

EXCEL ENGINEERING COLLEGE

KOMARAPALAYM-637303

DEPARTMENT OF AERONAUTICAL ENGINEERING



ARHAKRZ 2K24- 25

NEWSLETTER Q4

VOLUME I ISSUE 4	CHAIRMAN'S MESSAGE	VICE-CHAIRMAN'S MESSAGE	PRINCIPAL'S MESSAGE
VISION			
To empower the student s subject knowledge of Aeronautical Engineering for serving the society in a challenging global environment			
MISSION			
<p>To provide the quality technical education in tune with challenges.</p> <p>To offer latest technological development in the field of aero engineering.</p> <p>To integrate the intellectual, spiritual, ethical and social development of the students for becoming dynamic Aero-nautical engineers.</p> <p>To initiate desires for under taking entrepreneurship and lifelong learning.</p>	<p><i>Aeronautical Engineering is a prominent branch of Engineering focused on the advancement of technology in aviation, space exploration, and defence. It encompasses the study, design, testing, construction, and maintenance of commercial aircraft, spacecraft, missiles, and their components.</i></p>	<p><i>The Department of Aeronautical Engineering continues to be a source of pride for our institution. I extend my heartfelt congratulations to the Aero Department on the release of this month's ARHAKRZ news letter. I encourage students to strive for excellence, expand their knowledge, and stay ahead of the latest advancements in the dynamic world of aeronautics.</i></p>	<p><i>My heartfelt congratulations to the Department of Aeronautical Engineering on publishing its newsletter, showcasing the department's academic achievements and milestones. In the realm of outcome-based education, empowering students remains a pivotal focus for any leading institution. I sincerely hope this publication becomes a beacon of inspiration and a soaring success!</i></p>
	Prof. Dr. A. K. NATESAN <i>M. Com., MBA., M. Phil.,</i>	Dr. N. MATHAN KARTHIK <i>M.B.B.S., M. H. Sc.,</i>	Dr. K. BOMMANNA RAJA <i>Ph.D.,</i>

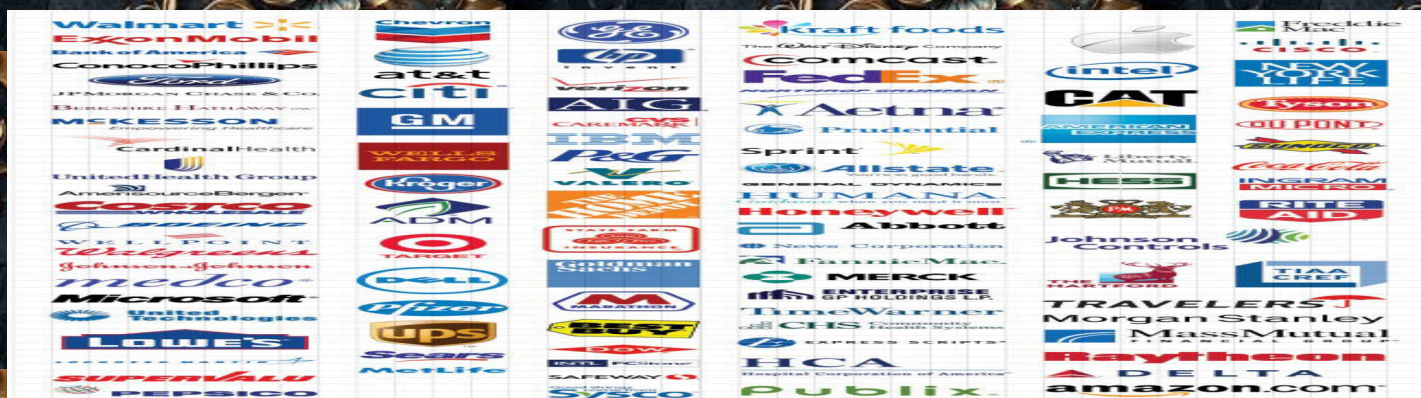
HOD'S MESSAGES

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 <p><i>Aeronautical Engineering is a dynamic and cutting-edge discipline with a legacy spanning over a century. It demands continuous innovation from engineers and scientists to expand its horizons and drive advancements in next-generation hypersonic aircraft, reusable spacecraft, and launch vehicles. My best wishes to all aspiring aeronautical engineers, who will play a vital role in propelling India to the forefront of global technological excellence.</i></p> <p>DR.A..KARTHIKEYAN Ph.D.,</p> 	Message- Chairman, Vice- Chairman, Principal and HoD	01
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STUDENT PARTICIPATION (INTERNSHIP)

Sl. No.	Name of the industry	No. of students Benefited
1	Periyar Crusher Machines Pvt Ltd, Kerala	1
2	Pegasus Aerospace Systems, Erode	2
3	The Website Macker Pvt. Ltd, Tadepalligudem, Andhra Pradesh	4
4	Periyar Crusher Machines Pvt Ltd, Kerala	3
5	Aero Knotz Drones India Private Limited, Chennai	9
6	The National Small Industries Corporation Limited, Chennai	3
7	Optimus Techno creates (Indai) Pvt..Ltd, Bangalore	21
8	MEC Engineering Services, Coimbatore	2
9	Alpha Materials Testing Laboratory, Thiruvallur	2
10	Sakthi Gear Products, Coimbatore	1
11	New Aviation Academy, Kallakurichi	2
12	Chakradhara Aerospace and Cargo Pvt.Ltd., Coimbatore	1
13	Gautam Buddha International Airport Civil Aviation Office, Nepal	1
14	Coral Manufacturing Works India Pvt Ltd., Erode	2
15	Aerospace Engineers Pvt Ltd., Salem	3
16	Blue Dart Aviation Ltd., Chennai	1



Students Participation

Students participation in various event workshop, ideation , paper presentation and sports etc., in the month of April– June 2025

Sl. No.	Nature of the Program	No. of participation*
1	Workshop	01
2	Skill contest	03
3	Online Course	06
4	Maths contest (ISTE Activity)	10
5	Internship	20

MoU based Activities

S.No	Name of the Industry	Title of Program	Name of the Student	Date of activity
1	NOVA Aerospace Private Ltd, Pudukottai, Tamilnadu	Remote Pilot Operator Certificate Trainer	Sabarivasan M	10.03.2025 to 15.03.2025
2	Karnataka Minority Development Corporation in Multiplex Drone Company, Bangalore	Remote Pilot Operator Certificate Trainer	Danish S.A	10.03.2025 to 28.03.2025
3	Karnataka Minority Development Corporation in Multiplex Drone Company, Bangalore	Remote Pilot Operator Certificate Trainer	Hafeez Ahmed	10.03.2025 to 25.03.2025
4	Karnataka Minority Development Corporation in Multiplex Drone Company, Bangalore	Remote Pilot Operator Certificate Trainer	Mohammed Reehan	04.04.2025 to 20.04.2025

DRONE
PILOT TRAINING

STUDENT AWARDS

ISTE -Best Student Award

Sl.No.	Department	Batch	Name of the student
1	Aeronautical engineering	2021-25	Evangeline Christina J

NPTEL CERTIFICATION

S.No	Name of the Faculty	Title of Program	Course Name	Duration
1	SENTHIL KUMAR J, BALASUNDARAM S, S R ARUN, M. SANJAY	NPTEL	Advances in Additive Manufacturing of Materials: Current status and emerging opportunities	12
2	Dr A KARTHIKEYAN	NPTEL	Operations Management	12
3	SENTHIL KUMAR J	NPTEL	The Joy of Computing using Python	8
7	KARTHIK S	NPTEL	Product Design and Manufacturing	12
8	PRABHU S	NPTEL	Advanced Machining Processes	12

READING PAGE

Space & Satellite Growth

- Mega constellations, small satellites (CubeSats etc.) continue expansion for Earth observation, communications, remote sensing. [Abilic Articles +2](#)
- Space logistics and mission planning are getting more sophisticated; there's academic work (e.g., using quantum computing) to optimize resources for space missions. [arXiv](#)

Testing, Certification, and Regulatory Evolution

- Regulatory bodies adapting to new aircraft types (eVTOL, supersonic) — noise, safety, air traffic management needs evolving. [PTC +1](#)
- Emphasis on certification of new materials, propulsion systems (e.g., hydrogen, hybrid), and ensuring lifecycle sustainability (circularity, end-of-life, recycling) of aircraft. [soprasteria.com +1](#)

New Technologies in Propulsion & Energy

- Clean combustion and propulsion research, including using AI / neural networks (e.g. physics-informed neural networks) to model combustion, reduce emissions, optimize performance. [arXiv](#)
- Fuel cells, hybrid systems under development. [Tom's Hardware](#)



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Excel Engineering College

NH 47, SALEM MAIN ROAD,
KOMARAPALAYAM,
NAMAKKAL-637 303
TAMILNADU, INDIA

PHONE: +91 4288 - 2227361

FAX: 04288 - 2227529, 227368

E- MAIL: eeccaerohod@excelcolleges.com

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WWW.EXCELINSTITUTIONS.COM

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CHIEF EDITOR AND EDITED BY

Dr. A. KARTHIKEYAN

HEAD OF THE DEPARTMENT

Mr. M. SANJAY

ASSISTANT PROFESSOR

