CanSAT

This hands-on experience workshop is designed to equip students with essential understanding about satellites and how they operate, allowing them to develop and update their own satellites while solving existing difficulties in the satellite manufacturing sector.

Participants will also learn about sensors and bus connections, which are crucial in space technology. This will facilitate the learning and comprehending artificial intelligence-controlled technologies utilized in the fields of space and engineering.

➢ **Detail**

The workshop is divided into 2 days, each with 5+ hours of Theory & Practical sessions. The specifics of the workshops that will be held on each day are listed below.

Day 1 - Theory - Expert Talk by **Prof. R.R Elangovan, Ex-ISRO Scientist**
Topic - Introduction to Satellites and Opportunities in the Space Sector and Satellite Industry.
Practical - 1. Satellite Structural Composition, Developing base
Structure for CANSAT Module and Payload.
2. Designing a detailed Satellite structure with software.

Day 2. Theory - Introduction to avionics in space, Satellite Subsystem, and Software Applications.
Practical - Creating a rudimentary circuitry system and manually testing the connections between the motherboard, the sensors, and the BUS.
Day 2 - Second Half - Final assembly and development of can-satellite, Parachute Designing Final deployment & Data recovery.

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The event starts with a seminar by Prof. R.R Elangovan (Ex. ISRO Scientist) and a Hands-on experience workshop and deployment.

Professor R.R Elangovan, BSc. D.M.I.T, M. Tech, (I.I.T) (Ph.D.) (Aeronautical L Engineering, I.I.T). Former Colleague of Dr. APJ. ABDUL KALAM with a total of 42 years of experience (including 8 years of International Experience) in Research and Development.

➢ **Requirements From Participants.**
- **One laptop per group.**
- **Extension Board for Charging Accessories.**
- **Wifi Connectivity for the group for downloading the software.**

➢ **Eligibility : Student from first year onward from any department will participate in this workshop.**

* ***Winning a Prize is always a special moment.*** *

1st Prize winner will get a CanSAT kit Worth Rs.5000/-.

2nd Prize Winner will get a CanSAT kit worth Rs. 3000/-.

And all Participants will Disturbed certificate from ISRO.

- **The registration process and fees (group of 3 members):**

1) Rs.2550/- per group to be paid by a group representative.

2) The group representative can form his/her team consisting of three members and notify Organisers of the names of other team members. (email: faizaldalal184@gmail.com, adarsh1rao@gmail.com, 120simran0024@dbit.in)

*Rs. 350/- will be refunded to every IEEE member and Rs 150/- will be refunded to DBIT members respectively on the day of the event after furnishing relevant information.

Hurry !!

***Offer valid for first 20 registering groups of 3 members each.**