



# ACS COLLEGE OF ENGINEERING

Kambipura, Mysore Road, Bengaluru – 560074.

**Department of Aerospace Engineering**



## Report -Webinar on “Evolution of Flight Vehicle Control, Guidance and Sensors Since Second World war”

<b>Name of the Event</b>	:	Webinar on “Evolution of Flight Vehicle Control, Guidance and Sensors Since Second World war”
<b>Resource Person</b>	:	<b>DrAchintya Krishna Sarkar</b>
<b>Date &amp; Time</b>	:	12.12.2020&02.30 PM
<b>Platform</b>	:	Zoom
<b>No. of Participants</b>	:	75 ASE Students + 4 AS Staff

### About the Webinar

The Webinar titled “Introduction to Advanced Electronics in Aviation” was organized to enrich the knowledge in the journey of aircraft control systems as they have evolved through various generations. The webinar has taken a closer look towards the future of flight control surfaces examining the most recent researches which anticipate a future aircraft achieving comparable if not improved efficiency but with no flight surfaces.

The program was started at 02.30 PM with the welcome speech by HOD/AS and followed by the introduction of the resource person **DrAchintya Krishna Sarkar** by MrSiva J, Asst. Prof. ASE. The resource person handled an interactive session about the Evolution of flight vehicle control. Also, he explains the following areas in flight vehicle controls.

- The first generation of aircraft control systems - Mechanical,
- The new era (second generation) of speed-breaking the sound barrier-Hydro mechanical,
- The third generation of aircraft control systems-Power by ire,
- The fourth generation of control systems-Fly-by-wire,

In between interaction with students and questionnaire to test the ability of students and the resource person motivated the students to enrich their skills through different case studies. Finally, the webinar was ended with a vote of thanks by HOD/AS.



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## Sample Photos of Webinar on “Evolution of Flight Vehicle Control, Guidance and Sensors since Second World war”

**ACS COLLEGE OF ENGINEERING**  
#207, Kambipura, Mysore Road, Bangalore – 560 074.  
Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi and Govt. Of Karnataka  
**Dept. of Aerospace & Aeronautical Engineering**

**PRESENTS WEBINAR ON**  
**“Evolution of Flight Vehicle Control, Guidance and Sensors Since Second World War”**

**Resource Person**  
  
**Dr. Achintya Krishna Sarkar**  
Professor  
Dept. of Aeronautical Engineering,  
Nitte Meenakshi Institute Of Technology  
Yelahanka, Bangalore

Registration Free  
<https://tinyurl.com/yydf2kv6>  
\*E-Certificate will be issued

**Date: 12-12-2020 (Saturday)**  
**Time: 02:30PM to 03:30PM**

Event Co-Ordinator: **Mr. J. Siva** (Ph: 08667291504) | **Dr. G. Ramanan** (Ph: 09965418124) | Head of the Institution | **Dr.M.S. Murali** (Principal)

The diagram illustrates an aircraft's sensor and communication network, divided into three main sections: Inter-AWSN, Beyond AWSN, and Remote Servers. On the left, various sensors are listed: Smart sensors, Temperature and humidity sensors, Vibration sensors, Strain sensors, Piezoelectric sensors, and RFID sensors. These sensors are connected to an aircraft. The Inter-AWSN section shows the aircraft connected to three Access Points. The Beyond AWSN section shows the aircraft connected to a Gateway, which is further connected to Portable devices, Cockpit displays, and a Control system. The Remote Servers section shows the aircraft connected to a Ground station, which is connected to Remote Servers, an Air-traffic control center, a Management system, and a Satellite system.

**INVITATION**