

SRI VENKATESWARA COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

7-02-17

SVCE/EC/Workshop/2018-17

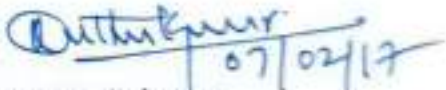
Submitted to the Principal:

Sub: Proposal to organize a Workshop on "Antenna Design and Simulation using FEKO Tool"

It has been proposed to organize a Workshop titled "Antenna Design and Simulation using FEKO Tool" on 20/02/2017 for faculty and final year PG students. The resource person for the workshop is Mr. Sumith Pillai, Application Engineer, Electromagnetics, Altair Engineering India.

The budget for the workshop is Rs.10,000/-. The Indian association of Physics Teachers (IAPT) has agreed to provide a sponsorship of Rs.5000/-. 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.


07/02/17
Dr. S. Muthukumar

HOD - EC


7/2/17
Coordinators

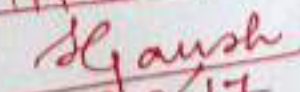
Dr. P. Jothilakshmi, Professor/EC

Ms. B. Hemalatha, AP/EC

Ms. C. Gomatheeswari Preethika, AP/EC

Mr. B. Nethaji, AP/EC

To: HOD - EC

Approved

8/2/17

Workshop Agenda:

Basics of Antenna Designs and EM principles

Basic EM radiation principles and the various concepts involved in antenna engineering, e.g. near field vs. far field radiation, S-parameters, resonance, gain, directivity, etc.

Basic knowledge of mathematical models for Maxwell's equations

Introduction to the FEKO workflow and model setup and solving with FEKO.

The basic antenna designs engineering covering antenna like microstrip, broad-band antennas, printed antennas, corporate feeds and microwave devices (e.g. waveguide filters and couplers, matching networks)

Introduction to high frequency methods like PO, RL-GO and UTD.

Advanced model construction methods through application driven examples on antenna arrays, Radomes, RCS, antenna placement on aircrafts, naval antenna systems, etc.

Hands-On Training on EM Simulation software tool:

Antenna Design and EM Simulation software is needed for fast and accurate electromagnetic methods to ensure optimum prototyping and validation of antenna designs. The software makes the task easy. For example, tasks on designing, simulating or verification of antennas, or any other CEM analysis such as radiation patterns, field calculations, input impedances, coupling, scattering, gain and losses can be calculated much faster by the EM simulation software FEKO.

Sponsor By



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 30 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. The National Board of Accreditation has accredited many of the eligible programmes, and SVCE is an ISO 9001:2008 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 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 40 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.

PRESENTS

"One day Workshop on Antenna Design and Simulation Using FEKO Tool"

20th February, 2017

APPLICATION FORM

Name:

Department:

Educational

Qualification:

Age:

Organization:

Designation:

Address for

Communication:

E-mail ID:

Mobile Number:

SRI VENKATESWRA COLLEGE OF ENGINEERING
DEPARTMENT OF ECE
One day Workshop On Antenna Design and Simulation Using
FEKO Tool

PROGRAMME SCHEDULE

DATE / VENUE	TIME	PROGRAMME
20.02.2017 VIDEO HALL	9.00AM – 10.00AM	INAUGURATION
		PRAYER
		WELCOME ADDRESS
		INTRODUCTION OF CHIEF GUEST & HOD ADDRESS
		CHIEF GUEST ADDRESS
20.02.2017	10.00AM – 10.15AM	TEA BREAK
20.02.2017 VIDEO HALL	10.15AM – 12.00PM	INTRODUCTION TO BASICS OF ANTENNA AND ITS DESIGN
20.02.2017	12.00PM – 12.45PM	LUNCH BREAK
20.02.2017 SOFTWARE LAB/ECE	12.45PM – 2.45PM	HANDS ON TRAINING ON ANTENNA DESIGN USING FEKO TOOL
20.02.2017 VIDEO HALL	2.45PM-3.15PM	FEEDBACK FROM THE PARTICIPANTS
		CERTIFICATE DISTRIBUTION
		VOTE OF THANKS

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HOD/ECE



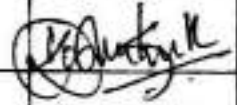
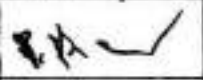
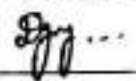
[Signature]
Dr. P. JOTHILAKSHMI
 Professor
 Electronics and Communication Engineering
 Sri Venkateswra College
 Petalika, Tirupurambudam

SRI VENKATESWARA COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

One day workshop on "ANTENNA DESIGN AND SIMULATION USING FEKO TOOL"

REGISTRATION FORM

Sl. No.	Name of the participants	College Name	Mail id	Mobile number	Signature
1	E. Sou Deepak	SEC	hsd7deetakk1@gmail.com	2902014771	
2	M. Barathram	SEC	barathram@gmail.com	9551627158	M. Barathram
3	N. Dhanraj	SEC	dhanraj@gmail.com	9629497317	N. Dhanraj
4	Harini N	SEC	harinirajimhan123@gmail.com	9176002637	Harini N
5	Karthik Prasanna S	SEC	karthik2096@gmail.com	9884700610	
6	Kuhare kumar R	SEC	kuharekumar1996@gmail.com	7667783931	
7	J. KARTH	REC	karthi.j@rajalakshmi.edu.in	9566454331	J. Karthi
8	K. Karthika	REC	Karthikakasaram11@gmail.com	9444738571	K. Karthika
9	R. RAJKUMAR	SYS college of Engg. Kovai	rajaisram22@gmail.com	9952355936	R. Rajkumar
10	P. RAMBASAMY	GIRANAMANI College of Tech. Namakkal	PrangaPhd@gmail.com	9994049574	
11	K. Radhika.	ALPHA COLLEGE OF ENGINEERING	radhikakannan@gmail.com	7871357842	Radhika K.
12	R. Divyasarathy	ALPHA COLLEGE OF ENGINEERING	divyasarajendiran96@gmail.com	7858464981	

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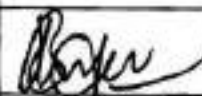
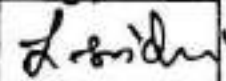
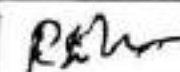

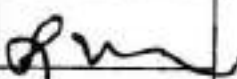
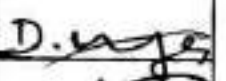


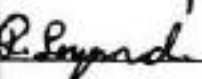
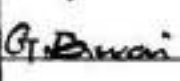
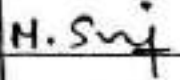

Sl. No.	Name of the participants	College Name	Mail id	Mobile number	Signature
✓ 13	VINMATHY. M	SVCE	vinmathy.amma@gmail.com	9962031428	U.V. M.
✓ 14	RAMYA. R	SVCE	ramya.sparks@gmail.com	8940731615	Rya. R
✓ 15	AKILA. A	SVCE	akikamul@gmail.com	9500081722	Akila
✓ 16	D. Bharathi	SVCE	harbitha710@gmail.com	9940121581	D. Bharathi
✓ 17	R. MOHANA SUNDARAM	SVCE	msundaram@gmail.com	9994275535	R. Mohan
✓ 18	MOHAN. C	SVCE	mohanrc803@gmail.com	9943844591	C. Mohan
✓ 19	K. Hemavathi	SVCE	hema.k2801@gmail.com	8754636119	K. Hemavathi
✓ 20	P. kalai. Vani	SVCE	kalaiVanipalani93@gmail.com	9944601680	P. Kalai Vani
✓ 21	U. Varun kumar	SEC	varunmatru2007@gmail.com	9671017186	U. Varun Kumar
✓ 22	V. Sneha	SVCE	v.sneha@yahoo.com	9629169085	V. Sneha
✓ 23	Ukhasya C	SSIT	balakumar ukhasya@gmail.com	9894296696	Ukhasya
✓ 24	Anupriya. V	SSIT	anupriya.0522@gmail.com	8148513413	Anupriya

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Department of Electronics and Communication Engineering

One day workshop on "ANTENNA DESIGN AND SIMULATION USING FEKO TOOL"

REGISTRATION FORM

Sl. No.	Name of the participants	College Name	Mail id	Mobile number	Signature
✓ 25	BHARATHI PEIYA .A	SVCE	abharadhi@gmail.com	9840847247	
✓ 26	SRIDEVI .L	SVCE	Sridevi.ece 92@gmail.com	785973689	
✓ 27	R. LAVARASI	SVCE	rlavarasi222@gmail.com	7599428567	
28	V. CHINNAMMAL	RIT	vchinnammal.v@ritcheennai.edu.in	9840468882	
29	S. VIJAYALAKSHMI	SVCE	svijalakshmisree@gmail.com	9942364503	
30	D. VIDHYA	SVCE	vidhyad@svceee@gmail.com	8220827289	
31	R. Chandralekha	SVCE	rchandralekha@gmail.com	8056697115	
32	A. Pram Kumar	AAIST	apkb41855@gmail.com	9500428649	
33	R. Sridhar	AAIST	rsridhar.ece@gmail.com	8838932383	
34	G. Eswari	AAIST	Eswari.ec601@gmail.com	7871885332	
35	M. Sureswathi	AAIST	Sureswathi.m.ece@gmail.com	8615775551	
36	N. Mahaswathi	AAIST	Ramya 10 N. @gmail.com	7708800845	

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Sl. No.	Name of the participants	College Name	Mail id	Mobile number	Signature
36	S. Vanmathi	AAIST	vanuu@gmail.com	9791558061	S. Vanmathi
38	M. Aswini	AAIST	aswinimECE.001@gmail.com	9655146788	Aswini
39	K. NIVETHA	AAIST	nivetha k ece.003@gmail.com	7094767796	K. Nivetha
40	G. Loganathan	SVCE	loganathang@svce.ac.in	9994778512	G. Loganathan
41	KUMARAN. N	SVCE	n.kumaran@svce.ac.in	9444320757	K. N. Kumaran
42	K. JOTHILAKSHMI	SVCE	kjothilakshmi@gmail.com	9585038105	K. Jothi.
43	Varnikha	SVCE	Varnikhavideh@gmail.com	8754294209	Varnikha
44	K. SRIVIDHYA	SVCE	srivi@svce.ac.in	9444438641	K. Srividhya
45	S. Deepira	SVCE	deepiramangai94@gmail.com	9442394469	S. Deepira
46	A. SIVAKUNAR	AAIST	sivareo@gmail.com	9943932026	A. Sivakumar
47	NIVEDHA P	SVCE	nive2693@yahoo.com	8056311879	Nivedha P
48	V. Ramkumar	AAIST	sivareo7@gmail.com	9943932026	V. Ramkumar

Dr. P. JOTHILAKSHMI
Professor

Electronics and Communication Engineering
Sri Venkateswara College of Engineering
Tirunelveli, Tirupurambodur - 602 117

P. Jothi

D. Srinivasan

SRI VENKATESWARA COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

A Report on “ Workshop on Physics, Design and Simulation of an Antenna using FEKO Tool”

One Day “Workshop on Physics, Design and Simulation of an Antenna using FEKO Tool“ was held on February 20th, 2017 conducted by Department of Electronics and Communication Engineering, SVCE in association with Altair Engineering India, Bengaluru. The Workshop was inaugurated with lighting of Kuthu-Vilakku by the Dr. S. Muthukumar, Head of the Department, Department of Electronics and Communication Engineering.



The Welcome address was given by Dr.S.Muthukumar, Head of the Department,EC. The introduction to Altair Engineering India was shared by Dr.P.Jothilakshmi, Professor,EC. The Key Note address on “Fundamentals of Physics Modeling and Application of Electromagnetic Concepts in Computational

Electro-magnetics(CEM)' is given by Mr. Yadhu Krishna M.K Project Engineer, Altair Engineering India. He discussed about the Smart Multi physics based antenna simulation using FEKO tool, the placement of antennas on electrically large structures and the calculation of scattering parameter as well as the investigation on electromagnetic compatibility (EMC), solvers for characteristic mode analysis (CMA), bi-directional cables coupling, Special formulations for efficient simulation of integrated windscreen antennas and antenna arrays.



In the afternoon session Ms.Soundarya Venkatesan, Project Engineer, Altair Engineering India,briefed about Design and Simulation of Smart Multiphysics based Antenna's using FEKO Tool. The design steps and hands-on implementation of the dipole antenna was also discussed.



The valedictory address was given by Dr.S.Muthukumar, Head of the Department, EC. He presented the momento to the Speakers and distributed the certificates to the participants. The vote of thanks was given by Ms. B. Hemalatha, Assistant Professor, EC. Finally the day was wrapped up with the National Anthem.

A handwritten signature in black ink, appearing to read 'P. Jothilakshmi'.

EVENT COORDINATOR

**Dr.P.Jothilakshmi,
Professor,
ECE Department,
SVCE**

A handwritten signature in black ink, appearing to read 'Dr. S. Muthukumar'.

Dr.S.Muthukumar

Sri Venkateswara College of Engineering

Department of Electronics and Communication Engineering

One Day Workshop on "ANTENNA DESIGN AND SIMULATION USING FEKO TOOL"

Participants Feedback Form

Date: 20/02/2017

Name of the Participant : RANGASAMY P
Designation : RESEARCH SCHOLAR - FULL TIME
Institution : GNANAMANI COLLEGE OF TECHNOLOGY
Contact Address : DEPARTMENT OF EEE
NH-7 SALEM MAIN ROAD, A.K. SAMUTHIRAM
PACHAL (PO), NAMAKKAL (DT) - 637019
E-mail id : prangaphd@gmail.com
Hospitality : GOOD
Organization of the program: VERY GOOD.
Any other comments : Workshop content is very good

Signature : 