

Whom will the course benefit?

Students & Faculty from Engineering Colleges, Scientists from R&D labs and also engineers from various industries.

Course Objectives:

Are to understand,

- x The process of satellite design.
- x The effects of space environment for the development of satellites.
- x Space technology and astrodynamics required for space mission design and control.
- x The important principles of modern spacecraft communication
- x Satellite command and telemetry signals.

Course Contents:

Day 1
Satellite Communication, Payload System, Mechanical Systems and System Engineering

Day 2:
Space Environment, Electrical Systems, Attitude determination & control systems, Mission and Ground station.

Day 3:
Building a Nano satellite, Reliability & Quality Assurance of Nano-satellites, Assembly, Integration, Testing,

Visit to Indian Deep Space Network (Chandrayan Ground Station), Byalalu.

Resources:

India's leading satellite experts from Indian Space Research Organization (ISRO) and Scientists & Engineers from other organizations

Chief Patrons:

Dr. D. Hemachandra Sagar, Chairman, DSI
Dr. D. Premachandra Sagar, Vice Chairman, DSI

Patrons:

Shri. Galiswamy, Secretary, MGVP Trust
Dr. A.N.N. Murthy, Vice Chancellor, DSU
Prof. R. Janardhan, Pro-Vice Chancellor, DSU
Dr. Puttamadappa C, Registrar, DSU
Dr. Srinivas, Dean, SOE, DSU

Convener:

Prof. Vinod K Agrawal, Director R & D, DSU

Organizing Committee:

Prof. Pushpa P.V, Dept. of ECE, DSU
Prof. B V N Ramakumar, Chairman, Dept. of AE, DSU
Prof. Vaibhav A M, Chairman, Dept. of ECE, DSU
Prof. G K Suryanarayana, Dept. of AE, DSU

Coordinators:

Dr. Pushpamala S, Dept of ECE, DSU
Mrs. Shweta M P, Dept of ECE, DSU
Mr. Puneeth S, Dept of ECE, DSU

For Registration Contact:

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Important dates :

Last date to apply online: **24th June 2019**
Last date for early bird registration: **30th May 2019**



Department of ECE, Aerospace Engineering,
R & D & Innovation Centre
Dayananda Sagar University (DSU)

In Association with
IEEE Bangalore Section & Planet Aerospace
Bengaluru, India

Workshop On

**“Design and Development of
Nano Satellite”
3-5 July 2019**



**School of Engineering
DAYANANDA SAGAR UNIVERSITY**
Hosur Main Road, Kudlu Gate,
Bengaluru - 560 070
Karnataka, India.



Dayananda Sagar University (DSU) created by an Act of Karnataka State in 2014, has been meeting the needs of quality higher education in India. The school of engineering under DSU provides science and technology based education which is required to develop high quality engineers suitable for industry and scientific organizations. DSU offers courses in Engineering, Computer applications, Science, Arts and Management at Bachelors, Masters and PhD levels. Focusing on the future trends where India is deemed to be research and development hub of the world, University has already established Innovation laboratories in collaboration with world renowned Multi-National Companies like Autodesk-Virtual Design, Bosch Rexroth-Automation Technologies, Automotive System Lab by ETAS (BOSCH), IBM-Software Technologies, NVIDIA-Boston Innovation Lab, VMWare IT Desk, besides a world class incubation center called DERBI and a Centre of Excellence by Dassault Systems-Aerospace Engineering Lab.

Planet Aerospace is an association of experts in the field of Space Science and Technology, who are on a mission to prepare next generation of Space Scientists and Engineers to take up the challenge of developing new and innovative technologies in the Aerospace arena.

Background: Satellite is an artificial object placed in an orbit and is mainly used for communication and remote sensing. The satellite industry is undergoing a transition towards designing tiny satellite because of its faster development and cheaper cost. It is significant to design more number of small satellites compared to few number of large satellites for special purpose such as gathering of scientific data and earth observation. Small satellites usually require innovative propulsion mechanism, attitude control, communication and also the computation systems. The satellite's functional versatility is embedded within its technical components and its operational characteristics. We

are conducting this workshop to introduce the advanced Nano satellite technology for students, academicians, researchers, designers, developers, entrepreneurs and industrialists to fulfill the current needs of modern society.

Registration Details:

INR 2500 – Students/ Faculty/Research Scholar/Industry

Participants

INR 2000 – Early Bird Registration

INR 1400 – IEEE Student Members

INR 500 – DSU/DSI/DSATM students

Payment Details:

The registration fee may be paid either by online transaction or through RTGS/NEFT.

Bank: YES Bank LTD

Kasturba Road

Bangalore 560001.

Account No: 002294600001422

IFSC Code: YESB0000022

Limited to first 80 participants only.

Note: Participants are requested to fill the google form available in the link below.

Link: <https://www.dsu.edu.in/nano-satellites/>

Accommodation:

Participants requiring accommodation need to request for the same. The room charges at guestroom will be at concessional rate per day and also subjected to availability.



For Event



Map

REGISTRATION FORM

“Design and Development of Nano Satellite”

3-5 July 2019

Name: _____

Designation: _____

Email Address: _____

Organization: _____

Postal Address: _____

City: _____

Postal Code: _____

Contact No: _____

Accommodation required: YES / NO

Registration fee Details:

Online Transaction RTGS /NEFT ID:

Date: _____

Bank: _____

Amount: _____

Signature
of the
Applicant

Signature & Seal
of the
Sponsoring Authority