

Capacity Development and skills Enhancement Activity

AWARENESS OF TRENDS IN TECHNOLOGY

INTERNET OF THINGS(Iot)



RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE and Affiliated to Pondicherry University)

(Accredited with 'A' Grade by NAAC)

(Sponsored by Sri Balaji Educational and Charitable Public Trust)

Pondy - Cuddalore Main Road, Kirumampakkam, Puducherry - 607 403.

10 DECEMBER 2020

From
C.A.Aswini,
Event Coordinator,
Department of MCA,
Rajiv Gandhi College of Engineering and Technology,
Kirumampakkam, Puducherry - 607 403.

To
The Principal,
Rajiv Gandhi College of Engineering and Technology,
Kirumampakkam, Puducherry - 607 403.

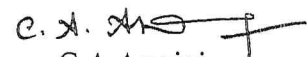
THROUGH THE HEAD OF THE DEPARTMENT, DEPARTMENT OF MCA
Respected Sir,

Sub: - Request for permission to conduct a one-day workshop on Internet of Things (IoT)
Application for MCA Students-reg.

I have planned to conduct a one-day workshop on the topic "Internet of Things (IoT)" on 24/12/2020. I will be the coordinator for conducting the workshop. The aforementioned workshop will be offered to the III and I-year students of the MCA Department. I kindly request you to grant permission to conduct this program.

Thanking you,

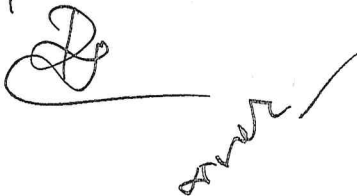
Yours sincerely, ..




C.A.Aswini

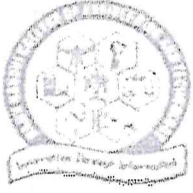
Event Coordinator

Forwarded to
Principal




Dr. E. VISAYAKRISHNA RAPA
B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,
PRINCIPAL
Rajiv Gandhi College of Engineering & Technology
Pondy - Cuddalore Main Road,
Kirumampakkam, Puducherry - 607 402.

Website : www.rgcetpdy.ac.in, www.rgcet.edu.in



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DEPARTMENT OF COMPUTER APPLICATIONS

No: RGCET/MCA//Circular/2020-21/WS01

Date: 17.12.2020

CIRCULAR


I am excited to inform you that a one-day workshop on the topic "INTERNET OF THINGS (IoT)" is going to be conducted on 24/12/2020. The aforementioned WORKSHOP will be offered to the III and I-Year students of the MCA Department.

All are invited


HOD / MCA

Copy to:

1. Circulate to all Faculty Members and MCA students
2. Notice board / file


Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,
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WORKSHOP

Department of Computer Application

RAJIV GANDHI COLLEGE OF
ENGINEERING AND TECHNOLOGY

Cordially Invite you to the
ONE DAY WORKSHOP
ON

"Internet of Things (IOT) Application"

On 24th December 2020 @9.30 A.M In
Seminar Hall, RG CET

Dr.E.VIJAYAKRISHNA RAPA KA
Principal, RG CET
Will offer felicitations

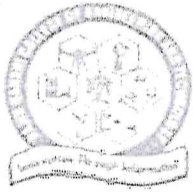
Dr.E.AYYAPPAN
Vice-Principal, RG CET
Will address the function

Dr.S.Udhaya Shree
Assistant Professor (Selection Grade)
Department of CSE, RG CET
Resource Person

ALL ARE WELCOME
BY
HOD, Staffs and Students of MCA

Dr. E. VIJAYAKRISHNA RAPA KA
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M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.I,
PRINCIPAL
Rajiv Gandhi College of Engineering & Technology
Pondy - Cuddalore Main Road

Website : www.rgcefpdy.ac.in, www.rgcel.edu.in



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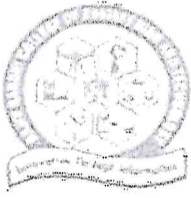
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COURSE DETAILS

Title of the Course	One-Day Workshop on Internet of Things (IoT)
Workshop Name	Internet of Things (IoT)
Workshop Duration	24.12.2020
Workshop Code	MCA20WS01
No. of Registrants	41
Workshop Offered	Year: I, III (MCA) Sem: I & V
Event Coordinator	Mrs. C.A.Aswini, MCA Department, RG CET
RESOURCE PERSONS	Dr. S UDHAYA SHREE,
	Assistant Professor (Selection Grade),
	Department of CSE
	RG CET, Puducherry


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COURSE MODULE

COURSE OBJECTIVES

1. Provide students with a strong foundation in the basic concepts and architecture of the Internet of Things, including its key components, communication models, and protocols.
2. Introduce students to the hardware platforms (e.g., sensors, actuators, microcontrollers) and software tools (e.g., programming environments, cloud platforms) used in IoT development.
3. Equip students with the skills to design and implement end-to-end IoT systems, including data collection, processing, and communication.
4. Teach students methods for analyzing data generated by IoT devices, including data visualization, pattern recognition, and decision-making processes.
5. Develop the ability to analyze test results, identify root causes of defects, and propose improvements to enhance the overall quality of the software product.

COURSE OUTCOMES

By the end of this module, participants will be able to:

1. Clearly articulate the fundamental concepts, architecture, and components of IoT systems.
2. Design and implement IoT solutions using appropriate hardware and software tools.
3. Integrate various IoT technologies to create a functional, secure, and scalable system.
4. Identify and apply security and privacy measures to safeguard IoT systems and data.


Dr. E. VIJAYAKRISHNA RAPAKA
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WORKSHOP SCHEDULE

TIME	SESSION	ACTIVITY
9.30AM TO 10.00 AM	Welcome and Introduction	i) Introduction to Workshop Opening remarks by Mr. R. Senthil Kumar, Head of the Department. ii) Overview of the Internet Things (IoT) Concepts, Development and Deployment
10.00 AM TO 10.30 AM	Introduction to Internet of Things (IoT)	i) Overview of IoT Concepts and Architecture ii) Key Components: Sensors, connectivity, data processing and user interfaces iii) Discussion on the significance and impact of IoT
10.30AM TO 10.45 AM	BREAK	
10.45 AM TO 11.45 AM	IoT Devices and Connectivity	i) Types of IoT devices and their functions ii) Connectivity options: WiFi, Bluetooth, Zigbee and Cellular networks
11.45 PM TO 1.00 PM	Hands-on Workshop	i) Setting up and configuring IoT devices. ii) Introduction to IoT platforms (e.g., Arduino, Raspberry Pi). iii) Basic programming for IoT devices.
1.00 PM TO 2.00 PM	BREAK	
2.00 pm TO 3.00 PM	Data Collection and Processing Activity	i) How IoT devices collect and transmit data. ii) Overview of data processing and storage. iii) Introduction to edge computing and cloud services.
3.00 PM TO 4.00 PM	Q&A Session	i) Open floor for questions and discussions ii) Participants can ask questions and seek advice on specific IoT challenges.


EVENT CO-ORDINATOR


HEAD OF THE DEPARTMENT


Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech. (Energy), Ph.D. (IIT Madras)
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Report On Work Shop

Organized by: Department of Computer Applications.

Date: 24/12/2020

Time: 9.30AM to 4.00PM

Topic: Internet of Things

The programme commenced with the lighting of the Ceremonial lamp by the Dr. S UDHAYA SHREE, Assistant Professor (Selection Grade), Department of CSE, RG CET, Puducherry. Dr.E.Vijaya Krishna Rapaka, Principal, RG CET, Mr. R.Senthil kumar, Head of the Department, MCA, Mrs. C.A.Aswini, Assistant Professor, Dept. of MCA, PREETHI R, III MCA. After Inaugural ceremony, Mr.R.Senthilkumar, conducted a highly interactive session on as Introduction to workshop objectives and overview.

At the end of the workshop, the Valedictory session was held at 3.30 p.m., which was chaired by Dr.E.Vijayakrishna Rapaka, Principal, RG CET and Mrs. C.A.Aswini, Event Co-Ordinator, MCA expressed his trust that the participants would follow the growth and practice of **Internet of Things** Mrs. C.A.Aswini, concluded the workshop with an interactive feedback session with participants and congratulated all the participants and organizers for successful completion.





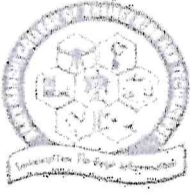
EVENT CO-ORDINATOR





HEAD OF THE DEPARTMENT

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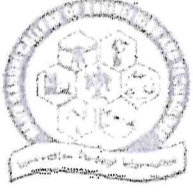
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LIST OF STUDENTS ENROLLEMENT

S.no	Register No	Name of the student	Department	Year/Sem
1	18MCL070	AJITH KUMAR M	MCA	III/V
2	18MCL071	ALEX DAMIYA G	MCA	III/V
3	18MCL072	ARUN S	MCA	III/V
4	18MCL073	ARUNKUMAR A	MCA	III/V
5	18MCL074	BALAJI A	MCA	III/V
6	18MCL075	EVANJALIN REBEKKA M	MCA	III/V
7	18MCL076	GAYATHRI E	MCA	III/V
8	18MCL077	GOKUL M	MCA	III/V
9	18MCL078	JANCY AMALIMARY D	MCA	III/V
10	18MCL079	KEERTHANA E	MCA	III/V
11	18MCL080	KIRUTHIKA S	MCA	III/V
12	18MCL081	MONISHA R	MCA	III/V
13	18MCL082	NIRMAL KAUSHICK S	MCA	III/V
14	18MCL083	PRABAKARAN R	MCA	III/V
15	18MCL084	PREETHI R	MCA	III/V
16	18MCL085	PRIYA DHARSHINI M	MCA	III/V
17	18MCL086	RAJ KUMAR P	MCA	III/V
18	18MCL087	RANJITH RAJ N	MCA	III/V
19	18MCL088	REKHA K	MCA	III/V
20	18MCL089	SANTHOSH G	MCA	III/V
21	18MCL090	SANTHOSH S	MCA	III/V
22	18MCL091	SUGANTHAN N	MCA	III/V
23	18MCL092	SUSHMITHA R	MCA	III/V
24	18MCL093	THAMIZHARASI A	MCA	III/V
25	18MCL094	VIJAYA KUMAR S	MCA	III/V
26	18MCL095	YAMINI K	MCA	III/V

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27	20MCA001	ABINAYA.A	MCA	I/I
28	20MCA002	ASHOKKUMAR.A	MCA	I/I
29	20MCA003	DHAMODARAN.A	MCA	I/I
30	20MCA004	JAYAGANESH.J	MCA	I/I
31	20MCA005	KANNADHASAN.V	MCA	I/I
32	20MCA006	KEERTHANADEVIC	MCA	I/I
33	20MCA007	MARLIYA FIRATHOSE.M.N	MCA	I/I
34	20MCA008	NIRMAL KUMAR.R.M	MCA	I/I
35	20MCA009	NITHYA DEVI.K	MCA	I/I
36	20MCA010	PAVITHRA.T	MCA	I/I
37	20MCA011	PRIYANKA.M	MCA	I/I
38	20MCA012	RAMYA.K	MCA	I/I
39	20MCA013	RANGEETHA.K	MCA	I/I
40	20MCA014	RUBINA FATHIMA.K	MCA	I/I
41	20MCA015	VENGADAPRASATH.K	MCA	I/I

C. N. S. J.

EVENT CO-ORDINATOR

HEAD OF THE DEPARTMENT

Dr. E. VIJAYAKRISHNA RAPAKA

B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
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RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER APPLICATIONS

Workshop Feedback Form

Internet of Things (IoT)


A.Y:2019-20

Participant Information:

1. Name: _____
2. Register No. _____
3. Year / Sem: _____
Department: _____

1. How would you rate your overall satisfaction with the workshop?
a. Excellent b. Very Good c. Good d. Fair e. Poor
2. How would you rate the quality of the content covered in the workshop?
a. Excellent b. Very Good c. Good d. Fair e. Poor
3. Were the topics covered relevant to your needs?
a. Yes b. No c. Partially
4. How useful did you find the hands-on sessions?
a. Very Useful b. Useful c. Somewhat Useful d. Not Useful
5. Was there enough time allocated for hands-on practice?
a. Yes b. No
6. How would you rate the trainers' expertise?
a. Excellent b. Very Good c. Good d. Fair e. Poor
7. How approachable and helpful were the trainers?
a. Excellent b. Very Good c. Good d. Fair e. Poor
8. How would you rate the organization of the workshop (venue, schedule, materials)?
a. Excellent b. Very Good c. Good d. Fair e. Poor
9. Do you feel confident in applying the skills learned during the workshop?
a. Yes b. No c. Partially
10. What topics would you like to see covered in future workshops? _____

Signature of the Student


Dr. E. VIJAYAKRISHNA RAPAKA
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M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,
PRINCIPAL
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RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER APPLICATIONS

Workshop Feedback Form

Internet of Things (IoT)

A.Y:2019-20

Participant Information:

1. Name: Gayathri. E
2. Register No. 18NCL076
3. Year / Sem: IV / IV
Department: NCA

1. How would you rate your overall satisfaction with the workshop?

a. Excellent b. Very Good c. Good d. Fair e. Poor

2. How would you rate the quality of the content covered in the workshop?

a. Excellent b. Very Good c. Good d. Fair e. Poor

3. Were the topics covered relevant to your needs?

a. Yes b. No c. Partially

4. How useful did you find the hands-on sessions?

a. Very Useful b. Useful c. Somewhat Useful d. Not Useful

5. Was there enough time allocated for hands-on practice?

a. Yes b. No

6. How would you rate the trainers' expertise?

a. Excellent b. Very Good c. Good d. Fair e. Poor

7. How approachable and helpful were the trainers?

a. Excellent b. Very Good c. Good d. Fair e. Poor

8. How would you rate the organization of the workshop (venue, schedule, materials)?


a. Excellent b. Very Good c. Good d. Fair e. Poor

9. Do you feel confident in applying the skills learned during the workshop?

a. Yes b. No c. Partially

10. What topics would you like to see covered in future workshops? Ethical Hacking

Gayathri. E
Signature of the Student


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DEPARTMENT OF COMPUTER APPLICATIONS

Workshop Feedback Form

Internet of Things (IoT)

A.Y:2019-20

Participant Information:

1. Name: Rekha. K

2. Register No. 18NU088

3. Year / Sem: III / V

Department: MCA

1. How would you rate your overall satisfaction with the workshop?

a. Excellent b. Very Good c. Good d. Fair e. Poor

2. How would you rate the quality of the content covered in the workshop?

a. Excellent b. Very Good c. Good d. Fair e. Poor

3. Were the topics covered relevant to your needs?

a. Yes b. No c. Partially

4. How useful did you find the hands-on sessions?

a. Very Useful b. Useful c. Somewhat Useful d. Not Useful

5. Was there enough time allocated for hands-on practice?

a. Yes b. No

6. How would you rate the trainers' expertise?

a. Excellent b. Very Good c. Good d. Fair e. Poor

7. How approachable and helpful were the trainers?

a. Excellent b. Very Good c. Good d. Fair e. Poor

8. How would you rate the organization of the workshop (venue, schedule, materials)?

a. Excellent b. Very Good c. Good d. Fair e. Poor

9. Do you feel confident in applying the skills learned during the workshop?

a. Yes b. No c. Partially

10. What topics would you like to see covered in future workshops? Big data.


Signature of the Student


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B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.J.M.C.I.,
PRINCIPAL
Rajiv Gandhi College of Engineering & Technology
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DEPARTMENT OF COMPUTER APPLICATIONS

Workshop Feedback Form

Internet of Things (IoT)

A.Y:2019-20

Participant Information:

1. Name: Ranya
2. Register No. 20MCA012
3. Year / Sem: I/II
Department: MCA

1. How would you rate your overall satisfaction with the workshop?

a. Excellent b. Very Good c. Good d. Fair e. Poor

2. How would you rate the quality of the content covered in the workshop?

a. Excellent b. Very Good c. Good d. Fair e. Poor

3. Were the topics covered relevant to your needs?

a. Yes b. No c. Partially

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a. Excellent b. Very Good c. Good d. Fair e. Poor

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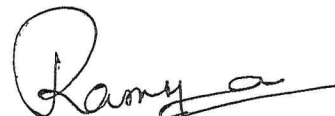
8. How would you rate the organization of the workshop (venue, schedule, materials)?


a. Excellent b. Very Good c. Good d. Fair e. Poor

9. Do you feel confident in applying the skills learned during the workshop?

a. Yes b. No c. Partially

10. What topics would you like to see covered in future workshops? Machine Learning


Signature of the Student


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