

Seminar/Interaction on "Small Satellites-BIG Applications"

14 August 2024 at Greenovator Innovation Foundation, NIT Srinagar at 14:00 hrs

Organised by

University of Kashmir, NIT Srinagar & Central University of Kashmir

Supported by

Indian Technology Congress Association (ITCA),
75 Students' Satellites Consortium Mission
CITech Satellite Project



Invited Speakers @ Greenovator Event held at NIT Srinagar



Prof. A. Ravinder Nath
Vice Chancellor,
Central University of Kashmir
Director (i/c), NIT Srinagar



Prof. Naseer Iqbal
Registrar,
University of
Kashmir



Prof. M. A. Shah
Professor, National
Institute of Technology,
Srinagar



Mr. Shahid Mir
CEO, Greenovator
Incubation Foundation
NIT Srinagar



Dr. G. N. Var
President,
Private School Association
of Jammu & Kashmir



Ms. Inbisat Yousuf Nath
Final Year, MSc, CUK
UNISEC India/75 Satellites Mission



Er. Nikhil Riyaz
Research Scientist, CIT
Founder & CEO, Hexeia P Ltd



Dr. Rukhsan UI Haq
Chinar Quantum AI
Founder - KIMS



Dr. K. Gopalakrishnan
CITech/Project Director,
75 Satellites Consortium Mission

OPENING REMARKS:

Prof. A. Ravinder Nath, Vice Chancellor, Central University of Kashmir and Director (i/c), NIT Srinagar

Dr. Naseer Iqbal, Registrar, University of Kashmir

Prof. M. A. Shah, Professor, National Institute of Technology, Srinagar

Prof. Mr. Shahid Mir, CEO, Greenovator Incubation Foundation, NIT Srinagar

Prof. Dr. Rukhsan UI Haq, Chinar Quantum AI and Founder & Kashmir Institute of Mathematical Sciences (KIMS)

Dr. G. N. Var, President, Private School Association of Jammu & Kashmir

INVITED KEYNOTE SPEAKERS:

Dr. K. Gopalakrishnan, Secretary General, UNISEC India & Indian Technology Congress Association;
Project Director, 75 Students' Satellites Consortium Mission; Professor Emeritus, Cambridge Institute of Technology

Topic: Small Satellite Initiatives in India and Opportunities for Academia-Small Satellites: BIG Applications

Er. Nikhil Riyaz, Research Scientist, CIT/TU Delft, Netherlands, Former Student Representative, UNISEC India

Topic: Fundamentals of CanSat-Cube Sat-NanoSat: Concept to Completion of Satellite Project

Ms. Inbisat Yousuf Nath, PG Scholar-Physics, Central University of Kashmir, Student Representative, UNISEC India

Topic: Orbital Simulations and Analysis for Nano Satellites Using MATLAB



Greenovator
Incubation Foundation

Private School Association of Jammu & Kashmir



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14 August 2024 at Greenovator Incubation Foundation, NIT Srinagar

Time: 14:00 hrs

Learning Resources/Books Provided for Self-Study/Hands-on Training

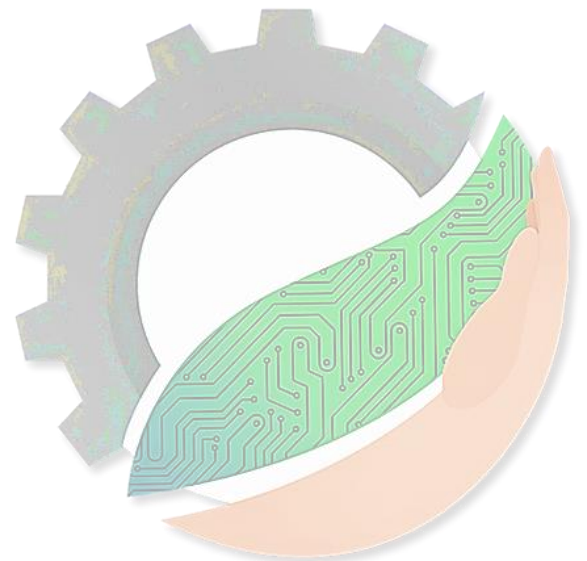
CanSat

Pico Size Artificial Satellite

A Guidebook for Building Successful CanSat Project

University Space Engineering Consortium (UNISEC)

Courtesy:
UNISEC Global,
Japan



Greenovator

Incubation Foundation

Courtesy: UNISEC India/ITCA

The cover of the book 'CanSats to CubeSats'. It features a central image of a cylindrical satellite component with a ring at the top and two flat panels extending from the sides. The background is dark blue with a grid pattern. Logos for TSC, Cambridge University, and CITECH Satellite are visible. The title 'CanSats to CubeSats' is prominently displayed in white and red text. Below the title, the authors' names are listed: Nikhil Riyaz, Inbisat Yousuf Nath, Syed Hayath, Dr. K. Gopalakrishnan, Dr. P Cyril Prasanna Raj, and Dr. D. Antony Louis Priyakumar. At the bottom, it mentions 'An Introduction to Nano Satellite Engineering' and 'Nano Satellite Centre, Cambridge Institute of Technology, Sponsored by TSC Technologies, ITCA and UNISEC India'. Various institutional logos are at the very bottom.

CanSats to CubeSats

An Introduction to Nano Satellite Engineering

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Contents: 149 Pages

Chapter 1: Introduction

Chapter 2: Subsystems of a CanSat

Chapter 3: Design Process Overview

Chapter 4: On-Board Computer

Chapter 5: Electrical Power System

Chapter 6: Communication

Chapter 7: Sensors/Mission

Chapter 8: Global Positioning System

Chapter 9: Ground Control Station

Chapter 10: CanSat Assembly

Chapter 11: Structure and Stacking

Chapter 12: Parachutes and Attachments

Chapter 13: Field Test, Field Work and Evaluation

Chapter 14: Small Satellites

Chapter 15: Small Satellites, Near Space Systems, other aero systems like UAVs and Micro Air Vehicles

Chapter 16: Small Satellites for Specific Societal Applications