

**Mangalore Institute of Technology & Engineering**  
(ISO 9001:2015 Certified Institution)  
**Department of Aeronautical Engineering**


SL.No	Date	Event	Resource person with designation	Topic
1	6-11-2020	Webinar	Air Commodore R Jayakumar (Retd.)	Opportunities for Aeronautical Engineers in Indian Armed Forces

The Department of Aeronautical Engineering was privileged to host, **Retd. Air Commodore R Jayakumar, Indian Airforce**. His immense experience was valuable to students, in terms of Discipline and dedication to the field of Aeronautics. He explained about the role of Aeronautical Engineers in successful missions carried out by Indian Air Force. He also shared the preparation required for competitive exams like AFCAT and CDS after the graduation, which was helpful for students to plan their preparation for the same. Students from all the semesters of the Aeronautical Engineering branch interacted with him regarding career opportunities in the Indian Airforce..

**MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING**  
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**Department of Aeronautical Engineering**  
Welcomes to Webinar on

**OPPORTUNITIES FOR AERONAUTICAL ENGINEERS IN INDIAN ARMED FORCES**



By  
**AIR COMMODORE R JAYAKUMAR (Retd.)**  
**Indian Air Force**

**Date : 6<sup>th</sup> NOV. 2020**  
**Time: 11:00 AM To 1:00PM**

**Outcome of the program:**

- Students gained knowledge on various career opportunities in the Indian Air Force.





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SL.No	Date	Event	Resource person with designation	Topic
2	8-10- 2020	Technical Talk	Dr. K Ramachandra , Scientist and Former Director, Gas Turbine Research Establishment, DRDO, Ministry of Defense, Bangalore	Need for Multidisciplinary and Interdisciplinary Approach to Current and Future Engineering and Technology Programs

The department of Aeronautical Engineering hosted a technical talk by Dr. K Ramachandra, Scientist, and Former Director, Gas Turbine Research Establishment, DRDO, Bangalore on 8th October 2020. He shared his experience of working as a scientist at GTRE with its opportunities and challenges with the students. He explained the preparation required by the Aeronautical engineering students to start their career as Scientists in any National Research centers including ADA, ADE, and NAL. Students asked questions regarding the software skills and technical know-how, requirements at these organizations. He responded with a proper explanation of the industry-standard technology that is currently being used at GTRE.

**DEPARTMENT OF AERONAUTICAL ENGINEERING**  
*Cordially invite you to the*  
**Inaugural Function of**  
  
**AURA**  
**AERONAUTICAL UNION OF RISING AVIATORS**  
*Date: October 8, 2020*  
*Time: 10:00 AM Virtual Event: Google Meet*  
**Freshers Welcome (Branch Entry) & Webinar on:**  
**Need for Multidisciplinary & Interdisciplinary**  
**Approach to the Current & Future Engineering**  
**& Technical Programs.**  
  
**Chief Guest:**  
**Dr. K. RAMACHANDRA**  
**OUTSTANDING SCIENTIST & FORMER DIRECTOR**  
**Gas Turbine Research Establishment**  
**DRDO, Ministry of Defense, GoI, Bangalore**

#### Outcome of the program:

- Students gained the knowledge on the Need for Multidisciplinary and Interdisciplinary Approach to Current and Future Engineering and Technology Programs

SL. No	Date	Event	Resource person with designation	Topic
3	5 <sup>th</sup> June 2021	Webinar	Mr. K E Girish, Director of BAIL, Bangalore	A Bird's Eye view on Airframe Structural Design & Development with Career Guidance

The department of Aeronautical engineering organized a webinar on "A Bird's-Eye view on Airframe Structural Design & Development" on 05-06-2021. In this session Mr Girish started with explaining structural airframe designs and its features. Then continued to talk about the basic fundamental concepts used in designing airframes. He also briefed on the different software that are used for design and analysis of airframe using ANSYS, ANSA and other related tools. Mr Girish interacted with students and provided guidance regarding career choices in the structural design domain and how students can develop a better understanding in this area of Aircraft Stress analysis. He also briefed about the various training and internship programmes offered by BAIL for students and graduates. His vast experience as Scientist at NAL, helped students to relate it to their current program and interacted with sir regarding career opportunities after Graduation. Webinar was concluded with questions and answer session.



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**Aeronautical Union of Rising Aviators (AURA)**



In association with

**Bangalore Aircraft Industries Pvt. Ltd**



**Presents Webinar on**

**"A Bird's-Eye view on Airframe Structural Design  
& Development" with "Career Guidance"**

**Speaker:**



**Mr. K E Girish**  
Ex-Scientist NAL,  
Director BAIL, Bangalore

**Date: 05<sup>th</sup> June 2021**

**Time: 11:00 AM to 01:00 PM**



**Registration link:**

<https://forms.gle/FS6sKqWGkWuD9NKy7>

**Outcome of the program:**

Students gained knowledge in Aircraft Structures and familiarize with modern tools used for structural analysis.



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SL. No	Date	Event	Resource person with designation	Topic
4	12 <sup>th</sup> June 2021	Webinar	Mr. Azan M Parmar, Technical Specialist, Altair Engineering, Bangalore	How to become Employable

The Department of Aeronautical Engineering organized a webinar on "How to become Employable" on 12-06-2021. We Invited, Mr. Azan M Parmar, who is 2016 alumni of the Aeronautical Engineering Department, currently working as Technical Specialist, Altair Engineering, Bangalore. The session was specially designed for 6th Semester under Technical Skill Development Program, where Industry experts will interact with students and clear their doubts regarding the current Industry requirement and motivate them to learn core skills and new age skills as defined by NASSCOM. Mr. Azan M Parmar discussed the Aeronautical Industry requirement and the core knowledge and skill requirement by fresh graduates. Students clarified some myths about core knowledge and software/coding skills that is required for successful absorption in the organization. He also stressed on the importance of multiple Internships, which students should utilize during the vacation of 5th and 6th semesters. In collaboration with the Department of Aeronautical Engineering, Mr. Azan M Parmar will be delivering a session on coding for Aeronautical Students in the near future. A total of 60 students and faculties have participated and benefited from the webinar.



Presents a webinar on

## **HOW TO BECOME EMPLOYABLE**

for VI Sem Aeronautical Engineering Students



Speaker:



**Mr. Azan M Parmar**

Technical Specialist,  
Altair Engineering, Bangalore

Date: **12<sup>th</sup> June 2021**

Time: **11:00 AM to 01:00 PM**



Registration link:

<https://forms.gle/zMs3foc4QqrfEyp47>

### **Outcome of the program:**

Students gained knowledge on what are the technical skills and soft skills to acquire to enhance their employability.

S.I. No	Date	Event	Resource person with designation	Topic
5	19 <sup>th</sup> June 2021	Webinar	Dr. Sudhir Kumar Chaturvedi, Associate Professor, UPSC, Dehradun Mr. Apurva Anand, Flight Physics Engineer, Airbus, Bangalore	Advanced Flight Mechanics

Department of Aeronautical Engineering organized a technical webinar on “Advanced Flight Mechanics” under the program “Technical skill development for Students” on 19<sup>th</sup> June 2021. Two resource persons who are working in the flight mechanics area were invited to interact with students. This included, Dr. Sudhir Kumar Chaturvedi, Associate Professor, School of Engineering, UPES, Dehradun and Mr. Apurva Anand, Flight Physics Engineer from Airbus, Bangalore. The event started at 8.45am, moderated by Mr. Adarsh Krishnamurthy, Placement coordinator & Assistant Professor, with a brief introduction about Dr. Chaturvedi. This was followed by an interesting presentation on Advanced Flight Mechanics by Dr. Chaturvedi. At the end of the session, he interacted with the students on the important aspects of flight mechanics. From 9.25am, Mr. Apurva Anand, gave an overview of his work on Flight Mechanics at Airbus. He also interacted with students and clarified their doubts on getting into airbus and the interview process. He stressed on the importance of studying Aircraft Performance and Stability with passion to solve real time problems in Aeronautical / Aerospace Industries. A total of 240 students have participated and benefited from the webinar.



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Beyond limits

# Join Next Webinar on **Advanced Flight Mechanics**



**Dr. Sudhir Kumar Chaturvedi**  
Associate Professor  
Former Visiting Scientist- KORDI, South Korea  
School of Engineering  
**UPES, Dehradun**

**Moderator**



**Mr. Adarsh Krishnamurthy (Ph.D.)**  
Placement Co-Ordinator & Asst. Prof., Dept. of AE  
**MITE, Moodbidri**



**Mr. Apurva Anand**  
Flight Physics Engineer  
M.Tech – IISc, Bangalore  
**Airbus, Bangalore**

**AIREINO**  
Beyond limits

**Saturday June 19, 2021 Start at 8.45 am**

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## **Outcome of the program:**

Students gained knowledge in the field of Advanced Flight Mechanics and Aircraft performance.





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SL. No	Date	Event	Resource person with designation	Topic
6	19th June 2021	Webinar	Dr. Badari Narayana & Team Center of Excellence in Aerospace and Defence, Bengaluru	Overview of Aircraft/ Aerospace Engineering Course

A One day online awareness program on Overview of Aircraft/ Aerospace Engineering Course was organized by the Department of Aeronautical Engineering in association with the Center of Excellence in Aerospace and Defence, Bengaluru. There were 5 sessions.

The first session was “Introduction to Aerospace Engineering” by Dr. K Badari Naryana, Former Scientist ISRO, Principal Consultant CoE A&D, Bangalore. He gave detailed deliberations on Aircraft Structures, Aerodynamics, propulsion Aircraft structures and material selection, Manufacturing Methods. He interacted with students and motivated them to adapt project based learning. In second session Mr. Nicky Harris COE, Aerospace & Defence Bangalore, introduced the software 3DEXPERIENCE to students. He illustrated the Features such as Design Work Flow, Application of Design in Aircraft Development and Basic Navigation and Aircraft walk through. Mr. Mandar Inamdar discussed on approaches to solve Engineering problems, Finite Element Analysis and Modern product Development cycle. Ms. Aishwarya Hattiholi gave detailed deliberations on System Engineering and advantages of model based system engineering over tradition methods. Mr.Madhu S Gowda gave an detailed overview of electrical harness design and work flow. He also discussed on guidelines, routing and Installation, Design and manufacturing preparations.

The Session was very helpful for the students to understand the basics and advancements in the field of Aerodynamics, Aircraft structures and Materials used for Aircrafts. Understand the advanced design, manufacturing and analysis using modern tool usage (3D Experience).

Over 200 participants registered for the event from various Engineering colleges and participated in the event.

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**In association with**  
**K-tech Centre of Excellence in Aerospace & Defence (K-tech CoE A&D)**  


**Presents One Day online awareness program on**  
**"Overview of Aircraft/Aerospace Engineering Course"**  
**Date: 19<sup>th</sup> June 2021**  
**Registration link:**  
<https://forms.gle/ZzxdVsZ88BTfJJ6j6>

**Speaker:**  
  
**Dr. Badari Narayana**  
Former Scientist ISRO,  
Principal Consultant  
CoE A&D, Bangalore  
&  
Team, CoE A&D, Bangalore

**Sessions on**

- ☐ Introduction to Aerospace Engineering
- ☐ Introduction to 3D experience Design & Manufacturing
- ☐ 3D Experience FEM (Simulia)
- ☐ Model Based Systems Engineering
- ☐ 3D Experience Electrical wire Routing



**Outcome of the program:**

- a. Understand the basics and advancements in the field of Aerodynamics, Aircraft structures and Materials used for Aircrafts.
- b. Understand the advanced design, manufacturing and analysis using modern tool usage (3D Experience).
- c. Understand the basics of Finite element analysis, Electrical harness and Dymola model based system engineering.
- d. Interact with domain experts and get career guidance from resource persons.



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7	26th June 2021	Webinar	Mr. Pablo Romero Cumberras, MathWorks, Munich, Germany	Advanced Flight Simulation

The department of Aeronautical Engineering hosted a technical webinar / interactive session on Advanced Flight Simulation on 26th June 2020 at 6pm IST. The resource person for the event was Mr. Pablo Romero Cumberras, senior application Engineer at Math Works, Munich, Germany. The session was moderated by Mr. Adarsh Krishnamurthy, Placement coordinator and Assistant professor, Department of Aeronautical Engineering, MITE, under Technical Skill development Program for students. The session started with a brief Introduction about Mr. Pablo Romero who worked at Airbus and BMW as lead Aerodynamicist, before joining Math Works. Then Mr. Pablo discussed about the current trends in Flight Simulation and methods used around the world to accelerate the design process and reduce the cost. Later he discussed on the projects that he worked on at AIRBUS and BMW and shed light on the industry requirements. He then discussed about the workflow of a typical Aeronautical/ Aerospace simulation project giving practical example solutions. After the talk, the speaker interacted with students and clarified their doubts regarding career in flight simulation, CFD and Aerodynamics. The session was hosted on Google meet (invitational basis) and streamed live on YouTube (<https://youtu.be/gARzapddvjA>). The interactive session attracted over 145 participants from various universities like IITM, UPES and working professionals from various organizations.



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# Join Next Webinar on **Advanced Flight Simulation**



**Mr. Pablo Romero Cumberas**

Senior Application Engineer

**Math Works**

Munich, Germany



**Moderator**

**Mr. Adarsh Krishnamurthy (Ph.D.)**

Placement Co-Ordinator & Asst Prof., Dept. of AE  
MITE, Moodbidri



**Saturday June 26, 2021 Starts at 6 pm (IST)**

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## **Outcome of the program:**

1. Familiarize with the Technical Skill requirements of industry.
2. Familiarization with various flight simulation techniques.