

# **K. S. R. COLLEGE OF ENGINEERING, TIRUCHENGODE**

**(Autonomous)**

**Approved by AICTE, New Delhi & Affiliated to Anna University**

**Chennai**

**ORGANIZED BY**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**WORKSHOP**

**ACADEMIC YEAR: 2017-2018**

**“Internet of Things: Challenges and Applications using Raspberry Pi  
Processor (IoT-CAR)”**

**on**

**31.07.2017 to 01.08.2017**

**Co-ordinators: Dr.P.S.Periasamy, Professor&Head /ECE**

**Mr.P.Sivakumar, AP/ECE**

**Mr.S.Senthil Kumar, AP/ECE**

**Mr.K.P.Uvarajan, AP/ECE**



A handwritten signature in blue ink, appearing to be "K. S. R.", written over a horizontal line.

**PRINCIPAL  
K.S.R. COLLEGE OF ENGINEERING  
K.S.R. KALVI NAGAR,  
TIRUCHENGODE-637 215**



**K.S.R.College of Engineering, Tiruchengode – 637 215.**  
**(Autonomous)**  
**Department of Electronics and Communication Engineering**  
**Organizes**

**Two Days Workshop on**  
**“Internet of Things: Challenges and Applications using**  
**Raspberry Pi Processor (IoT-CAR)”**  
**31.07.2017 to 01.08.2017**

**Event Schedule**

1	<b>Name of the Event (Seminar/Workshop/Conference/FDP/ Any other)</b>	Workshop
2	<b>Name of the Organizer</b>	ECE Department
3	<b>Date of Event</b>	31.07.2017 to 01.08.2017
4	<b>Platform</b>	OFFLINE
5	<b>Title of the Event</b>	Two days workshop on Internet of Things Challenges and Application using Raspberry PI Processor
6	<b>Name of the Coordinators</b>	Dr.P.S.Periasamy, Prof. & Head /ECE K.S.R. College of Engineering
7	<b>Total Participants</b>	31
8	<b>Objective of the Event</b>	This program serves as a platform for Research Scholars, Faculty, Engineers and Students to interact on cutting edge technologies in IoT.
9	<b>Outcome of the Event</b>	IoT is the network of physical objects or things embedded with electronics, software sensors and network connectivity which enables theses objects to collect and exchange data.

**COORDINATOR &  
HOD / ECE**

**PRINCIPAL**



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**K.S.R. COLLEGE OF ENGINEERING**  
**K.S.R. KALVI NAGAR,**  
**TIRUCHENGODE-637 215**



**K.S.R.College of Engineering, Tiruchengode – 637 215.**  
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**Department of Electronics and Communication Engineering**  
**Organizes**

**Two Days Workshop on**  
**“Internet of Things: Challenges and Applications using Raspberry Pi Processor (IoT-CAR)”**

**31.07.2017 to 01.08.2017**

**Intent of Workshop:**

This program aims at providing an opportunity for participants to enrich their knowledge and skill in developing various solutions for solving engineering problems in the society using IoT.

**Theme:**

The IoT allows objects to be controlled remotely across existing network infrastructure, creating opportunities for more direct integration between the physical world and computer based systems and resulting in improved efficiency, accuracy and economic benefit. When IoT is augmented with sensors and actuators, the technology becomes an instance of the more general class of cyber physical systems which also encompasses technologies such as smart grids, smart homes intelligent transportation and smart cities.

**Topics Covered:**

- What is an IOT, Raspberry Pi processor
- Setting up a Raspberry Pi
- Raspberry Pi Peripherals & Various Interfacing
- Working with a web server to store data and run other applications
- Using Python and MySQL and Getting weather forecast updates
- Hands on Experience on IoT using Raspberry Pi Processor and Robotics Kits
- Discussion of project ideas based on Raspberry Pi

**COORDINATOR &  
HOD / ECE**

**PRINCIPAL**



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**TIRUCHENGODE-637 215**

**K.S.R. College of Engineering, Tiruchengode.**  
**Department of Electronics and Communication Engineering**

Date: 17.07.2017

Submitted to the Principal:

Sub: Requisition to conduct two days workshop- Reg.

We have planned to organize two days workshop on "Internet of Things: Challenges and Applications using Raspberry Pi Processor (IoT-CAR)" for our students and outside participants from 31.07.17 (Monday) & 01.08.17 (Tuesday). So we kindly request you to grant the permission to conduct the workshop on above mentioned dates.

Registration fee:

For internal participants: Rs.300/-

For external participants: Rs.600/-

*As per*  
17.7.17  
Faculty in-charge  
S. Senthil Kumar.

11

*[Signature]*  
HOD/ECE 17.07.17



*[Signature]*  
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K.S.R. COLLEGE OF ENGINEERING  
K.S.R. KALVI NAGAR,  
TIRUCHENGODE-637 215





**K.S.R COLLEGE OF ENGINEERING (Autonomous), TIRUCHENGODE – 637215**  
(An AICTE approved and accredited by NAAC with 'A' Grade)

Department of Electronics and Communication Engineering

**Two Days Workshop on “Internet of Things: Challenges and Applications using Raspberry Pi Processor (IoT-CAR)”**

**31.07.2017 to 01.08.2017**

**INAUGURAL FUNCTION**

Venue: Seminar Hall

Date: 31.07.2017

Time: 10.00 AM

Welcome address

:Dr.A.M.Basha  
Director/ECE  
K.S.R. College of Engineering

Inaugural address

: Dr.P.S.Periasamy  
Professor & Head/ECE  
K.S.R. College of Engineering

Presidential address

:Dr.K.Kaliannan  
Principal  
K.S.R. College of Engineering

Chairman's address

:Lion.Dr.K.S.Rangasamy,MJF  
Chairman,  
K.S.R. Educational Institutions

Special address

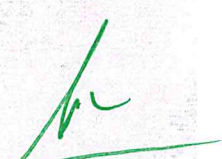
:Shri.R.Srinivasan ,B.B.M.,MISTE  
Secretary,  
K.S.R. Educational Institutions

Vote of Thanks

: P.Sivakumar  
Assistant Professor/ECE  
K.S.R. College of Engineering

**“YOU ARE CORDIALLY INVITED “**



  
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TIRUCHENGODE-637 215



**Two Days Workshop on  
"Internet of Things: Challenges and  
Applications using Raspberry Pi  
Processor (IoT-CAR)"  
31.07.17 & 01.08.17  
REGISTRATION FORM**

Name :

Designation :

Organization :

Address :

Mobile. No. :

E-mail :

Student / Research Scholar/:

Academia

Accommodation required : Yes / No

I agree to abide by the Rules &  
Regulations of the workshop and I will attend  
the workshop for the entire duration.

Place:

Date:

Signature of the Applicant

**SPONSORSHIP**

Dr. / Mr. / Ms. \_\_\_\_\_  
is a student / employee of our Institution /  
Industry is permitted to attend the program, if  
selected.

Place:

Date:

Signature of Head of the  
Dept. /Institution with Seal

**HOW TO APPLY**

The scanned / photocopy /  
softcopy of filled registration form should be  
sent via email to

[lotrespi2017@gmail.com](mailto:lotrespi2017@gmail.com)

\*On prior intimation spot registration is also available

**IMPORTANT DATES**

Last date for Registration : 25.07.17

Intimation of Selection : 26.07.17

**REGISTRATION DETAILS**

Selected participants will be informed  
via E-mail with further **details about the  
payment of Registration Fee.**

**COURSE FEE AND REGISTRATION**

Participant	Fees
Student UG	600
Student PG	700
Researchers/Faculty	850
Industrial Person	1000

**WHO COULD ATTEND?**

- Students seeking future in Embedded and Robotics Industry.
- Robotics enthusiasts who want to accomplish the impossible.
- Any Engineering student of any year and any branch is eligible for this workshop.
- UG & PG students, Research scholars, Faculty members, Engineers, from R&D Institutions and Industries.

**PATRON:**

**Lion.Dr.K.S.Rangasamy,MJF**  
Founder-Chairman  
KSR Educational Institutions

**Mr.R.Srinivasan**

Vice-Chairman  
KSR Educational Institutions

**CONVENER:**

**Dr.P.S. Periasamy**

Professor & Head /ECE

**WORKSHOP COORDINATORS:**

P.Sivakumar AP/ECE

S.Senthil Kumar AP/ECE

K.P.Uvarajan AP/ECE

**ORGANIZING COMMITTEE:**

L.Raja AP/ECE

R.Mahendran AP/ECE

C.Karthik AP/ECE

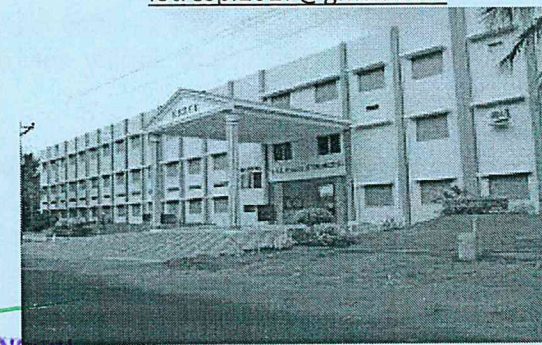
**ADDRESS FOR CORRESPONDENCE**

Mr.S.Senthil Kumar,AP/ECE,  
K.S.R. College of Engineering,  
Tiruchengode, Namakkal District-637215,  
Tamilnadu, India.

Contact No: 9865523385, 9655047775  
For more information about the Workshop

Please write to

[lotrespi2017@gmail.com](mailto:lotrespi2017@gmail.com)



**KSR COLLEGE OF ENGINEERING**  
K.S.R. KALVI NAGAR,  
TIRUCHENGODE-637 215



### ABOUT THE COLLEGE

K.S.R. College of Engineering was established in the year 2001 by Aarthi Educational and Charitable trust, approved by AICTE, New Delhi and affiliated to Anna University, Chennai. Our College is an ISO 9001-2008(E) certified and NBA Accredited Institution. The institution is conferred with the Autonomous status by UGC & Anna University, Chennai in the year 2012. Our College offers 7 UG and 13 PG Programs in Engineering, Technology and Management. The College has completed fifteen years of dedicated service in the field of Technical Education with an avowed mission to inculcate the students self-learning abilities that enable them to become competitive and considerate engineers, technologists, scientists, managers, administrators and entrepreneurs by diligently imparting the best of education, nurturing environmental and social needs.

### ABOUT THE DEPARTMENT

The Department of Electronics and Communication was started in the year 2001. The department has won the best e-Governance project from Tamilnadu government. The department has well equipped laboratories and Anna University has recognized the department as research centre. The department has well qualified faculty with adequate infrastructure facility for research and development.

### SCOPE OF THE PROGRAM

IoT is the network of physical objects or things embedded with electronics, software sensors and network connectivity which enables these objects to collect and exchange data. The IoT allows objects to be controlled

remotely across existing network infrastructure, creating opportunities for more direct integration between the physical world and computer based systems and resulting in improved efficiency, accuracy and economic benefit. When IoT is augmented with sensors and actuators, the technology becomes an instance of the more general class of cyber physical systems which also encompasses technologies such as smart grids, smart homes intelligent transportation and smart cities.

### WORKSHOP OBJECTIVES

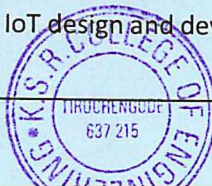
This program aims at providing an opportunity for participants to enrich their knowledge and skill in developing various solutions for solving engineering problems in the society using IoT. This program serves as a platform for Research Scholars, Faculty, Engineers and Students to interact on cutting edge technologies in IoT.

### PROGRAMME CONTENT

- What is an IOT, Raspberry Pi processor
- Setting up a Raspberry Pi
- Raspberry Pi Peripherals & Various Interfacing
- Working with a web server to store data and run other applications
- Using Python and MySQL and Getting weather forecast updates
- Hands on Experience on IoT using Raspberry Pi Processor and Robotics Kits
- Discussion of project ideas based on Raspberry Pi

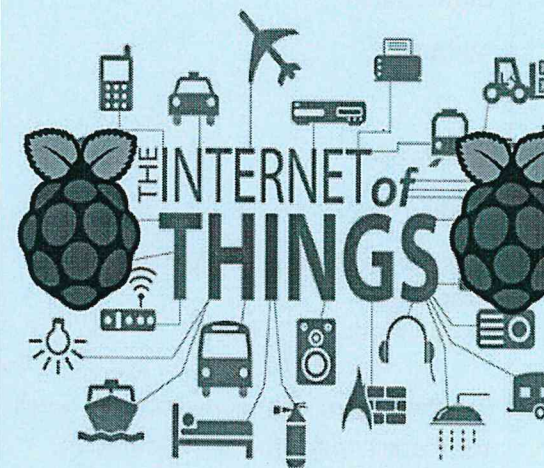
### RESOURCE PERSON

The Industry Experts with experience and expertise in IoT design and development.



## Two Days Workshop on “Internet of Things: Challenges and Applications using Raspberry Pi Processor (IoT-CAR)”

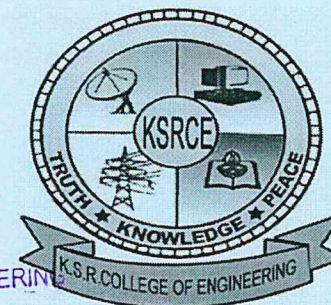
31.07.17 & 01.08.17



Organized by

Department of ECE

K.S.R. College of Engineering,  
Tiruchengode, Namakkal District-637215,  
Tamilnadu, India.



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# K.S.R. COLLEGE OF ENGINEERING

(Autonomous)

Department of Electronics and Communication Engineering

Two days workshop on "Internet of Things: Challenges and Applications using Raspberry Pi Processor (IoT-CAR)"

31.07.2017 & 01.08.2017

## Workshop Schedule

### Day 1 : 31.07.2017

9.00 AM to 10:00 AM	Registration
10.00 AM to 10:30 AM	Inauguration
10.30 AM to 10:40 AM	Tea break
10.45 AM to 11:45 AM	What is an IOT, Raspberry Pi processor
11.45 AM to 01:00 PM	Setting up a Raspberry Pi
01.00 PM to 02:00 PM	Lunch Break
02.00 PM to 03:15 PM	Working with a web server to store data and run other applications
03.15 PM to 03:30 PM	Tea break
03.30 PM to 04:30 PM	Hardware Interfacing

### Day 2 : 01.08.2017

#### Hands on Session

9.30 AM to 10:45 AM	Using Python and MySQL and Getting weather forecast updates
10.45 AM to 11:00 AM	Tea break
11.00 AM to 01:00 PM	Hands on experience on IoT using Raspberry Pi Processor and Robotics kits
01.00 PM to 02:00 PM	Lunch Break
02.00 PM to 03:15 PM	Discussion of project ideas based on Raspberry Pi
03.15 PM to 03:30 PM	Tea break
03.30 PM to 04:30 PM	Quiz and feedback



  
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# K.S.R. College of Engineering, Tiruchengode.

(Autonomous)

Department of Electronics and Communication Engineering

Two Days Workshop on

"Internet of Things: Challenges and Applications using Raspberry Pi Processor (IoT-CAR)"

31.07.17 & 01.08.17

## Attendance Sheet

S.NO	NAME, DESIGNATION/DEPARTMENT	31.07.2017		01.08.2017	
		FN	AN	FN	AN
1	B.SARANYA, AP/ECE	B. Saranya	B. Saranya	B. Saranya	B. Saranya
2	G.KIRUTHIKAMANI, AP/ECE	G. Kiruthikamani	G. Kiruthikamani	G. Kiruthikamani	G. Kiruthikamani
3	R.HARINISRI	R. Harinisri	R. Harinisri	R. Harinisri	R. Harinisri
4	B.PREETHI	B. Preethi	B. Preethi	B. Preethi	B. Preethi
5	N.VIDHYA	N. Vidhya	N. Vidhya	N. Vidhya	N. Vidhya
6	P.MYVIZHI	P. Myvizhi	P. Myvizhi	P. Myvizhi	P. Myvizhi
7	S.INDU	S. Indu	S. Indu	S. Indu	S. Indu
8	M.PAVITHRA	M. Pavithra	M. Pavithra	M. Pavithra	M. Pavithra
9	G.LAVANYA	G. Lavanya	G. Lavanya	G. Lavanya	G. Lavanya
10	N.POORNIMA	N. Poornima	N. Poornima	N. Poornima	N. Poornima
11	M.LOGANAYAGI	M. Loganayagi	M. Loganayagi	M. Loganayagi	M. Loganayagi
12	S.ISWARYA	S. Iswarya	S. Iswarya	S. Iswarya	S. Iswarya
13	R.JAYA PRIYA	R. Jaya Priya	R. Jaya Priya	R. Jaya Priya	R. Jaya Priya
14	S.MADHAN KUMAR	S. Madhan Kumar	S. Madhan Kumar	S. Madhan Kumar	S. Madhan Kumar
15	N.RISHI VISHVA A	N. Rishi Vishva A	N. Rishi Vishva A	N. Rishi Vishva A	N. Rishi Vishva A
16	S.MAHESHWARAN	S. Maheshwaran	S. Maheshwaran	S. Maheshwaran	S. Maheshwaran
17	S.ABILASH	S. Abilash	S. Abilash	S. Abilash	S. Abilash
18	P.AKILAN	P. Akilan	P. Akilan	P. Akilan	P. Akilan
19	S.CHILAMBUSELVAN	S. Chilambuselvam	S. Chilambuselvam	S. Chilambuselvam	S. Chilambuselvam
20	T.MALLEESHWARAN	T. Malleeswaran	T. Malleeswaran	T. Malleeswaran	T. Malleeswaran
21	A.PETER	A. Peter	A. Peter	A. Peter	A. Peter
22	H.KHAJA MOHIDEEN	H. Khaja Mohideen	H. Khaja Mohideen	H. Khaja Mohideen	H. Khaja Mohideen
23	R.SARANYA	R. Saranya	R. Saranya	R. Saranya	R. Saranya
24	V.DEVADHARSHINI	V. Devadharshini	V. Devadharshini	V. Devadharshini	V. Devadharshini
25	T.NARMATHA	T. Narmatha	T. Narmatha	T. Narmatha	T. Narmatha
26	J.R.PRABHAKARAN	J. R. Prabhakaran	J. R. Prabhakaran	J. R. Prabhakaran	J. R. Prabhakaran
27	P.KUMAR	P. Kumar	P. Kumar	P. Kumar	P. Kumar
28	M.PRAVIN KUMAR	M. Pravin Kumar	M. Pravin Kumar	M. Pravin Kumar	M. Pravin Kumar
29	K.KARUPPANASAMY	K. Karuppanasamy	K. Karuppanasamy	K. Karuppanasamy	K. Karuppanasamy
30	R.POORNIMA	R. Poornima	R. Poornima	R. Poornima	R. Poornima
31	M.JOTHIMANI	M. Jothimani	M. Jothimani	M. Jothimani	M. Jothimani

P. Saranya  
CO-ORDINATOR



Principal  
K.S.R. COLLEGE OF ENGINEERING  
K.S.R. KALVI NAGAR,  
TIRUCHENGODE-637 215



**Two Days Workshop on  
"Internet of Things: Challenges and  
Applications using Raspberry Pi  
Processor (IoT-CAR)"**

**31.07.17 & 01.08.17**

**REGISTRATION FORM**

Name : G. Kiruthikamani  
Designation : Assistant professor  
Organization : Sri Ramakrishna Institute of Technology  
Address : Pachapalayam,  
Pozur chettipalayam  
Coimbatore - 641010  
Mobile. No. : 9865128286  
E-mail : kiruthikamani.ece@srnit.org  
Student / Faculty /  
Industrial Person : Faculty

I agree to abide by the Rules & Regulations of the workshop and I will attend the workshop for the entire duration.

Place: Coimbatore

Date: 26.7.17

G. K. 26.7.17  
Signature of the Applicant

**SPONSORSHIP**

Dr. / Mr. / Ms. \_\_\_\_\_  
is a student / employee of our Institution / Industrial person is permitted to attend the program, if selected.

Place:

Date:

[Signature]  
**PRINCIPAL**  
Sri Ramakrishna Institute of Technology  
COIMBATORE-641 010

**HOW TO APPLY**

The scanned / photocopy / softcopy of filled registration form should be sent via email to

lotrespi2017@gmail.com

\*On prior intimation spot registration is also available

**IMPORTANT DATES**

Last date for Registration : 25.07.17

Intimation of Selection : 26.07.17

**REGISTRATION DETAILS**

Selected participants will be informed through E-mail with further details about the payment of Registration Fee.

**COURSE FEE AND REGISTRATION**

Accommodation and boarding if required will be provided in the college campus on chargeable basis.

Participant	Fees
Student UG	600
Student PG	700
Faculty	850
Industrial Person	1000

**WHO COULD ATTEND?**

- Students seeking future in Embedded and Robotics Industry.
- Robotics enthusiasts who want to accomplish the impossible.
- Any Engineering student of any year and any branch is eligible for this workshop.
- UG & PG students, Research scholars, Faculty members, Engineers from R&D Institutions and Industries.

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Founder-Chairman  
KSR Educational Institutions  
**Mr.R.Srinivasan**  
Vice-Chairman  
KSR Educational Institutions

**CONVENER:**

**Dr.P.S. Periasamy**  
Professor & Head /ECE

**WORKSHOP COORDINATORS:**

**P.Sivakumar AP/ECE**  
**S.Senthil Kumar AP/ECE**  
**K.P.Uvarajan AP/ECE**

**ORGANIZING COMMITTEE:**

**L.Raja AP/ECE**  
**R.Mahendran AP/ECE**  
**C.Karthik AP/ECE**

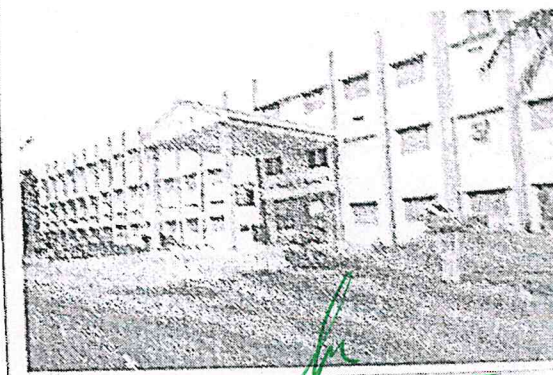
**ADDRESS FOR CORRESPONDENCE**

**Mr.S.Senthil Kumar,AP/ECE,**  
**K.S.R. College of Engineering,**  
**Tiruchengode, Namakkal District-637215,**  
**Tamilnadu, India.**

Contact No: 9865523385, 9655047775  
For more information about the Workshop

Please write to

lotrespi2017@gmail.com



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Department of Electronics and Communication Engineering

Two Days Workshop on

"Internet of Things: Challenges and Applications using Raspberry Pi Processor (IoT-CAR)"  
31.07.17 & 01.08.17

## Feedback form

We would appreciate if you could take a few minutes to share your opinions with us so we can serve you better.

Date : 1/8/2017

Name : SARANYA.B

Designation : Assistant Professor

College : Sri Ramakrishna Institute of Technology, Coimbatore

	1 Fair	2	3	4 Excellent
<b>A. Content</b>				
Covered useful material			✓	
Practical to my needs and interests			✓	
Well organized				✓
Well paced				✓
Presented at the right level			✓	
Useful visual aids and hand-outs			✓	
<b>B. Presentation</b>				
Instructor's knowledge			✓	
Instructor's presentation style			✓	
Instructor covered material clearly				✓
Instructor responded well to questions				✓
Instructor facilitated interactions among participants well				✓
<b>C. How could this workshop be improved?</b> More number of peripherals could be interfaced with Hands-on.				
<b>D. Any other comments or suggestions?</b> No of sessions could be increased				

E. Overall, how would you rate this workshop?

[ ] POOR

[ ] FAIR

[✓] GOOD

[ ] EXCELLENT

Please return this form to the instructor or organizer at the end of the workshop. Thank you.



PRINCIPAL  
K.S.R. COLLEGE OF ENGINEERING  
K.S.R. KALVI NAGAR,  
TIRUCHENGODE-637 215

B. Saranya  
SIGNATURE



# K.S.R. College of Engineering(Autonomous),Tiruchengode.

Department of Electronics and Communication Engineering

Two Days Workshop on

"Internet of Things: Challenges and Applications using Raspberry Pi Processor (IoT-CAR)"

31.07.17 & 01.08.17

## Feedback form

We would appreciate if you could take a few minutes to share your opinions with us so we can serve you better.

Name : G. Kruthikamani  
Designation : Assistant professor  
College : Sri Ramakrishna Institute of Technology

Date : 01 - 08 - 2017

A. Content	1 Fair	2	3	4 Excellent
Covered useful material				✓
Practical to my needs and interests			✓	
Well organized				✓
Well paced				✓
Presented at the right level				✓
Useful visual aids and hand-outs			✓	
B. Presentation				
Instructor's knowledge				✓
Instructor's presentation style				✓
Instructor covered material clearly				✓
Instructor responded well to questions				✓
Instructor facilitated interactions among participants well				✓
C. How could this workshop be improved? Giving More number of Applications				
D. Any other comments or suggestions? Cost can be reduced				

E. Overall, how would you rate this workshop?

[ ] POOR

[ ] FAIR

[ ] GOOD

[ ] EXCELLENT

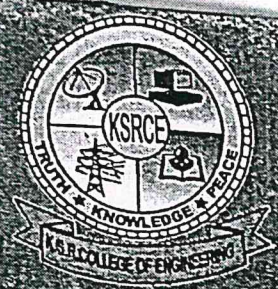
Please return this form to the instructor or organizer at the end of the workshop. Thank you.



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K.S.R. KALVI NAGAR,  
TIRUCHENGODE-637 215

G. Kruthikamani  
01.08.2017  
SIGNATURE

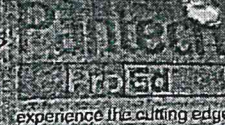




# K.S.R. COLLEGE OF ENGINEERING (Autonomous)

Affiliated to Anna University Chennai & Approved by AICTE  
Accredited by NAAC with A Grade

K.S.R. Kalvi Nagar, Tiruchengode - 637215





## Department of Electronics and Communication Engineering

### Workshop on "Internet of Things: Challenges and Applications using Raspberry Pi Processor (IoT-CAR)"

#### CERTIFICATE

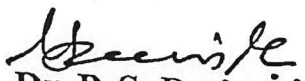
This is to certify that Mr./Ms. R. POORNIMA, AP/ECE of K.S.R. COLLEGE OF ENGINEERING has participated in the Workshop on "Internet of Things: Challenges and Applications using Raspberry Pi Processor(IoT-CAR)" from 31.07.17 to 01.08.17, organized by Department of Electronics and Communication Engineering, K.S.R. College of Engineering Tiruchengode, in association with Pantech ProEd Pvt Ltd.

  
Mr. A. Vinothkumar  
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