

SRI VENKATESWARA COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS COMMUNICATION ENGINEERING

13-02-2018

SVCE/EC/Workshop/2017-18

Submitted to the Principal:

Sub: Proposal to organize Two days workshop on "Fundamentals of Electromagnetics, Demonstration and Simulation of RF and Microwave Components using HFSS".

It has been proposed to organize Two days workshop on "Fundamentals of Electromagnetics, Demonstration and Simulation of RF and Microwave Components using HFSS" from 2/03/2018 to 3/03/2018 for faculty and final year PG students. The resource person for the workshop is from Entuple Technologies Pvt Ltd., Bangalore.

research scholars
faculty members
from other institutions

The budget for the workshop is Rs.30,000/-. The Indian Association of Physics Teachers (IAPT) has agreed to provide a sponsorship of Rs.15,000/-. The remaining expenditure will be met with the amount generated towards registration fee collected from the participants. The budget estimate is enclosed for your reference.

Hence, it is requested that the above proposal may be approved.

Dr. S. Muthukumar
19/2/18
Dr. S. Muthukumar
HOD - EC

P. R. L.
19/02/18
Coordinators

Dr.P. Jothilakshmi, Professor/EC
Mr. P. Muthukumar, Assistant Professor/EC

Co-coordinators
Ms.B. Hemalatha, Assistant Professor/EC
Ms.C. Gomatheeswari Preethika, Assistant Professor/EC
Mr. B. Nethaji, Assistant Professor/EC

To: HOD-EC
Approved
19/2

DECLARATION

The above information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the course for the entire duration. I also undertake the responsibility to inform the coordinators in case I am unable to attend the course.

Place:

Date:

Signature of the Applicant

SPONSORSHIP CERTIFICATE

Mr / Ms / Dr _____

_____ is an employee / student of our institute and is hereby sponsored. He / She will be permitted to attend the course for the entire duration, If selected.

Office Seal

Signature of the
Sponsoring authority

Place:

Date:

Application form completed in all aspects is to be sent to:

Dr.P.JOTHILAKSHMI
Professor
Co-ordinator

Dept of Electronics and Communication Engg,
SRI VENKATESWARA COLLEGE OF ENGINEERING

Post Bag No.1, Pennalur Village
Chennai - Bengaluru High Road
Sriperumbudur Tk. - 602 117
Kancheepuram District
TAMIL NADU.

RESOURCE PERSONS

Entuple Technologies pvt Ltd, Bangalore &
Internal Experts

ELIGIBILITY

Personnel from AICTE approved Engineering Colleges
PG Students, Industry persons and Research Scholars.

REGISTRATION

Registration fee: Rs.500

HOW TO APPLY

The applicants should send their applications in the specified format along with a DD drawn in favor of "The Principal, Sri Venkateswara College of Engineering", payable at Indian Bank, Sriperumbudur should reach on or before 27.02.2018. If selected, they should confirm their participation as per schedule below.

SCHEDULED DATES

Last Date for Receipt of Applications : 27.02.2018
Intimation of Selection by e-mail : 28.02.2018

TRANSPORT

The participants can avail the SVCE bus facility to attend this workshop, For transportation details, please refer to our college website.



SRI VENKATESWARA COLLEGE OF ENGINEERING
(Autonomous - Affiliated to Anna University)
(An ISO 9001:2008 Certified College)

CONDUCTS

TWO DAYS WORKSHOP ON

"Fundamentals of

**Electromagnetics, Demonstration and Simulation of
RF and Microwave Components Using HFSS"**

2nd & 3rd March, 2018

Convenor

Dr.S.MUTHUKUMAR, HOD/EC

coordinators

Dr.P.JOTHILAKSHMI, Professor

Mr.P.MUTHUKUMARAN, Assistant Professor

Co-coordinators

Ms.HEMALATHA, Assistant Professor

Ms.GOMATHESWARI, Assistant Professor

Mr.B.NETHAJI, Assistant Professor

Organized by

Dept. of Electronics & Communication Engg.,

Contact Details:

Mobile: 9884606127

Tel: 044-27152000, Ext: 201, 203.

E-mail: jothi@svce.ac.in

website: www.svce.ac.in

Workshop Agenda:

The purpose of this workshop is to focus on fundamental concepts of electromagnetic fields and antenna design. To familiarize 3D full wave HFSS Simulation Software which is used to design high frequency and high speed RF and microwave components.

HFSS has been used by RF and microwave engineers to design high-frequency components found in communication systems, radar systems, satellites, smart phones and tablet devices. The technology addresses a wide range of RF and microwave engineering challenges, and these applications benefit greatly from the automated meshing feature and resulting high solution accuracy. The end result is the highest-fidelity solution with the best-in-class solution time. HFSS benefits from multiple state-of-the-art solver technologies, allowing users to match the appropriate solver to any simulation need. Each solver is a powerful, automated solution process in which the user specifies geometry, material properties and the desired range of solution frequencies. Based on this input, HFSS automatically generates the most appropriate, efficient and accurate mesh for the simulation, thereby leading to the highest-fidelity solution possible



ANSYS



ABOUT THE INSTITUTION

Sri Venkateswara College of Engineering (SVCE), one of the Premier Technical Institutions in Tamilnadu, was established in 1985, approved by AICTE New Delhi and affiliated to Anna University, Chennai has completed 32 years of dedicated and excellent service in the field of technical education. The College is situated on the Chennai – Bangalore National Highway (NH4) about 37 km south-west of Chennai. The college offers 10 UG programmes and 10 PG programmes. Most of the programmes are accredited by The National Board of Accreditation (NBA) and SVCE is an ISO 9001:2015 certified institution.

ABOUT THE DEPARTMENT

The Electronics and Communication Engineering department occupies a prominent place in the chronicles of its academic history. The specialization of the faculty includes Telecommunication engineering, Computer Networks, Control Systems, VLSI, Digital Signal Processing, Microwave Systems, Applied Electronics, Microprocessor and Micro Controllers etc. The department has excellent laboratory facilities in the areas like Networking, Microprocessors & Microcontrollers, Electronic Devices, Communication, RF, Microwave, VLSI, Digital Signal Processing, Applied Electronics, with our latest software. The department offers four year UG programme in ECE and two year PG programmes in Communication Systems and Applied Electronics. The department is a approved research center by Anna University. Around 45 Research scholars are pursuing their full time and part time Ph.D in the research center.

SRI VENKATESWARA COLLEGE OF ENGINEERING
(Autonomous - Affiliated to Anna University)

Post Bag No.1, Pennalur Village
Chennai - Bengaluru High Road
Sriperumbudur Tk. - 602 117

Kancheepuram District, TAMIL NADU.



Conducts

Two days workshop on

"Fundamentals of

**Electromagnetics, Demonstration and Simulation of
RF and Microwave Components Using HFSS"**

2nd & 3rd March, 2k18

APPLICATION FORM

Name:

Department:

Educational

Qualification:

Age:

Organization:

Designation:

Address for

Communication:

E-mail ID:

Mobile Number:

Signature of the

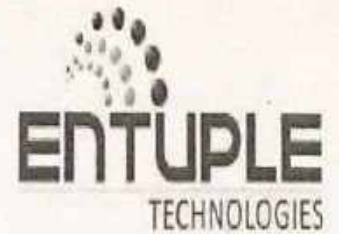
Sponsoring Authority

Signature of the

Applicant



SRI VENKATESWARA COLLEGE
OF ENGINEERING
DEPARTMENT OF ECE



TWO DAYS WORKSHOP ON FUNDAMENTALS OF ELECTROMAGNETICS,
DEMONSTRATION AND SIMULATION OF RF AND MICROWAVE COMPONENTS USING
HFSS

PROGRAMME SCHEDULE

DAY 1

DATE / VENUE	TIME	PROGRAMME
02.03.2018 VIDEO HALL	9.00AM – 10.00AM	PRAYER SONG
		WELCOME ADDRESS
		INAUGURATION
		INTRODUCTION OF CHIEF GUEST
		HOD ADDRESS
02.03.2018	10.00AM – 10.15AM	TEA BREAK
02.03.2018 VIDEO HALL	10.15AM – 12.00PM	<ul style="list-style-type: none">➤ HFSS INTRODUCTION,➤ HIGH FREQUENCY STRUCTURAL SIMULATION AND ANALYSIS BASICS- TOOL FLOW,➤ DESIGN OF MICROSTRIP PATCH ANTENNA
02.03.2018	12.00PM – 12.45PM	LUNCH BREAK
02.03.2018 VIDEO HALL	12.45PM – 3.15PM	<ul style="list-style-type: none">➤ SIMULATION OF AN EDGE FEED MICROSTRIP PATCH ANTENNA IN HFSS,➤ POST-PROCESSING AND OPTIMIZATION OF THE PATCH ANTENNA➤ APPLICATIONS OF HFSS.

DAY 2

DATE / VENUE	TIME	PROGRAMME
03.03.2018 VIDEO HALL	9.00AM – 10.30AM	SESSION BY Dr. P.JOTHILAKSHMI PROFESSOR/ECE
03.03.2018	10.30AM – 10.45AM	TEA BREAK
03.03.2018 VIDEO HALL	10.45AM – 12.15PM	SESSION BY Ms. B.HEMALATHA ASSISTANT PROFESSOR/ECE
02.03.2018	12.15PM – 1.00PM	LUNCH BREAK
02.03.2018	1.00PM – 2.30PM	SESSION BY Mr.P.MUTHUKUMARAN ASSISTANT PROFESSOR/ECE
02.03.2018 VIDEO HALL	2.45PM-3.15PM	FEEDBACK FROM THE PARTICIPANTS
		CERTIFICATE DISTRIBUTION
		VOTE OF THANKS

Duthakumar

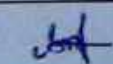


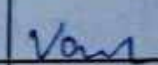

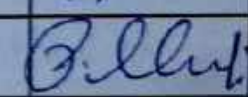
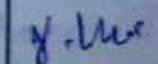
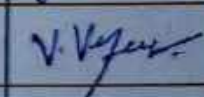
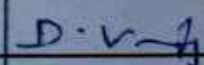

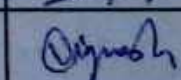
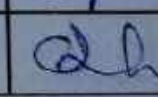
PJO

Dr. P. JOTHILAKSHMI
Professor
Electronics and Communication Engineering
Sri Venkateswara College of Engineering,
Pennalur, Siperumbudur - 602 117

SRI VENKATESWARA COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

Two days Workshop on "Fundamentals of Electromagnetics, Demonstration and Simulation of RF and Microwave Components using HFSS" from 02.03.2018 and 03.03.2018.

Sl. No.	Name of the participants	College Name	Mail id	Mobile number	Signature
177 → 1	R. SRILAKSHMI	REC, THANDALAM	Srilakshu.pravin@gmail.com	8939998842	
✓ 2	A. Prem Kumar	AAIST	apk641855@gmail.com	9500478049	
✓ 3	S. Vetr	AAJIT	Vetricee.s2@gmail.com	9894505951	
✓ 4	N. VARMIKA	SVCE	Varnikavidesh@gmail.com	9500244851	
✓ 5	Raamkumar T	SVCE	raamki007@gmail.com	9789851561	
✓ 6	Pradhana Mounkumar	SVCE	mounkumar.pradhani@gmail.com	9791563560	
✓ 7	Parvatata Prasanth	SVCE	spatkeyes@gmail.com	8056243363	
✓ 8	V. Venkataramanan	REC/ Thandalam	venkataramanan32@gmail.com	9043231089	
9	D. Vidhya	SVCE	vidhyadevace@gmail.com	8220827287	
✓ 10	Sebastian Aashish	SVCE	sebastianashish@gmail.com	8939558387	
11.	Vigneshwar	SVCE	vickynnu.gopi@gmail.com	9123501121	
12.	G. Usha	CIT	ushashanthius@gmail.com	8056958139	

SRI VENKATESWARA COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

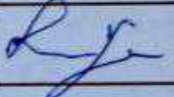
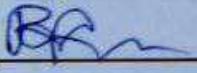
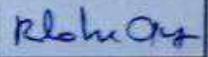


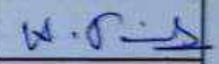





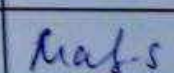
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Sl. No.	Name of the participants	College Name	Mail id	Mobile number	Signature
✓ 13	cchoobarya.	CIT	cchoobarya222@gmail.com	7418203173	<i>[Signature]</i>
14.	N.K.SRINIVASAN	CIT	srinivasankece@gmail.com	7845434169	<i>[Signature]</i>
15	YAMINI A	CIT	mini@sweetly97@gmail.com	9500857779	<i>[Signature]</i>
16.	Periyamayaki. K	CIT	perijayanthi@gmail.com	9585409959	<i>[Signature]</i>
17.	Sarath kumar. J	CIT	sarath1471998@gmail.com	9994881141	<i>[Signature]</i>
17.	ARIRAM. M	CIT	ramariramesh@gmail.com	7904525316	<i>[Signature]</i>
300 300 19.	A.Bharathi priya	SVCE	bharathipriya@svce.ac.in	91840847247	<i>[Signature]</i>
20.	M. Rekha	SVCE	rekham@svce.ac.in	7871562562	<i>[Signature]</i>
✓ 21.	A. Sivakumar	SVCE	sivaaec07@gmail.com	9943932024	<i>[Signature]</i>
22.	V. Chinnammal	RIT	vchinnammal@gmail.com	9840468882	<i>[Signature]</i>
✓ 23.	S. Umamaheswari	SEC	umamaheswari@sreeetha.ac.in	8015989183	<i>[Signature]</i>
✓ 24.	D.J. Priscilla Mary	SEC	priscilla@sreeetha.ac.in	9791599475	<i>[Signature]</i>

SRI VENKATESWARA COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

Two days Workshop on "Fundamentals of Electromagnetics, Demonstration and Simulation of RF and Microwave Components using HFSS" from 02.03.2018 and 03.03.2018.

Sl. No.	Name of the participants	College Name	Mail id	Mobile number	Signature
25	N.V. Lakshminarayana	SVCE	nvlakshminarayana96@gmail.com	9543853644	
26	T.S. Priyadharsini	SVCE	youngswitha@gmail.com	9962989441	
27	R. MOHANA SUNDARAM	SVCE	msundaramv@gmail.com	9994275535	
28	S. Reetha AP-EC	SVCE	sreetha@svce.ac.in	9940376515	
29	Dr. T.V. PACTAVATHY	RMKEC	tvprsn@gmail.com	9962552691	
30	Prem Kumar. H	RMKEC	premkumariron007@gmail.com	9884141179	
31	K. PRAVEEN KUMAR	RMKEC	praveenkumareceptk@gmail.com	8807485850	
32	Michael Nadin. A	RMKEC	nadinnichael15235@gmail.com	9952813316	
33	Tarun Kumar	RMKEC	tarunkumar2498@gmail.com	9047517133	
34	Rokesh. B	RMKEC	rokedho4@gmail.com	9884959960	
35	Mahashini -P.S.	RMKEC	mahashini.ps@gmail.com	7010259069	
36	S. Manisha	RMKEC	manishasrinivasan26@gmail.com	9445175614	

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Sl. No.	Name of the participants	College Name	Mail id	Mobile number	Signature
300 → 37	G. Loganathan	2127 - SVCE	loganathan@svce.ac.in	9994778512	Loganathan
NP 38	P. Venkatesh	2127 - SVCE	pvenkatesh@svce.ac.in	9597846846	P. Venkatesh
300 39	S. SARAVANAN	SVCE	saravanan@svce.ac.in	9884806830	S. Saravanan

Dr. P. JOTHILAKSHMI

Professor

Electronics and Communication Engineering
Sri Venkateswara College of Engineering
Penukonda, Sirciserumbodur - 602 117

P. J.

D. Venkatesh

SRI VENKATESWARA COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

A Report on Workshop on Fundamentals of Electromagnetics, Demonstration and Simulation of RF and Microwave Components using HFSS

Two days Workshop on "Fundamentals of Electromagnetics, Demonstration and Simulation of RF and Microwave Components using HFSS" in association with Entuple Technologies was organized by ECE Department during 02/03/2018 and 03/03/2018. The workshop started with a prayer song. Dr.S.Muthukumar, HOD-EC inaugurated the workshop by lightening the Kuthu-Vilakku. The Welcome address was given by our HOD. The Chief Guest introduction was given Dr.P.Jothilakshmi, Professor, ECE, SVCE.

The key note address on HFSS Introduction, Tool flow was given by Mr.K.Karthikeyan, Field Application Engineer-HF, Entuple Technologies, Bangalore. Post lunch he simulated an Edge Feed Microstrip Patch Antenna in HFSS and discussed about post processing and its optimization. The day concluded with presentation of the memento to the chief guest by Dr.S.Muthukumar, Head of the Department, ECE.



The second day had three sessions. The forenoon session was handled by Dr.P.Jothilakshmi, Professor, ECE, SVCE on “Fundamentals of Antenna parameters and Designs”. The session was useful to recollect the basics of antenna.



Followed by this session, “Hands-on training using HFSS” was given by Ms.B.Hemalatha, Assistant Professor, ECE, SVCE. Design of Micro strip patch antenna for various frequencies was simulated. Post lunch the session on “Essentials and Derivation of Maxwells Equations” was taken by Mr.P.Muthukumaran, Assistant Professor, ECE SVCE.



The Valedictory Address was given by our HOD, followed by certificate distribution to the participant. The Vote of Thanks was given by Mr B.Nethaji, Assistant Professor,ECE. Finally the event was completed with National Anthem.

EVENT COORDINATOR
Dr.P.Jothilakshmi,
Professor, ECE
Dept,SVCE

HoD/ECE
Dr.S.Muthukumar

SRI VENKATESWARA COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

Two days Workshop on "FUNDAMENTALS OF ELECTROMAGNETICS,
DEMONSTRATION AND SIMULATION OF RF AND MICROWAVE
COMPONENTS USING HFSS" (2nd & 3rd March 2018)

Participants Feedback Form

Date : 03/03/2018

Name of the Participant : V. Venkata Ramanan
Designation : ME
Institution : Raja Lakshmi Engineering college
Contact Address : REC, Theendalam.
Email id : Venikataramanan32@gmail.com
Hospitality : Good
Organization of the Program : Very Good.
Any other comments : Really a useful workshop to gain
knowledge about HFSS and antenna
second day is more interesting than first day
Signature : V. Vignesh

SRI VENKATESWARA COLLEGE OF ENGINEERING
DEPARTMENT OF ECE

Two days Workshop on "FUNDAMENTALS OF ELECTROMAGNETICS,
DEMONSTRATION AND SIMULATION OF RF AND MICROWAVE
COMPONENTS USING HFSS" (2nd & 3rd March 2018)

Participants Feedback Form

Date : 03/03/2018

Name of the Participant : R. SRILAKSHMI

Designation : RESEARCH SCHOLAR

Institution : RAJALAKSHMI ENGINEERING
COLLEGE, THANDALAM

Contact Address : " "

Email id : srilakshu.praavin@gmail.com

Hospitality : Very good.

Organization of the Program : very much useful.

Any other comments : with Entuple technologies,
I got the overall idea about HFSS s/w. Today's
session on antenna basics was very informative.
The hands on training on designing patch antenna
was helpful. It will be very much helpful if we have more
hands on training sessions on
HFSS/CST.

Signature : 