

Educational

NEWSLETTER

AY 2022 - 23 | Quarterly Report 3 | Jan - Mar 2023

Highlights

strong Industry Interaction and Student Internship

- The department demonstrated a robust engagement with industry, facilitating multiple student internships and collaborative research opportunities with companies like Simulations and Innovation Engineering Pvt. Ltd., NextLeap Aeronautics, Aeolus Aero Technologies, Innovative Engineering Services, and TechEra Engineering Pvt. Ltd.
- The department significantly exceeded its student internship target, achieving 38 internships out of a target of 10 for the quarter.



Workshop on Research Proposal Writing



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

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Eligible Programs Accredited by NBA, New Delhi



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HOD's Desk



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

Dear Readers

It gives me immense pleasure to present our department's quarterly newsletter for Q3 of AY 2022-23. This publication continues to serve as a vital bridge connecting students, faculty, alumni, and collaborators—highlighting our shared achievements, innovations, and aspirations.

This quarter has been particularly eventful. From student accolades in national competitions to groundbreaking research collaborations and the inauguration of our Advanced Wind Tunnel Facility, our department continues to grow in capability and reputation. These milestones reflect our unwavering commitment to academic excellence and technological advancement.

We remain deeply aligned with the institute's vision, fostering core competencies in aerospace sciences, engineering fundamentals, and interdisciplinary innovation. I extend my heartfelt appreciation to [insert editor's name] and the editorial team for their creative efforts in compiling this edition. I also thank our faculty and staff for their continued dedication to teaching, research, and mentoring.

Let this newsletter not only inform but inspire continued excellence and collective growth. Let us continue to aim high and push boundaries.

Warm regards,
Mr. Kiran Babu
Head of the Department
Department of Aeronautical Engineering, ADCET, Ashta.

1. Industry Institute Interaction and Collaboration

Building bridges to the aerospace industry. Strategic partnerships with leading firms enabled internships, placements, and joint research initiatives.

Sl. No	Date of Event	Nature of Interaction	Industry Name & Contact Person
1	04/01/2023	Internship and Joint Research	Simulations and Innovation Engineering Pvt. Ltd., Bengaluru
2	06/01/2023	Internship	NextLeap Aeronautics, Bengaluru
3	07/01/2023	Internship and Placement	Aeolus Aero Technologies, Bengaluru
4	26/02/2023	Internship and Collaboration	Innovative Engineering Services, Coimbatore
5	11/03/2023	Internship and Placement	TechEra Engineering Pvt. Ltd., Pune

Commendations to our faculty for nurturing industry partnerships that translate into student opportunities.

2. Professional Society Engagement: IEEE-AESS

Connecting with global research networks. An awareness session on funding opportunities was hosted under IEEE Aerospace and Electronic Systems Society.

Sl. No	Date of Event	Nature of Interaction	Professional Society Name
1	24/03/2023	Funding Opportunities for Research & Innovation	IEEE: AESS

Thank you, **Dr. Yuvaraj**, for guiding faculty and students toward research funding avenues.

3. Guest Lecture Organized by the Department

Learning from the leaders. Experts from academia and industry delivered lectures on aircraft design, balloon technologies, and airline operations.

Sl. No.	Date of Event	Lecture/ Program Topic	Guest/ Trainer Details
1	20/02/2023	Aircraft Design - Initial Sizing Procedure	Dr. Rajkumar S. Pant

2	21/02/2023	Design & Sizing of Reusable Hot Air Balloon - ReHAB	Dr. Rajkumar S. Pant
3	23/03/2023	Flight Scheduling & Airport Operations	Mr. Sunish M S, Mr. Selvaraj J, & Mrs. Anju M Nair. (SmartGC Pro, Cochin)

A sincere appreciation to **Mr. Kiran Babu** and **Mr. Sanoj P. Suresh** for facilitating high-caliber lectures that connect classroom learning with real-world aviation practices.

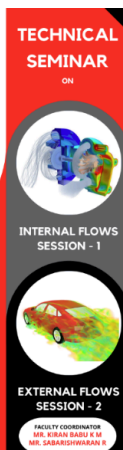


Guest Lecture on Scope and Opportunities of Flight Scheduling and Operations for Airline/Airport Operational Rules

4. Igniting Innovation: Highlights from Technical Events

Engineering in action. TECHNOWINGS 2022 and the Thermodynamic Exhibition showcased student creativity and technical depth. These events fostered hands-on learning, teamwork, and innovation.

Sl. No.	Date of Event	Event Name	Organizer
1	31 - 02/02/2023	"Computational Fluid Dynamics" Student Empowerment Program	Department of Aeronautical Engineering



A Week of Technical Seminars and Skill Building at ADCET Aeronautical Engineering Department

Thanks to **Mr. Kiran Babu, Mr. Sabarishwaran R** for their efforts in organizing hands-on CFD training have significantly boosted student technical proficiency.

5. Faculty-Led Excellence: Workshops, FDPs & Technical Training Highlights & Certification Programs

Empowering educators. A workshop on research proposal writing equipped faculty with tools to pursue competitive funding and impactful research.

Sl. No.	Date of Event	Event Name	Recourse Person
1	19/02/2023	Research Proposal Writing-Workshop (12 Participants)	Dr. Rajkumar S. Pant



Engaged Faculty at the Research Proposal Writing Workshop

Thank you, **Mr. Kiran Babu**, for empowering faculty with research writing skills through this focused workshop.

6. Faculty Contribution in Research Publications/Conferences

Ideas that shape the future. Faculty published in reputed journals and presented at national conferences.

Sl. No.	Name of the Faculty	Source Link
1	Dr. Yuvaraj, S Asso. Prof.	Srimath, N., CJ, T. R., & Yuvaraj, S. (2022, December). Comparison Study of Aluminum Camshafts alloyed with different ratio of Silicon. In IOP Conference Series: Earth and Environmental Science (Vol. 1100, No. 1, p. 012023). IOP Publishing. SCI/Scopus Indexed Journals: DOI: https://iopscience.iop.org/article/10.1088/1755-1315/1100/1/012023
2	Mr. Oblisamy L Asst. Prof.	Oblisamy L , Sanoj P., Basithrahman A., Harshal Diwate, Yash Mane, Omkar Yadav, Shivtej Rajeshirke, Experimental Testing On Carbon/Basalt Interwoven Fabric to Determine Its Mechanical Properties, International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538, Volume 11 Issue III Mar 2023. Available at www.ijraset.com .
3	Mr. Reju R, Mr. Sanoj P. Suresh, & Mr. Sabarishwaran R Asst. Prof.	Reju R, Sanoj P. Suresh, and Sabarishwaran R , WINDTUNNEL TEST OF CO-FLOW JET WING FOR LIFT ENHANCEMENT, Proceedings of the 48th National Conference on Fluid Mechanics and Fluid Power (FMFP), December 27-29, 2021, BITS Pilani, Pilani Campus, RJ, India. Fluid Mechanics and Fluid Power (Vol. 1), Lecture Notes in Mechanical Engineering. SCI/Scopus Indexed Journals: DOI: https://doi.org/10.1007/978-981-19-7055-9_35
4	Vivekanandan A. K Asso. Prof.	Synthesis of Schiff base derived 4-nitrobenzaldehyde on Cu(II) complexes for biological evaluation and implications activity SCI/Scopus Indexed Journals: Bulletin of Material Science - Under Review.
5	S. Sendhil Kumar, Prof	P. Balakrishnan, S. Sendhil Kumar , P. B. Bhagavath, EMERGING TRENDS OF HIGHER EDUCATION INSTITUTIONS IN DEVELOPING COUNTRIES, Designing New Pedagogies in Higher Education: A Driving Force to Achieve Sustainable Development Goals, 27th & 28th January 2023, PSGR Krishnammal College for Women, Coimbatore

These publications reflect the department's commitment to cutting-edge research and collaborative scholarship.

7. Faculty Enrichment Activities

Learning never stops. Faculty participated in national and international programs to enhance teaching and research capabilities.

Sl. No.	Duration	Topic	Faculty Name
1	21 - 31/12/2022	NEP 2020 Implementation (A+ Grade)	Dr. S. Sendhil Kumar
2	02 - 03/03/2023	Indo-French Seminar on Aerospace Materials	Dr. S. Sendhil Kumar

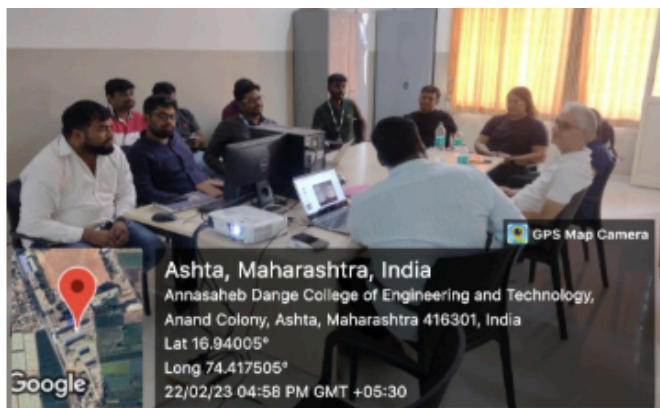
Their active engagement in national and international platforms enhances the department's academic depth.

8. Career Insights: Jobs, Entrepreneurship & Technical Publication

Preparing for tomorrow. A career guidance session by HiTech Solutions offered insights into industry expectations and graduate readiness.

Sl. No.	Date of Event	Event Name	No of Participants
1	23/02/2023	Hi-Tech Expectations of Graduates	46

Appreciation to **Mr. Oblisamy** for bridging the gap between academic preparation and industry expectations.



Career Guidance Program on Expectations from Graduates by HiTech Solutions, Ahmedabad

9. Student Placement Report – Q3

From campus to career. Students secured placements in top firms, reflecting academic strength and industry readiness.

Summary

- **Students Placed:** 08
- **Average Package:** ₹3.7 LPA

Companies	No. of Students Placed	Highest Package	Average Package
HiTech Digital Solutions LLP	6	₹2.4 LPA	₹3.36 LPA

List of Placed Students

Sl. No.	Name of the students	Company Name	Package
1	Purnank Nagrale	HiTech Digital Solutions LLP	2.4 LPA
2	Mansi Himmat Sisale		2.4 LPA
3	Shruti Sanjay Gaikwad		2.4 LPA
4	Neha Rajaram Honmore		2.4 LPA
5	Abhishek P. Tarte		2.4 LPA
6	Shivani Kulkarni		2.4 LPA
7	Preeti Kishore Pol		2.4 LPA
8	Saloni Dhondiram Patil	TATA Advanced Systems Limited, Nagpur	5.0 LPA
		ANISOTROPIC PRIVATE LIMITED, Bengaluru	5.0 LPA

Congratulations to our placed students and the faculty placement team for their dedicated support!

10. Student Internship Report – Q3 (2022-2023)

Learning by doing. Students interned at premier aerospace organizations, gaining hands-on experience.

- **Key Organizations:**

- o Advanced Systems Laboratory, DRDO, Hyderabad
- o TATA Advanced Systems Limited, Hyderabad.

List of Placed Students

Sl. No.	URN No.	Name of Student	Name of Company/Organization
1	20171022	Metkar Madhuri Mahadev	Advanced Systems Laboratory, DRDO, Hyderabad
2	20171002	Akanksha Pradip Jadhav	
3	20171021	Mandave Kunika Dilip	
4	20171025	Naik Shreya Satish	

5	20171037	Shaikh Sana Kalimsab	
6	20171005	Boyane Priya Umakant	
7	19171046	Sakshi Naresh Sambare	TATA Advanced Systems Limited, Hyderabad

Internships were secured at DRDO, TATA Advanced Systems, and other reputed organizations.

Special thanks to:

- **Mr. Reju R** for DRDO placements
- **Mr. Oblisamy** for TATA Advanced Systems supervision
- **Mr. Kiran Babu, Mr. Sanoj P. Suresh, and Dr. Sendhil Kumar** for facilitating diverse internship opportunities



Our Students with Dr. N. KISHORE NATH SCIENTIST-G & PROJECT DIRECTOR-VEDA, Technology Director-Space Systems, ASL, DRDO, HYDERABAD



Faculty Visit to Innovative Engineering Services (on Left) and TechEra Engineering Pvt. Ltd. Pune (on right) for Internship Assessment

11. Alumni Connect: Guiding Futures in Aeronautical Engineering

Our alumni are more than just former students—they're mentors, role models, and bridges to the professional world. This semester, the Department proudly hosted a series of alumni interactions that brought valuable insights, career guidance, and real-world opportunities to our current students.

From institute-level meets to focused career sessions, these events showcased the power of alumni engagement in shaping student futures. Whether it was exploring job prospects in CFD and technical publications, understanding pathways to higher education in Europe, or securing placements in reputed organizations, each interaction added depth and direction to our students' academic journey.

Here's a snapshot of the impactful sessions:

Sl. No	Date of Event	Nature of Interaction	Name of Alumni
1	18/02/2023	Institute Level Alumni Meet	Simulations and Innovation Engineering Pvt. Ltd., Bengaluru
2	25/02/2023	Job Opportunities in Technical Publications	Ms. Akshata Mali

3	25/02/2023	Job Opportunities in Technical Publications	Mr. Tushar Lambe
4	17/03/2023	Masters Opportunities in Europe	Mr. Pankaj Patil
5	20/03/2023	Placement Support for 2022 Graduates 1. Pritee Nale 2. Mohamad Owais at Sonovision - Pune location	Mr. Prasad More

Thank you, **Mr. Kumbhar**, for fostering meaningful alumni engagement.

12. Industry Partnership: Technical Consultancy Highlights

Academic expertise meets industrial impact. Two major consultancy projects showcased our department's applied research capabilities.

These projects reflect our commitment to applying academic knowledge to solve practical challenges in manufacturing and design.

Sl. No.	Project Value	Consultancy Focus	Industry Partner
1	Rs. 7,04,600 /-	Design and Fabrication	M/s Jothi Timber Depot
2	Rs. 7,51,250 /-	Reverse Engineering Study	M/s Menon and Menon Ltd

Thanks to Dr. S. Yuvaraj, Mr. Sanoj P. Suresh, Mr. Reju R, Mr. Sabarishwaran, and Mr. Kiran Babu for their consultancy efforts reflect the department's technical prowess and industry relevance.



Consultancy Project Sponsored by M/s Menon and Menon Pvt. Ltd, Kolhapur

13. Advancing Innovation Through Sponsored Research

Pushing boundaries through funded research. Research is the cornerstone of academic excellence, and our faculty continue to lead with bold, solution-oriented proposals. This semester, two high-impact submissions were made to the Science and Engineering Research Board (SERB), targeting critical areas in materials engineering and advanced manufacturing.

Sl. No.	Funding Agency Name and Scheme	Title of the Proposal	Principle Investigator
1	SERB - SRG	Surface Modification of Mg-Based Alloys via Plasma Electrolytic	Dr. Vivekanandan A. K (Submitted)

		Oxidation for Enhanced Corrosion Protection.	
2	SERB - CRG	Vibrational Analysis on lattice structured part of AlSi10Mg manufactured by Direct Metal Laser Melting	Dr. S. Sendhil Kumar (Submitted)

14. Innovation in Motion: Design Filings That Reflect Ingenuity

Turning ideas into intellectual property. Innovation thrives where curiosity meets application—and our department continues to foster that spirit through impactful design filings. This semester, Dr. S. Yuvaraj led two inventive submissions that address emerging needs in corrosion protection and vibrational analysis.

Sl. No.	Filed on	Title of Patent or Design	Patent/Design Filed by (Status)
1	22/02/2023	Surface Modification of Mg-Based Alloys via Plasma Electrolytic Oxidation for Enhanced Corrosion Protection.	Dr. S. Yuvaraj (Submitted)
2	03/01/2023	Vibrational Analysis on lattice structured part of AlSi10Mg manufactured by Direct Metal Laser Melting	Dr. S. Yuvaraj (Accepted, Waiting for Certificate)

Innovation thrives under the guidance of **Dr. Yuvaraj**, whose contributions to IP filings are commendable.



Department of Aeronautical Engineering,
ADCET, Ashta

Students from the Department of Aeronautical Engineering at Annasaheb Dange College of Engineering and Technology, Ashta, achieved significant recognition at the "Innovation 2K23" event held at Sharad Institute of Technology College of Engineering, Yadrav. The image captures the moment of the award presentation, showcasing the students' accomplishment and the support of faculty members.