



## DEPARTMENT OF AEROSPACE ENGINEERING

### Report for “Faculty Development Programme on “Satellite Navigation System For Engineers”

<b>Name of the Event</b>	:	FDP cum Workshop
<b>Resource Person(s)</b>	:	1. Dr. G. Raju, Professor of Aerospace Engineering, Jain University, Bangalore, 2. Prof. P. Soma of Aeronautical Engineering, ACSCE 3. Dr.R.Mukesh, Aerospace Engineering, ACSCE 4. Dr.A.K. Sarkar, Aeronautical Engineering, ACSCE 5. Mr.B.A. Subramani, Former Space Simulation Engineer,ISRO.
<b>Date &amp; Time</b>	:	13 <sup>th</sup> and 14 <sup>th</sup> October 2022&09:30 AMto 04:00 PM
<b>Venue</b>	:	IV floor Seminar Hall & Atmospheric Space Sciences Research Lab.
<b>No.of Participants</b>	:	49

#### About the Event

This Faculty Development Programme cum Workshop on “Satellite Navigation System for Engineers” was organized in view of Dr. APJ Abdul Kalam’s Birthday Celebration and Space Week 2022 to enhance the knowledge on Satellite Navigation.

#### Day 1 (13.10.2022):

The Program was started at 09:30AM on the first day with the welcome address by Dr. R. Mukesh, Aerospace Engineering. Then Dr. P. Theerthamalai, Dean, delivered the felicitation address.

There were four sessions handled by Dr. G. Raju, Professor of Aerospace Engineering, Jain University, Bangalore, Prof. P. Soma of Aeronautical Engineering, Dr.R.Mukesh, Aerospace Engineering and Dr.A.K. Sarkar, Professor of Aeronautical Engineering, ACSCE respectively as given in the schedule.

#### Day 2 (14.10.2022)

The Second day was started on 09:30 am with the welcome address and introduction of the Chief Guest Mr. B.A. Subramani, Former Space Simulation Engineer, ISRO. The resource person has provided the hands-on training to the participants in satellite tracking and highlighted the following points,

- Amateur radio station set up
- Application of Satellite tracking



## DEPARTMENT OF AEROSPACE ENGINEERING

- Importance and Procedures of satellite tracking
- Real time tracking
- FM and AM signals
- Setting up Ground station using Antenna.

### Event Schedule:

DAY 1	Date & Session	Resource Person	Designation & Address	Topic Details
13.10.2022	09.30 am to 11.00 am	Dr. G. Raju	Professor, Department of Aerospace Engineering, Jain University, Bangalore.	Accomplishments in Space Research and Applications
	11.00 am to 11.30 am	TEA BREAK		
	11.30 am to 01.00 pm	Prof. P. Soma	Professor, Department of Aeronautical Engineering, ACSCE, Bangalore.	Global Navigation Satellite Systems
	01.00 pm to 02.00 pm	LUNCH BREAK		
	02.00 pm to 03.30 pm	Dr. R. Mukesh	Professor, Department of Aerospace Engineering, ACSCE, Bangalore.	Satellite Navigation and its applications
	03.30 pm to 03.45 pm	TEA BREAK		
	03.45 pm to 05.00 pm	Dr. A.K. Sarkar	Professor, Department of Aeronautical Engineering, ACSCE, Bangalore.	Smoothing and Filtering Techniques
DAY 2	Date & Session			
10. 2022	09.30 am to 11.00	B.A	Former Space Simulation Engineer,	Hands on Training in Satellite



## DEPARTMENT OF AEROSPACE ENGINEERING

am	Subramani	ISRO	Tracking
11.00 am to 11.30 am	TEA BREAK		
11.30 am to 01.00 pm	B.A Subramani	Former Space Simulation Engineer, ISRO	Hands on Training in Satellite Tracking
01.00 pm to 02.00 pm	LUNCH BREAK		
02.00 pm to 03.30 pm	B.A Subramani	Former Space Simulation Engineer, ISRO	Hands on Training in Satellite Tracking
03.30 pm to 03.45 pm	TEA BREAK		
03.45 pm to 05.00 pm	B.A Subramani	Former Space Simulation Engineer, ISRO	Hands on Training in Satellite Tracking

At the end of the session, students and Faculty members interacted with the resource person to clarify their doubts in the topic and the resource person motivated the students to enhance their skills and focus on space applications. Students expressed their gratitude that the program was highly informative and interesting. Finally, the session ended with the vote of thanks by Dr.R.Mukesh, Head of the Department.

**Event Poster:**





# ACS College of Engineering

#207, Kambipura, Mysore Road, Bangalore – 560 074.

Affiliated to VTU, Belgaum. Approved by AICTE, New Delhi & Govt. of Karnataka



## ABOUT THE COLLEGE

ACS College of Engineering (ACSCE) established in 2009, under the banner of Mookambikai Educational and Charitable Trust which was founded by Dr. A.C. Shanmugam. ACSCE is situated on National Highway of Mysore Road, 03 minutes drive from Nice Road Junction, Bangalore. ACSCE is approved by AICTE and Government of Karnataka, and is affiliated to VTU Belgaum. The campus is spread over an area of 26 acres. The college is located at a distance of 25 kms from Bangalore City Railway Station and 55 kms from Bangalore International Airport.

ACSCE is approved by AICTE and Government of Karnataka, and is affiliated to VTU Belgaum. This college offers B.E in Aeronautical Engineering, Aerospace Engineering, Bio-Medical Engineering, Civil Engineering, Computer Science Engineering, Data Science Engineering, Cyber Security, Electronics and Communication Engineering, Mechanical Engineering. This college also offers M.Tech in Structural Engineering.

## ABOUT THE DEPARTMENT

Aerospace Engineering Department was established in year of 2017 with an intake of 60, affiliated under VTU with AICTE recognition to meet the intensifying needs for Aerospace Industries. Aerospace Engineering is the primary field of engineering concerned with the design development and launching of satellite launch vehicle, defense missiles and satellites for different applications. Aerospace Engineering curriculum consist of mainly fundamental aerodynamics, structures and propulsion subjects of aeronautical engineering and mechanical engineering in lower semesters and in higher semesters specialized topics like satellite launch vehicles design and analysis, Missile Design, Spacecraft design and analysis, Space dynamics, Intra planetary travels and Space environment. India is one of the leading countries in the aerospace field. To support the current and future challenges in the field of aerospace, ACSCE formulates quality engineers specialized in aerospace technology.

## CHIEF PATRONS

**Dr. A. C. Shanmugam,**  
B.A LLB, FIMSA, FRCPS(Glasgow, UK)  
Chairman, RRCI  
**Dr. A. C. S. Arun Kumar,**  
B.Tech (Hons), LMISTE, MIET, (UK), LKCSI  
Vice-President, RRCI

## PATRONS

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Executive Director, RRCI  
**Sri C. N. Seetharam,** IAS(Rtd).  
Chief Executive Officer, RRCI  
**Dr. S. Jeyabalan,** Ph.D  
Special Officer, RRCI.

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**Dr. M. S. Murali,**  
Principal, ACSCE  
**Dr. P. Theerthamalai**  
Dean, CoE  
**Dr. S. Selvanandan,**  
Vice Principal, ACSCE  
**Dr. T. Senthilkumar**  
Dean, R&I Centre.

## COORDINATORS

**Dr. R. Mukesh,** Professor & Head  
**Dr. C. Suresh,** Asso. Prof  
**Dr. V. Paramaguru,** Asso. Prof  
**Mr. J. Siva,** Asst. Prof  
**Mr. M. Vijay,** Asst. Prof

## All the correspondence to

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Website : www.acscoe.edu.in






**NATIONAL-LEVEL FDP/WORKSHOP**  
ON  
**SATELLITE NAVIGATION SYSTEMS FOR ENGINEERS**

**Dates**

**13.10.2022 & 14.10.2022**

**Organized by**  
**DEPARTMENT OF AEROSPACE ENGINEERING**

**ON THE OCCASION OF**  
**"PEOPLE'S PRESIDENT"**  
**DR. A. P. J. ABDUL KALAM'S**  
**91<sup>st</sup> Birthday Celebration**  
&  
**"World Space Week"**





## Gallery:

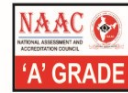




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