



NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF MECHANICAL ENGINEERING

ROBOHORIZON CLUB



“ELECTRIC FUTURE OF AEROSPACE: GUEST LECTURE BY MR. RAKESH SHETE”

Venue: Chalukya Seminar Hall

Date: 26th June 2023

Time: 10:00 a.m. 12:00 p.m.

Faculty Co-ordinator: Dr. Sudarshan T.A.

Student Coordinators:

SL. NO.	NAME OF THE STUDENT	USN	SEMESTER/SECTION	ROLE IN CLUB
1	Jemima Kyra Jonathan	1NH19ME051	8/A	President
2	Jefferson Randy D'Costa	1NH21ME026	6/A	Board Member
3	Saya Maneesh	1NH21ME067	6/A	Board Member
4	Sana Ahsan	1NH21ME064	6/A	Board Member
5	Harishankar S.	1NH21ME061	6/A	Board Member



NEW HORIZON
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DEPARTMENT OF MECHANICAL ENGINEERING

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STUDENT CLUB



PRESENTS

ELECTRIC FUTURE OF AEROSPACE

THEME: INCLUSIVE DEVELOPMENT

GUEST LECTURE BY

MR. RAKESH SHETE

Project Leader
at QuestGlobal &
Aero Career Coach



Date: 26th June 2023

Time: 10:00 a.m. onwards

Venue: Chalukya Seminar Hall

Convener
Prof. Rakesh C.
HOD - ME

Faculty Coordinator
Dr. Sudarshan T.A.
Senior Assistant Prof. - ME

For more info:

Harishankar - 94825 93362 | Sana - 81233 07919

SCAN TO REGISTER!



(EVENT POSTER)

Total Number of Internal Participants: 100

Targeted Audience: Students from all departments of New Horizon College of Engineering

Description of the Event: The Guest Speaker, Mr. Rakesh Shete , was invited by Dr. Rakesh C , Head of Mechanical Engineering department, Faculty co-ordinator – Dr. Sudarshan T A and organized in association with the RoboHorizon Student Club.

Mr. Rakesh Shete, the Project Leader at QuestGlobal and Aero Career Coach, Mr. Rakesh Shete is a Project Leader at Quest Global, Bengaluru. The speaker having expertise in Aeronautical Engineering, possesses more than twelve years of experience in aero structures, drones, aero engines, and management. In addition to his role as a project leader, Mr. Rakesh is an 'Aero Career Coach' who provides voluntary webinars and seminars at various colleges. Notably, he provides free career counselling to Aero Career aspirants and on a lighter note, he gives young aspirants a flight to their dreams.



The Guest Lecture commenced at 10:00 a.m. with an audience that mainly comprised of mechanical engineering students from the second year. 'Electric Future of Aerospace' was the topic for the session, with the theme of Inclusive Development.

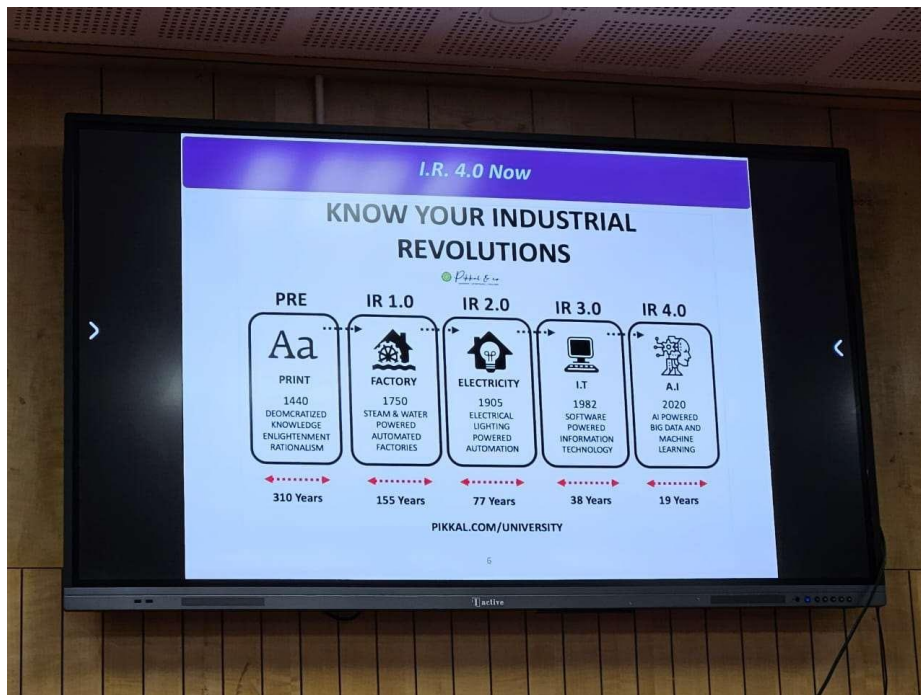
During the session, different types of drones were discussed by Mr. Rakesh Shete. He further shared his knowledge on the new and upcoming technology with respect to drones and Unmanned Aerial Vehicles. Various applications of drone technology were discussed, mainly in ariel photography and videography, agriculture, underwater, package delivery etc.



Mr. Rakesh conducted an interesting session indeed where he introduced ALICE, a fully electric airplane. ALICE is designed to revolutionize regional travel by providing a sustainable, cost-effective, and noise-free solution. In contrast to propulsion systems built solely around an internal combustion engine, all-electric and hybrid-electric architectures utilize an electric motor. The motor can be the sole source of thrust or it can be used in combination with a conventional engine,

by either providing another source of thrust or even a boost of power to the propulsion system during key stages of flight. This arrangement and importance were realized.

In addition to ALICE, the session also covered the topic of industrial revolutions, particularly focusing on the current revolution known as IR 4.0. This fourth industrial revolution leverages the power of AI-driven big data and machine learning. Mr. Rakesh provided a concise overview of the previous industrial revolutions as well, namely IR 3.0, IR 2.0, and IR 1.0.



Further, the importance of electric future of aerospace was shared with the students. The inclusion of electric sources reduces or also eliminates the need of fossil fuels, and electric and hybrid electric aircraft have the potential to significantly reduce carbon emission, noise pollution and operating costs.

The session concluded with Mr. Rakesh opening the floor for any questions from the audience, during which the students clarified all their doubts. All in all, it was a very engaging and interactive session, one where we not only learnt about the various types of aircrafts, but also where we could acquire knowledge about the electric future of aerospace, its advantages, disadvantages and the scope.



The session ended with felicitating the Guest Lecturer, Mr. Rakesh. We had the privilege of calling upon the HOD of the Mechanical Department to hand over a sapling as a token of appreciation. The participants were made to fill a feedback form and that brought to end, another successful RoboHorizon Club Event.



(above: RoboHorizon Club Members 2022-23 and club coordinator Dr. Sudharshan TA with Mr. Rakesh Shete)