DESIGN, SIMULATION AND ANALYSIS OF ANTENNA USING CST STUDIO SUITE

Event No	EC056
Organizing Department	Electronics and Communication Engineering
Date	23/03/2023 to 27/03/2023 (5 Days)
Time	08:45 AM to 04:15 PM
Event Type	VAC / Training Program
Event Level	Dept. Level
Venue	MBC Lab
Total Participants	21
Students - Internal	21

Related SDG

Involved Staffs

Sl	Name	Role
1	Seethalakshmi V	Coordinator
2	Nithya S	Coordinator

Outcome

The students were trained in the field of antenna design. Various antennas were developed for different set of frequency range and applications. The students will demonstrate the radiation pattern of various types of antennas developed, They will examine the performance of an antenna, analyze the performance metrics of new antenna design

Event Summary

Name of the course: Design, Simulation and Analysis of Antenna using CST Microwave Studio Suite
Date: 23.3.23 to 27.3.23
The VAC on Design, Simulation and Analysis of Antenna using CST Microwave Studio Suite was conducted by Dr.V.Seethalakshmi, Dr.S.Nithya, Mr.M.Singaram and Mr. R.Sathish Kumar.
The Event starts at 8.45am and ends at 4.15pm. Students were very much interactive during the entire session. Various antenna designs were developed under different frequency range and for different applications and simulation of antennas using CST were done.
CST Studio Suite antenna design covers a wide range of industries. Public broadcasting (TV/Radio), military, aerospace, and nautical industries have been using antennas for decades. More recently, the emergence of antennas in devices in our homes and handheld, smart devices. Oftentimes these devices contain several different antennas for communications at different frequencies. The most obvious example is a smartphone.In a smartphone, antennas are required for the 4 or 5G mobile network for the standard talk and internet connectivity. There is a WiFi antenna, for internet connectivity at home or in the office and an NFC antenna that allows us to pay with a tap of our phone. Because of our "smart" or "connected" devices, many more companies across all industries are using EM simulation to analyse the performance of the antennas required to communicate with the world.

CST Studio Suite

CST Studio Suite is an Electromagnetic analysis software package used to design, analyse, and optimize Electromagnetic Systems. CST Studio Suite contains many different solvers, all in a single user interface, that allow us to simulate the performance of a wide variety of Electromagnetic systems for both low-frequency and high-frequency applications.

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