

Newsletter



Department of Aeronautical
Engineering



Sant Dnyaneshwar Shikshan Sanstha's

Annasaheb Dange College of Engineering and Technology (ADCET), Ashta

An Empowered Autonomous Institute, Affiliated to Shivaji University, Kolhapur, Approved By AICTE, New Delhi & Govt. of Maharashtra

Accredited by NAAC 'A++' Grade, Bangalore

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Index

Contents

HOD Desk	3
1. Expert Lectures/Guest Lectures Organized.....	4
1. Papers Publications in Journals (SCI/Scopus Indexed).....	4
2. Paper Presentations in Conference (National/International).....	4
3. Faculty Participation in FDP/STTP/Workshop.....	4
4. Industry Institute Interaction.....	5
5. Career Guidance Programs.....	5
6. Student Internship.....	5
7. Industry Visit/Field Trips for Students.....	5
8. Industrial Consultancy.....	6

HOD's Desk



Mr. K. M. Kiran Babu
Head, Department of Aeronautical Engineering

Dear Readers

It gives me immense pleasure to present the Quarterly Newsletter (Q2: Oct-Dec 2023) 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 organizations, 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.

Warm regards,

Mr. Kiran Babu

Head of the Department

Department of Aeronautical Engineering, ADCET, Ashta.

1. Expert/Guest Lectures Organized

During the quarter, the department successfully organized 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 specialized 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.

Sl.No	Date of Event	Topic	Resource Person
1	23/10/2023	Lighter Than Air Systems (25 Participants)	Dr. Rajkumar S. Pant, IIT Bombay
2	18/12/2023 - 19/12/2023	IPR Awareness - Patent (55 Participants)	Dr. S. Yuvaraj ADCET

1. Papers Publications in Journals (SCI/Scopus Indexed)

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.

1. **Kothandan, Vivekanandan Alangadu**, Chang Shao-Fu, Li Zhong-You, and Chen Shih-Hsun. "Growth kinetics of crumb-like structure formation on SnO₂ nanowires during direct oxidation." *Heliyon* 9, no. 10 (2023). <https://doi.org/10.1016/j.heliyon.2023.e20519>
2. **Periyasamy K**, Parthasarathy Natarajan K. Supersonic jet noise and screech tone suppression using cross-wire. *International Journal of Aeroacoustics*. 2023;0(0). [doi:10.1177/1475472X231225628](https://doi.org/10.1177/1475472X231225628)
3. **Yuvaraj, S.**, Adithya, A., Banu, G., & Srithar, S. (2023). Numerical and experimental investigation of airfoil derived from peregrine FALCON. *Measurement: Sensors*, 100956. <https://doi.org/10.1016/j.measen.2023.100956>

2. Paper Presentations in Conference (National/International)

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. Participation in conferences strengthened research visibility, encouraged collaborative opportunities, and kept faculty abreast of recent advancements in aerospace and allied engineering domains.

1. **S. Yuvaraj, Y. B. Kumbhar**, and C. J. Thomas Renald, "Influence of ZnO, Al₂O₃, CeO₂ nanoparticle added CME biodiesel HRF on RCCI engine's performance" presented at in the International Conference on Advances in Renewable and Green Energy Technology held on 7th & 8th December 2023 at Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.).
2. **Kaleeswaran Periyasamy** presented he paper on Experimental Investigation of Supersonic Jet Noise Mitigation of CD Nozzle with Crosswire at 15th international symposium on experimental and computational aerodynamics of internal flows (ISAIF - 15) held at Indian Institute of Technology Madras from 24th to 27th October 2023.
3. Vijayan S. N., **S. Sendhil Kumar**, and S. Karthik, Thermal Efficiency Investigation of a Solar Parabolic through Collector System Using Two Dissimilar Reflectors, The Internet of Energy (IoE): A Pragmatic Approach Towards Sustainable Development, CRC Press.

3. Faculty Participation in FDP/STTP/Workshops

Faculty members participated in Faculty Development Programs and certification courses to enhance their technical expertise and pedagogical skills. Engagement in structured training programs such as NPTEL courses helped faculty stay updated with recent developments in composites and advanced materials, thereby enriching classroom instruction and academic delivery.

Sl.No	Faculty Name	FDP/STTP/Workshop	Duration
1	Mr. Basithrahman A	NPTEL Online Certification Course on Introduction to Composites for 12 Weeks - ELITE Certification	12 Week Course
2	Mr. Oblisamy L	NPTEL Online Certification Course on Introduction to Composites for 12 Weeks - ELITE Certification	12 Week Course

4. Industry-Institute Interaction

The department actively engaged in industry–institute interaction by participating in national-level technical exhibitions and conferences. Such interactions provided opportunities to showcase department-developed products, exchange technical ideas, and understand current industrial practices. These activities strengthened the department’s linkage with industry and promoted applied research culture.

Sl.No	Date	Industry Name	Nature of Interaction
1	07/12/2023 To 09/12/2023	3rd Annual Conference and Exhibition on Non-Destructive Evaluation (NDE 2023)	Exhibiting the Products developed in the Department

5. Career Guidance Programs

Career guidance sessions were organized to orient students towards emerging roles and career paths in the aerospace and allied industries. Industry professionals provided insights into skill requirements, career planning, and professional expectations. These programs played a crucial role in preparing students for industry readiness and informed career decision-making.

Sl.No	Date	Details	No of Participants
1	21 Dec 2023	Career Role in Aeronautical Analyst in Hitech Solutions	46

6. Student Internship

A significant number of students successfully completed internships at reputed organizations 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.

Students successfully completed internships at reputed organizations including:

- DRDO – Advanced Systems Laboratory, Hyderabad
- DRDO R&DE (E), Pune

- IIT Bombay
 - Global Vectra Helicorp, Mumbai
 - Mahindra & Mahindra
 - Aequs Pvt. Ltd., Belagavi
 - Nextleap Aeronautics, Bangalore
 - Dynaspede Integrated Systems, Hosur
- (Total: 19 students)

S.No	URN No	Name of Student	Name of Company
1	20171026	Aaditi Ramesh Patil	Advanced Systems Laboratory, DRDO, Hyderabad
2	20171015	Srinath Jalindar Kachare	
3	20171002	Akansha Pradip Jadhav	
4	21072003	Faijan Bandenawaj Mujawar	
5	20171012	Prathamesh Pratap Gonjare	
6	20171024	Dhanraj Santhosh Munj	Dynaspede Integrated System, Pvt. Ltd, Hosur, Tamil Nadu
7	20171025	Shreya Satish Naik	Aequs Pvt Ltd, Belagavi, Karnataka
8	20171042	Aditya Santhosh Todkari	S & I Engineering Solutions, Bangalore
9	20171030	Sangram Sanjay Patil	Nextleap Aeronautics Pvt Ltd, Bangalore
10	20171008	Yash Govind Gadekar	
11	21072001	Prathamesh Khandagale Sahebrao	Xnomous Pvt Ltd, Bangalore
12	20171023	Vikas Sunil Mhetre	Version Next Technologies Pvt Ltd, Andheri, Mumbai
13	20171043	Gayatri Sunil Tupsoundarya	Gurukrupa Precision works, Pune
14	20171047	Pratham Sunil Yewale	Global Vectra Helicorp, Juhu Aerodrome, Mumbai
15	20171039	Nikita Kirankumar Shete	Indian Institute of Technology Bombay, Mumbai
16	20171003	Ashish Sanjay Bhosale	
17	20171009	Shreenidhee Sanjay Gaikwad	DRDO, R&DE (E), Pune
18	20171029	Pranav Suresh Patil	Innovative Engineering Services, Coimbatore, Tamil Nadu
19	20171014	Shravani Mohan Jadhav	Mahindra and Mahindra

7. Industry Visit/Field Trip

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

SLNo	Date	Industry Name	No of Students	Faculty Coordinators
1	08th Dec 2023	NDE 2023 Expo Visit & Special Session on Careers in Non-Destructive Evaluation (NDE)	35	Mr. L. Oblisamy Dr. Vivekanandan A K

8. Industrial Consultancy

The department undertook industrial consultancy projects, providing technical solutions in design and fabrication for external organizations. Faculty expertise was effectively translated into practical engineering services, reinforcing the department's role as a knowledge and solution provider. Consultancy activities also contributed to experiential learning and industry-oriented problem solving.

Sl.No	Name of the Industry	Nature of Consultancy	Amount	Faculty Coordinator
1	M/s KUB Quality Services, Pune	Design and Fabrication	2,04,000	Dr. Vivekanandan A K Mr. K. M. Kiran Babu Mr. Sabarsihwaran R Mr. Reju R

The Department of Aeronautical Engineering expresses its sincere appreciation to all faculty members, students, staff, and industry collaborators for their dedicated efforts and valuable contributions during **Quarter 2 (October–December 2023) of AY 2023–24**.

The accomplishments highlighted in this newsletter—ranging from expert lectures and quality research publications to student internships, industry interactions, and consultancy activities—are a reflection of the collective commitment, teamwork, and academic rigor upheld by the department. Each initiative undertaken during this quarter has contributed meaningfully to strengthening technical competence, research culture, and industry relevance.

We extend special appreciation to our faculty members for their continuous pursuit of professional development, research excellence, and mentorship of students. Our heartfelt congratulations to the students for actively engaging in internships, technical visits, and career-oriented programs, thereby translating classroom learning into practical exposure.

We also acknowledge the support and cooperation extended by industry partners and research organizations, whose engagement has played a crucial role in bridging academia and real-world engineering practice.

The department takes pride in these achievements and remains committed to fostering an environment of innovation, discipline, and continuous improvement. We look forward to sustained collaboration and greater accomplishments in the forthcoming quarters.

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