



# SRI BHARATHI

ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Kaikkurichi, Pudukkottai -622 303

[www.sbec.edu.in](http://www.sbec.edu.in)

## NAAC DOCUMENTS



Quality Indicator Frame Work

Criterion – 1

CURRICULAR ASPECTS

Submitted by

**IQAC**

**Internal Quality Assurance Cell**

Sri Bharathi Engineering College for Women



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
 Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25  
**KAIKKURUCHI, PUDUKOTTAI – 622 303**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**ACADEMIC YEAR 2022-2023 / ODD SEMESTER**

**1.2 Academic Flexibility (30)**

**1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)**

**AND**

**1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years**

<b>VAC Title:</b>	INTERNET OF THINGS WITH PYTHON				
<b>Resource Person:</b>	<b>Resource Person:</b> Dr.K.Gurunathan M.E Ph.D Trainer Meck Teck Research Foundation		<b>Resource Person:</b> Mr.Kamalakaran Trainer Galwin Technology		
<b>Date of conduct from :</b>	03.08.2022(IV &III)	<b>To:</b>	10.08.2022( IV &III)	<b>Duration:</b>	30 Hrs
	22.08.2022(II)		26.08.2022(II)		
<b>Organized Department :</b>	COMPUTER SCIENCE AND ENGINEERING				
<b>Participant Year:</b>	4,3&2(CSE), 2(EEE)	<b>Semester:</b>	ODD	<b>No. of Students Registered :</b>	74
<b>Venue:</b>	Auditorium				

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Date: 26 / 07 /2022

### DEPARTMENT CIRCULAR

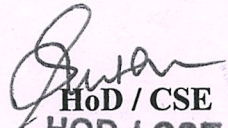
A Value added course on “Internet of Things with Python” will be conducted by MECK TECK Research Foundation, Pudukkottai in the college campus for all Third year and Final year CSE students from 03.08.2022 to 10.08.2022. Certificates will be issued to all the participants at the end of the Course.

S.No.	Name of the Course	Resource Person
1.	Internet of Things With Python	<b>Resource Person:</b> 1. Dr.K.Gurunathan M.E Ph.D Master Trainer MECK TECK Research Foundation

Cc:

- Principal's office
- IQAC Coordinator
- Class In charge-III,IV year
- CSE Students – III,IV year
- Notice Board

  
**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai, Dt.

  
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2022-2023 / ODD SEMESTER

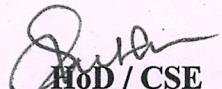
### Value Added Course on “INTERNET OF THINGS WITH PYTHON”

#### SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE FN/AN
1	Understanding IoT fundamentals - IOT Architecture and protocols	3	03.08.2022
2	Various Platforms for IoT - Real time Examples of IoT	3	03.08.2022
3	Arduino Uno Architecture - Setup the IDE, Writing Arduino Software - Arduino Libraries	3	04.08.2022
4	Overview of IoT components and IoT Communication Technologies - Challenges in IOT	3	04.08.2022
5	Basics of Embedded C programming for Arduino	3	05.08.2022
6	Interfacing LED, push button and buzzer with Arduino	3	05.08.2022
7	Interfacing Arduino with LCD	3	08.08.2022
8	Overview of Sensors working - Analog and Digital Sensors	3	08.08.2022
9	Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino	3	09.08.2022
10	Interfacing of Actuators with Arduino	3	09.08.2022
11	Interfacing of Relay Switch and Servo Motor with	3	10.08.2022
12	Arduino M2M vs. IOT - Communication Protocols	3	10.08.2022
<b>Total Periods :</b>		<b>36</b>	

  
VAC Coordinator

  
Dr. S.THILAGAVATHI M.E., Ph.D.,  
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SRI BHARATHI ENGINEERING  
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Kaikkurichi - 622 303, Pudukkottai, Dt.

  
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEM)

STUDENTS PARTICIPATION LIST-VAC PROGRAM

INTERNET OF THINGS WITH PYTHON

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/BRANCH
1.	912620104001	AKALYA S	III/CSE
2.	912620104002	HEMA V	III/CSE
3.	912620104003	ISWARYA R	III/CSE
4.	912620104004	KALAIVANI S	III/CSE
5.	912620104005	KALPANA K	III/CSE
6.	912620104007	MEIYYAMMAL M	III/CSE
7.	912620104008	NANDHINI P	III/CSE
8.	912620104009	PRASANNA DEVI P	III/CSE
9.	912620104010	PRISHIYA E	III/CSE
10.	912620104012	ROSAMMAL M	III/CSE
11.	912620104013	ROSHIKA K	III/CSE
12.	912620104014	SABHA AYSHA S	III/CSE
13.	912620104015	SATHIYASRI P	III/CSE
14.	912620104016	SIVAGAMI D	III/CSE
15.	912620104017	SIVAHARINI S	III/CSE
16.	912620104018	SUBASHINI C	III/CSE
17.	912620104019	SUBASHINI M	III/CSE
18.	912620104020	SWETHA D	III/CSE

Dr. S. THILAGAVATHI M.E., Ph.D.,

PRINCIPAL

SRI BHARATHI ENGINEERING

COLLEGE FOR

Kaikkurichi - 622 303, Pudukkottai, Dt.

19.	912620104021	VANATHI T	III/CSE
20.	912620104022	VINCIYA MARY S	III/CSE
21.	912620104304	VAISHNAVI R	III/CSE
22.	912619104001	ANNAPOORANI M	IV /CSE
23	912619104003	ARUNNAVAMEENA A	IV/CSE
24	912619104004	DAYANA P	IV/CSE
25	912619104005	DHARSHINI D	IV/CSE
26	912619104007	FAHMIDHA B	IV/CSE
27	912619104009	GULNAS FATHIMA S	IV/CSE
28	912619104010	HELAN J	IV/CSE
29	912619104011	KEERTHANA R	IV/CSE
30	912619104012	MUTHULAKSHMI G	IV/CSE
31	912619104013	MUTHU MEENAKSHI M	IV/CSE
32	912619104014	NIROSHIKA R	IV/CSE
33	912619104017	PARAMESHWARI S	IV/CSE
34	912619104019	RANJANI K	IV/CSE
35	912619104020	RILWANA PARVEEN J	IV/CSE
36	912619104021	ROOPINA R	IV/CSE
37	912619104022	SANDHIYA B	IV/CSE
38	912619104023	SANTHI D	IV/CSE
39	912619104024	SARANYA C	IV/CSE
40	912619104027	SNEHA R	IV/CSE
41	912619104029	SURIYA JOTHI S	IV/CSE
42	912619104301	ABINAYA S	IV/CSE

VAC Coordinator

Dr. S. THILAGAVATHI M.E., Ph.D.,  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

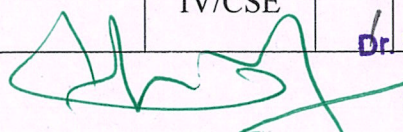
ACADEMIC YEAR 2022-2023 (ODD SEM)

ATTENDANCE SHEET FOR VALUE ADDED COURSE- INTERNET OF THINGS WITH PYTHON

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	DATE: 03.08.22		DATE: 04.08.22		DATE: 05.08.22		DATE: 08.08.22		DATE: 09.08.22		DATE: 10.08.22		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
				1	912620104001	AKALYA S	III/CSE	/	/	/	/	/	/	/	/		
2	912620104002	HEMA V	III/CSE	/	/	/	/	/	/	/	/	/	/	/	12	<i>Hema V</i>	
3	912620104003	ISWARYA R	III/CSE	/	/	/	/	/	/	/	/	/	/	/	12	<i>Isht</i>	
4	912620104004	KALAIVANI S	III/CSE	/	/	/	/	/	/	/	/	/	/	/	12	<i>Kalaivani S</i>	
5	912620104005	KALPANA K	III/CSE	/	/	/	/	/	/	/	/	/	/	/	12	<i>KK</i>	
6	912620104007	MEIYYAMMAL M	III/CSE	/	/	/	/	/	/	/	/	/	/	/	12	<i>M. Meiyammal</i>	
7	912620104008	NANDHINI P	III/CSE	/	/	/	/	/	/	/	/	/	/	/	12	<i>Nandhini P</i>	
8	912620104009	PRASANNA DEVI P	III/CSE	/	/	/	/	/	/	/	/	/	/	/	12	<i>Prasanna Devi P</i>	
9	912620104010	PRISHIYA E	III/CSE	/	/	/	/	/	/	/	/	/	/	/	12	<i>Prishiya E</i>	
10	912620104012	ROSAMMAL M	III/CSE	/	/	/	/	/	/	/	/	/	/	/	12	<i>Rosammal M</i>	

Dr. S. THILAGAVATHI M.E., Ph.D.,  
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11	912620104013	ROSHIKA K	III/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	K. Rosika
12	912620104014	SABHA AYSHA S	III/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	S. Sabha
13	912620104015	SATHIYASRI P	III/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	P. Sathiyasri
14	912620104016	SIVAGAMI D	III/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	D. Sivagami
15	912620104017	SIVAHARINI S	III/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	S. Sivaharini
16	912620104018	SUBASHINI C	III/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	C. Subashini
17	912620104019	SUBASHINI M	III/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	M. Subashini
18	912620104020	SWETHA D	III/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	D. Swetha
19	912620104021	VANATHI T	III/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	T. Vanathi
20	912620104022	VINCIYA MARY S	III/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	S. Vinciya Mary
21	912620104304	VAISHNAVI R	III/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	R. Vaishnavi
22	912619104001	ANNAPOORANI M	IV /CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	Annaporani
23	912619104003	ARUNNAVAMEENA A	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	Arunnavameena
24	912619104004	DAYANA P	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	Dayana
25	912619104005	DHARSHINI D	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	Dharshini
26	912619104007	FAHMIDHA B	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	Fahmidha
27	912619104009	GULNAS FATHIMA S	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	Gulnas
28	912619104010	HELAN J	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	1	12	Helan



**Dr. S. THILAGAVATHI** M.E., Ph.D.,  
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COLLEGE FOR WOMEN  
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29	912619104011	KEERTHANA R	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12	Keerthi
30	912619104012	MUTHULAKSHMI G	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12	Mathy
31	912619104013	MUTHU MEENAKSHI M	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12	Mat
32	912619104014	NIROSHIKA R	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12	Nirashika
33	912619104017	PARAMESHWARI S	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12	Praveeshy
34	912619104019	RANJANI K	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12	Rajany
35	912619104020	RILWANA PARVEEN J	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12	Rilwana
36	912619104021	ROOPINA R	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12	Roopina
37	912619104022	SANDHIYA B	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12	Sandhya
38	912619104023	SANTHI D	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12	Santhi
39	912619104024	SARANYA C	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12	Sarany
40	912619104027	SNEHA R	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12	Sneha
41	912619104029	SURIYA JOTHI S	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12	Suriya
42	912619104301	ABINAYA S	IV/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12	Abinaya

VAC Coordinor

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# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## Report on Value Added Course

Title: Internet of Things With Python

Resource Person: Dr.K.Gurunathan M.E Ph.D  
Trainer  
Meck Teck Research Foundation

Date of conduct from : 03.08.2022 To: 10.08.2022 Duration: 30 Hours

Organized Department : Computer Science and Engineering

Participant Year: 3,4(CSE) Semester: ODD No. of Students Registered : 42

Venue: Auditorium

### Outcome of Value Added Course (VAC)

At the end of the VAC course the student can able to

- Explain fundamentals about IoT
- Illustration of IoT Access technologies
- Design methodology and different IoT hardware platforms.
- Identify with the application areas of IOT
- Realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks
- Describe the building blocks of Internet of Things and characteristics.

### Assessment Process

- Students securing more than 60% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 \*Attendance in VAC out of 100 percentage + 0.5 \*Test mark in VAC out of 100 marks)

VAC Coordinator

HOD / CSE

Principal

PRINCIPAL

SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURCHI - 622 303.  
PUDUKKOTTAI DISTRICT

Dr. S.THILAGAVATHI M.E., Ph.D.,  
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Kaikkurchi - 622 303, Pudukkotta: Dt.



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Kaikkurichi , Pudukkottai, Tamil Nadu - 622 303, India



**MECK TECK**  
RESEARCH FOUNDATION

(Registered Under Ministry of Micro, Small and Medium Enterprises UDI/MSME-TR-07-0910761)

## CERTIFICATE OF COMPLETION

This is to certify that **Ms.K.Kalpana** of III CSE has completed 5 days value added course about **"Internet of things with PYTHON"** from 03.08.2022 to 10.08.2022 during the academic year 2022-2023.

CEO  
Meck Teck

Dr. S. THILAGAVATHI M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt.

PRINCIPAL  
SBECW



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Kaikkurichi , Pudukkottai, Tamil Nadu - 622 303, India



**MECK TECK**  
RESEARCH FOUNDATION

(Registered Under Ministry of Micro, Small and Medium Enterprises UDYAM-TN-17-0919761)

## CERTIFICATE OF COMPLETION

This is to certify that **Ms.R.SNEHA** of IV CSE has completed 5 days value added course about **\*Internet of things with PYTHON\*** from 03.08.2022 to 10.08.2022 during the academic year 2022-2023.

CEO  
Meck Teck

PRINCIPAL  
Dr. S.THILAGAVATHI M.E., Ph.D., SBECW

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# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India  
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Name of the Student :

Year/Sem:

AU Register Number:

Value Added Course on “Internet of Things With Python”

### MCQ QUESTIONS ( 25X1 = 25 Marks)

- Which of the following is false about IoT devices?
  - IoT devices use the internet for collecting and sharing data
  - IoT devices need microcontrollers
  - IoT devices use wireless technology
  - IoT devices are completely safe
- Which of the following is not an IoT platform?
  - Amazon Web Services
  - Microsoft Azure
  - Salesforce
  - Flipkart
- Which of the following is not an application of IoT?
  - BMP280
  - Smart home
  - Smart city
  - Self-driven cars
- Which of the following is not a fundamental component of an IoT system?
  - Sensors
  - Connectivity and data processing
  - User interface
  - Transformer
- Which layer is used for wireless connection in IoT devices?
  - Application layer
  - Network layer
  - Data link layer
  - Transport layer
- Which of the following is false about the IoT components?
  - A light sensor (photoresistor) is an analog sensor
  - A microphone is a digital sensor
  - A push button is a digital sensor
  - A keyboard is a digital sensor
- Which of the following is used to capture data from the physical world in IoT devices?
  - Sensors
  - Actuators
  - Microprocessors
  - Microcontrollers
- Which of the following command is used to trigger the Amazon echo IOT device?
  - Hello
  - Suri
  - Alexa
  - Hey

  
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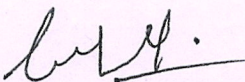
9. Which of the following is false about the MANET IoT network?
- a) It is a self-configuring network
  - b) It has a low data rate
  - c) It doesn't have any encryption
  - d) Power is readily available for complex security
10. Which of the following is not a sensor in IoT?
- a) BMP280
  - b) DHT11
  - c) Photoresistor
  - d) LED
11. Which of the following is not an actuator in IoT?
- a) Stepper motor
  - b) A fan
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VAC Coordinator



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(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Value Added Course on “Internet of Things With Python”

## ANSWER KEY

1	d	6	b	11	d	16	d	21	a
2	d	7	a	12	c	17	a	22	a
3	a	8	c	13	c	18	b	23	b
4	d	9	d	14	a	19	b	24	d
5	c	10	d	15	b	20	d	25	a

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Name of the Student : R. Vaishnavi

Year/Sem: III / 05

AU Register Number: 912620104304

Value Added Course on "Internet of Things With Python"

23/25

## MCQ QUESTIONS ( 25X1 = 25 Marks)

- Which of the following is false about IoT devices?  
a) IoT devices use the internet for collecting and sharing data  
b) IoT devices need microcontrollers  
c) IoT devices use wireless technology  
d) IoT devices are completely safe
- Which of the following is not an IoT platform?  
a) Amazon Web Services  
b) Microsoft Azure  
c) Salesforce  
d) Flipkart
- Which of the following is not an application of IoT?  
a) BMP280  
b) Smart home  
c) Smart city  
d) Self-driven cars
- Which of the following is not a fundamental component of an IoT system?  
a) Sensors  
b) Connectivity and data processing  
c) User interface  
d) Transformer
- Which layer is used for wireless connection in IoT devices?  
a) Application layer  
b) Network layer  
c) Data link layer  
d) Transport layer
- 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
- Which of the following is used to capture data from the physical world in IoT devices?  
a) Sensors  
b) Actuators  
c) Microprocessors  
d) Microcontrollers
- Which of the following command is used to trigger the Amazon echo IOT device?  
a) Hello  
b) Suri  
c) Alexa  
d) Hey

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9. Which of the following is false about the MANET IoT network?
- a) It is a self-configuring network
  - b) It has a low data rate
  - c) It doesn't have any encryption
  - d) Power is readily available for complex security
10. Which of the following is not a sensor in IoT?
- a) BMP280
  - b) DHT11
  - c) Photoresistor
  - d) LED
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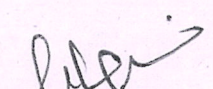
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VAC Coordinator



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEM)

MARK SHEET FOR VALUE ADDED COURSE- INTERNET OF THINGS WITH PYTHON

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	ATTENDANCE DETAILS		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No of Sessions Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	912620104001	AKALYA S	III/CSE	12	100	22	88	94
2	912620104002	HEMA V	III/CSE	12	100	23	92	96
3	912620104003	ISWARYA R	III/CSE	12	100	24	96	98
4	912620104004	KALAIVANI S	III/CSE	12	100	20	80	90
5	912620104005	KALPANA K	III/CSE	12	100	18	72	86
6	912620104007	MEIYYAMMAL M	III/CSE	12	100	19	76	88
7	912620104008	NANDHINI P	III/CSE	12	100	21	84	92

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8	912620104009	PRASANNA DEVI P	III/CSE	12	100	20	80	90
9	912620104010	PRISHIYA E	III/CSE	12	100	21	84	92
10	912620104012	ROSAMMAL M	III/CSE	12	100	21	84	92
11	912620104013	ROSHIKA K	III/CSE	12	100	22	88	94
12	912620104014	SABHA AYSHA S	III/CSE	12	100	23	92	96
13	912620104015	SATHIYASRI P	III/CSE	12	100	22	88	94
14	912620104016	SIVAGAMI D	III/CSE	12	100	23	92	96
15	912620104017	SIVAHARINI S	III/CSE	12	100	21	84	92
16	912620104018	SUBASHINI C	III/CSE	12	100	22	88	94
17	912620104019	SUBASHINI M	III/CSE	12	100	23	92	96
18	912620104020	SWETHA D	III/CSE	12	100	23	92	96
19	912620104021	VANATHI T	III/CSE	12	100	22	88	100
20	912620104022	VINCIYA MARY S	III/CSE	12	100	21	84	92
21	912620104304	VAISHNAVI R	III/CSE	12	100	23	92	96

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22	912619104001	ANNAPOORANI M	IV /CSE	12	100	20	80	90
23	912619104003	ARUNNAVAMEENA A	IV/CSE	12	100	18	72	86
24	912619104004	DAYANA P	IV/CSE	12	100	21	84	92
25	912619104005	DHARSHINI D	IV/CSE	12	100	23	92	96
26	912619104007	FAHMIDHA B	IV/CSE	12	100	19	76	88
27	912619104009	GULNAS FATHIMA S	IV/CSE	12	100	19	76	88
28	912619104010	HELAN J	IV/CSE	12	100	24	96	98
29	912619104011	KEERTHANA R	IV/CSE	12	100	21	84	92
30	912619104012	MUTHULAKSHMI G	IV/CSE	12	100	22	88	94
31	912619104013	MUTHU MEENAKSHI M	IV/CSE	12	100	23	92	96
32	912619104014	NIROSHIKA R	IV/CSE	12	100	21	84	92
33	912619104017	PARAMESHWARI S	IV/CSE	12	100	21	84	92
34	912619104019	RANJANI K	IV/CSE	12	100	20	80	90
35	912619104020	RILWANA PARVEEN J	IV/CSE	12	100	23	92	96

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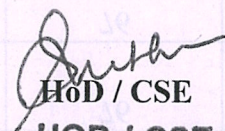
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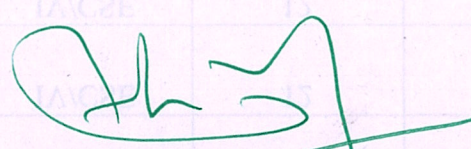
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36	912619104021	ROOPINA R	IV/CSE	12	100	22	88	94
37	912619104022	SANDHIYA B	IV/CSE	12	100	21	84	92
38	912619104023	SANTHI D	IV/CSE	12	100	19	76	88
39	912619104024	SARANYA C	IV/CSE	12	100	18	72	86
40	912619104027	SNEHA R	IV/CSE	12	100	19	76	88
41	912619104029	SURIYA JOTHI S	IV/CSE	12	100	23	92	96
42	912619104301	ABINAYA S	IV/CSE	12	100	21	84	92

  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023 / ODD SEMESTER

DEPARTMENT CIRCULAR

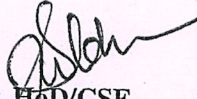
Date: 16 / 08 / 2022


A Value added course on "Internet of Things with Python" will be conducted by GALWIN Technology, Trichy in the college campus for CSE&EEE-II year from 22.08.2022 to 26.08.2022. Certificates will be issued to all eligible participants at the end of the Course.

S.No.	Name of the Course	Resource Person
1.	Internet of Things With Python	<b>Resource Person:</b> Mr.Kamalakannan Trainer GALWIN Technology

Cc:

- Principal's Office
- IQAC Coordinator
- Class In charges - II year of CSE,EEE
- II -year CSE,EEE Students
- Notice Board

  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING


ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Value Added Course on “INTERNET OF THINGS WITH PYTHON”

## SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE FN/AN
1	Understanding IoT fundamentals - IOT Architecture and protocols	3	22.08.2022
2	Various Platforms for IoT - Real time Examples of IoT	3	22.08.2022
3	Arduino Uno Architecture - Setup the IDE, Writing Arduino Software - Arduino Libraries	3	23.08.2022
4	Overview of IoT components and IoT Communication Technologies - Challenges in IOT	3	23.08.2022
5	Basics of Embedded C programming for Arduino	3	24.08.2022
6	Interfacing LED, push button and buzzer with Arduino	3	24.08.2022
7	Interfacing Arduino with LCD	3	25.08.2022
8	Overview of Sensors working - Analog and Digital Sensors	3	25.08.2022
9	Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino	3	26.08.2022
10	Interfacing of Actuators with Arduino	3	26.08.2022
<b>Total Periods :</b>		<b>30</b>	

  
VAC Coordinator

  
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DEPARTMENT OF COMPUTER SCENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEM)

STUDENTS PARTICIPATION LIST-VAC PROGRAM

INTERNET OF THINGS WITH PYTHON

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/BRANCH
1.	912621104001	ABINAYA K	II /CSE
2.	912621104002	AMEERA N	II /CSE
3.	912621104003	ANJUGAM C	II /CSE
4.	912621104004	ARUNDATHI S	II /CSE
5.	912621104005	ASHIKA B	II /CSE
6.	912621104006	DIVYA T	II /CSE
7.	912621104007	ELACKIYA G	II /CSE
8.	912621104008	GAYATHRI K	II /CSE
9.	912621104009	GEETHA M	II /CSE
10.	912621104010	HARSHITHA P	II /CSE
11.	912621104011	ISHWARYA S	II /CSE
12.	912621104012	JANANI R	II /CSE
13.	912621104015	LAVANYA S	II /CSE
14.	912621104016	MAHASREE P	II /CSE
15.	912621104018	PRIYA M	II /CSE
16.	912621104019	RABIKA R	II /CSE
17.	912621104021	SAHEENA BEGAM A	II /CSE
18.	912621104022	SASIPRIYA R	II /CSE

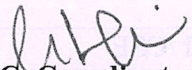
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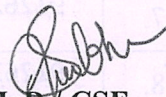
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19.	912621104023	SHAMIMA P	II /CSE
20.	912621104024	SHEERA BANU A	II /CSE
21.	912621104025	SIVAJOTHIKA S	II /CSE
22.	912621104026	SIVAPRIYA R	II /CSE
23.	912621104027	SUBHA DHARSHINI S	II /CSE
24.	912621104028	SUBIKSHA S	II /CSE
25.	912621104029	VINITHA K	II /CSE
26.	912621104030	VISALATCHI S	II /CSE
27.	912621104301	VISHNAVI B	II /CSE
28.	912621104302	VISHNUPRIYA A	II /CSE
29.	912621104701	AARTHI S	II /CSE
30.	912621104702	SWATHI A.R	II /CSE

  
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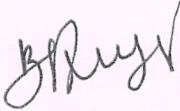
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**KAIKKURUCHI, PUDUKKOTTAI-622 303.**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**ACADEMIC YEAR ODD SEMESTER (2022-2023)**  
**STUDENT NAME LIST FOR VALUE ADDED COURSE**  
**INTERNET OF THINGS WITH PYTHON**

S.NO	NAME	REG.NO	YEAR & SEMESTER
1.	GOKULAPRAVEENA A	912621105001	II & III
2.	SUMITHRA S	912621105004	II & III

  
VAC COORDINATOR

  
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HOD EEE  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

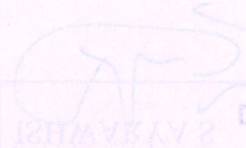
ACADEMIC YEAR 2022-2023 (ODD SEM)

## ATTENDANCE SHEET FOR VALUE ADDED COURSE- INTERNET OF THINGS WITH PYTHON

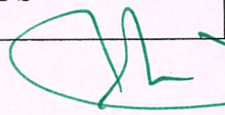
S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	DATE: 22.08.22		DATE: 23.08.22		DATE: 24.08.22		DATE: 25.08.22		DATE: 26.08.22		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1.	912621104001	ABINAYA K	II /CSE	/	/	/	/	/	/	/	/	/	/	10	<i>A. Abinaya</i>
2.	912621104002	AMEERA N	II /CSE	/	/	/	/	/	/	/	/	/	/	10	<i>Ameera</i>
3.	912621104003	ANJUGAM C	II /CSE	/	/	/	/	/	/	/	/	/	/	10	<i>C. Anjugam</i>
4.	912621104004	ARUNDATHI S	II /CSE	/	/	/	/	/	/	/	/	/	/	10	<i>S. Arundathi</i>
5.	912621104005	ASHIKA B	II /CSE	/	/	a	a	/	/	/	/	/	/	08	<i>Ashika</i>
6.	912621104006	DIVYA T	II /CSE	/	/	/	/	/	/	/	/	a	a	08	<i>T. Divya</i>
7.	912621104007	ELACKIYA G	II /CSE	/	/	/	/	/	/	/	/	/	/	10	<i>G. Elackiya</i>
8.	912621104008	GAYATHRI K	II /CSE	/	/	/	/	/	/	/	/	/	/	10	<i>K. Gayathri</i>
9.	912621104009	GEETHA M	II /CSE	/	/	/	/	/	/	/	/	/	/	10	<i>M. Geetha</i>
10.	912621104010	HARSHITHA P	II /CSE	/	/	/	/	/	/	/	/	/	/	10	<i>P. Harshitha</i>
11.	912621104011	ISHWARYA S	II /CSE	/	/	/	/	/	/	/	/	/	/	10	<i>S. Ishwarya</i>

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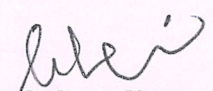
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Kaikkurichi - 622 303, Pudukkottai Dt,

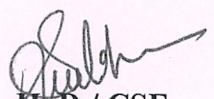



12.	912621104012	JANANI R	II /CSE	/	/	/	/	/	/	/	/	/	/	10	P. Jane
13.	912621104015	LAVANYA S	II /CSE	a	a	/	/	/	/	/	/	/	/	08	S. Lavanya
14.	912621104016	MAHASREE P	II /CSE	/	/	/	/	/	/	/	/	/	/	10	P. Mahasree
15.	912621104018	PRIYA M	II /CSE	/	/	/	/	/	/	/	/	/	/	10	M. Priya
16.	912621104019	RABIKA R	II /CSE	/	/	/	/	/	/	/	/	/	/	10	P. Rakhi
17.	912621104021	SAHEENA BEGAM A	II /CSE	/	/	/	/	/	/	/	/	/	/	10	S. Saheena Begam A
18.	912621104022	SASIPRIYA R	II /CSE	/	/	/	/	/	/	/	/	/	/	10	P. Sasipriya
19.	912621104023	SHAMIMA P	II /CSE	/	/	a	a	/	/	/	/	/	/	08	R. Sasi
20.	912621104024	SHEERA BANU A	II /CSE	/	/	/	/	/	/	/	/	/	/	10	S. Sheera Banu A
21.	912621104025	SIVAJOTHIKA S	II /CSE	/	/	/	/	/	/	/	/	/	/	10	S. Sivajothika S
22.	912621104026	SIVAPRIYA R	II /CSE	/	/	/	/	/	/	/	/	/	/	10	R. Sivasri
23.	912621104027	SUBHA DHARSHINI S	II /CSE	/	/	/	/	/	/	a	a	/	/	08	S. Subha Darshini S
24.	912621104028	SUBIKSHA S	II /CSE	/	/	/	/	/	/	/	/	/	/	10	S. Subiksha S
25.	912621104029	VINITHA K	II /CSE	/	/	/	/	/	/	/	/	/	/	10	R. Vinitha
26.	912621104030	VISALATCHI S	II /CSE	/	/	/	/	/	/	/	/	/	/	10	S. Visalatchi S
27.	912621104301	VISHNAVI B	II /CSE	/	/	/	/	/	/	/	/	/	/	10	P. Vishnavi B
28.	912621104302	VISHNUPRIYA A	II /CSE	/	/	/	/	/	/	/	/	/	/	10	A. Vishnupriya A
29.	912621104701	AARTHI S	II /CSE	/	/	/	/	/	/	/	/	/	/	10	S. Arthi

  
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30.	912621104702	SWATHI A.R	II /CSE	/	/	/	/	/	/	/	/	/	/	/	10	SwathiAR
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**VAC Coordinator**

  
**HOD / CSE**  
**HOD / CSE**  
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**COLLEGE FOR WOMEN**  
**KAIKKURICHI,**  
**PUDUKKOTTAI - 622 303**

  
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KAIKKURICHI, PUDUKKOTTAI-622 303

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR ODD SEMESTER (2022-2023)

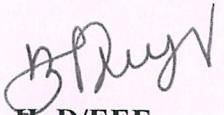
ATTENDANCE SHEET FOR VALUE ADDED COURSE

INTERNET OF THINGS WITH PYTHON

S.NO	REG. NO	NAME	YEAR/ SEM	22.08.22		23.08.22		24.08.22		25.08.22		26.08.22		NO. OF CLASS ATTENDED	SIGN OF STUDENT
				F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N		
1	912621105001	GOKULAPRAVEENA A	II&III	/	/	/	/	/	/	/	/	/	/	10	A.Gokul.
2	912621105004	SUMITHRA S	II&III	/	/	/	/	/	/	/	/	/	/	10	S.Sumy.

  
VAC COORDINATOR

  
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COLLEGE FOR WOMEN  
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HOD EEE  
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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## Report on Value Added Course

Title:	INTERNET OF THINGS WITH PYTHON				
Resource Person:	Mr.M.Kamalakann Trainer Galwin Technology				
Date of conduct from :	22.08.2022	To:	26.08.2022	Duration:	30 Hours
Organized Department :	COMPUTER SCIENCE AND ENGINEERING				
Participant Year:	2	Semester:	ODD	No. of Students Registered :	32 [CSE-30 ,EEE-02]
Venue:	Auditorium				

### Outcome of Value Added Course (VAC)

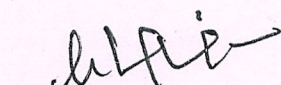
At the end of the VAC course the student can able to

- Explain fundamentals about IoT.
- Illustration of IoT Access technologies.
- Design methodology and different IoT hardware platforms.
- Identify with the application areas of IOT.
- Realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks.
- Describe the building blocks of Internet of Things and characteristics.

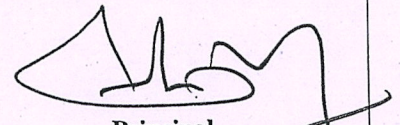
No. of students successfully completed the VAC course is 32 students based on the following assessment process.

### Assessment Process

Students, who are securing **more than 60% on total score** and secured more than **75%** in attendance is eligible to receive the certificate for the VAC course conducted. Total Score =  $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$

  
VAC Coordinator

  
HOD / CSE

  
Principal

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*Certificate of completion*

**VALUE ADDED PROGRAM**

This is to Certify that Mr/Ms. AARTHI.S of II CSE has successfully completed Value Added Course on "Internet of Things with Python" organized by the Department of Computer Science And Engineering in association with Galwin Technology from 22.08.2022 to 26.08.2022 during the academic year 2022-2023 [5 Days].

**Managing Director**  
Galwin Technology

**HoD/CSE**  
SBECW

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SBECW

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*Certificate of completion*

**VALUE ADDED PROGRAM**

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Galwin Technology

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*Certificate of completion*

**VALUE ADDED PROGRAM**

This is to certify that Ms. GOKULAPRAVEENA A of II EEE has successfully completed Value Added Course on "INTERNET OF THINGS WITH PYTHON" organized by the Department of Computer Science and Engineering in association with Galwin Technology from 22.08.2022 to 26.08.2022 during the academic year 2022-2023 [5 Days].

Managing Director  
Galwin Technology

HoD/CSE  
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SBECW

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Name of the Student :

Year/Sem:

AU Register Number:

Value Added Course on “Internet of Things With Python”

## MCQ QUESTIONS ( 25X1 = 25 Marks)

- Which of the following is false about IoT devices?
  - IoT devices use the internet for collecting and sharing data
  - IoT devices need microcontrollers
  - IoT devices use wireless technology
  - IoT devices are completely safe
- Which of the following is not an IoT platform?
  - Amazon Web Services
  - Microsoft Azure
  - Salesforce
  - Flipkart
- Which of the following is not an application of IoT?
  - BMP280
  - Smart home
  - Smart city
  - Self-driven cars
- Which of the following is not a fundamental component of an IoT system?
  - Sensors
  - Connectivity and data processing
  - User interface
  - Transformer
- Which layer is used for wireless connection in IoT devices?
  - Application layer
  - Network layer
  - Data link layer
  - Transport layer
- Which of the following is false about the IoT components?
  - A light sensor (photoresistor) is an analog sensor
  - A microphone is a digital sensor
  - A push button is a digital sensor
  - A keyboard is a digital sensor
- Which of the following is used to capture data from the physical world in IoT devices?
  - Sensors
  - Actuators
  - Microprocessors
  - Microcontrollers
- Which of the following command is used to trigger the Amazon echo IOT device?
  - Hello
  - Suri
  - Alexa
  - Hey

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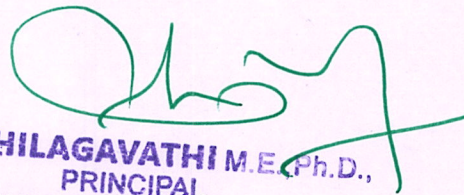
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9. Which of the following is false about the MANET IoT network?
- It is a self-configuring network
  - It has a low data rate
  - It doesn't have any encryption
  - Power is readily available for complex security
10. Which of the following is not a sensor in IoT?
- BMP280
  - DHT11
  - Photoresistor
  - LED
11. Which of the following is not an actuator in IoT?
- Stepper motor
  - A fan
  - An LED
  - Arduino
12. What is the use of PWM signals in IoT development boards?
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  - They are used by sensors to have digital input
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  - They are used by actuators to have digital input
13. Which of the following is used to reprogram a Bootloader in IoT devices?
- VHDL programming
  - IDE
  - ICSP
  - MANET
14. Which of the following is true about Arduino IoT devices?
- They are open-source software
  - They can only read analog inputs
  - They have their own operating systems
  - They don't have pre-programmed firmware
15. How many number of elements in the Open IoT Architecture?
- 3 elements
  - 7 elements
  - 8 elements
  - 6 elements
16. IoT-A stands for \_\_\_\_\_
- Internet of Things Area
  - Industrial of things Architecture
  - Internet of Things Address
  - Internet of Things Architecture
17. Which of the following is not a feature of the Raspberry PI model B IoT device?
- It has 256 MB SDRAM
  - It has a single USB connector
  - It has its own operating system
  - It has an Ethernet port
18. Which of the following processor is used in the Raspberry PI 3 IoT device?
- Broadcom BCM2711
  - Broadcom BCM2837
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  - Intel 8085
19. Which library is used to access I2C in Arduino IoT devices?
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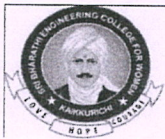
  
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20. Which of the following is not related to Arduino IDE IoT software?  
a) Serial monitor  
b) Verify  
c) Upload  
d) Terminate
21. Which of the following is a complete line of home IoT devices that include smart switches?  
a) Belkin's WeMo  
b) Cinder  
c) Awair  
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22. IoT gateway must provide \_\_\_\_\_  
a) Protocol abstraction  
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23. What IoT collects?  
a) Device data  
b) Machine generated data  
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24. Which of the following protocol is used to link all the devices in the IoT?  
a) HTTP  
b) UDP  
c) Network  
d) TCP/IP
25. Which service permits the changes to the IoT services?  
a) Update  
b) Registered service status  
c) Enable from suspension  
d) Enable



VAC Coordinator

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Value Added Course on “Internet of Things With Python”

## ANSWER KEY

1	d	6	b	11	d	16	d	21	a
2	d	7	a	12	c	17	a	22	a
3	a	8	c	13	c	18	b	23	b
4	d	9	d	14	a	19	b	24	d
5	c	10	d	15	b	20	d	25	a

  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Name of the Student : G. Easwarya Year/Sem: II / 03

AU Register Number: 912621104007

Value Added Course on “Internet of Things With Python”

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- 24/25
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24. Which of the following protocol is used to link all the devices in the IoT?

- a) HTTP
- b) UDP
- c) Network
- d) TCP/IP

25. Which service permits the changes to the IoT services?

- a) Update
- b) Registered service status
- c) Enable from suspension
- d) Enable

  
VAC Coordinator

  
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# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEM)

MARK SHEET FOR VALUE ADDED COURSE- INTERNET OF THINGS WITH PYTHON

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	ATTENDANCE DETAILS		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No of Sessions Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	912621104001	ABINAYA K	II /CSE	10	100	22	88	94
2	912621104002	AMEERA N	II /CSE	10	100	23	92	96
3	912621104003	ANJUGAM C	II /CSE	10	100	21	84	92
4	912621104004	ARUNDATHI S	II /CSE	10	100	19	76	88
5	912621104005	ASHIKA B	II /CSE	8	80	20	80	80
6	912621104006	DIVYA T	II /CSE	8	80	21	84	82
7	912621104007	ELACKIYA G	II /CSE	10	100	24	96	98

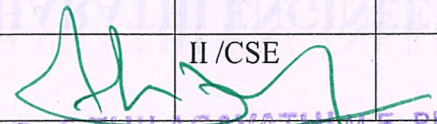
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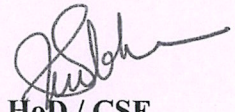
8	912621104008	GAYATHRI K	II /CSE	10	100	21	84	92
9	912621104009	GEETHA M	II /CSE	10	100	22	88	94
10	912621104010	HARSHITHA P	II /CSE	10	100	21	84	92
11	912621104011	ISHWARYA S	II /CSE	10	100	23	92	96
12	912621104012	JANANI R	II /CSE	10	100	24	96	98
13	912621104015	LAVANYA S	II /CSE	8	80	21	84	82
14	912621104016	MAHASREE P	II /CSE	10	100	22	88	94
15	912621104018	PRIYA M	II /CSE	10	100	24	96	98
16	912621104019	RABIKA R	II /CSE	10	100	19	76	88
17	912621104021	SAHEENA BEGAM A	II /CSE	10	100	24	96	98
18	912621104022	SASIPRIYA R	II /CSE	10	100	19	76	88
19	912621104023	SHAMIMA P	II /CSE	8	80	23	92	86
20	912621104024	SHEERA BANU A	II /CSE	10	100	23	92	96
21	912621104025	SIVAJOTHIKA S	II /CSE	10	100	20	80	90

  
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22	912621104026	SIVAPRIYA R	II /CSE	10	100	22	88	94
23	912621104027	SUBHA DHARSHINI S	II /CSE	8	80	23	92	86
24	912621104028	SUBIKSHA S	II /CSE	10	100	21	84	92
25	912621104029	VINITHA K	II /CSE	10	100	19	76	88
26	912621104030	VISALATCHI S	II /CSE	10	100	18	72	86
27	912621104301	VISHNAVI B	II /CSE	10	100	19	76	88
28	912621104302	VISHNUPRIYA A	II /CSE	10	100	21	84	92
29	912621104701	AARTHI S	II /CSE	10	100	18	72	86
30	912621104702	SWATHI A.R	II /CSE	10	100	19	76	88

  
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HoD / CSE  
HOD / CSE  
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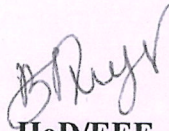
ACADEMIC YEAR ODD SEMESTER (2022-2023)

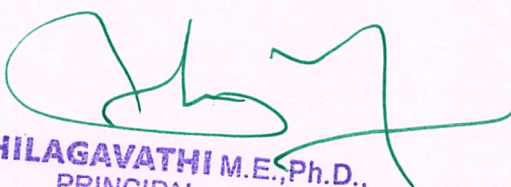
MARK SHEET FOR VALUE ADDED COURSE

INTERNET OF THINGS WITH PYTHON

S.NO	NAME	REG NO.	YEAR/ SEM	ATTENDACE 50% (A)		VAC -MCQ 50%(B)		OVERALL MARK (A+B)
				No of Session Attended	MARKS	No of Correct Answer	MARKS	
1	GOKULAPRAVEENA A	912621105001	II&IV	10	100	22	88	94
2	SUMITHRA S	912621105004	II&IV	10	100	23	92	96

  
VAC COORDINATOR

  
HoD/EEE  
HOD EEE  
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