SRI VENKATESWARA COLLEGE OF ENGINEERING
Department of Electronics and Communication Engineering

Submitted to the Principal

Through HOD- EC

Date: 23-Nov-2018

As part of the co-curricular activities, the Department of ECE proposes to conduct a **'Two day Work shop on IOT using Arduino'** at our college in the first or second week of December 2018 to the under graduate, first year students.

The second year students, Mauraya, Piyush, Keshav and Ujwal of ECE department, who have expertise in Arduino programming, will be the mentors for the first year students. These students have proved their expertise in Arduino programming by participating in several project competitions and even won few of them – to say few, in IITM and at SVCE Upagraha-2018. Also they are willing to share their knowledge and mentor their juniors.

We thought that, it will be good to develop some awareness and motivation among the first year students so that, they will improve their skills by learning more than what is given in curriculum and also participate in project competitions and bring laurels to the college.

We also did a survey among the first year ECE class students, with the permission of HOD-EC to find the number of students who are interested in learning Arduino programming and IOT application development. It was a surprise to find that many (approximately 90 students) where interested in learning from their seniors.

The participants for the workshop will be formed as a group of 4 to 5 students per team and maximum 9 teams will be formed with total maximum strength of 45 students. The participants will be selected based on first come first serve basis. An amount of Rs.3000/- will be collected per team, which accounts to approximately Rs.600/- per student in a team. This money will be used towards the purchase of components needed to have 'hands on' experience on the various exercises taught.

The topics that will be taught in the workshop are listed below for your kind perusal.

Day-1:	
1.	Introduction to Arduino [Discussion from basics of what a Microcontroller is – Why Microcontroller? – What does a code do? – Basic knowledge of coding – How to buid algorithms and code them?]
2.	Basic Programming [What is a variable? – Syntax for various statements – basic coding]
3.	Interfacing Arduino and Sensors [What is a sensor? – Which sensor and why? – Coding using sensors – What is Bluetooth? - Bluetooth control – What is Master Slave algorithm? – Why use Bluetooth module? – Explanation of Datasheet – Interfacing Arduino and Sensors]

Day-2:	
1.	Introduction to Internet of Things (IOT) [IoT Protocols – How to create an Application (App) using MIT App Creator or Blynk Platform]
2.	About Home Automation
3.	The IFTT Protocol
4.	Application of IOT using sensors
5.	App Creation

The breakup of the expenses incurred by each team is also attached for your perusal.

The objective of conducting this workshop is to form senior and junior peer mentor group, which may motivate students to participate in project competitions conducted by various institutions. The seminar and workshop will be coordinated by a team of faculty members.

We request you to kindly accept this proposal for conducting the Workshop.

Thank you

Dr.S.R.Malathi

HoD-EC

Two day Work shop
on
IOT using Arduino
(20th Dec 2018 and 21st Dec 2018)

The Department of Electronics and Communication Engineering is organizing, two day workshop titled **"IOT using Arduino"** on 20th Dec 2018 and 21st Dec 2018.

ABOUT THE WORKSHOP

Hands on Training Program using Arduino will be given by second year students. The student mentors have proved their expertise in Arduino programming by participating in several project competitions organized by IITM and at SVCE during Upagraha-2018 so on. They have shown keen interest to share their knowledge and mentor their juniors. The workshop aims at providing an insight into the concept of embedded design for IOT Applications. The purpose of this workshop is to facilitate hands on training on Arduino and aims for providing value added course for the I Year ECE students of SVCE. It will help the students to build a project on a real time IOT Application. This will be an eye opener for the students for those who are desiring to get a job in hardware based companies and society relevant research work.

WORKSHOP CONTENT

* Introduction to Arduino
* Interfacing Arduino and Sensors
* Introduction to IoT
* IFTT Protocol
* Hands on training on IOT application.
* App creation

CONVENOR

Dr.S.MuthuKumar

HOD, ECE Department

CO-ORDINATOR

Dr.S.R.Malathi, Associate Professor-EC

CO-COORDINATORS

Ms.T J Jeyaprabha, AP-EC

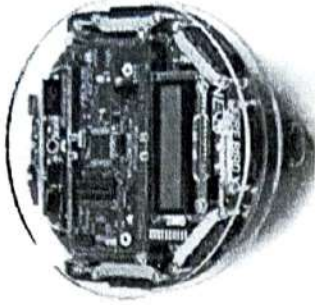Ms.R Kousalya, AP-EC

Ms.B.Sarala, AP-EC

Ms.M. Vidya, AP-EC

Ms.S.Radhika, AP-EC

NUMBER OF PARTICIPANTS

Total No. of Students- 90 (4 per Batch)

REGISTRATION FEE

Rupees 600/-

Registration Form

Name: _____

Branch: _____

Course/year: _____

Phone: _____

E Mail: _____

Payment Details: _____

(Signature)

Department of Electronics and Communication Engineering
Two Day Workshop on Arduino and IOT
20-21, December 2018
PARTICIPANTS ATTENDANCE SHEET

Roll No.		NAME	DAY-1 20-12-2018	DAY-2 21-12-2018
01	.	Aarshik. B		
04	.	Aditya. S		
20	.	ChilakaSaiDeekshith		
32	.	P. Harrshavardhan		
17	.	KandikattuDeepak		
68	.	R.Monica		
76	.	M.Nithya		
77	.	S.Nithya		
84	.	R.Pooja		
91	.	S.PriyaDarshini		
61	.	S.Madhumitha		
62	.	V.Madhumitha		
9	.	M.Nivedha		
89	.	S.Preethika		
94	.	S.Raghavi		
57	.	S.Kulandaiyan		
60	.	R.Madhavram		
74	.	R.Niranjan		
90	.	B. Rahul		
99		K.Rishabanath		

Roll No.	NAME	DAY-1 20-12-2018	DAY-2 21-12-2018
110	Seshadri N		
144	Vigneshwar. S J		
150	Vishnusai R		
152	Vishwesh PV		
156	Yogesh G		
129	Sudharsan K		
135	H.TamilSelvan		
12	Vignesh M		
151	Vishnuvaradhan M		
156	YukeshAditiya P. S		
114	K. Shivaganeshan		
125	Srivanth ganesh Shrivant Ganesh		
140	Varun		
147	Vijay Soorya. J		
-154 153	Yashwanth Yaswanth		

SRI VENKATESWARA COLLEGE OF ENGINEERING

FEEDBACK - INPLANT TRAINING / SHORT TERM COURSE

Name of the Student	Team Alpha (Vishnu Sai R, Yogesh·G, Seshadri·N, Vishwesh·P·v, Vigneshwar·S·J)
Branch/Semester/Section/Roll No.	ECE / Ist sem / C / 150, 110, 144, 155, 152
Industry/ Institution Visited	SVCE College
Duration of Training/ Course with date	2 days / 20th – 21st December 2015
Plants visited during training	

Whether the training/Course was useful? In what way? Give reasons.

The training was a wonderful insight into what arduino microcontrollers is.

Any other suggestions

Please do keep more of such courses and please

P.S Dear Seniors, we juniors will need your help
so we conduct such courses for our Juniors.

Signature
R. vishnu

Report and Copy of Certificate submitted.

HOD

Faculty Incharge

The person who has attended the course should prepare this in triplicate and submit copies to:
A2, A3 and Dept.

SRI VENKATESWARA COLLEGE OF ENGINEERING

FEEDBACK - INPLANT TRAINING / SHORT TERM COURSE

Name of the Student	BETA (POOJA. R, PRIYADARSHINI.S, NITHYA.M, NITHYA.S, MONICA)
Branch/Semester/Section/Roll No.	ECE / IST / B (84, 91, 76, 77, 68)
Industry/ Institution Visited	
Duration of Training/ Course with date	
Plants visited during training	

Whether the training/Course was useful? In what way? Give reasons. YES, It was useful

We learnt about Arduino and Iot. The serions are very interactive. It was an informative and interactive two-day session

Any other suggestions

We are looking forward for many workshops like This.

Signature

Report and Copy of Certificate submitted.

HOD

Faculty Incharge

The person who has attended the course should prepare this in triplicate and submit copies to:
A2, A3 and Dept.

SRI VENKATESWARA COLLEGE OF ENGINEERING

FEEDBACK - INPLANT TRAINING / SHORT TERM COURSE

Name of the Student	S.Madhumitha, V.madhumitha; Raghavi.s Nivedha.M, Preethika.s
Branch/Semester/Section/Roll No.	ECE, 1, B, 61,62,94,79,84
Industry/ Institution Visited	—
Duration of Training/ Course with date	2 days 20|12 – 21|12|18
Plants visited during training	

Whether the training/Course was useful? In what way? Give reasons.

It was very useful, interesting. Learnt many things from lectures and ~~followed~~ implementing Hands-on.

Any other suggestions

More workshops similar to this could be conducted by the seniors which would greatly benifit us.

S.~~Madh~~-the SA

Signature

Report and Copy of Certificate submitted.

HOD

Faculty Incharge

The person who has attended the course should prepare this in triplicate and submit copies to:
A2, A3 and Dept.

SRI VENKATESWARA COLLEGE OF ENGINEERING
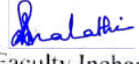
FEEDBACK - INPLANT TRAINING / SHORT TERM COURSE

Name of the Student	Vignesh M, Vishwavaradhan, Tamil Selvan, Sudharsan, Yukesh Aditiya
Branch/Semester/Section/Roll No.	ECE / I / C / 142, 151, 135, 129, 156
Industry/ Institution Visited	SVCE
Duration of Training/ Course with date	Two days / 20·12·2018 , 21·12·2018
Plants visited during training	

Whether the training/Course was useful? In what way? Give reasons.

The course was very useful. We have learnt lot of new things related to electronics. Seniors are very kind and explained the consept clearly.

Any other suggestions

The duration of course were little bit short.

M· Vig

Signature

Report and Copy of Certificate submitted.

HOD

Faculty Incharge

The person who has attended the course should prepare this in triplicate and submit copies to:
A2, A3 and Dept.

SRI VENKATESWARA COLLEGE OF ENGINEERING

FEEDBACK - INPLANT TRAINING / SHORT TERM COURSE

Name of the Student	(99) (60) (74) (95) RISHABANATH.K, MADHAV RAM·R, NIRANJAN·R, RAHUL·B, KULANDIYAN·S (57)
Branch/Semester/Section/Roll No.	ECE / 1ˢᵗ / B /
Industry/ Institution Visited	SVCE
Duration of Training Course with date	TWO DayS/20ᵗʰ and 21ˢᵗ December 2018
Plants visited during training	

Whether the training Course was useful? In what way? Give reasons.

A very usefull wotshop and the seniors are very kind and helpfull. Waiting for more workshops.

Any other suggestions

Many students are also interested in joining this workshop but due to limitation per class they are not able to participate. Hope everyone can participate interested in this workshop

Signature

Report and Copy of Certificate submitted.

HOD

Faculty Incharge

The person who has attended the course should prepare this in triplicate and submit copies to:
A2, A3 and Dept.

SRI VENKATESWARA COLLEGE OF ENGINEERING

FEEDBACK - INPLANT TRAINING / SHORT TERM COURSE

Name of the Student	Shiva Ganesh, Srewant Ganesh, Yeshwanth, Varun, Vijay Surya
Branch/Semester/Section/Roll No.	ECE 1 C
Industry/ Institution Visited	
Duration of Training/ Course with date	
Plants visited during training	2 days / IoT — 20-21/12/18

Whether the training/Course was useful? In what way? Give reasons.

was very useful. Learnt a lot about circuits and IoT.

Any other suggestions

would like to have more programs like this

Signature

Report and Copy of Certificate submitted.

HOD

Faculty Incharge

The person who has attended the course should prepare this in triplicate and submit copies to:
A2, A3 and Dept.

<u>**A Report on**</u>

<u>**Two Day Workshop on IoT using Arduino**</u>

<u>**Organized on December 20ᵗʰ and 21ˢᵗ 2018 by the Department of ECE**</u>

Department of ECE organized, a **"Two Day Workshop on IoT using Arduino"** on 20/12/18 and 21/12/18.

The event was coordinated by Dr.S.R.Malathi, Associate Professor and Organized by Ms.T.J.Jeyaprabha, Ms.R.Kousalya, Ms.B.Sarala, Ms.M.Vidya and Ms.S.Radhika, Assistant Professors, Department of ECE.

The purpose of this workshop is to facilitate hands on training on Arduino and aims for providing value added course for the I Year ECE students of SVCE. About 35 students participated and benefitted with practical knowledge on IoT and Arduino.

The workshop was started with a prayer song and welcome address by our beloved HOD-EC, **Dr.S.Muthukumar, Convenor** of the workshop.

Day 1: The Inaugural address of the workshop was given by Dr.S.R.Malathi**,** Associate Professor, ECE about the "Introduction to IoT and Arduino" and the session was handed over to Mentors **(Mr.E.KESHAV, Mr.V.MAURYA, Mr.M.PIYUSH, Mr.S.SUDESH KUMAR, Mr.VUPPALAPATI CHENCHU UJWAL)** from II Year EC students. Mentors presented the topics on Introduction to Microcontroller, Arduino and Basic programming using C language. Hands on training was given on the topic of "Interfacing Arduino and Sensor"

Day 2: Session was started with the brief Introduction on IoT and Home Automation. The hand-on session was given on application on IoT using Sensor and App creation.

The Valedictory Address and vote of thanks was given by Dr.S.R.Malathi, Associate Professor, Department of Electronics and Communication Engineering, followed by Certificate distribution to the participants by our HOD - EC, **Dr.S.Muthukumar.** The event was successfully completed with National Anthem.

Dr.S.R.Malathi

Dr.S.Muthukumar