



DEPARTMENT OF AERONAUTICAL ENGINEERING

QUARTERLY NEWSLETTER



QUARTER 1

July – September 2024 | ACADEMIC YEAR 2024-25

FEATURED ACHIEVEMENT

ISNT Student Symposium on Non-Destructive Testing (NDTE 2024) hosted for the department



Editorial Board

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FROM THE HEAD'S DESK



Mr. Kiran Babu

Head, Department of Aeronautical Engineering

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It gives me immense pleasure to present the Quarterly Newsletter (Q1: July–September 2024) of the Department of Aeronautical Engineering. This publication serves as a vital platform to showcase the academic, research, and professional activities undertaken by our faculty and students during the quarter.

The past three months have been highly productive, marked by expert lectures from eminent academicians, quality research publications, student internships in reputed organisations, and meaningful industry-institute interactions. These achievements reflect our department's continued commitment to academic excellence, research innovation, and industry relevance.

Our efforts remain aligned with the institute's vision of nurturing technically competent and ethically responsible engineers capable of contributing to the aerospace sector and allied industries. I sincerely appreciate the efforts of the editorial team, faculty members, and students who contributed to this newsletter and made these accomplishments possible.

I hope this newsletter keeps all stakeholders informed and inspired as we move forward together.

— **Mr. Kiran Babu**

Head of the Department, Department of Aeronautical Engineering, ADCET, Ashta



01 EXPERT & GUEST LECTURES

During the quarter, the department successfully organised expert and guest lectures aimed at enhancing students' conceptual understanding and exposure to emerging aerospace technologies. Eminent resource persons from premier institutions shared their expertise on specialised topics, enabling students to bridge theoretical knowledge with practical applications. These sessions encouraged technical curiosity, interdisciplinary thinking, and awareness of current research trends in aeronautical engineering.

Date	Topic	Resource Person
29–31 Aug 2024	Student Symposium on Non-Destructive Testing and Examination (NDTE 2024)	Indian Society for Non-Destructive Testing (ISNT), Pune Chapter



02 RESEARCH PUBLICATIONS

Students and faculty members of the department demonstrated strong research engagement by publishing papers in reputed SCI and Scopus-indexed journals. The published works covered diverse areas such as aerodynamics, aeroacoustics, nanomaterials, and bio-inspired airfoil design. These publications reflect the department's commitment to high-quality research, innovation, and contribution to the global scientific community.

Student / Faculty	Publisher	Journal / Details
Mr. A. Basithrahman	Springer Nature Link	Biomass Conversion and Biorefinery, Vol. 15, pp. 10719–10731 DOI: 10.1007/s13399-024-05933-3
Dr. S. Yuvaraj & Dr. Sendhil Kumar S	Springer Nature Link	Advances in Thermal Engineering DOI: 10.1007/978-981-97-4500-5_17

Conference Presentations (National / International)

Students and faculty members actively presented their research findings at national and international conferences during the quarter. These presentations provided platforms for scholarly interaction, technical discussion, and peer feedback, strengthening research visibility and keeping faculty abreast of recent advancements in aerospace and allied engineering domains.

Presenter	Publisher / Host	Conference Details
Mr. Kiran Babu	AIAA	AIAA 2024-4119 • DOI: 10.2514/6.2024-4119
Mr. S. Sarim Abbas Rizvi	GIET 2024	Intl. Conference on Globalization and Intelligent Educational Technology • 13–14 Sept 2024



03 STUDENT WORKSHOPS & COMPETITIONS

Student participation in national- and international-level workshops and competitions plays a vital role in enhancing technical knowledge, practical skills, creativity, innovation, and professional competence. Such platforms broaden perspectives, encourage knowledge sharing, and provide valuable exposure to emerging technologies and global practices.

Student	Event	Level
Muralikrishna Tumma	Workshop on AI for Students: Build Your Own Generative AI Model — NxtWave	National
Avanti Arun Ahire	Analysis of Images from Pan-STARRS — International Astronomical Search Collaboration	International

WHY IT MATTERS

Early exposure to AI-driven tools and international citizen-science research collaborations broadens students' technical horizons well beyond the core aeronautical curriculum.



04 STUDENT INTERNSHIP

A significant number of students successfully completed internships at reputed organisations including DRDO laboratories, IITs, aerospace industries, and engineering firms. These internships offered hands-on exposure to real-world engineering problems, research environments, and industrial workflows, greatly enhancing students' technical competence and professional confidence.

URN No.	Student	Organisation
22071036	Pratik Digambar Pawar	S & I Engineering Solutions Pvt Ltd
22071026	Pravin Bappaji Havale	—

Industry Visit / Field Trip

The department organised industry visits and technical exposure trips to provide students with firsthand experience of industrial practices and advanced technologies. The visit helped students understand practical applications of classroom concepts, industry standards, and career opportunities in specialised domains such as non-destructive evaluation.

Date	Industry	Students	Faculty Coordinators
19 Sep 2024	Kolhapur Airport Field Visit	80	Mr. R. Reju & Mr. R. Sabarishwaran



PHOTO FEATURE & ACKNOWLEDGEMENTS



Students of the department at Kolhapur Airport during the field visit



Kolhapur Airport terminal — the site of the department's technical field visit

The Department of Aeronautical Engineering sincerely appreciates the collective efforts of its faculty members, students, staff, and industry collaborators during Quarter 1 (July–September 2024) of AY 2024–25. The achievements highlighted in this newsletter — including expert lectures, research publications, student internships, and technical visits — reflect the department's sustained commitment to academic excellence, research, innovation, and industry engagement.

The department recognises the valuable contributions of its faculty members in strengthening research, pursuing professional development, and guiding students towards academic and career success. We also congratulate our students for actively participating in internships and technical visits that have enhanced their practical knowledge and professional readiness.

These accomplishments are a source of great pride for the department and reinforce our commitment to continuous improvement, innovation, discipline, and excellence. With the continued support of all stakeholders, we look forward to achieving greater accomplishments in the upcoming quarters.



DEPARTMENT OF AERONAUTICAL ENGINEERING

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