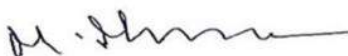


Report On Three-Day Workshop on “Internet of Things (IoT) for Mechanical Engineers”

held on 13th – 15th February 2019

Organized by

DEPARTMENT OF MECHANICAL ENGINEERING



Dr. M. Mohandass
Coordinator



Dr. S. RAMESH BABU, M.E., Ph.D
Professor & Head
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK) - 602117.
Tamilnadu, INDIA.

Dr. S. Ramesh Babu
Convenor

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06/1/2019

SVCE

Sri Venkateswara College of Engineering
Department of Mechanical Engineering

Submitted to the Principal:

Sub: Request for conducting Three Day workshop on "IoT using Arduino for Mechanical Engineers"-reg.

The Internet of Things allows Mechanical Engineers to follow the products they design throughout their entire product lifecycle, enabling engineers to learn how their design performs in reality so they can create more productive and efficient products in the future. By utilizing the cloud, IoT platforms, smart product components, big data, and connectivity, engineers will steer the future of industrial innovation. IoT is the technology engineers need to gain valuable insights and ultimately to improve designs. With IoT, there's enormous potential for Mechanical Engineers to design better, smarter products. The growing network of connected products means a new set of mechanical engineering skills. To design smart products, Mechanical Engineers will need to learn how to seamlessly integrate digital and mechanical aspects, and how to influence big data to inform future designs.

The guest lecture on "Internet of Things for Mechanical Engineers" has been arranged on 22nd January 2019 (delivered by Mr. A.Parthiban from Lema Labs (incubated at IIT Madras incubation cell) for second year and third year Mechanical Engineering students. Many students (around 62 students) showed interest on IoT and requested us for arrange the short term training/workshop on IoT in our premises.

Based on the students request, it is proposed to conduct the Three Day workshop on IoT using Arduino for Mechanical Engineers on 13th, 14th & 15th February 2019 for the batch of first 31 students and 18th, 19st & 20th February 2019 for the remaining 31 students.

The fee details are as follows (as given by MS. Lema Labs),

- With Training resource materials **with take away kit - Rs. 2500/-** per candidate.
- With Training resource materials **without take away kit - Rs. 1500/-** per candidate.

The Principal's kind permission is required for conducting the programme and to utilize imprest amount for providing refreshment to workshop attendees.

Thanking you,



(Dr. M. MOHANDASS)
Asso. Professors/ME
Workshop Coordinator



Dr. S. RAMESH BABU
HOD/ME
Workshop Convener

To: HOD-ME
Approved based on the
fact that the students wanted to
have the training
S. Ramesh
8/2/19.

REGISTRATION DETAILS:

Participants for this event are limited to 25 members and the selection is based on first come first serve basis. Hence, participants must register for the workshop to ensure their participation through email.

Registration fee: Rs. 2500/- (with kit)

: Rs. 1500 /- (without kit)

Deadline for registration: 05-02-2019

Intimation of confirmation: 08-02-2019

The payment can in the form of DD drawn in favour of “The Principal, Sri Venkateswara College of Engineering” payable at Chennai and send it by post/courier to reach ‘The Coordinator of the event’ on or before 08-02-2019.

Email id:

mdass@svce.ac.in, karthee@svce.ac.in

Contact numbers : 9445235139, 9994385896

Address for correspondence

Department of Mechanical Engineering
Sri Venkateswara College of Engineering
(Autonomous - Affiliated to ANNA University)



TARGETED PARTICIPANTS

Students from Mechanical discipline

RESOURCE PERSON

Eminent resource persons from LEMA labs, Chennai.

TOPICS COVERED

Introduction to IoT and its need, Basics of programming related to IoT, APP creation using MIT App inventor, Creating connection and controlling devices through internet, Case studies.

ADVISORY COMMITTEE:

Dr.M.Sivanadham,

Secretary - SVCE

Dr. S.Ganesh Vaidyanathan,

Principal – SVCE

Dr. S.Ramesh Babu,

HOD – Dept. of Mechanical Engineering.

THREE DAY WORKSHOP ON INTERNET OF THINGS FOR MECHANICAL ENGINEERS (February 13 -15, 2019)

Convenor

Dr.S.Ramesh Babu, HoD/ME

Coordinators

Dr.M.Mohandass, ASP/ME

Mr.K.Karthee, AP/ME

Organised by



Department of Mechanical Engineering
Sri Venkateswara College of Engineering
(Autonomous - Affiliated to ANNA University)
Sriperumbudur tk - 602 117
www.svce.ac.in



THREE DAY WORKSHOP ON INTERNET OF THINGS FOR MECHANICAL ENGINEERS

(February 13 -15, 2019)

REGISTRATION FORM

NAME :

YEAR & SEC :

INSTITUTION :

PHONE/ MOBILE:

EMAIL ID :

AMOUNT : CASH /DD

DD NUMBER WITH DATE:

BANK BRANCH :

PLACE:

DATE : SIGNATURE OF
THE APPLICANT

ABOUT THE COLLEGE

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).

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering is one of the three major departments established during the beginning of the college. The department has well experienced faculty and staff members of proven ability and administrative skills. It has well equipped state of the art laboratories that cater to the needs of the students. The department also takes up industrial consultancy works from various industries. Three PG and one UG programmes are currently offered by the department.

ABOUT THE WORKSHOP

The Internet of Things (IoT) is the latest buzzword being talked about everywhere, yet many don't fully understand the concept behind the phrase or where this technology is currently at. Widely believed to be years away, the Internet of Things is here, and it's rapidly expanding. . The implementation of IoT would dramatically improve the problem of data collection and analysis, whether derived from customers or other sources, which in turn means faster and improved decision-making for businesses in all industries. This workshop's important objective is to make the students learn how IoT can be implemented related to mechanical engineering especially in manufacturing sector through hands on approach.





Dr. M. MOHANDASS MEC <mdass@svce.ac.in>

Three Day Workshop on IoT for Mechanical Engineers

Hod Mech <hodme@svce.ac.in>
To: Faculty Group <svcefaculty@svce.ac.in>

Wed, Feb 13, 2019 at 8:35 AM

----- Forwarded message -----

From: **Dr. M. MOHANDASS Mec** <mdass@svce.ac.in>
Date: Tue, 12 Feb 2019 at 18:50
Subject: Three Day Workshop on IoT for Mechanical Engineers
To: HOD MECH <hodme@svce.ac.in>

Dear Sir,

Kindly forward this mail to svce faculty group.


Dear Sir/Madam,

The Department of Mechanical Engineering cordially invites you for Inaugural function of “Three Day Workshop on IoT for Mechanical Engineers” to be held on 13th February 2019.

Please find the attachment is the invitation for the same.

With Regards

*Dr.M. Mohandass
Associate Professor
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK)*

 **IoT for Mechanical - Inauguration invitation.pdf**
343K

Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Three-Day Workshop on “Internet of Things (IoT) for Mechanical Engineers”
DETAILED SCHEDULE

Venue: Mechatronics Lab (II Floor Mechanical Block) Date:13th – 15th February 2019

DATE	SESSION	TIMING	TOPIC /DETAILS	Chief Guest/Expert Member
13/02/19		8.30 AM - 9.00 AM	Registration	
		9.00 AM - 9.30 AM	Inauguration	Dr. K.S. Badrinathan Professor & Dean Educational Development SVCE. (Chief Guest)
	1	9.30 AM - 10.30 AM	Introduction of IoT and how it is applied in Mechanical field	Expert Members from Lema Labs
		10.30 AM - 10.45 AM	Tea & Snacks	
	2	10.45 AM -12.05 PM	IoT over intranet, Industry 4.0	Expert Members from Lema Labs
		12.05 PM - 12.45 PM	Lunch Break	
	3	12.45 PM - 2.00 PM	Basics of programming (HTML, Micro controller programming)	Expert Members from Lema Labs
		2.00 PM - 2.15PM	Tea & Snacks	
	4	2.10 PM - 3.15 PM	Creating Server and client	Expert Members from Lema Labs
		3.15 PM - 4.00 PM	Doubt clarification and discussions of covered topics	Expert Members from Lema Labs

14/02/19	1	9.00 AM - 10.30 AM	How to Create APPS using MIT App inventor	Expert Members from Lema Labs
		10.30 AM - 10.45 AM	Tea & Snacks	
	2	10.45 AM -12.05 PM	interfacing and connecting sensors & controller with APPS	Expert Members from Lema Labs
		12.05 PM - 12.45 PM	Lunch Break	
	3	12.45 PM - 2.00 PM	Controlling devices over internet	Expert Members from Lema Labs
		2.00 PM - 2.15PM	Tea & Snacks	
	4	2.10 PM - 3.15 PM	Controlling devices over internet (cont.)	Expert Members from Lema Labs
	3.15 PM - 4.00 PM	Doubt clarification and discussions of covered topics	Expert Members from Lema Labs	
15/02/19	1	9.00 AM - 10.30 AM	Split into 6 teams and each team assigned a project	Expert Members from Lema Labs
		10.30 AM - 10.45 AM	Tea & Snacks	
	2	10.45 AM -12.05 PM	Team developed code for the given project	Expert Members from Lema Labs
		12.05 PM - 12.45 PM	Lunch Break	
	3	12.45 PM - 2.00 PM	Executed the project and presented to other members	Expert Members from Lema Labs & SVCE Faculties
		2.30 PM - 2.45PM	Tea & Snacks	
		2.45 PM - 3.15 PM	Valedictory	Dr. R.Ramesh, Professor & Assistant Dean (Academic), SVCE.

Expert Members from Lema Labs : Mr. Pawan Gnana Raj (Facilitator), Mr. Parthiban A (Facilitator) & two Assisting staffs (for software installation, connection establishment & hardware troubleshooting)

SRI VENKATESWARA COLLEGE OF ENGINEERING

(An Autonomous Institution – Affiliated to Anna University)

Pennalur, Sriperumbudur (TK) – 602 117



DEPARTMENT OF MECHANICAL ENGINEERING

Solicit your esteemed presence for the

INAUGURAL FUNCTION

of

Three Day Workshop on

INTERNET OF THINGS

for Mechanical Engineers

Inaugural Address by

Dr. K.S. Badrinathan

Professor & Dean Educational Development

Sri Venkateswara College of Engineering

Venue	:	Mechatronics Lab, ME Dept.
Date	:	13th February 2019
Timings	:	9.00 AM to 9.30 AM

ALL ARE WELCOME

Three Day Workshop on Internet of Things for Mechanical Engineers

Inaugural Function

Date: 13th February 2019

Timings – 9.00 AM to 9.30 AM

Program Schedule

- Invocation : **Prayer**
- Welcome Address : **Dr. M. Mohandass**
Workshop Coordinator
- HOD Address : **Dr. S. Ramesh Babu**
Professor & Head
Department of Mechanical Engineering
- Inaugural Address : **Dr. K. S. Badrinathan**
Professor & Dean Educational Development
Sri Venkateswara College of Engineering
- Honouring Chief Guest : **Dr. S. Ramesh Babu,**
Professor & Head
Department of Mechanical Engineering
- Vote of Thanks : **Mr. K. Karthee**
Workshop Coordinator
- National Anthem

Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Three Day Workshop on IoT for Mechanical Engineers
13th – 15th February 2019

List of Participants

SNo	Roll No	Register Number	Name
1	100	161001100	M.Sri Harish
2	83	161001083	Rahul.S
3	91	161001091	Sathish P
4	13	161001013	Arunagiri Adhithian R
5	24	161001024	Dhannush S
6	18	161001018	Aushwin S
7	23	161001023	L.David Allen Vaz
8	34	161001034	Hariharan R
9	10	161001010	Ananda Karthick N
10	42	161001042	kanishkumar S
11	39	161001039	Henry Rahul A
12	30	161001030	Gopikrishna V
13	58	161001058	Melvin MR
14	17	161001017	Athul N M
15	32	161001032	Hari Prasadh. S
16	301	161001301	A Arun
17	43	161001043	T V Karthik balaji
18	48	161001048	Kirubakar V K
19	302	161001302	Bharathi Mohan S
20	3	181013003	Padmesh U
21	73	161001073	T.V.Nithin Kumar
22	90	161001090	R.Sarvesh Kumar
23	14	161001014	K.S.Arun Raj
24	6	161001006	J.Akash Kannan



Dr. M. Mohandass

Coordinator



Dr. S. RAMESH BABU, M.E., Ph.D
Professor & Head
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK) - 602117.
Tamilnadu, INDIA.

Convener

ATTENDANCE FOR WORKSHOP - INTERNET OF THINGS (IoT) FOR MECHANICAL ENGINEERS

SNo	Roll No	Register Number	Name	13/02/2019 (FN)	13/02/2019 (AN)	14/02/2019 (FN)	14/02/2019 (AN)	15/02/2019 (FN)	15/02/2019 (AN)
1	100	161001100	M.Sri Harish	M. sath	M. sath	M. sath	M. sath	M. sath	M. sath
2	83	161001083	Rahul.S	S. Rahul	S. Rahul	S. Rahul	S. Rahul	S. Rahul	S. Rahul
3	91	161001091	Sathish P	P. Sathish	P. Sathish	P. Sathish	P. Sathish	P. Sathish	P. Sathish
4	13	161001013	Arunagiri Adhithian R	Radhithian	Radhithian	Radhithian	Radhithian	Radhithian	Radhithian
5	24	161001024	Dhannush S	Dh	Dh	Dh	Dh	Dh	Dh
6	18	161001018	Aushwin S	Aushin	Aushin	Aushin	Aushin	Aushin	Aushin
7	23	161001023	L. David Allen Vaz	Allen	Allen	Allen	Allen	Allen	Allen
8	34	161001034	Hariharan R	Hariharan R	Hariharan R	Hariharan R	Hariharan R	Hariharan R	Hariharan R
9	10	161001010	Ananda Karthick N	AN	AN	AN	AN	AN	AN
10	42	161001042	kanishkumar S	Kanish	Kanish	Kanish	Kanish	Kanish	Kanish
11	39	161001039	Henry Rahul A	H.R.A.	H.R.A.	H.R.A.	H.R.A.	H.R.A.	H.R.A.
12	30	161001030	Gopikrishna V	V. Gopikrishna	V. Gopikrishna	V. Gopikrishna	V. Gopikrishna	V. Gopikrishna	V. Gopikrishna
13	58	161001058	Melvin MR	Melvin	Melvin	Melvin	Melvin	Melvin	Melvin
14	17	161001017	Athul N M	Athul	Athul	Athul	Athul	Athul	Athul
15	32	161001032	Hari Prasad. S	Hari Prasad	Hari Prasad	Hari Prasad	Hari Prasad	Hari Prasad	Hari Prasad
16	301	161001301	A Arun	A. Arun	A. Arun	A. Arun	A. Arun	A. Arun	A. Arun
17	43	161001043	T V Karthik balaji	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik
18	48	161001048	Kirubakar V K	Kirubakar	Kirubakar	Kirubakar	Kirubakar	Kirubakar	Kirubakar
19	302	161001302	Bharathi Mohan S	S. Bharathi	S. Bharathi	S. Bharathi	S. Bharathi	S. Bharathi	S. Bharathi
20	3	181013003	Padmesh U	Padmesh	Padmesh	Padmesh	Padmesh	Padmesh	Padmesh
21	73	161001073	T.V.Nithin Kumar	Nithin	Nithin	Nithin	Nithin	Nithin	Nithin
22	90	161001090	R.Sarvesh Kumar	R. Sarvesh	R. Sarvesh	R. Sarvesh	R. Sarvesh	R. Sarvesh	R. Sarvesh
23	14	161001014	K.S.Arun Raj	Arun	Arun	Arun	Arun	Arun	Arun
24	6	161001006	J.Akash Kannan	Akash	Akash	Akash	Akash	Akash	Akash

M. Mohandss

Dr. M. Mohandss
Asso. Prof./Mech
Coordinator

Ramesh Babu

Dr. S. Ramesh Babu
Prof. & Head/Mech
Convener

Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Three-Day Workshop on
“Internet of Things (IoT) for Mechanical Engineers”
(13th – 15th February 2019)


DETAILED REPORT

The Department of Mechanical Engineering organized a Three Day workshop on “**Internet of Things (IoT) for Mechanical Engineers**” from 13th to 15th February 2019. The program was inaugurated by Dr. K.S. Badrinathan, Professor & Dean Educational Development, SVCE and the same was presided over by Dr. S. Ramesh Babu, Professor & Head, Mechanical Engineering.

The inaugural function of the workshop held on 13th February 2019 at 9.00 AM in the Mechatronics Laboratory, Mechanical Engineering Department. Dr. M. Mohandass, Associate Professor (one of the program coordinators) delivered the welcome address. Dr. S. Ramesh Babu HOD/ME, during his presidential address he elaborated the importance and need for this workshop. Dr. K.S. Badrinathan, during the inaugural address, he stated the importance and need to learn IoT and how it is making revolution in industry world. Finally Mr.K.Karthee, Assistant Professor (one of the program coordinator) presented the vote of thanks.

The third year Mechanical Engineering students from our college participated in the workshop. Totally 24 participants registered for the program. The attendees actively involved in all the sessions and also had a very good interaction with the expert members. Hands on experience was the main attraction of the workshop and it was delivered with the aid of providing individual kit to each student.

The valedictory function of the workshop held on 15th February 2019 at 2.45 PM at Mechatronics laboratory. Dr.R.Ramesh, Professor & Assistant Dean (Academic) has delivered the valedictory speech, during his valedictory address, he advised the participants to practice whatever they have learnt during the three days. All the participants appreciated the way in which the program was organized, the hospitality provided to them and especially stressed that their increase in knowledge level related to this topic. The series of lecture topics, speakers details and photographs are attached herewith.



Dr. M. Mohandass & Mr.K.Karthee
Workshop Coordinators

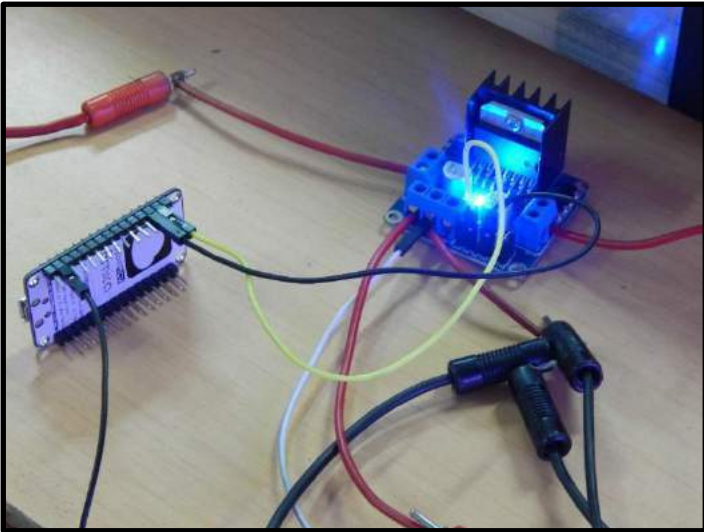


Dr. S. Ramesh Babu
Workshop Convenor

INAUGURAL FUNCTION & DAY 1 (13th February 2019)



DAY 2 (14th February 2019)



DAY 3 & VALEDICTORY FUNCTION (15th February 2019)



SRI VENKATESWARA COLLEGE OF ENGINEERING

(An Autonomous Institution, Affiliated to Anna University) Pennalur,
Sriperumbudur Taluk – 602 117



SOCIETY OF MECHANICAL ENGINEERS

Solicit your esteemed presence for the

VALEDICTORY FUNCTION

of

THREE DAY WORKSHOP ON

INTERNET OF THINGS

FOR MECHANICAL ENGINEERS

Valedictory Address by

Dr. Dr. R. Ramesh

Professor & Assistant Dean (Academic)

Sri Venkateswara College of Engineering

Venue	:	Mechatronics Lab
Date	:	15th February 2019
Timings	:	2.30 PM to 3.00 PM

ALL ARE WELCOME

**THREE DAY WORKSHOP ON
INTERNET OF THINGS
FOR MECHANICAL ENGINEERS**

Valedictory Function

Date: 15th February 2019

Timings – 2.30pm to 3.00pm

Program Schedule

- Welcome Address : **Dr. M. Mohandass**
Workshop Coordinator
- HOD Address : **Dr. S. Ramesh Babu**
Professor & Head
Department of Mechanical Engineering
- Valedictory Address : **Dr. Dr. R. Ramesh**
Professor & Assistant Dean (Academic)
Sri Venkateswara College of Engineering

Certificate Distribution

- Vote of Thanks : **Mr. K. Karthee**
Workshop Coordinator

National Anthem