SRI VENKATESWARA COLLEGE OF ENGINEERING
Department of Electronics and Communication Engineering

Submitted to Principal   20.03.2019
Through : HOD-EC

Sub: "One-day workshop on IoT in communication" permission to organize-Reg.

The Internet of Things (IoT) links objects within an active network to facilitate data collection and management. It can be applied to any device that interacts with the external environment through embedded technology and the Internet. Sustainable, safe, and efficient telecommunication services benefit consumers, industry, and society in general by reducing costs

To create an awareness on IOT in communication, we propose to conduct a "One-day workshop on IOT in communication", in our college premises on 01.04.2019 and is open for UG, PG and research scholars. Around 50 participants are expected to take part. The workshop agenda and estimated expenditure for the proposed workshop is as follows.

Workshop Agenda

Session-1: Expert talk on IoT Evolution, by Dr.G.A. Sathish Kumar, Prof/EC
Session-2: Expert talk on IoT in Communication, by Dr.N. Kumaratharan, Prof/EC
Session-3: Demo on using Raspberry Pi
Session-4: Demo on using Arduino uno

Budget Expenses

S.No	Details	Amount in Rs.
1	Certificates	1,000
2	Tea and refreshments	1,700
3	Workshop kit and Mementos	2,300
	Total Expenses	**Rs. 5000**

Amount collected from Participants (50 x 100) = Rs. 5,000

Dr.G.A. Sathish Kumar

Dr.N. Kumaratharan

Mr.G. Loganathan

Mr.P. Arul

Coordinators

To: HOD-EC
Approved

HOD-EC 20/3/9

SRI VENKATESWARA COLLEGE OF ENGINEERING
Sriperumbudur - 602117

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Cordially invites you to the One Day National Workshop

On

"IoT in Communication"

Resource person

Dr.G.A.Sathish Kumar, Dr.N.Kumaratharan

Professor of ECE

Sri Venkateswara College of Engineering

Sriperumbudur

Venue   : Video Hall

Date   : 01st April 2019

Time   : 8.30am to 3.15pm

ALL ARE CORDIALLY INVITED

One Day
National Workshop
On
"IoT in Communication"
01st April 2019

REGISTRATION FORM

Name   :

Designation   :

Department   :

Name of the   :
College/Company

Address   :

Email-ID   :

Mobile No   :

Amount   :

Place:

Date: **Signature of Applicant**

Last date for registration   :28-03-19
Last date for intimation   :29-03-19
(Through Email only)

REGISTRATION
All participants must register for the workshop before the given due date. The registration fee details are given below:

❑ **Faculty Members, Research Scholars, PG Students and UG Students from Academic Institutions: Rs. 100/-**

Registration fee includes Workshop Kit and Tea. Registration Fee can be paid on the spot.
The Registration form shall be submitted through e-mail and selection will be based on first come first serve. The registration is accepted for first 50 participants.

CONVENOR:
Dr.S.Muthukumar, Head of the Department-ECE

COORDINATORS:
Dr.G.A.Sathish Kumar, Prof-Department of ECE
Dr.N.Kumaratharan, Prof-Department of ECE

CO-COORDINATORS:
Mr.P.Arul, Assistant Professor/ECE
Mr.G.Loganathan, Assistant Professor/ECE

CONTACT E-MAIL & Mobile Number
sathish@svce.ac.in / 9445265296
kumaratharan@svce.ac.in / 9962501931
arulp@svce.ac.in / 9884372131
loganathang@svce.ac.in / 9994778512

One Day
National Workshop
On
"IoT in Communication"
01st April 2019

Organized By

**Department of
Electronics & Communication
Engineering**

**Sri Venkateswara College of
Engineering
Post Bag No.1, Pennalur Village
Chennai-Bengaluru High Road
Sriperumbudur Tk. - 602 117
Kancheepuram District
Tamil Nadu, India
Phone:044-27152000 Extn: 204**
https://www.svce.ac.in/

THE INSTITUTION

Sri Venkateswara College of Engineering (SVCE), a premier self-financing engineering college, was started in the year 1985 and is managed by Sri Venkateswara Educational and Health Trust. The college conducts 10 B.E / B.Tech Degree courses and 10 PG Courses in Engineering and Technology.

The college is autonomous and affiliated to Anna University, Chennai and is accredited by National Assessment and Accreditation Council (NAAC) and also by National Board of Accreditation (NBA).

THE DEPARTMENT

The Department of Electronics and Communication Engineering was established in the year 1985 with an Under Graduate Programme in Electronics & Communication Engineering.

It has strength of around 800 students guided by a team of devoted and diligent faculty members.

The department is well equipped with state of the art laboratory facilities and software like Tanner Tools, LabView, ADS, IE3D, latest versions of MATLAB and Math CAD etc.,

Every year, the Department regularly organizes a National Level Student Technical Symposium "UPAGRAHA", a National Level Conference "National Conference on Signal Processing, Communication & Networking (NCSCN)" and also organizes several Workshops, Seminars and FDPs etc.,

The Department has also secured AICTE funded R & D projects. The Department has signed MoUs with reputed industries.

ABOUT THE WORKSHOP

The purpose of this workshop is to provide hands on training on IoT in communication.

TOPICS TO BE COVERED

- ➢ **Overview of IoT**
- ➢ **Overview of Arduino and Raspberry pi**
- ➢ **Design of Sensor based Systems**
- ➢ **IoT in Communication**
- ➢ **Hands on training on IoT in Communication**
- ➢ **Challenges Involved in the Design of communication systems in IoT.**

Sri Venkateswara College of Engineering

Post Bag No.1, Pennalur Village, Chennai - Bengaluru High Road, Sriperumbudur Tk.

602117 Kancheepuram District, TAMIL NADU, INDIA

Department of Electronics & Communication Engineering

One Day National Workshop on "IoT in Communication"

01ˢᵗ April 2019

Technical Program Schedule

	April 01, 2019 (Monday)
8.30—9.00	Registration
9.00—9.15	Inauguration
9.15-10.15	Session-1: Lecture on IoT Evolution, by Dr.G.A.Sathish Kumar, Professor Department of ECE, Sri Venkateswara College of Engineering (SVCE)
10.15—10.30	Tea Break
10.30—11.30	Session-2: Lecture on IoT in Communication , by Dr.N.Kumarathran, Professor Department of ECE, Sri Venkateswara College of Engineering (SVCE)
11.30—12.30	Lunch Break
12.30—2.30	Hands on Training, by Mr.V.Rajaram AP/IT , Mr.K.Suresh AP/IT
02.30—3.00	Valedictory Function & Certificate Distribution
3.00—03.15	Feedback & Vote of Thanks

A Report on One day workshop on " IOT in Communication " Organized by Dept of ECE 01-April-2019

A one day workshop program on "IOT in communication" is organized by department of ECE on 01st April 2019.
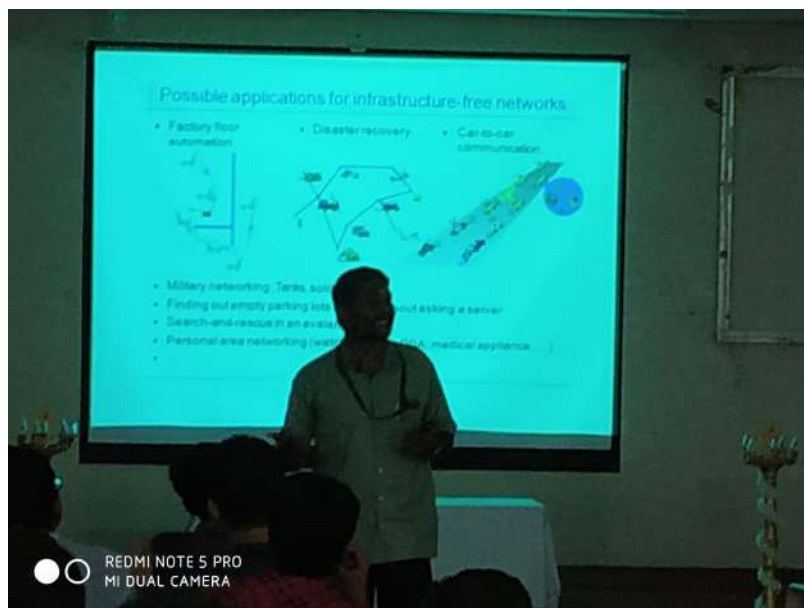
The program started at Video hall with Welcome address by Dr.G.A.Sathish kumar Professor, ECE,. Dr.S. Muthukumar, Professor & Head, Dept. of ECE inaugurated the workshop and addressed the gathering about the need of IOT in communication field and the importance of such workshops. The course theme and objectives were addressed by Dr.N.Kumaratharan Professor, ECE.
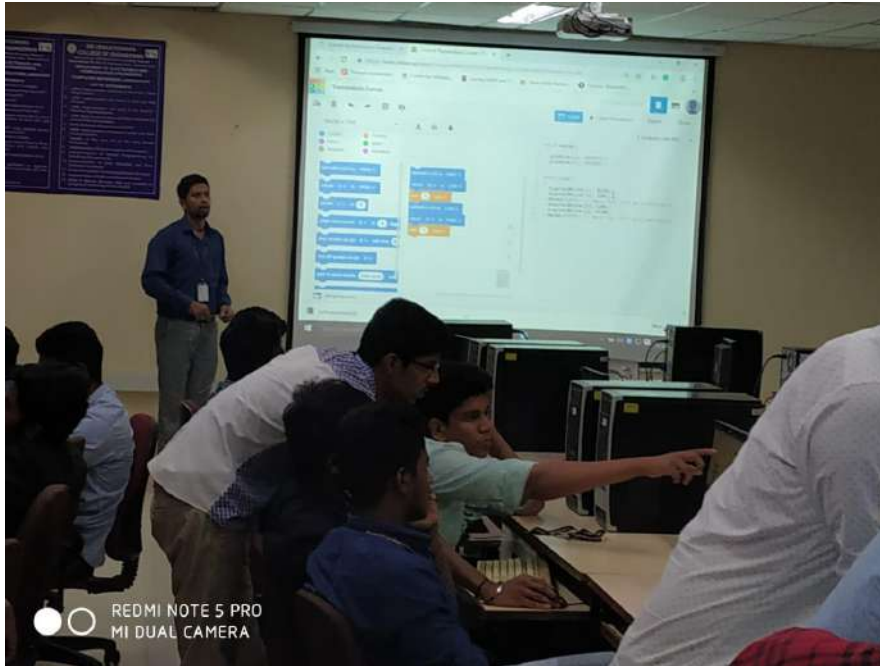

Session I started with a lecture by Dr.G.A.Sathish kumar, Professor, EC with the topic: "IOT Evolution and Overview" in which he discussed IoT evolution, machine to machine communication and IOT architecture. Then he continued his lecture with Arduino , Raspberry Pi by which he explains in detail about the board and its functionalities. Also he discussed about the applications of IoT to meet the real world challenges.

Session II was handled by Dr.N.Kumaratharan Professor, ECE with a presentation on Wireless Sensor Networks and IoT. A brief description of WSN and its link with IoT was discussed throwing light on linking the WSN with IoT and its application. The lecture concluded with the role of 5G over IoT.
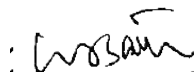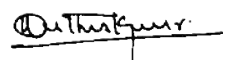

Session III was completely an hands-on session with Raspberry Pi, Arduino, sensors and realtime simulation using Tinkercad.com handled by Mr. V.Rajaram, AP/IT, Mr.K.Suresh, AP/IT, Mr.P.Arul, AP/EC, Mr.G.Loganathan, AP/EC , with technical support from Mr.Dilli Ganesh, Instructor/EC at Software Laboratory. At the end of session, participants learned about the real-time applications of raspberry Pi and Arduino. They performed various practical applications like Switching on LED using PIR sensor and RF sensors, also they controlled stepper motor speed using RF sensors.

The valedictory address was given by Dr.G.A.Sathish Kumar,Professor/ECE,. and also he distributed the certificates to the participants. Finally, the course concluded with the vote of thanks and the valuable feedbacks from participants.

Coordinator

Head of the Department
Electronics and Communication Engineering
Sri Venkateswara College of Engineering
Sriperumbudur - 602 117, India

One Day National Workshop on " IoT in Communication"

01-Apr-19

Si.No	Name	Roll No	Year / Sec	Department	Signature
1.	ROHIT . N✓	43	II YB	AUTO	Ryte
2.	MUKESH TM ✓	32	II yr	AUTO	Mukush
3.	NITHESH . A ✓	35	II yn	AUTO	AS.
4.	LITHIKESH . S ✓	29	II yr	AUTO	tate
5.	Prabakar . S.K	85✓	I YY	ECE	RL..
6.	NAVEEN PRASAD . C. A	72✓	I Y.	ECE	Ap.g
7.	NIRANJAN . S	75✓	I YEAR	ECE	A.S
8.	S. KULANDAIYAN	57✓	I YEAR	ECE	S.Kulandaiyan
T 9.	D. KAMALESH.	18	I Yea	AUTO	D.Kama
T 10.	SREE VISHAL R	143	I year	CSE	Vishal
T 11.	M.S. Madhan Kumar	56	I year	IT	W.Smkg
12.	Vigneshwar . SJ ✓	(144)	I year	ECE	Vigne
13.	Sri nataraj . C ✓	(120)	I year	ECE	Nataraj
14.	Rahul . B	95✓	I year	ECE	BRU
15.	M . Thiru Murugan ✓	73	I year	EEE	M.G
T 16.	E. Sanjay Srinivass	53	I year	EEE	Rhf
T 17.	Samba Siva Arujuma pandian	48	I year	EEE	Samba
T 18.	K. Narendran	52	I year	MEC	K.Na
T 19.	R. SOORYA	63	I year	EEE.	R.Soorya
T 20	E. Suriyan	67	I year	EEE	E. SM
21	R. SAI SHARAN ✓	44	II YEAR	AE	B.SaiSh
22.	G. RAAHUL ✓	40	II YEAR	AE	Ra

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1/4/19

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One Day National Workshop on " IoT in Communication"

					01-Apr-19
Sl.No	Name	Roll No	Year / Sec	Department	Signature
1.	PREETHIKA·S	89 ✓	Ist/B	ECE	Preethi.
2.	NIVEDHA·M	79 ✓	IST/B	ECE	
3.	MADHUMITHA·V	62 ✓	IS/B	ECE	
4.	S·RAGHAVI	94 ✓	I-B	ECE	
5.	S·MADHUMITHA	61 ✓	I-B	ECE	
6	G·JERUSHA	45 ✓	I/A	ECE	Jerusha
7	G·Keerthana	52 ✓	I/A	ECE	
8.	S·Keerthana ✓	02	PG·Ist year	Comm. Sys	
9.	B·J·komathi ✓	03	PG·Ist year	Comm. sys	komathi B·J
10	M·S·Sathyapriya	09 ✓	PG Ist year	Comm. sys.	
11	Venkatraman·S	10	PG Ist YEAR	Comm. Sys	
12	M·Komathi Dhavera	04 ✓	PG Ist year	Comm Sys	
13.	J·Lakshmi priya	05 ✓	PG Ist year	Com Sysl	J·Lakshi
14	K·Kalaimani		Staff	IT	
15	K·MoHAN		Staff	IT	R·keoL
16	S·Mari ganolan		Staff	IT	
17	G·Rajeswari	08 ✓	PG Istyr	ECE	
18.	K·Meena ✓	06	PG Istyr	ECE-MCS	

HOD / EC   Page 3/3

One Day National Workshop on " IoT in Communication"

Si.No	Name	Roll No	Year / Sec	Department	Signature
23.	Yogesh. G	155 ✓	1st/C	ECE	G.Y
24.	Seshadri. N	110 ✓	1st/C	ECE	seshadri N
25	Vishnu Sai R	150 ✓	1st/C	ECE	R.vishnu Sai
26	K. Sudharsan	129 ✓	1st /C	ECE	sudharsan
27.	Abinaya. B	02 ✓	1st /A	ECE	
28.	Shruthi. E	116 ✓	1st /C	ECE	
29.	A. Srivarshini	126 ✓	1st /C	ECE	Varshini
30	B.S. Sanjana	105 ✓	1st /C	ECE	San
31.	Vishnukumar. Y ✓	(149)	1st /C	ECE	
38.	J.P.J. Fiona	27 ✓	1st /A	ECE	
33.	K.KAVITHA	50 ✓	1st /A	ECE	
34.	Tr.S. Harshitha	34 ✓	1st/A	ECE	
35.	B. Ganesh	28 ✓	1st /A	ECE	
36.	R. NISHANTH	34 ✓	2nd /	AE	R.N
37	N. KUMARAN	staff ✓		ECE	
38	S. Ranjith	43 ✓	1st / EEE	EEE	

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1/4/19

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FEEDBACK – CONFERENCE / SEMINAR / WORKSHOP / FDP
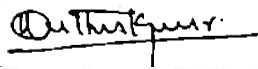
Name of the Faculty/Staff _STUDENT_	SREE VISHAL R
Designation & Department	CS Department
Industry / Institution Visited	—
Duration of Training / Course with date	1-4-2019 (7 hrs)
Details of the Training / Course	Workshop for IOT
Plants visited during training	—
Whether the training/Course was useful? In what way? Give reasons. • Yes it is very usefull • It gives a brief description of IOT and its various fields and application.	
Any other suggestions Duration of Hands-on classes can be extended _Signature_	
Effectiveness review by HoD _Signature of HoD_	

The person who has attended the course should prepare this in triplicate and submit copies to: **A1, A3 and Dept.**
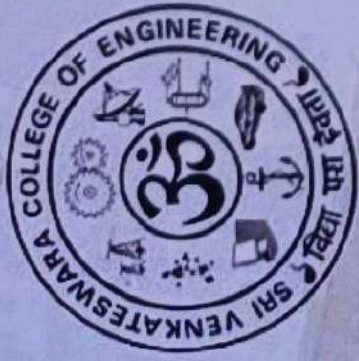
SRI VENKATESWARA COLLEGE OF ENGINEERING

FEEDBACK – CONFERENCE / SEMINAR / WORKSHOP / FDP

Name of the ~~Faculty/Staff~~ Student	D.KAMALESH
Designation & Department	Ist year /Automobile dept
Industry / Institution Visited	
Duration of Training / Course with date	1-04-19 (7 hours)
Details of the Training / Course	Workshop on IoT
Plants visited during training	
Whether the training/Course was useful? In what way? Give reasons. Yes, It was very useful. The lecture gave us a wide knowledge about IoT. The hands on experience was so good.	
Any other suggestions The Hands on experience session could have been extended longer so that we could have studied more about it. Signature	
Effectiveness review by HoD Signature of HoD	

The person who has attended the course should prepare this in triplicate and submit copies to: **A1, A3 and Dept.**

Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur 602 117

ISO 9001:2015
Certified by IRQS

MGMT. SYS.
RvA C 071

Department of Electronics and Communication Engineering

This is to certify that Mr. / Mrs. / Ms. .... has participated in the

of ....

"One Day National Workshop on IoT in Communication" held on 01ˢᵗ April

2019 at Sri Venkateswara College of Engineering.

Co-ordinator   HOD