



EAST WEST INSTITUTE OF TECHNOLOGY

#63, Off Magadi Road, Bengaluru, Karnataka - 560091 Ph.No.080 2328 8899 Website: <http://www.ewgi.in>

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Workshop on Antenna Design using HFSS Tool

Date: 22-02-2021 to 26-02-2021

Chief Patrons

Smt. Rashmi Ravikiran
Chairperson-EWGI

Mr. Tejas Kiran
Secretary-EWGI

Patrons

Dr. B Purushotham
Director-EWGI

Dr.K Channakeshavalu
Principal/Director-EWIT

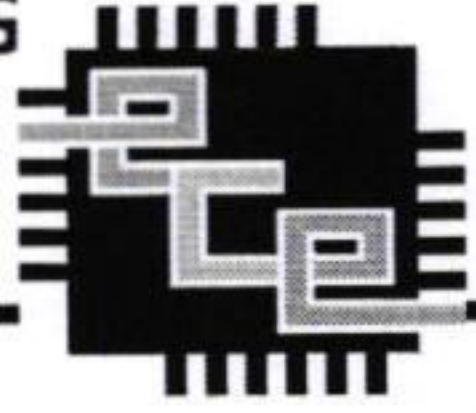
Convenor

Dr. S G Hiremath
Prof & Head, Dept . of ECE, EWIT

Resource Person

Mr. Ravi J
TechniLab Instruments, Bengaluru

No Registration fee



Timetable for Workshop/Seminar

Title: Five Days Hands-on workshop On “Antenna Design using HFSS Tool”

Date	Morning Session	LUNCH BREAK	After Session
	10:30 am to 1:00 pm		1:45 pm to 4:00 pm
22-02-21	Introduction to antenna and its application		Parameters to be considered while designing antenna
23-02-21	Introduction to HFSS tool, briefing about tool usage		Hands on demo on the tool
24-02-21	Designing rectangular patch antenna		Micro-strip patch antenna
25-02-21	Magic Tee design		Analyzing band pass filter
26-02-21	Band pass filter using HFSS		Valedictory program

85

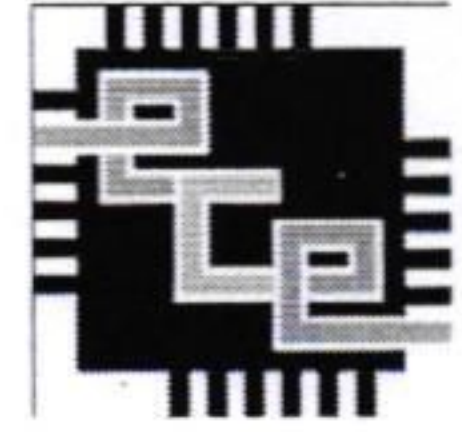
B. Hanu
 Principal & Director
 East West Institute of Technology
 Bengaluru - 560 091



EAST WEST INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

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Accredited by NAAC & Recognized U/S 2 (f) of the UGC Act 1956)



Date: 27/02/2021.

BRIEF REPORT ON

Five Days Hands-on workshop On “Antenna Design using HFSS Tool”

The Department of Electronics & Communication Engineering of East West Institute of Technology organized a five-days workshop on “Antenna Design using HFSS Tool”. The workshop was inaugurated by Dr. K. Channakeshavalu Principal EWIT, Dr. S G Hiremath HOD, Dept.of ECE, Mr Ravi J Technilab Instruments, Bengaluru ,teaching, non-teaching fraternity and students of ECE department on 22-02-21 at 10.00am.

HFSS offers an antenna design toolkit, a standalone utility which automates the geometry creation, solution setup, and post-processing reports for 50 popular antenna elements. This tool allows antenna designers to quickly analyze antenna types and also assists new users in learning to use HFSS for antenna design.

The purpose of this workshop was to get benefit from shared knowledge about antenna, microwave filter design with the historical background. The workshop was a forum for the exchange of information on the progress of research and development in innovative antenna technology. The focus made on to acquire knowledge about applications of advanced artificial materials to the antenna design and to create concrete foundation for further implementation of Communication Devices using HFSS software by bringing together the participants and industrial experts to provide a platform to acquaint & share new ideas in the field.


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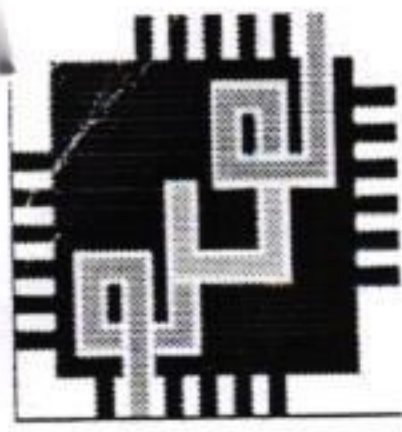
The main objective of this workshop is to give exposure to students on various types of Antennas and Antenna design software HFSS. The workshop has given a good insight about basic parameters of antenna, types of antenna and software tool HFSS. Students learned to design and simulate a micro strip antenna model and also observe results. This workshop also triggered students to do projects in this domain. It is helpful for the faculty who are pursuing research in antennas.

Interactive Hands On:

1. The rectangular Patch antenna: The objective of this model was to show, how to create, simulate and analyze a micro-strip Patch antenna at resonating frequency of 7.5 GHz.
2. Magic Tee: The example was intended to show how to create, simulate and analyze a Magic Tee, which is commonly used in microwave devices, using the Ansoft HFSS Design Environment.
3. Bandpass Filter: The model was designed to show how to create, simulate and analyze a bandpass filter at center frequency 1.50 GHz & bandwidth 1 GHz.

All the participants actively participated in this event, which includes the Hands on session too. They all interacted and exchanged their views with the experts, which makes the program successful.


HOD, ECE
Dr. S G Hiremath



Subramanya Education Society ®

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EAST WEST

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Title: Antenna Design using HFSS Tool on 22-02-2021 to 26-02-2021

Students:

SN	Name of the Students	USN	22-02-2021		23-02-2021		24-02-2021		25-02-2021		26-02-2021	
			Morning Session	Afternoon Session	Morning Session	Afternoon Session	Morning Session	Afternoon Session	Morning Session	Afternoon Session	Morning Session	Afternoon Session
1.	1EW19EC001	ABHINEET NARENDRA EKBOTE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.	1EW19EC002	AISHWARYA SAVANTH N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.	1EW19EC003	AJEET KUMAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.	1EW19EC004	ALOK B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.	1EW19EC005	AMIT V PATIL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6.	1EW19EC006	AMRUTHA C R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.	1EW19EC007	ANAY RAMAKANT MANTRI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8.	1EW19EC008	ANU R	✓	✓	✓	✓	A	✓	✓	✓	✓	✓
9.	1EW19EC009	ANUSHREE K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10.	1EW19EC010	APOORVA H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11.	1EW19EC011	APOORVA P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12.	1EW19EC012	BHAVANA A B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13.	1EW19EC013	BHAVANA C P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14.	1EW19EC014	BHAVYASHREE A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15.	1EW19EC015	BHOOMIKA B N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16.	1EW19EC016	BHOOMIKA H A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17.	1EW19EC017	BINDU SHREE H V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18.	1EW19EC018	CHAITHRA M S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19.	1EW19EC019	CHANDAN K S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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FEEDBACK FORM

Program Title: Workshop on Antenna Design using HFSS Tool

Date: 22-02-2021 to 26-02-2021

Duration: 9 AM - 4.30 PM (5 Days)

Name of the Resource Persons: Mr. Ravikumar J, Technilab Instruments, Bengaluru.

1) Did the program meet its objectives?

Yes

2) How useful were the inputs received from the program for your academics, rate in the scale of 1-10?

09

3) From the program did you acquire any of the innovative ideas for your future project work?

I got some idea for future project

4) Did the resource person focused on the topic coverage as per the schedule?

Very much

5) Do you feel you were given enough time and resources to complete the training?

Time management was good

RATING:

Please rate the following parameters on a scale of 1-10, 1 being least and 10 the highest

Sl No	Parameter	Rating	Remarks (if any)
1	Knowledge of the Presenter	09	
2	Presentation	08	
3	Program content	10	
4	Time management	09	
5	Overall usefulness	10	
6	Facilities	09	


Participant's Details

Name: ANU.R

Designation: Student

Date: 26/2/21

College: EWIT

Signature: 


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Yes

4) Did the resource person focused on the topic coverage as per the schedule?

Yes

5) Do you feel you were given enough time and resources to complete the training?

Yes

RATING:

Please rate the following parameters on a scale of 1-10, 1 being least and 10 the highest

Sl No	Parameter	Rating	Remarks (if any)
1	Knowledge of the Presenter	9	
2	Presentation	10	
3	Program content	10	
4	Time management	10	
5	Overall usefulness	9	
6	Facilities	9	

Participant's Details

Name: JANANI D

Designation: Student

Date: 26/02/2021

College: EWIT

Signature: Janani D

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- 1) Did the program meet its objectives? *Yes*
- 2) How useful were the inputs received from the program for your academics, rate in the scale of 1-10? *10*
- 3) From the program did you acquire any of the innovative ideas for your future project work? *Yes*
- 4) Did the resource person focused on the topic coverage as per the schedule? *Yes*
- 5) Do you feel you were given enough time and resources to complete the training? *Yes*

RATING:

Please rate the following parameters on a scale of 1-10, 1 being least and 10 the highest

Sl No	Parameter	Rating	Remarks (if any)
1	Knowledge of the Presenter	9	
2	Presentation	10	
3	Program content	9	
4	Time management	9	
5	Overall usefulness	10	
6	Facilities	10	

Participant's Details

Name: *Chitreshree*

Designation: *Student*

Date: *26/02/21*

College: *EWIT*

Signature: *Chitreshree*

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