this event is relevant and useful		✓			
2	Visual lectures were clear and easy to understand	✓				
3	Presentations were interesting		✓			
4	The audibility of the Presentations were good	✓				
5	The venue was suitable		✓			
6	The Course material handout was adequate	✓				
7	Overall, the event was worthwhile		✓			
8	Refreshments were suitable	✓				

What are the two most useful things you got out of the event?

*I have learn more about Iot.
Learn it's uses and Application.*

How could the event be improved?

It is over all good.

Other comments

Name of the Participant with address: *R. Nesa. punitha*

141D. Nesiyapuram, Seethapaul, Boothapandi (po)

Kanyakumari (AK)



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)
Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FEEDBACK FORM FOR ACADEMIC EVENTS

Type of Event: Conference / Seminar / Symposium / Guest Lecture / FDP / Others. Value... added course

Date & Venue of Event: ... 30.08.2023 to 04.09.2023 & Final ECE

Organized by: ... Final Department of ECE

Please indicate the extent to which you agree with the following statements regarding the event:

S. No	Statements	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1	Course Content provided at this event is relevant and useful	✓				
2	Visual lectures were clear and easy to understand		✓			
3	Presentations were interesting	✓				
4	The audibility of the Presentations were good		✓			
5	The venue was suitable	✓				
6	The Course material handout was adequate		✓			
7	Overall, the event was worthwhile	✓				
8	Refreshments were suitable		✓			

What are the two most useful things you got out of the event?

I have learn more about IOT
learn it's uses and Application.

How could the event be improved?

It's over all good.

Other comments

Name of the Participant with address: ... C. Suthalakshmi

... 2/137 Kaliamman Kovil Street, A. Thulukkapatti, Anaiyur (P.O)

... Sivakasi - 626124, Virudhunagar (Dist)



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Melathediyoor, Tirunelveli

Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B)

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**VALUE ADDED COURSES – IOT AND ITS APPLICATIONS IN
COMMUNICATION SECTOR(30.08.2023 to 04.09.2023)**



Value Added Course on IoT and its Applications in Communication Sector from 30.08.2023
to 04.09.2023

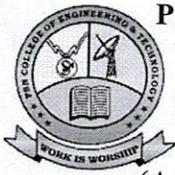
Beemi

VAC CO-ORDINATOR

[Signature]
HOD/ECE

[Signature]

PRINCIPAL.



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Value-added course on
IoT and its Application for Communication Technologies
Department of Electronics and Communication Engineering

Multiple Choice Questions (Marks:1 x 20 = 20)

Time: 20 Mins

Marks:20

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

2. Who coined the term "Internet of Things", and in which year?
 - a) Kevin Aston, 1999
 - b) John Wright, 1998
 - c) Edward Jameson, 2000
 - d) George Garton, 2002

3. Which of the following is not an IoT device?
 - a) Table
 - b) Laptop
 - c) Arduino
 - d) Tablet

4. Which of the following is not an IoT platform?
 - a) Amazon Web Services
 - b) Microsoft Azure
 - c) Salesforce
 - d) Flipkart

5. Which of the following is not an application of IoT?
 - a) BMP280
 - b) Smart home
 - c) Smart city
 - d) Self-driven cars

6. What is the full form of IIOT?
 - a) Index Internet of Things
 - b) Incorporate Internet of Things
 - c) Industrial Internet of Things
 - d) Intense Internet of Things

1/3



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

7. Which layer is used for wireless connection in IoT devices?
 - a) Application layer
 - b) Network layer
 - c) Data link layer
 - d) Transport layer

8. Which of the following is false about the IoT components?
 - a) A light sensor (photoresistor) is an analog sensor
 - b) A microphone is a digital sensor
 - c) A push button is a digital sensor
 - d) A keyboard is a digital sensor

9. Which of the following command is used to trigger the Amazon echo IOT device?
 - a) Hello
 - b) Suri
 - c) Alexa
 - d) Hey

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

11. Which of the following is used to reprogram a Bootloader(firmware) in IoT devices?
 - a) VHDL programming
 - b) IDE
 - c) ICSP
 - d) MANET

12. dweet.io (data sharing utility) provides _____ to send data from IoT devices.
 - a) Web API
 - b) POST HTTP
 - c) JSON
 - d) HTTP

13. What is the full form of IDE in Arduino IDE IoT software?
 - a) Intra Defence Environment
 - b) Intra Development Environment
 - c) Integrated Development Environment
 - d) Integrated Deployed Environment





PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f) and 12 (B))

An ISO 9001:2015 Certified Institution

(Accredited by NAAC with A+, Affiliated to Anna University Chennai)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

14. Which programming language is used by Arduino IDE IoT software for writing codes?
 - a) Python
 - b) Java
 - c) C/C++
 - d) JavaScript

15. What is the component of an IoT system that executes a program?
 - a) A sensor
 - b) A microcontroller
 - c) An actuator
 - d) A digital to analog converter

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

17. Which service permits the changes to the IoT services?
 - a) Update
 - b) Registered service status
 - c) Enable from suspension
 - d) Enable

18. Which of the following protocol is used to link all the devices in the IoT?
 - a) HTTP
 - b) UDP
 - c) Network
 - d) TCP/IP

19. IoT gateway must provide _____
 - a) Protocol abstraction
 - b) Data storage
 - c) Security with hardware
 - d) Simple and fast installation

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

S. Kaviya,
IV-ECE,
2005008.

Value-added course on
IoT and its Application for Communication Technologies

Department of Electronics and Communication Engineering

Multiple Choice Questions (Marks: 1 x 20 = 20)

20
20

1. What is IoT?
 a) network of physical objects embedded with sensors
 b) network of virtual objects
 c) network of objects in the ring structure
 d) network of sensors
2. Who coined the term "Internet of Things", and in which year?
 a) Kevin Aston, 1999
 b) John Wright, 1998
 c) Edward Jameson, 2000
 d) George Garton, 2002
3. Which of the following is not an IoT device?
 a) Table
 b) Laptop
 c) Arduino
 d) Tablet
4. Which of the following is not an IoT platform?
 a) Amazon Web Services
 b) Microsoft Azure
 c) Salesforce
 d) Flipkart
5. Which of the following is not an application of IoT?
 a) BMP280
 b) Smart home
 c) Smart city
 d) Self-driven cars
6. What is the full form of IIOT?
 a) Index Internet of Things
 b) Incorporate Internet of Things
 c) Industrial Internet of Things
 d) Intense Internet of Things
7. Which layer is used for wireless connection in IoT devices?

20

- a) Application layer
 - b) Network layer
 - c) Data link layer
 - d) Transport layer
8. Which of the following is false about the IoT components?
- a) A light sensor (photoresistor) is an analog sensor
 - b) A microphone is a digital sensor
 - c) A push button is a digital sensor
 - d) A keyboard is a digital sensor
9. Which of the following command is used to trigger the Amazon echo IOT device?
- a) Hello
 - b) Suri
 - c) Alexa
 - d) Hey
10. What is the use of PWM signals in IoT development boards?
- a) They are used by sensors to have analog input
 - b) They are used by sensors to have digital input
 - c) They are used by actuators to have analog input
 - d) They are used by actuators to have digital input
11. Which of the following is used to reprogram a Bootloader(firmware) in IoT devices?
- a) VHDL programming
 - b) IDE
 - c) ICSP
 - d) MANET
12. dweet.io (data sharing utility) provides _____ to send data from IoT devices.
- a) Web API
 - b) POST HTTP
 - c) JSON
 - d) IITTP
13. What is the full form of IDE in Arduino IDE IoT software?
- a) Intra Defence Environment
 - b) Intra Development Environment
 - c) Integrated Development Environment
 - d) Integrated Deployed Environment
14. Which programming language is used by Arduino IDE IoT software for writing codes?
- a) Python
 - b) Java
 - c) C/C++
 - d) JavaScript
- 

15. What is the component of an IoT system that executes a program?
- a) A sensor
 - b) A microcontroller
 - c) An actuator
 - d) A digital to analog converter
16. What is the role of Cloud in smart grid architecture of IoT?
- a) Security
 - b) Collect data
 - c) Manage data
 - d) Store data
17. Which service permits the changes to the IoT services?
- a) Update
 - b) Registered service status
 - c) Enable from suspension
 - d) Enable
18. Which of the following protocol is used to link all the devices in the IoT?
- a) HTTP
 - b) UDP
 - c) Network
 - d) TCP/IP
19. IoT gateway must provide _____
- a) Protocol abstraction
 - b) Data storage
 - c) Security with hardware
 - d) Simple and fast installation
20. Which of the following is true about Arduino IoT devices?
- a) They are open-source software
 - b) They can only read analog inputs
 - c) They have their own operating systems
 - d) They don't have pre-programmed firmware

1/3

Value-added course on

IoT and its Application for Communication Technologies

Department of Electronics and Communication Engineering

Multiple Choice Questions (Marks:1 x 20 = 20)

19/10/20

1. What is IoT?
 a) network of physical objects embedded with sensors
 b) network of virtual objects
 c) network of objects in the ring structure
 d) network of sensors
2. Who coined the term "Internet of Things", and in which year?
 a) Kevin Aston, 1999
 b) John Wright, 1998
 c) Edward Jameson, 2000
 d) George Garton, 2002
3. Which of the following is not an IoT device?
 a) Table
 b) Laptop
 c) Arduino
 d) Tablet
4. Which of the following is not an IoT platform?
 a) Amazon Web Services
 b) Microsoft Azure
 c) Salesforce
 d) Flipkart
5. Which of the following is not an application of IoT?
 a) BMP280
 b) Smart home
 c) Smart city
 d) Self-driven cars
6. What is the full form of IIOT?
 a) Index Internet of Things
 b) Incorporate Internet of Things
 c) Industrial Internet of Things
 d) Intense Internet of Things
7. Which layer is used for wireless connection in IoT devices?

2/3

- a) Application layer
 - b) Network layer
 - c) Data link layer
 - d) Transport layer
8. Which of the following is false about the IoT components?
- a) A light sensor (photoresistor) is an analog sensor
 - b) A microphone is a digital sensor
 - c) A push button is a digital sensor
 - d) A keyboard is a digital sensor
9. Which of the following command is used to trigger the Amazon echo IOT device?
- a) Hello
 - b) Suri
 - c) Alexa
 - d) Hey
10. What is the use of PWM signals in IoT development boards?
- a) They are used by sensors to have analog input
 - b) They are used by sensors to have digital input
 - c) They are used by actuators to have analog input
 - d) They are used by actuators to have digital input
11. Which of the following is used to reprogram a Bootloader(firmware) in IoT devices?
- a) VHDL programming
 - b) IDE
 - c) ICSP
 - d) MANET
12. dweet.io (data sharing utility) provides _____ to send data from IoT devices.
- a) Web API
 - b) POST HTTP
 - c) JSON
 - d) HTTP
13. What is the full form of IDE in Arduino IDE IoT software?
- a) Intra Defence Environment
 - b) Intra Development Environment
 - c) Integrated Development Environment
 - d) Integrated Deployed Environment
14. Which programming language is used by Arduino IDE IoT software for writing codes?
- a) Python
 - b) Java
 - c) C/C++
 - d) JavaScript
- PM*

15. What is the component of an IoT system that executes a program?
- a) A sensor
 - b) A microcontroller
 - c) An actuator
 - d) A digital to analog converter
16. What is the role of Cloud in smart grid architecture of IoT?
- a) Security
 - b) Collect data
 - c) Manage data
 - d) Store data
17. Which service permits the changes to the IoT services?
- a) Update
 - b) Registered service status
 - c) Enable from suspension
 - d) Enable
18. Which of the following protocol is used to link all the devices in the IoT?
- a) HTTP
 - b) UDP
 - c) Network
 - d) TCP/IP
19. IoT gateway must provide _____
- a) Protocol abstraction
 - b) Data storage
 - c) Security with hardware
 - d) Simple and fast installation
20. Which of the following is true about Arduino IoT devices?
- a) They are open-source software
 - b) They can only read analog inputs
 - c) They have their own operating systems
 - d) They don't have pre-programmed firmware

1/2/20

Value-added course on
IoT and its Application for Communication Technologies

Department of Electronics and Communication Engineering

Multiple Choice Questions (Marks: 1 x 20 = 20)

1. What is IoT?
 a) network of physical objects embedded with sensors
b) network of virtual objects
c) network of objects in the ring structure
d) network of sensors ✓
2. Who coined the term "Internet of Things", and in which year?
 a) Kevin Aston, 1999
b) John Wright, 1998
c) Edward Jameson, 2000
d) George Garton, 2002 ✓
3. Which of the following is not an IoT device?
 a) Table
b) Laptop ✓
c) Arduino
d) Tablet
4. Which of the following is not an IoT platform?
a) Amazon Web Services
b) Microsoft Azure ✓
c) Salesforce
 d) Flipkart ✓
5. Which of the following is not an application of IoT?
 a) BMP280 ✓
b) Smart home
c) Smart city
d) Self-driven cars
6. What is the full form of IIOT?
a) Index Internet of Things
b) Incorporate Internet of Things
 c) Industrial Internet of Things ✓
d) Intense Internet of Things
7. Which layer is used for wireless connection in IoT devices?

18/20

18/20

- a) Application layer
- b) Network layer
- c) Data link layer
- d) Transport layer

8. Which of the following is false about the IoT components?

- a) A light sensor (photoresistor) is an analog sensor
- b) A microphone is a digital sensor
- c) A push button is a digital sensor
- d) A keyboard is a digital sensor

9. Which of the following command is used to trigger the Amazon echo IOT device?

- a) Hello
- b) Suri
- c) Alexa
- d) Hey

10. What is the use of PWM signals in IoT development boards?

- a) They are used by sensors to have analog input
- b) They are used by sensors to have digital input
- c) They are used by actuators to have analog input
- d) They are used by actuators to have digital input

11. Which of the following is used to reprogram a Bootloader(firmware) in IoT devices?

- a) VHDL programming
- b) IDE
- c) ICSP
- d) MANET

12. dweet.io (data sharing utility) provides _____ to send data from IoT devices.

- a) Web API
- b) POST HTTP
- c) JSON
- d) HTTP

13. What is the full form of IDE in Arduino IDE IoT software?

- a) Intra Defence Environment
- b) Intra Development Environment
- c) Integrated Development Environment
- d) Integrated Deployed Environment

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

- a) Python
- b) Java
- c) C/C++
- d) JavaScript

15. What is the component of an IoT system that executes a program?
- a) A sensor
 - b) A microcontroller
 - c) An actuator
 - d) A digital to analog converter
16. What is the role of Cloud in smart grid architecture of IoT?
- a) Security
 - b) Collect data
 - c) Manage data
 - d) Store data
17. Which service permits the changes to the IoT services?
- a) Update
 - b) Registered service status
 - c) Enable from suspension
 - d) Enable
18. Which of the following protocol is used to link all the devices in the IoT?
- a) HTTP
 - b) UDP
 - c) Network
 - d) TCP/IP
19. IoT gateway must provide _____
- a) Protocol abstraction
 - b) Data storage
 - c) Security with hardware
 - d) Simple and fast installation
20. Which of the following is true about Arduino IoT devices?
- a) They are open-source software
 - b) They can only read analog inputs
 - c) They have their own operating systems
 - d) They don't have pre-programmed firmware

27



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institution, Affiliated to Anna University,

Approved by AICTE Recognized by UGC section 2f & 12B,

Accredited by NAAC With A+ Grade in 3rd cycle

Melathediyoor, Tirunelveli-627152



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE



THIS IS TO CERTIFY THAT MR/MS. **M. SURESH.A.I. MANI. J.V. : ETE**.....

HAS SUCCESSFULLY COMPLETED FIVE DAYS VALUE ADDED COURSE ON "**VECE21 -IOT AND IT'S**

APPLICATIONS IN COMMUNICATION SECTOR" ORGANIZED BY DEPARTMENT OF ELECTRONICS

AND COMMUNICATION ENGINEERING, PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS), TIRUNELVELI. FROM 30-08-2023 TO 04-09-2023.

Prasanth

CO-ORDINATOR

Raj
HOD/ECE

[Signature]

[Signature]

PRINCIPAL



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institution, Affiliated to Anna University,

Approved by AICTE Recognized by UGC section 2f & 12B,

Accredited by NAAC With A + Grade in 3rd cycle

Melathediyoor, Tirunelveli-627152



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

THIS IS TO CERTIFY THAT MR/MS.....**A.BHAVANISHA..I.U.-ECE.....**

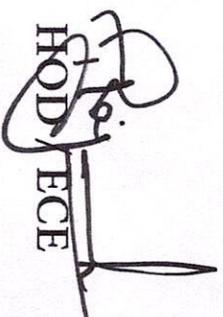
HAS SUCCESSFULLY COMPLETED FIVE DAYS VALUE ADDED COURSE ON "**VECE21-IOT AND IT'S**

APPLICATIONS IN COMMUNICATION SECTOR" ORGANIZED BY DEPARTMENT OF ELECTRONICS

AND COMMUNICATION ENGINEERING, PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS), TIRUNELVELI. FROM 30-08-2023 TO 04-09-2023.

Prasanth
CO-ORDINATOR


HOD ECE


PRINCIPAL



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institution, Affiliated to Anna University,

Approved by AICTE Recognized by UGC section 2f & 12B,

Accredited by NAAC With A+ Grade in 3rd cycle

Melathediyoor, Tirunelveli-627152



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

THIS IS TO CERTIFY THAT MR/MS.....**S.K.R.I.SHWA.P.R.I.YA..J.V..ECE**.....

HAS SUCCESSFULLY COMPLETED FIVE DAYS VALUE ADDED COURSE ON "**VECE21-IOT AND IT'S**

APPLICATIONS IN COMMUNICATION SECTOR" ORGANIZED BY DEPARTMENT OF ELECTRONICS

AND COMMUNICATION ENGINEERING, PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS), TIRUNELVELI. FROM 30-08-2023 TO 04-09-2023.

Prasanth
CO-ORDINATOR


HOD ECE


PRINCIPAL