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

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

Department of Mechatronics Engineering

Value Added Course

on

Internet of Things

22.08.2022 to 27.08.2022 (6 days)

A handwritten signature in blue ink, consisting of stylized initials and a surname.

VAC Coordinator

A handwritten signature in blue ink, consisting of stylized initials and a surname.

HoD/MTRE



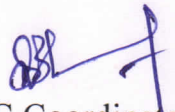
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Department of Mechatronics Engineering

S.No.	Content checklist	Document
1	Academic Year	2022-23 Odd
2	Regulation	KCET R2020
3	Department Name	Mechatronics Engineering
4	Name of the Value-added course	Internet of Things
5	No. of Credits	2
6	Category: Theory/Lab/Hands-on/Skill based etc	Hands-on & Skill based
7	Name and Details of the Joint-organization (industry/NGO etc) if any	Quantanics Techserv Pvt. Ltd., Madurai
8	Resource person details	Mr.A.Kesavan, Director & Mr.V.Ohm Vignesh, Embedded Engineer
9	Three Member Committee details	Dr.K.Kannan HoD/MTRE S.Wesley Moses Samdoss & S.David Blessley AP/MTRE
10	VAC Coordinator Details	S.David Blessley AP/MTRE
11	Duration (30 h mandatory)	42 hours
12	Period (From-To)	22.08.2022 to 27.08.2022
13	Venue	CAD Lab/Mechatronics


VAC Coordinator


HoD/MTRE

A.S. — Bca
18/08/2022
Dean (Academic Courses)

KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY



S.P.G.Chidambara Nadar - C. Nagammal Campus,
S.P.G.C. Nagar, K. Vellakulam - 625 701, Near VIRUDHUNAGAR, Madurai District.
Accredited by NAAC with 'A' Grade

Submitted to the SECRETARY for approval through the PRINCIPAL

Book No.

MTRE

SL No. 77

Date 16.08.2022

- 1) Name of the object / item / service : 6 days value Added course
- 2) Purpose (Replacement / upgradation / New) : on "DOT" for Third year
or (Participation / Presentation) :
or (Service / Renewal / New) :
Mechatronics Engineering students.
- 3) Specifications :
Date : 22.08.2022 to 27.08.2022
- 4) Approx. Value per object / item :
(Min. Quote / Reasons for Higher Quote) :
& Experts from Quantanice
Techserv Pvt. Ltd., Madurai.
- 5) No. of Quotations Received :
- 6) No. / Type of objects /
items / service needed :
- 7) Total Value (incl. tax) :
 $16 \times 1000 = 16,000$ (Including GST)
and Tea & Lunch for Resource
Persons.

Signature of Faculty

HAD 16/08/2022

PRINCIPAL

OFFICE USE

- 1) Budget allotted : Value added Course
- 2) Amount committed / Spent sofar : Rs. 1000/- per hour.
- 3) Balance available :

OM

TREASURER

Secretary



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PAN: AAACQ5974E | GSTIN : 33AAACQ5974E1ZG | CIN: U72900TN2019PTC127723

QUOTATION

Q.No:KCE/Jul/07

Date:27/07/2022

To

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

Dear Sir,

S. No	Description	Unit Cost in Rs	Qty	Total Amount in Rs.
1.	IOT VALUE ADDED COURSE	1000/Head	16	16000
Total cost in Rs.				16,000

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.

Terms and conditions:

1. Validity : 7 Days from the date of quotation
2. GST : 18 % Included

Thanks & Regards

A. Kesavan

A. Kesavan, CEO
QUANTANICS TECHSERV PVT.LTD
+91 8681001680



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

+91 86810 01680, 70108 97188 support@quantanics.in www.quantanics.in



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DEPARTMENT OF MECHATRONICS ENGINEERING
CIRCULAR

Ref: KCET/MTRE/VAC1/ ODD/ 2022 - 23

16.08.2022

The Department of Mechatronics Engineering is organizing Value added course on "Internet of Things" for III-year Mechatronics Engineering Students. The details of the program are as follows:

- Date** : 22.08.2022 to 27.08.2022
Resource Institute : QuantanicsTechserv Pvt. Ltd,
Madurai.
Topic : "Internet of Things"
Relevance to PO : PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11& PO12
Relevance to PSO : PSO1, PSO2
Event Outcome : This program enables the students to enhance knowledge on Internet of Things and apply the same in their academic projects and also to build their career.

Hence all III-year Mechatronics students are instructed to attend the program without fail.


Coordinator


HoD/MTRE

Copy to

1. Department Main Notice Board& Circular File
2. To be read in III Year Class Room. -A
3. To all III MTRE students through their official mail Id
4. All MTRE faculty through their official mail Id
5. IQAC



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Department of Mechatronics Engineering

(Accredited by NBA, New Delhi)

Value Added Course on “Internet of Things”

Course Outcome

To explore knowledge on the concepts of Internet of Things and also to build IoT based applications

IoT Introduction

6 Hours

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

Sensors and Types of Arduino Controller

12 Hours

Temperature sensor to display temperature - ESP 32/ ESP8266 architecture- LED and Switch Control basics using ESP Display Interfacing - 7 segment - LCD display - Keypad.

IoT Protocols and Applications

12 Hours

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.



Internet of Things (IoT)

IoT Introduction

8 Hours

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

Sensors and Types of Arduino Controller

14 Hours

Temperature sensor to display temperature - ESP 32/ ESP8266 architecture- LED and Switch Control basics using ESP Display Interfacing - 7 segment - LCD display - Keypad.

IoT Protocols and Applications

14 Hours

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 MECHATRONICS ENGINEERING
 Minutes of Meeting-BoS -10th November, 2021

4	Dr. N. Manivannan	Mr. N. Manivannan Managing Director, Techland Automation, 196 Dindigul main road, Tiruchirappalli - 620001. info@techland.in Ph:9994304608	Industrialist
5.	Dr. D. Kannadassan	Dr. D. Kannadasan, Associate Professor, Center for Nanotechnology Research, Vellore Institute of Technology, Vellore-600 014 dkannadasan@vit.ac.in Ph:91-9944055243	Alumni

FACULTY OF MECHATRONICS ENGINEERING		MEMBERS
S. No	Name of the Faculty	Designation
1	Dr. K. Kannan	Professor & Head
2	Dr.S.Rajeshbabu	Assistant Professor
3	Mr. G. Sakthivel	Assistant Professor
4	Mr. A. Arul Kumar	Assistant Professor
5	Mr. P. Balasundar	Assistant Professor
6	Mr. S.David Blessley	Assistant Professor
7	Mr. S.Wesley Moses Samdoss	Assistant Professor
8	Mr. A. Ganesan	Assistant Professor

DEPARTMENT OF MECHATRONICS ENGINEERING
Minutes of Meeting-BoS -10th November, 2021

16. Mr. P. Balasundar, AP/MTRE suggested to reduce the topic of Two Stroke and Four Stroke topics from the syllabus.
17. Dr. V. Santhanam suggested to give open Elective papers as a motivating interdisciplinary projects related with our department.
18. Dr. K. Kannan accepted the members request on reducing the Syllabus of Automotive systems.
19. Members suggested open elective papers which help the other students to explore the Mechatronics Engineering.
20. Members suggested to provide a Value Added Course on Real time Applications development using Lab view. Members approved the three member committee constituted to follow up the Value Added Courses.
21. Members suggested providing Online Course in NPTEL Platforms. The student has to pass the NPTEL Course, if fail he need to write some other paper in next semester. Additional internal exam can be given to Online Course.
22. Members suggested the students to undergo the Internship at Research Organizations / Industries.
23. Dr. K. Kannan presented the three member committee for monitoring the Internship and seeking approval from members.
24. Dr. T. Asokan suggested the internship will help the students to get into placement. So the credits may given to the beneficiary of the students.
25. Dr. K. Kannan discussed the problems associated with the admission of Lateral Entry and transfer students as per R2020 Curriculum . So he presented the R2021 First Year Curriculum to the members and seeking their approval.
26. Dr. T. Asokan enquired about the availability of Licensed MATLAB/Labview Softwares. He suggested to Provide the Labview in the upcoming semester instead of II Semester.
27. Members discussed about the starting of new PG Programme in Industrial Automation and Robotics.
28. Dr. K. Kannan presented the Curriculum and credits for PG Programme and seeking approval from members.

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DEPARTMENT OF MECHATRONICS ENGINEERING

Minutes of Meeting-BoS -10th November, 2021

1. The meeting started in online mode in Microsoft Teams platform at 2.00pm.
2. Mr. S.Wesley Moses Samdoss, Asst.Professor /MTRE gave a warm cordial welcome to all the members of the Board of Studies.
3. Dr. K. Kannan presented the Vision and Mission statement of the Department.
4. Dr. K. Kannan disseminated the PEOs & PSOs of the department.
5. Dr.K.Kannan presented the III AC Meeting Points and its recommendations. He also mentioned about the reduction in the intake of the B.E.Mechatronics program from 60 to 30.
6. Dr. T. Asokan enquired about the Existing R2020 guidelines and Proposed Amendment in R2020 Guidelines.
7. Dr.K.Kannan discussed in detail about the R2017 new amendment introduced by Anna University to its affiliated colleges.
8. BoS members approved the minutes of the Special BoS meeting held on 30-09-2021.
9. BoS Members discussed in detail about the R2020 III Year Curriculum and Syllabus and approved it for implementation.
10. Based on the Members suggestions online courses will be offered in VI Semester and VII Semester.
- 11.Dr.T.Asokan suggested giving Professional Elective Papers in continuity. He suggested to ensure that continuity in Professional Elective.
- 12.Dr.K.Kannan presented the curriculum and Syllabus for the open elective courses offered by the Mechatronics Engineering to other programs.
- 13.Members ensured that the open elective papers given by our program must be our core paper and none of other programs doesn't offered by other programs.
- 14.Members clarified about the Prerequisite if any for open elective courses.
- 15.Dr.T.Asokan suggested Automotive systems syllabus looks like a heavy one and asked the department faculty to review the syllabus.

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DEPARTMENT OF MECHATRONICS ENGINEERING
Minutes of Meeting-BoS -10th November, 2021

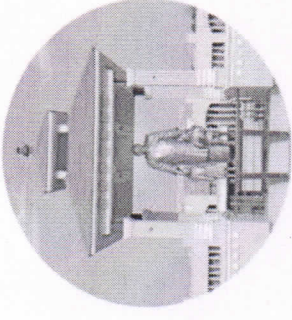
29. Dr. T. Asokan suggested removing Robot Economics from Professional Elective since it is an professional core course.
30. Dr. V. Santhanam suggested to take care on open Elective papers offered by other branches should not be in Core/ Elective Course.
31. Dr. N. Manivannan suggested making the curriculum and syllabus for industry readiness.
32. Mr. A. Arul Kumar proposed the vote of thanks to all the external and internal experts and the meeting adjourned.







Value Added Course Conducted



Name of the Course

: Value Added Course on Internet of Things (IoT)

Course Duration

: 6 days

Conducted dates

: 22.08.2022 – 27.08.2022

No. of Students attended

: 16 students from III Year Mechatronics Engineering

Name of the External Institute

: Quantanics Techserv Pvt. Ltd., Madurai

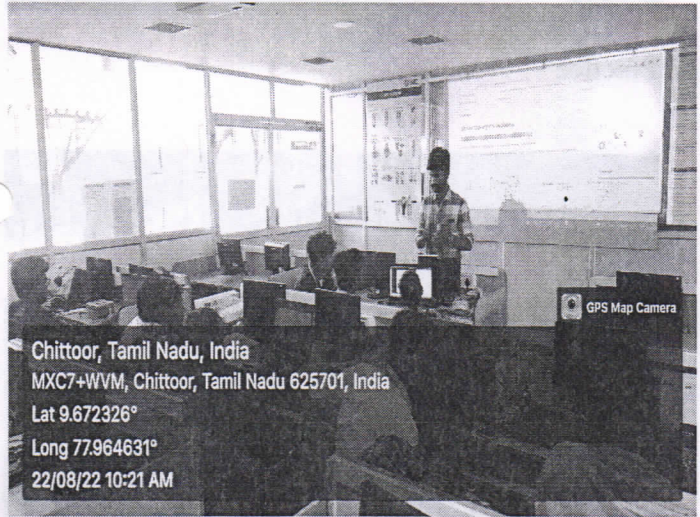
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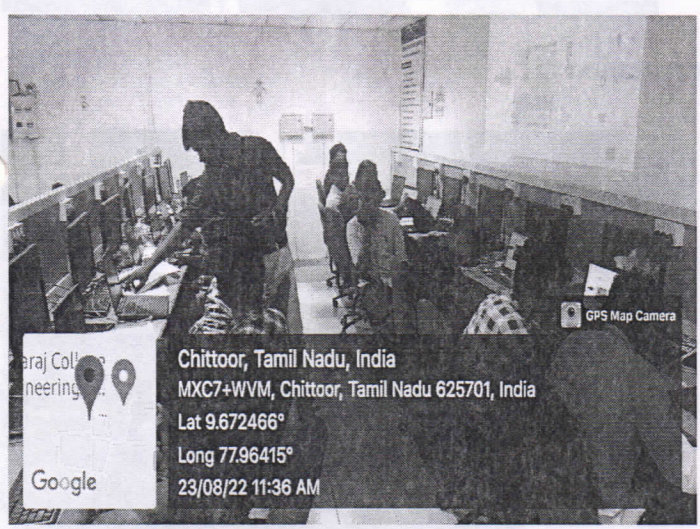
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DEPARTMENT OF MECHATRONICS ENGINEERING (Accredited by NBA, New Delhi)

Value Added Course on Internet of Things (for III year Mechatronics Engineering Students)



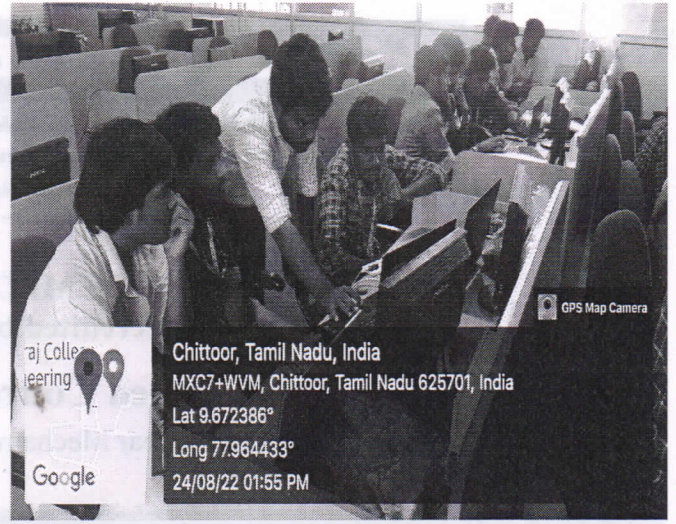
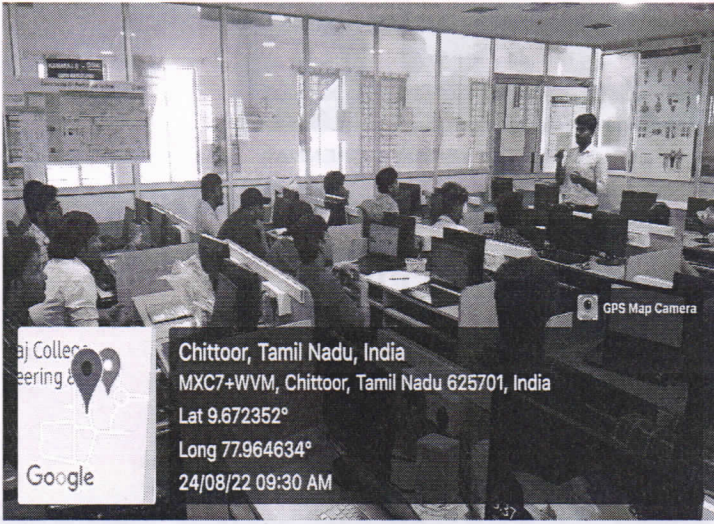
Basics of Internet of Things



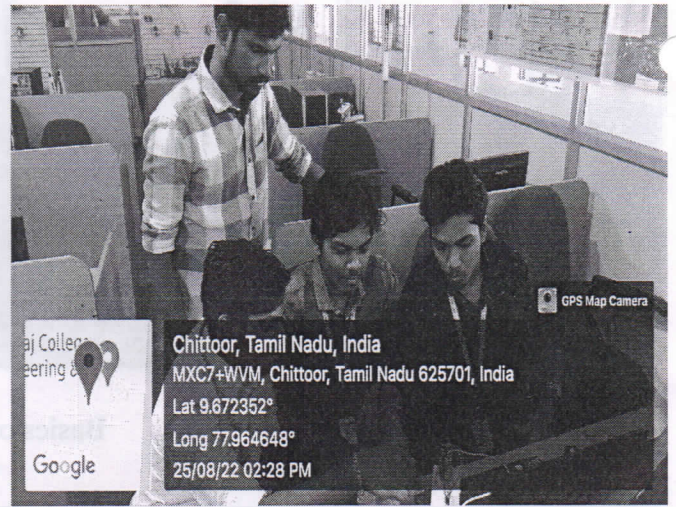
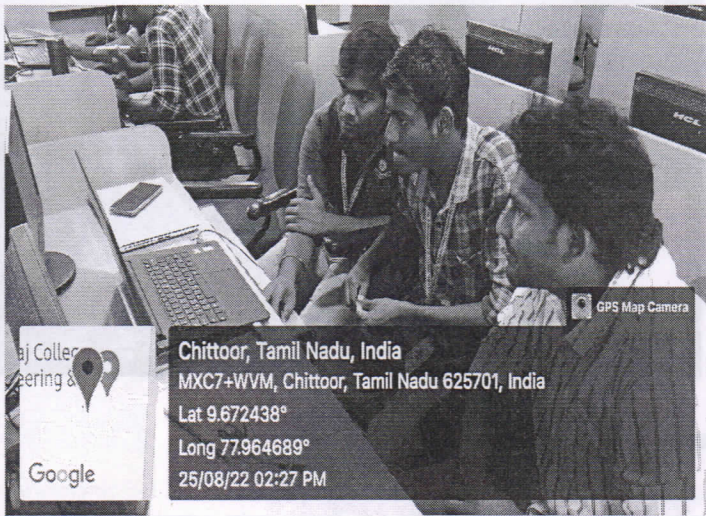
Programming using Arduino controllers

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HOD/MECH

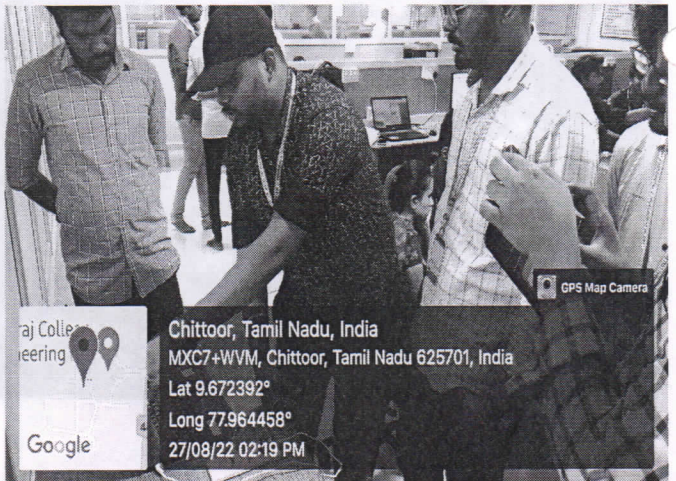
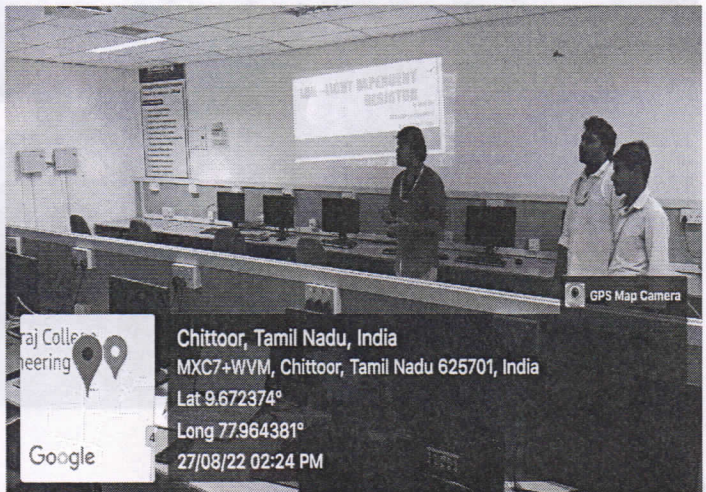
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Co-ordinator




Hands on Practice



Project preparation




Co-Ordinator

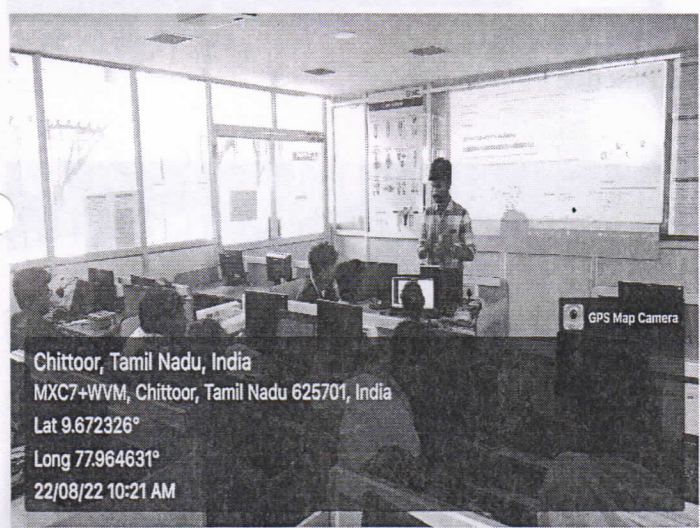

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DEPARTMENT OF MECHATRONICS ENGINEERING (Accredited by NBA, New Delhi)

Value Added Course on Internet of Things (for III year Mechatronics Engineering Students)

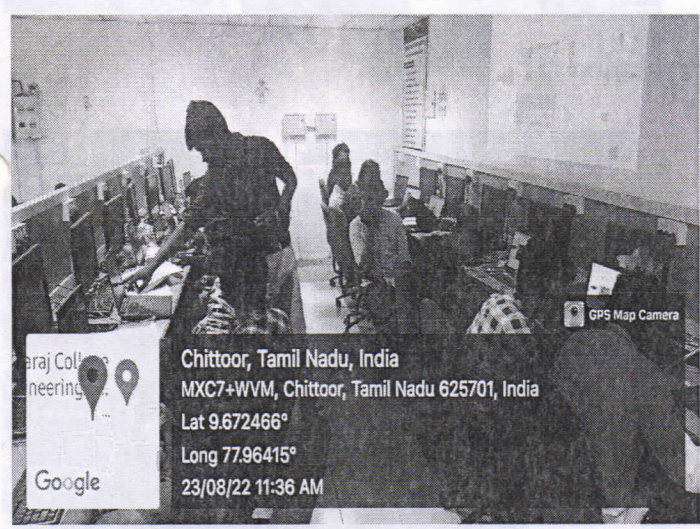


Chittoor, Tamil Nadu, India
MXC7+WVM, Chittoor, Tamil Nadu 625701, India
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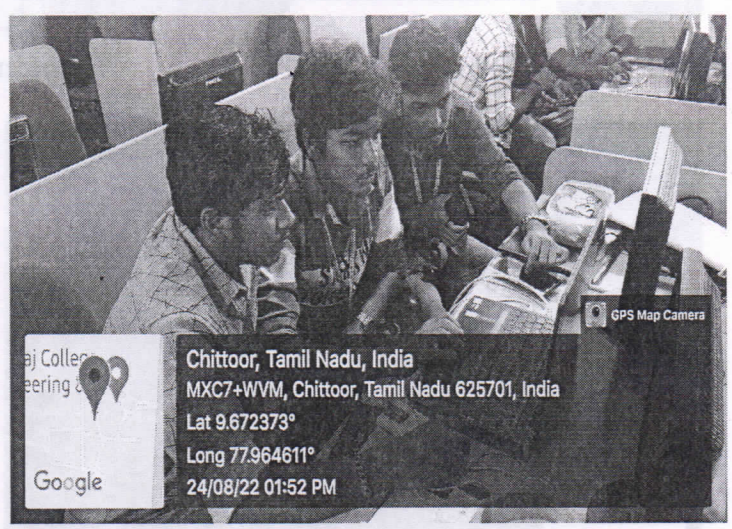


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Basics of Internet of Things



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Long 77.96415°
23/08/22 11:36 AM



Chittoor, Tamil Nadu, India
MXC7+WVM, Chittoor, Tamil Nadu 625701, India
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Programming using Arduino controllers

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HOD/MECH

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Co-ordinator



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Department of Mechatronics Engineering

18.08.2022

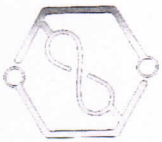
Minutes of Meeting

As per the current needs in industry, we need to provide the Value added course for 2020 – 2024 Batch III year UG candidates in 2022 – 2023 ODD Semester . In connection with this, the three members committee has been constituted to scrutinize the Value-added course evaluation, meeting has been convened on 16-08-2022 (01.00 PM to 02.00 PM) at SMC Centre for Excellence Lab, Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

The three member committee has recommended the Value added course “**Internet of Things**” (2022 – 2023 ODD semester) for 2020 – 2024 Batch

Members List

S. No.	Members	Category	Signature
1	Dr. K.Kannan, Prof & Head/MTRE	Head	
2	Mr.S.Wesley Moses Samdoss AP/MTRE	UG Coordinator	
3	Mr.S.David Blessley AP/MTRE	Assistant Professor	



QUANTANICS TECHSERV PVT LTD
MADURAI-16



VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. R. ESAKKIANAND has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022** to **27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....76.....%

A. Sankaran
DIRECTOR

[Signature]
COORDINATOR

[Signature]
HOD/MECHATRONICS ENGG.



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VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. V.HARISH RAMACHANDRAN has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd, Madurai** from **22.08.2022** to **27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....**80**.....%

A. Senthil
DIRECTOR

[Signature]
COORDINATOR

[Signature]
HOD/MECHATRONICS ENGG.



QUANTANICS TECHSERV PVT LTD
MADURAI-16



VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. P. KRISHNA KUMAR has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022** to **27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....**79**.....%

A. Saravanan
DIRECTOR


COORDINATOR


HOD/MECHATRONICS ENGG.



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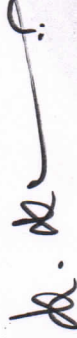
VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. K. HARRISHBABU has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022** to **27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....**91**.....%

A. Benawan
DIRECTOR


COORDINATOR


HOD/MECHATRONICS ENGG.



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VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. R. MANIKANDAN has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022 to 27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....**89**.....%

A. Benawan
DIRECTOR


COORDINATOR



HOD/MECHATRONICS ENGG.



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VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. S. SABARIVASAN has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022** to **27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....**68**.....%

A. Sivanan
DIRECTOR


COORDINATOR


HOD/MECHATRONICS ENGG.



QUANTANICS TECHSERV PVT LTD
MADURAI-16



VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. S. BHUVANESHWARAN has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022** to **27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....**95**.....%

A. Sreenivasan
DIRECTOR


COORDINATOR


HOD/MECHATRONICS ENGG.



QUANTANICS TECHSERV PVT LTD
MADURAI-16



VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. V. ANANDAKRISHNAN has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022** to **27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....**95**.....%

A. Senawan
DIRECTOR


COORDINATOR


HOD/MECHATRONICS ENGG.



QUANTANICS TECHSERV PVT LTD
MADURAI-16



VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. M.E.NAVEEN PRAKASH has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022** to **27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....80.....%

A. S. Sivan
DIRECTOR

[Signature]
COORDINATOR

[Signature]
HOD/MECHATRONICS ENGG.



QUANTANICS TECHSERV PVT LTD
MADURAI-16



VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. R. RAMANAVEL has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022** to **27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....92.....%

A. Sreenivasan
DIRECTOR


COORDINATOR


HOD/MECHATRONICS ENGG.



QUANTANICS TECHSERV PVT LTD
MADURAI-16




VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that **Mr./Ms. K. SAKTHIBALA** has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022** to **27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....**88**.....%

A. Shanwan
DIRECTOR


COORDINATOR


HOD/MECHATRONICS ENGG.



QUANTANICS TECHSERV PVT LTD
MADURAI-16




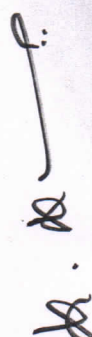
VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. S.KARTHIKEYAN has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022 to 27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....**77**.....%

A. Sivanan
DIRECTOR


COORDINATOR


HOD/MECHATRONICS ENGG.



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VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. C.VEERANAN has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022 to 27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....86.....%

A. Veeranan
DIRECTOR

86
COORDINATOR

A. Veeranan
HOD/MECHATRONICS ENGG.



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MADURAI-16



VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. R. GEMRELTION has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022** to **27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....94.....%

A. Saravanan
DIRECTOR

[Signature]
COORDINATOR

[Signature]

HOD/MECHATRONICS ENGG.



QUANTANICS TECHSERV PVT LTD
MADURAI-16




VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. Gr. RAHUL has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022** to **27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....70.....%

A. S. Sreenivasan
DIRECTOR


COORDINATOR


HOD/MECHATRONICS ENGG.



QUANTANICS TECHSERV PVT LTD
MADURAI-16



VALUE ADDED COURSE COMPLETION CERTIFICATE

This is to certify that Mr./Ms. R. NAVEEN has attended six days Value Added Course on **Internet of Things** offered by **Quantanics TechServ Pvt. Ltd**, Madurai from **22.08.2022** to **27.08.2022** in association with the Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

ASSESSMENT MARKS:.....86.....%


A. Somanathan
DIRECTOR


[Signature]
COORDINATOR

[Signature]
HOD/MECHATRONICS ENGG.

Program Schedule

S.NO	DATE	THEORY/PRACTICAL	DESCRIPTION
1	22.08.22	THEORY	IoT Introduction
2	22.08.22	THEORY	Basics of C Programming
3	22.08.22	THEORY	Arduino IDE
4	22.08.22	PRACTICAL	System Diving deep into C
5	23.08.22	PRACTICAL	LED control using push button
6	23.08.22	PRACTICAL	pointers
7	23.08.22	THEORY	arrays and memory allocation.
8	23.08.22	PRACTICAL	temperature
9	23.08.22	THEORY	ESP 32/ ESP8266 architecture
10	23.08.22	PRACTICAL	using ESP Display Interfacing
11	24.08.22	PRACTICAL	7 segment
12	24.08.22	PRACTICAL	LCD display
13	24.08.22	PRACTICAL	Keypad.
14	24.08.22	PRACTICAL	control
15	24.08.22	THEORY	USART
16	24.08.22	THEORY	USART Communication Timer
17	25.08.22	THEORY	Counter Clock
18	25.08.22	PRACTICAL	PWM, PWM Example
19	25.08.22	THEORY	data
20	25.08.22	THEORY	Microcontroller EEPROM
21	26.08.22	PRACTICAL	EEPROM,
22	26.08.22	PRACTICAL	I2C
23	26.08.22	PRACTICAL	RTC time from RTC , NTP
24	26.08.22	THEORY	NODEMCU-IOT,Raspberry pi,
25	26.08.22	PRACTICAL	NVIDIA Jetson Nano
26	26.08.22	THEORY	Temperature & Humidity ,PIR
27	26.08.22	PRACTICAL	CLOUD – MQTT
28	26.08.22	PRACTICAL	Home automation - Robot control.
29	27.08.22	Project Presentation	Project GSM ,GPS GSM, GPS data
30	27.08.22	Test (MCQ)	11.00 am to 2.00 p.m 2.15 pm to 3.45 pm


VAC Coordinator


HoD/MTRE

IoT Assessment

davidblessley.s@gmail.com Switch account



* Required

Email *

Your email

Name *

Your answer

Roll No. *

Your answer

Mention title of project you have done *

Your answer

VIDEO LINK *

Your answer

What is sketch in Arduino? *

1 point

- Drawing
- Paint
- Code
- None of the above

What are the software structure functions? *

1 point

- Setup() and Loop()
- Void main ()
- Class () and Void main()
- None of the above

Full form of MQTT? *

1 point

- Message Queuing Telemetry Transport Protocol
- Metadata Que Transport Telementary
- Markup Quality Transverse Transport
- None of the above

Which is not a protocol? *

1 point

- SPI
- I2C
- PWM
- UART

IoT use which medium? *

1 point

- Internet
- BLE
- LORA
- None of the above

Which is not a component of IoT? * 1 point

- Sensors
- Connectivity
- Data Processing
- None of the above

Which is not a IoT board? * 1 point

- ESP32
- ESP8266
- arduino UNO
- None of the above

What language is a typical Arduino code based on? * 1 point

- Assembly Code
- Java
- CPP
- Python

What language is the Arduino IDE built on? * 1 point

- CPP
- Java
- Python
- HTML

What is the correct execution process of an Arduino code? * 1 point

- Editor->Preprocessor->Compiler
- Preprocessor->Editor->Compiler
- Compiler->Preprocessor->Editor
- All the above

What is the operating voltage of ESP8266? * 1 point

- 3.3V
- 5V
- 9V
- All the above

How many times does the setup() function run on every startup of the Arduino System? * 1 point

- 1
- 2
- 3
- 4

What is the use of the ESP8266 WiFi Module? * 1 point

- Network Provider
- Switches circuits
- Evaluates air pressure
- None of the above

GPIO Stands for? * 1 point

- General purpose input output
- General purpose integrated output
- General purpose intra output
- None of the above

Which is not a datatype? * 1 point

- Int
- Float
- Pinmode
- Long

Sensors convert signals from analog to _____ domain. * 1 point

- electrical
- Digital
- Mechanical
- Both a and b

What is the full form of PWM? * 1 point

- Pin Wide Modulation
- Pulse Waveform Modulation
- Pulse Width Modulation
- Pulse Wave Modulation

Handwritten notes in blue ink, including "HARDWARE" and some symbols.

Handwritten notes in blue ink, including a diagram of a triangle with a vertical line and the text "VCC connected".



Arduino Codes are referred to as _____ in the Arduino IDE. * 1 point

- a) sketches
- b) drawings
- c) links
- d) notes

What is the use of the Vin pin present on some Arduino Boards? * 1 point

- a) To ground the Arduino Board
- b) To power the Arduino Board
- c) To provide a 5V output
- d) Is used for plugging in 3V supply

What is the microcontroller used in Arduino UNO? * 1 point

- a) ATmega32114
- b) AT91SAM3x8E
- c) ATmega2560
- d) ATmega328p

A copy of your responses will be emailed to the address you provided.

Submit


Clear form

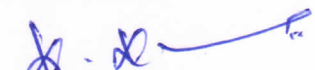
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Google Forms


VAC coordinator


HOD/MTRE



6. What are the software structure functions? *

1 point

Mark only one oval.

- Setup() and Loop()
- Void main ()
- Class () and Void main()
- None of the above

7. Full form of MQTT? *

1 point

Mark only one oval.

- Message Queuing Telemetry Transport Protocol
- Metadata Que Transport Telementary
- Markup Quality Transverse Transport
- None of the above

8. Which is not a protocol *

1 point

Mark only one oval.

- SPI
- I2C
- PWM
- UART

IoT Assessment

* Required

1. Name *

2. Roll No. *

3. Mention title of project you have done *

4. VIDEO LINK *

5. What is sketch in Arduino? *

1 point

Mark only one oval.

Drawing

Paint

Code

None of the above

9. IoT use which medium? *

1 point

Mark only one oval.

- Internet
- BLE
- LORA
- None of the above

10. Which is not a component of IoT? *

1 point

Mark only one oval.

- Sensors
- Connectivity
- Data Processing
- None of the above

11. Which is not a IoT board? *

1 point

Mark only one oval.

- ESP32
- ESP8266
- arduino UNO
- None of the above

12. What language is a typical Arduino code based on? *

1 point

Mark only one oval.

- Assembly Code
- Java
- CPP
- Python

13. What language is the Arduino IDE built on? *

1 point

Mark only one oval.

- CPP
- Java
- Python
- HTML

14. What is the correct execution process of an Arduino code? *

1 point

Mark only one oval.

- Editor->Preprocessor->Compiler
- Preprocessor->Editor->Compiler
- Compiler->Preprocessor->Editor
- All the above

15. What is the operating voltage of ESP8266? *

1 point

Mark only one oval.

- 3.3V
- 5V
- 9V
- All the above

16. How many times does the setup() function run on every startup of the Arduino System? * 1 point

Mark only one oval.

- 1
 2
 3
 4

17. What is the use of the ESP8266 WiFi Module? *

1 point

Mark only one oval.

- Network Provider
 Switches circuits
 Evaluates air pressure
 None of the above

18. GPIO Stands for? *

1 point

Mark only one oval.

- General purpose input output
 General purpose integrated output
 General purpose intra output
 None of the above

19. Which is not a datatype? * 1 point

Mark only one oval.

- Int
- Float
- Pinmode
- Long

20. Sensors convert signals from analog to _____ domain. * 1 point

Mark only one oval.

- electrical
- Digital
- Mechanical
- Both a and b

21. What is the full form of PWM? * 1 point

Mark only one oval.

- Pin Wide Modulation
- Pulse Waveform Modulation
- Pulse Width Modulation
- Pulse Wave Modulation

22. Arduino Codes are referred to as _____ in the Arduino IDE. * 1 point

Mark only one oval.

- a) sketches
- b) drawings
- c) links
- d) notes

23. What is the use of the Vin pin present on some Arduino Boards? * 1 point

Mark only one oval.

- a) To ground the Arduino Board
- b) To power the Arduino Board
- c) To provide a 5V output
- d) Is used for plugging in 3V supply


24. What is the microcontroller used in Arduino UNO? * 1 point

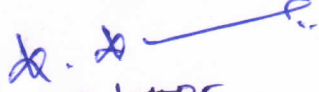
Mark only one oval.

- a) ATmega32114
- b) AT91SAM3x8E
- c) ATmega2560
- d) ATmega328p

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VAC coordinator


HOD / MTRE

(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 MECHATRONICS ENGINEERING

Attendance Sheet

Value Added Course on "Internet of Things"-22.08.2022 (Day 1)

S.No.	Roll Number	Name	Signature		
			Session I (9.00-10.30)	Session II (11.00-12.40)	Session III (01.30-04.00)
1	20UMT001	R.NAVEEN	<i>R. Naveen</i>	<i>R. Naveen</i>	<i>R. Naveen</i>
2	20UMT002	G.RAHUL	<i>G. Rahul</i>	<i>G. Rahul</i>	<i>G. Rahul</i>
3	20UMT003	R.GEMRELTON	<i>R. Gemrelton</i>	<i>R. Gemrelton</i>	<i>R. Gemrelton</i>
4	20UMT004	C.VEERANAN	<i>C. Veeranan</i>	<i>C. Veeranan</i>	<i>C. Veeranan</i>
5	20UMT005	S.KARTHIKEYAN	<i>S. Karthikeyan</i>	<i>S. Karthikeyan</i>	<i>S. Karthikeyan</i>
6	20UMT006	K.SAKTHIBALA	<i>K. Sakthibala</i>	<i>K. Sakthibala</i>	<i>K. Sakthibala</i>
7	20UMT007	R.RAMANAVEL	<i>R. Ramanavel</i>	<i>R. Ramanavel</i>	<i>R. Ramanavel</i>
8	20UMT008	M.E.NAVEENPRAKASH	<i>M. E. Naveenprakash</i>	<i>M. E. Naveenprakash</i>	<i>M. E. Naveenprakash</i>
9	20UMT009	V.ANANDAKRISHNAN	<i>V. Anandakrishnan</i>	<i>V. Anandakrishnan</i>	<i>V. Anandakrishnan</i>
10	20UMT010	S.BHUVANESHWARAN	<i>S. Bhuvaneshwaran</i>	<i>S. Bhuvaneshwaran</i>	<i>S. Bhuvaneshwaran</i>
11	20UMT011	S.SABARIVASAN	<i>S. Sabarivasan</i>	<i>S. Sabarivasan</i>	<i>S. Sabarivasan</i>
12	20UMT012	R.MANIKANDAN	<i>R. Manikandan</i>	<i>R. Manikandan</i>	<i>R. Manikandan</i>
13	20UMT013	K.HARRISHBABU	<i>K. Harrishbabu</i>	<i>K. Harrishbabu</i>	<i>K. Harrishbabu</i>
14	20UMT014	P. KRISHNA KUMAR	<i>P. Krishna Kumar</i>	<i>P. Krishna Kumar</i>	<i>P. Krishna Kumar</i>
15	20UMT015	V.HARISH RAMACHANDRAN	<i>V. Harish Ramachandran</i>	<i>V. Harish Ramachandran</i>	<i>V. Harish Ramachandran</i>
16	20UMT016	R.ESAKKIANAND	<i>R. Esakkianand</i>	<i>R. Esakkianand</i>	<i>R. Esakkianand</i>

[Signature]
22/8/22
Coordinator

[Signature]
22/08/22
HoD/MTRE

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S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF MECHATRONICS ENGINEERING

Attendance Sheet

Value Added Course on "Internet of Things"-23.08.2022 (Day 2)

S.No.	Roll Number	Name	Signature		
			Session I (9.00-10.30)	Session II (11.00-12.40)	Session III (01.30-04.00)
1	20UMT001	R.NAVEEN			
2	20UMT002	G.RAHUL			
3	20UMT003	R.GEMRELTON			
4	20UMT004	C.VEERANAN			
5	20UMT005	S.KARTHIKEYAN			
6	20UMT006	K.SAKTHIBALA			
7	20UMT007	R.RAMANAVEL			
8	20UMT008	M.E.NAVEENPRAKASH			
9	20UMT009	V.ANANDAKRISHNAN			
10	20UMT010	S.BHUVANESHWARAN			
11	20UMT011	S.SABARIVASAN			
12	20UMT012	R.MANIKANDAN			
13	20UMT013	K.HARRISHBABU			
14	20UMT014	P. KRISHNA KUMAR			
15	20UMT015	V.HARISH RAMACHANDRAN			
16	20UMT016	R.ESAKKIANAND			

23/8/22
Coordinator

23/08/22
HoD/MTRE

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

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

DEPARTMENT OF MECHATRONICS ENGINEERING

Attendance Sheet

Value Added Course on "Internet of Things"-24.08.2022 (Day 3)

S.No.	Roll Number	Name	Signature		
			Session I (9.00-10.30)	Session II (11.00-12.40)	Session III (01.30-04.00)
1	20UMT001	R.NAVEEN	<i>R. Naveen</i>	<i>R. Naveen</i>	<i>R. Naveen</i>
2	20UMT002	G.RAHUL	<i>G. Rahul</i>	<i>G. Rahul</i>	<i>G. Rahul</i>
3	20UMT003	R.GEMRELTON	<i>R. Gemrelton</i>	<i>R. Gemrelton</i>	<i>R. Gemrelton</i>
4	20UMT004	C.VEERANAN	<i>C. Veeranan</i>	<i>C. Veeranan</i>	<i>C. Veeranan</i>
5	20UMT005	S.KARTHIKEYAN	<i>S. Karthikeyan</i>	<i>S. Karthikeyan</i>	<i>S. Karthikeyan</i>
6	20UMT006	K.SAKTHIBALA	<i>K. Sakthibala</i>	<i>K. Sakthibala</i>	<i>K. Sakthibala</i>
7	20UMT007	R.RAMANAVEL	<i>R. Ramanavel</i>	<i>R. Ramanavel</i>	<i>R. Ramanavel</i>
8	20UMT008	M.E.NAVEENPRAKASH	<i>M. E. Naveenprakash</i>	<i>M. E. Naveenprakash</i>	<i>M. E. Naveenprakash</i>
9	20UMT009	V.ANANDAKRISHNAN	<i>V. Anandakrishnan</i>	<i>V. Anandakrishnan</i>	<i>V. Anandakrishnan</i>
10	20UMT010	S.BHUVANESHWARAN	<i>S. Bhuvaneshwaran</i>	<i>S. Bhuvaneshwaran</i>	<i>S. Bhuvaneshwaran</i>
11	20UMT011	S.SABARIVASAN	<i>S. Sabarivasan</i>	<i>S. Sabarivasan</i>	<i>S. Sabarivasan</i>
12	20UMT012	R.MANIKANDAN	<i>R. Manikandan</i>	<i>R. Manikandan</i>	<i>R. Manikandan</i>
13	20UMT013	K.HARRISHBABU	<i>K. Harrishbabu</i>	<i>K. Harrishbabu</i>	<i>K. Harrishbabu</i>
14	20UMT014	P. KRISHNA KUMAR	<i>P. Krishna Kumar</i>	<i>P. Krishna Kumar</i>	<i>P. Krishna Kumar</i>
15	20UMT015	V.HARISH RAMACHANDRAN	<i>V. Harish Ramachandran</i>	<i>V. Harish Ramachandran</i>	<i>V. Harish Ramachandran</i>
16	20UMT016	R.ESAKKIANAND	←	AB	→

2A/8/22
Coordinator.

24/08/22
HoD/MTRE

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

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

DEPARTMENT OF MECHATRONICS ENGINEERING

Attendance Sheet

Value Added Course on "Internet of Things"-25.08.2022 (Day 4)

S.No.	Roll Number	Name	Signature		
			Session I (9.00-10.30)	Session II (11.00-12.40)	Session III (01.30-04.00)
1	20UMT001	R.NAVEEN	<i>R.Naveen</i>	<i>R.Naveen</i>	<i>R.Naveen</i>
2	20UMT002	G.RAHUL	<i>G.Rahul</i>	<i>G.Rahul</i>	<i>G.Rahul</i>
3	20UMT003	R.GEMRELTON	<i>R.Gemrelton</i>	<i>R.Gemrelton</i>	<i>R.Gemrelton</i>
4	20UMT004	C.VEEERANAN	<i>C.Veeranan</i>	<i>C.Veeranan</i>	<i>C.Veeranan</i>
5	20UMT005	S.KARTHIKEYAN	<i>S.Karthikeyan</i>	<i>S.Karthikeyan</i>	<i>S.Karthikeyan</i>
6	20UMT006	K.SAKTHIBALA	<i>K.Sakthibala</i>	<i>K.Sakthibala</i>	<i>K.Sakthibala</i>
7	20UMT007	R.RAMANAVEL	<i>R.Ramanavel</i>	<i>R.Ramanavel</i>	<i>R.Ramanavel</i>
8	20UMT008	M.E.NAVEENPRAKASH	<i>M.E.Naveenprakash</i>	<i>M.E.Naveenprakash</i>	<i>M.E.Naveenprakash</i>
9	20UMT009	V.ANANDAKRISHNAN	<i>V.Anandakrishnan</i>	<i>V.Anandakrishnan</i>	<i>V.Anandakrishnan</i>
10	20UMT010	S.BHUVANESHWARAN	<i>S.Bhuvaneshwaran</i>	<i>S.Bhuvaneshwaran</i>	<i>S.Bhuvaneshwaran</i>
11	20UMT011	S.SABARIVASAN	<i>S.Sabarivasan</i>	<i>S.Sabarivasan</i>	<i>S.Sabarivasan</i>
12	20UMT012	R.MANIKANDAN	<i>R.Mani</i>	<i>R.Mani</i>	<i>R.Mani</i>
13	20UMT013	K.HARRISHBABU	<i>K.Harrishbabu</i>	<i>K.Harrishbabu</i>	<i>K.Harrishbabu</i>
14	20UMT014	P. KRISHNA KUMAR	<i>P.Krishna</i>	<i>P.Krishna</i>	<i>P.Krishna</i>
15	20UMT015	V.HARISH RAMACHANDRAN	<i>V.Harish</i>	<i>V.Harish</i>	<i>V.Harish</i>
16	20UMT016	R.ESAKKIANAND	<i>R.Esakkianand</i>	<i>R.Esakkianand</i>	<i>R.Esakkianand</i>

[Signature]
25/8/22
Coordinator

[Signature]
25/8/22
HoD/MTRE

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

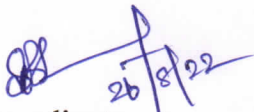
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).


DEPARTMENT OF MECHATRONICS ENGINEERING

Attendance Sheet

Value Added Course on "Internet of Things"-26.08.2022 (Day 5)

S.No.	Roll Number	Name	Signature		
			Session I (9.00-10.30)	Session II (11.00-12.40)	Session III (01.30-04.00)
1	20UMT001	R.NAVEEN	R. Navin	R. NAVIN	R. Navin
2	20UMT002	G.RAHUL	G. Rahul	G. Rahul	G. Rahul
3	20UMT003	R.GEMRELTON	R. Gemrelton	R. Gemrelton	R. Gemrelton
4	20UMT004	C.VEERANAN	C. Veeranan	C. Veeranan	C. Veeranan
5	20UMT005	S.KARTHIKEYAN	S. K	S. K	S. K
6	20UMT006	K.SAKTHIBALA	K. SakthiBala	K. SakthiBala.	K. SakthiBala
7	20UMT007	R.RAMANAVEL	R. Ramanavel	R. Ramanavel	R. Ramanavel
8	20UMT008	M.E.NAVEENPRAKASH	M. E. Naveenprakash	M. E. Naveenprakash	M. E. Naveenprakash
9	20UMT009	V.ANANDAKRISHNAN	V. Anandakrishnan	V. Anandakrishnan	V. Anandakrishnan
10	20UMT010	S.BHUVANESHWARAN	S. Bhuvaneshwaran	S. Bhuvaneshwaran	S. Bhuvaneshwaran
11	20UMT011	S.SABARIVASAN	S. Sabarivasan	S. Sabarivasan	S. Sabarivasan
12	20UMT012	R.MANIKANDAN	R. Manikandan	R. Manikandan	R. Manikandan
13	20UMT013	K.HARRISHBABU	K. Harishbabu	K. Harishbabu	K. Harishbabu
14	20UMT014	P. KRISHNA KUMAR	P. Krishna Kumar	P. Krishna Kumar	P. Krishna Kumar
15	20UMT015	V.HARISH RAMACHANDRAN	V. Harish Ramachandran	V. Harish Ramachandran	V. Harish Ramachandran
16	20UMT016	R.ESAKKIANAND	R. Esakkianand	R. Esakkianand	R. Esakkianand


26/8/22
Coordinator


26/08/22
HoD/MTRE

(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 MECHATRONICS ENGINEERING

Attendance Sheet

Value Added Course on "Internet of Things"-27.08.2022 (Day 6)

S.No.	Roll Number	Name	Signature		
			Session I (9.00-10.30)	Session II (11.00-12.40)	Session III (01.30-04.00)
1	20UMT001	R.NAVEEN	R. Navir	R. Navir	R. Navir
2	20UMT002	G.RAHUL	G. Rah	G. Rah	G. Rah
3	20UMT003	R.GEMRELTON	R. Gemrelton	R. Gemrelton	R. Gemrelton
4	20UMT004	C.VEERANAN	C. Veeranan	C. Veeranan	C. Veeranan
5	20UMT005	S.KARTHIKEYAN	S. Karthikeyan	S. Karthikeyan	S. Karthikeyan
6	20UMT006	K.SAKTHIBALA	K. Sakthibala	K. Sakthibala	K. Sakthibala
7	20UMT007	R.RAMANAVEL	R. Ramanavel	R. Ramanavel	R. Ramanavel
8	20UMT008	M.E.NAVEENPRAKASH	M.E. Naveenprakash	M.E. Naveenprakash	M.E. Naveenprakash
9	20UMT009	V.ANANDAKRISHNAN	V. Anandakrishnan	V. Anandakrishnan	V. Anandakrishnan
10	20UMT010	S.BHUVANESHWARAN	S. Bhuvaneshwaran	S. Bhuvaneshwaran	S. Bhuvaneshwaran
11	20UMT011	S.SABARIVASAN	S. Sabarivasan	S. Sabarivasan	S. Sabarivasan
12	20UMT012	R.MANIKANDAN	R. Manikandan	R. Manikandan	R. Manikandan
13	20UMT013	K.HARRISHBABU	K. Harrishbabu	K. Harrishbabu	K. Harrishbabu
14	20UMT014	P. KRISHNA KUMAR	P. Krishna Kumar	P. Krishna Kumar	P. Krishna Kumar
15	20UMT015	V.HARISH RAMACHANDRAN	V. Harish Ramachandran	V. Harish Ramachandran	V. Harish Ramachandran
16	20UMT016	R.ESAKKIANAND	R. Esakkianand	R. Esakkianand	R. Esakkianand

27/8/22
Coordinator

27/08/22
HoD/MTRE

IoT Assessment

Email *

20umt001@kamarajengg.edu.in

Name *

NAVEEN R

Roll No. *

20UMT001

Mention title of project you have done *

LDR with MQTT protocol

VIDEO LINK *

<https://drive.google.com/file/d/1G6buuG049CB0bAKLh0RmYq3zmD-JfbOI/view?usp=drivesdk>

What is sketch in Arduino? *

1 point

- Drawing
- Paint
- Code
- None of the above

What are the software structure functions? *

1 point

- Setup() and Loop()
- Void main()
- Class() and Void main()
- None of the above

Full form of MQTT? *

1 point

- Message Queuing Telemetry Transport Protocol
- Metadata Que Transport Telementary
- Markup Quality Transverse Transport
- None of the above

Which is not a protocol *

1 point

- SPI
- I2C
- PWM
- UART

- ESP32
- ESP8266
- Arduino Uno
- None of the above

IoT use which medium? *

1 point

- Internet
- BLE
- LORA
- None of the above

- Assembly Code
- Java
- C++
- Python

Which is not a component of IoT? *

1 point

- Sensors
- Connectivity
- Data Processing
- None of the above

- C++
- Java
- Python
- HTML

Which is not a IoT board? *

1 point

- ESP32
- ESP8266
- arduino UNO
- None of the above

What language is a typical Arduino code based on? *

1 point

- Assembly Code
- Java
- CPP
- Python

What language is the Arduino IDE built on? *

1 point

- CPP
- Java
- Python
- HTML

What is the correct execution process of an Arduino code? * 1 point

- Editor->Preprocessor->Compiler
- Preprocessor->Editor->Compiler
- Compiler->Preprocessor->Editor
- All the above

What is the operating voltage of ESP8266? * 1 point

- 3.3V
- 5V
- 9V
- All the above

How many times does the setup() function run on every startup of the Arduino System? * 1 point

- 1
- 2
- 3
- 4

What is the use of the ESP8266 WiFi Module? * 1 point

- Network Provider
- Switches circuits
- Evaluates air pressure
- None of the above

GPIO Stands for? * 1 point

- General purpose input output
- General purpose integrated output
- General purpose intra output
- None of the above

Which is not a datatype? * 1 point

- Int
- Float
- Pinmode
- Long

Sensors convert signals from analog to _____ domain. * 1 point

- electrical
- Digital
- Mechanical
- Both a and b

What is the full form of PWM? * 1 point

- Pin Wide Modulation
- Pulse Waveform Modulation
- Pulse Width Modulation
- Pulse Wave Modulation

Arduino Codes are referred to as _____ in the Arduino IDE. * 1 point

- a) sketches
- b) drawings
- c) links
- d) notes

What is the use of the Vin pin present on some Arduino Boards? * 1 point


- a) To ground the Arduino Board
- b) To power the Arduino Board
- c) To provide a 5V output
- d) Is used for plugging in 3V supply

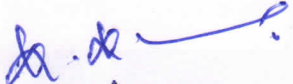
What is the microcontroller used in Arduino UNO? * 1 point

- a) ATmega32114
- b) AT91SAM3x8E
- c) ATmega2560
- d) ATmega328p

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Google Forms


VAC coordinator


HOD / MRE

IoT Assessment

Email *

20umt012@kamarajengg.edu.in

Name *

MANIKANDAN.R

Roll No. *

20UMT012

Mention title of project you have done *

LDR WITH MQTT PROTOCOL

VIDEO LINK *

<https://drive.google.com/file/d/1G6buuG049CB0bAkLh0RmYq3zmD-Jfb0I/view?usp=drivesdk>

What is sketch in Arduino? *

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- LORA
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- Pinmode
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1 point

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- b) To power the Arduino Board
- c) To provide a 5V output
- d) Is used for plugging in 3V supply

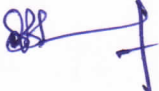
What is the microcontroller used in Arduino UNO? *


1 point

- a) ATmega32114
- b) AT91SAM3x8E
- c) ATmega2560
- d) ATmega328p


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Google Forms


VOC coordinator


HOD / MTR

Timestamp	Email Address	Score	Name	Roll No.	Mention title of project you have done	VIDEO LINK
8-27-2022 12:21:52	20um014@kamarajengg.edu.in	14 / 20	KRISHNA KUMAR P	20um014	Distance detector	https://drive.google.com/file/d/1_a6keUjUxH4JzIF7IvzeiEU80UPac-view?usp=drivesdk
8-27-2022 12:28:14	20um005@kamarajengg.edu.in	13 / 20	KARTHIKEYAN S	20UMT005	RFID Entry System	https://drive.google.com/file/d/1zQXETfR55QbWsvmhznm0qInkxAb7_BO/view?usp=drivesdk
8-27-2022 12:29:31	20um010@kamarajengg.edu.in	19 / 20	BHUVANESHWARAN S	20UMT010	RFID Entry System	https://drive.google.com/file/d/1_a6keUjUxH4JzIF7IvzeiEU80UPac-view?usp=drivesdk
8-27-2022 12:30:30	20um003@kamarajengg.edu.in	19 / 20	GEM RELTON R	20UMT003	DISTANCE DETECTOR	https://drive.google.com/file/d/1_a6keUjUxH4JzIF7IvzeiEU80UPac-view?usp=drivesdk
8-27-2022 12:31:28	20um013@kamarajengg.edu.in	18 / 20	HARRISH BABU . K	20UMT013	MOTION DETECTION USING PIR SENSOR	https://drive.google.com/file/d/1_a6keUjUxH4JzIF7IvzeiEU80UPac-view?usp=drivesdk
8-27-2022 12:33:26	20um016@kamarajengg.edu.in	13 / 20	ESAKKIANAND R	20UMT016	DISTANCE DETECTOR	https://drive.google.com/file/d/1_a6keUjUxH4JzIF7IvzeiEU80UPac-view?usp=drivesdk
8-27-2022 12:33:28	20um015@kamarajengg.edu.in	14 / 20	HARISH RAMACHANDRAN V	20UMT015	RFID entry system	https://drive.google.com/file/d/1G6buuG049CB0bAkLh0RmYq3zmD-_JfBOIvview?usp=drivesdk
8-27-2022 12:39:10	20um012@kamarajengg.edu.in	17 / 20	MANIKANDAN R	20UMT012	LDR WITH MQTT PROTOCOL	https://drive.google.com/file/d/1_a6keUjUxH4JzIF7IvzeiEU80UPac-view?usp=drivesdk
8-27-2022 12:39:52	20um002@kamarajengg.edu.in	11 / 20	RAHUL G	20UMT002	human detection	https://drive.google.com/file/d/1_a6keUjUxH4JzIF7IvzeiEU80UPac-view?usp=drivesdk
8-27-2022 12:40:35	20um007@kamarajengg.edu.in	18 / 20	RAMANAVEL R	20UMT007	Conveyor count using IR sensor	https://drive.google.com/file/d/1-3MM1Tq_IT-imitorWFNSL4bj1_l6XDUzVview?usp=drivesdk
8-27-2022 12:41:36	20um009@kamarajengg.edu.in	19 / 20	ANANDAKRISHNAN V	20UMT009	conveyor count using IR sensor	https://drive.google.com/file/d/1-3MM1Tq_IT-imitorWFNSL4bj1_l6XDUzVview?usp=drivesdk
8-27-2022 12:41:52	20um011@kamarajengg.edu.in	17 / 20	SABARIVASAN S	20UMT011	OBJECT DETECTOR	https://drive.google.com/file/d/1_a6keUjUxH4JzIF7IvzeiEU80UPac-view?usp=drivesdk
8-27-2022 12:42:15	20um001@kamarajengg.edu.in	16 / 20	NAVEEN R	20UMT001	LDR with MQTT protocol	https://drive.google.com/file/d/1G6buuG049CB0bAkLh0RmYq3zmD-_JfBOIvview?usp=drivesdk
8-27-2022 12:43:24	20um004@kamarajengg.edu.in	16 / 20	VEERANAN C	20um004	Conveyor Count using IR sensor	https://drive.google.com/file/d/1-3MM1Tq_IT-imitorWFNSL4bj1_l6XDUzVview?usp=drivesdk
8-27-2022 12:43:58	20um008@kamarajengg.edu.in	14 / 20	NAVEEN PRAKASH M.E.	20UMT008	LDR WITH MQTT PROTOCOL	https://drive.google.com/file/d/1G6buuG049CB0bAkLh0RmYq3zmD-_JfBOIvview?usp=drivesdk
8-27-2022 12:44:08	20UMT006@kamarajengg.edu.in	17 / 20	SAKTHI BALA . K.	20UMT006	Motion detection using PIR sensor	https://drive.google.com/file/d/1SQ8buxn7vrRdnKqKhJ6aepV3y1LMJiQAA/view?usp=drivesdk


VAC coordinator


HOD IITRE

KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY

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

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

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

Mark Statement

Department : Mechatronics Engineering

Regulation : KCET R20

Year : III

Semester : V

S.No.	Roll No.	Reg. No.	Student Name	Internal Marks (60)	External Marks (40)	Total (100)
1	20UMT001	920420UMT001	R.NAVEEN	48	38	86
2	20UMT002	920420UMT002	G.RAHUL	33	37	70
3	20UMT003	920420UMT003	R.GEMRELTON	57	37	94
4	20UMT004	920420UMT004	C.VEERANAN	48	38	86
5	20UMT005	920420UMT005	S.KARTHIKEYAN	39	38	77
6	20UMT006	920420UMT006	K.SAKTHIBALA	51	37	88
7	20UMT007	920420UMT007	R.RAMANAVEL	54	38	92
8	20UMT008	920420UMT008	M.E.NAVEENPRAKASH	42	38	80
9	20UMT009	920420UMT009	V.ANANDAKRISHNAN	57	38	95
10	20UMT010	920420UMT010	S.BHUVANESHWARAN	57	38	95
11	20UMT011	920420UMT011	S.SABARIVASAN	51	37	88
12	20UMT012	920420UMT012	R.MANIKANDAN	51	38	89
13	20UMT013	920420UMT013	K.HARRISHBABU	54	37	91
14	20UMT014	920420UMT014	P. KRISHNA KUMAR	42	37	79
15	20UMT015	920420UMT015	V.HARISH RAMACHANDRAN	42	38	80
16	20UMT016	920420UMT016	R.ESAKKIANAND	39	37	76

Coordinator

HoD/MTRE

Dean (Academic Courses)

Feedback for 6 days Value Added Course on "Internet of Things "

Date : 22.08.2022 to 27.08.2022

* Required

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

1. Your name *

2. Roll Number *

3. Registration Number *

4. Department *

5. Year *

- II
- III
- IV

6. Were objectives of the Event met? *

- Completely agree
- Strongly agree
- Agree
- Partly agree
- Disagree

7. Was the program sequence well planned? *

- Completely agree
- Strongly agree
- Agree
- Partly agree
- Disagree

8. Were the lectures clear and easy to understand? *

- Completely agree
- strongly agree
- Agree
- Partly agree
- Disagree

9. Whether the instructor encouraged the interaction *

- Completely agree
- Strongly agree
- Agree
- Partly agree
- Disagree

10. The information presented at this event was highly beneficial *

- Completely agree
- Strongly agree
- Agree
- Partly agree
- Disagree

Feedback for 6 days Value Added Course on "Internet of Things "

15

Responses

01:22

Average time to complete

Active

Status

1. Your name

15

Responses

Latest Responses

"GEM RELTON.R"

"K.Sakthi Bala"

"K.Harrish Babu"

3 respondents (20%) answered R for this question.

	KSakthi Bala	Krishna	ANANC
	Ramachandran v	SABARIVASAN S	
Karthikeyan	ESAKKIANAND R	R	Harish
kumar	RAMANA VEL R	Naveen R	KHarrish
	VEERANAN C	P MENAVEEN PRAI	
	S Bhuvaneshwaran		

2. Roll Number

15
Responses

Latest Responses

"20UMT003"
"20UMT006"
"20umt013"

1 respondents (7%) answered 20UMT008 for this question.

20UMT006 20umt011 20umt016 20umt010
20umt013 20umt015 20UMT008 20umt010 20
20UMT007 20umt014 20umt001 20
20UMT008 20UMT007

3. Registration Number

15
Responses

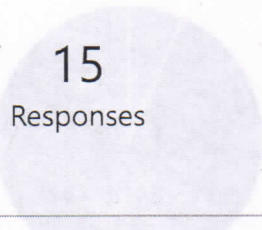
Latest Responses

"920420UMT003"
"920420UMT006"
"920420umt013"

1 respondents (7%) answered 920420UMT008 for this question.

920420umt004 920420UMT012 920420umt011
920420umt015 920420umt011
920420umt014 920420UMT008 920420umt010
920420umt001 920420umt010 920420umt009
920420umt009 920420UMT007 920420umt009

4. Department



Latest Responses

- "Mechatronics Engineering "
- "B.E Mechatronics Engineering"
- "Mechatronics"

5 respondents (33%) answered **Mechatronics engineering** for this question.

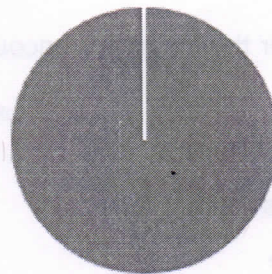
Mechatronics enginee

BE

Mechatronics Engi

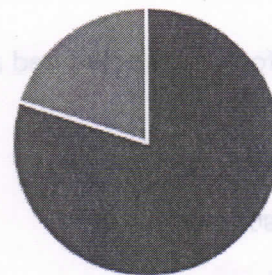
5. Year

- II 0
- III 15
- IV 0



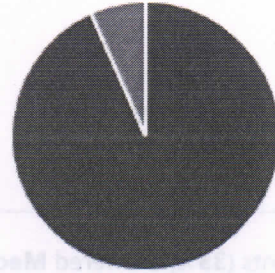
6. Were objectives of the Event met?

- Completely agree 12
- Strongly agree 3
- Agree 0
- Partly agree 0
- Disagree 0



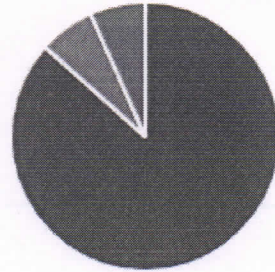
7. Was the program sequence well planned?

- Completely agree 14
- Strongly agree 1
- Agree 0
- Partly agree 0
- Disagree 0



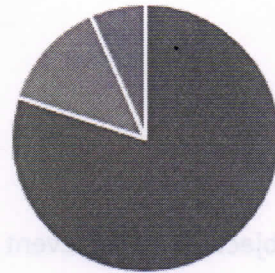
8. Were the lectures clear and easy to understand?

- Completely agree 13
- strongly agree 1
- Agree 1
- Partly agree 0
- Disagree 0



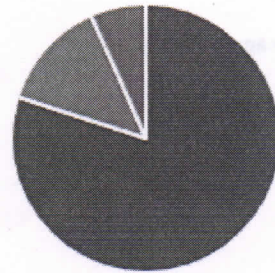
9. Whether the instructor encouraged the interaction

- Completely agree 12
- Strongly agree 2
- Agree 1
- Partly agree 0
- Disagree 0



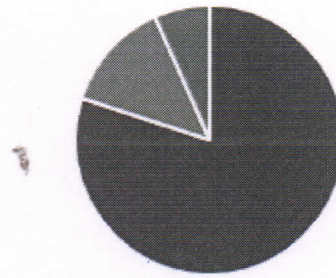
10. The information presented at this event was highly beneficial

- Completely agree 12
- Strongly agree 2
- Agree 1
- Partly agree 0
- Disagree 0



11. Organization of the Event was good

● Completely agree	12
● Strongly agree	2
● Agree	1
● Partly agree	0
● Disagree	0



12. Comments/Suggestions

7
Responses

Latest Responses

"Good"

"Nil"

3 respondents (43%) answered **Good** for this question.

Nil **Good** Use f
No

[Signature]
VAC coordinator

[Signature]
HOD / MITRE



DEPARTMENT OF MECHATRONICS ENGINEERING

(Accredited by NBA, New Delhi)

Report on “Value Added Course on Internet of Things”

29.08.2022

Department of Mechatronics Engineering, Kamaraj College of Engineering & Technology organized 6-day Value added course on “Internet of Things” for III year Mechatronics Engineering students from 22.08.2022 to 27.08.2022. Mr. Kesavan & Mr. Ohm Vignesh from Quantanics Techserv Pvt. Ltd., handled the sessions and trained our students during the entire program. The main purpose of this event is to equip our budding Mechatronics engineers with the knowledge of Industrial automation, home automation, Microcontroller programming through hands on sessions and make them industry ready. The program began with a formal welcome address by Dr.K.Kannan HoD/MTRE. The Trainers provided hands on training on programming using Arduino controllers and integrate them in real time applications.

Topics Covered

1. Basic Electronics Setting up
2. Arrays and Memory
3. ESP 32/ESP8266 Architecture
4. CLOUD-MQTT
5. Home Automation-Robot control
6. Hands on practice using Arduino microcontroller

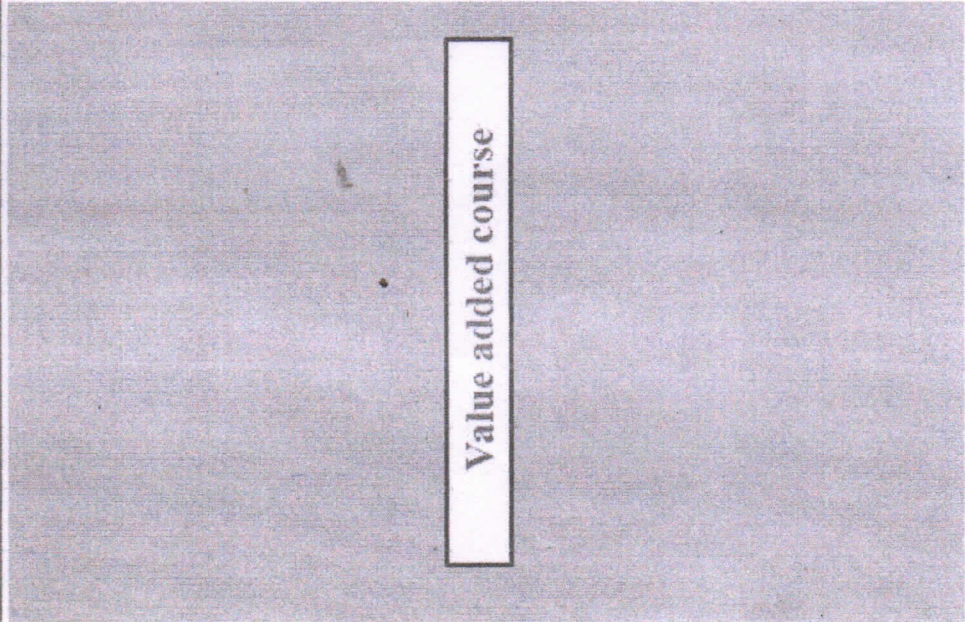
At the end of the course, students presented their projects and an assessment test was conducted to evaluate the performance of the individuals. A total of 16 participants were attended the program. Finally the program ends with a formal vote of thanks by Mr.S.David Blessley.


Co-Ordinator


HoD/MTRE



Discussion and approval of Value added course



Value added course

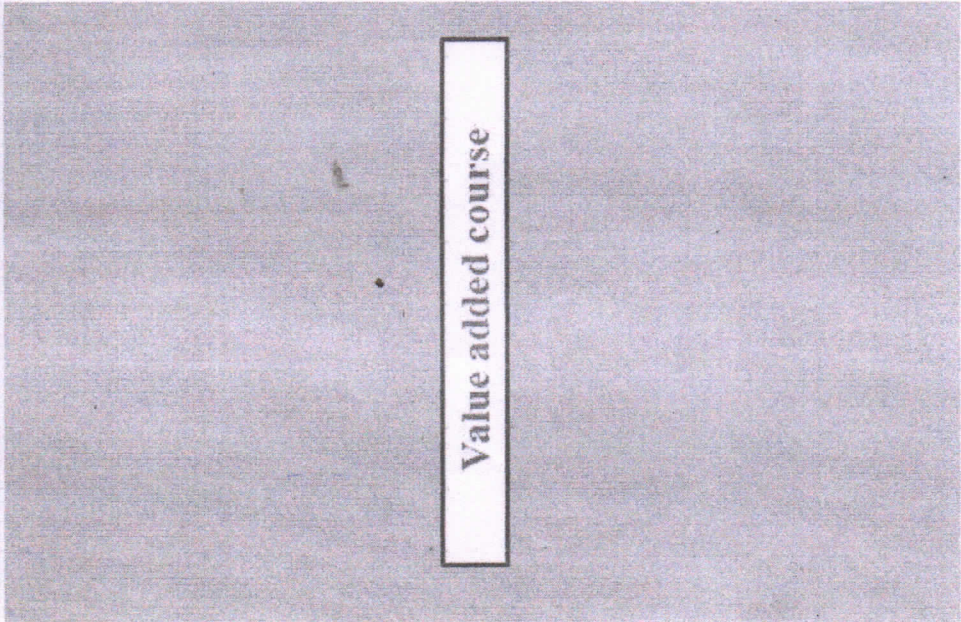
VALUE ADDED COURSE

Three Member Committee

Name	Designation	Capacity
Dr. K. Kannan	Professor	Head of the Department
Mr. S. Wesley Moses Samdoss	Assistant Professor	UG Coordinator
Mr. S. David Blessley	Assistant Professor	Department VAC Coordinator



Discussion and approval of Value added course



Value added course

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