AEROX

VOLUME - I

Jan 2022

STUDENT CO-ORDINATOR'S

K Nithya Varalaxmi Reddy
K Sindhu

FACULTY CO-ORDINATOR

UDAY RANJAN GOUD

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AEROX

AERO CLUB

MLRIT

AEROX

*“ Success Is When Your **Signature** Changes to **Autograph** ”*

DEPARTMENT EVENTS

DEPARTMENT OF AERONAUTICAL ENGINEERING

From the earliest dreams of flight to the supersonic jets of today and the innovative aircraft of tomorrow, this discipline has consistently pushed the boundaries of what's possible. A field that has quite literally allowed humanity to touch the sky. MLR Institute of Technology offers Aeronautical Engineering that focuses on the design, development, construction, testing, and maintenance of aircraft and related systems that operate within Earth's atmosphere.

The Department of Aeronautical Engineering has conducted a SOLID WORKS CERTIFICATION PROGRAM with DASSAULT SYSTEMS at MLRIT on 29.12.2021. The Department of Aeronautical Engineering has conducted an event INSPIRATION 2021 at MLRIT on 15.10.2021.

The Department of Aeronautical Engineering conducted a PROJECT EXPO at MLRIT on 06.12.2021.

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STUDENT ACHIEVEMENTS

DRONE DEVELOPMENT CHALLENGE 2025

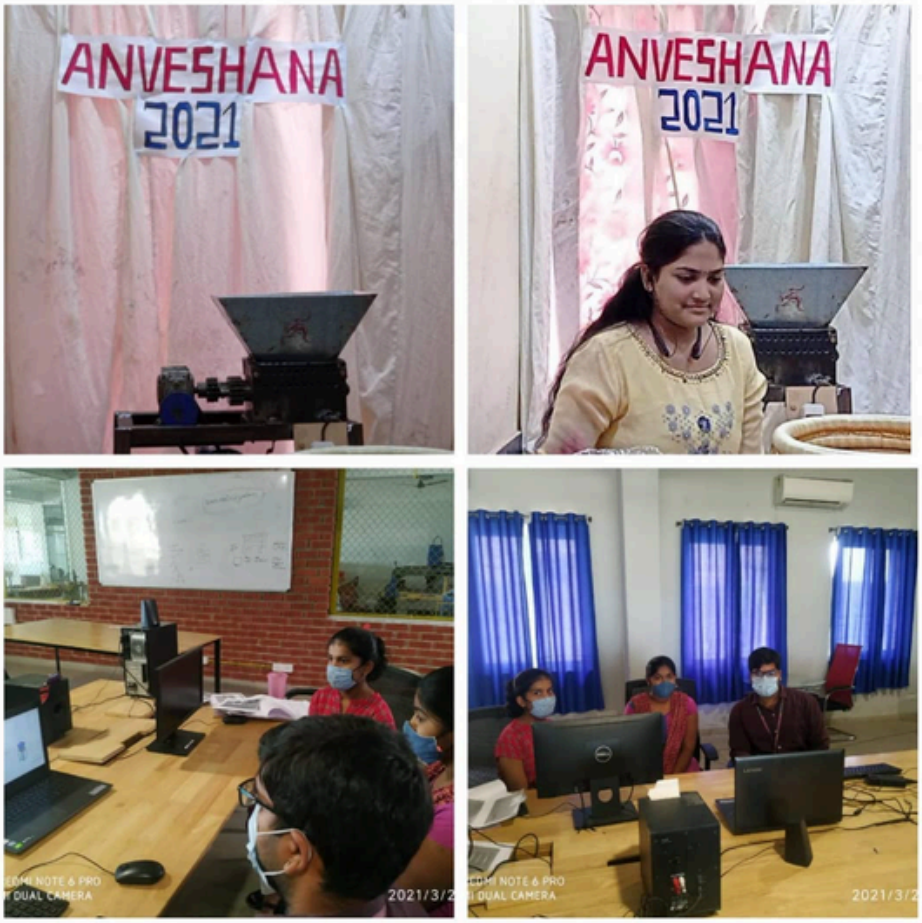
- Mr Vishal Kumar Yadav has secured First Prize under Design Report – Regular Class at SAE ADC Regular on 15.10.2021.
- Mr MD Abrar Ahmed has secured First Prize under Design Report – Regular Class at SAE ADC Regular on 15.10.2021.
- Mr Lokesh Reddy K has secured First Prize under Design Report – Regular Class at SAE ADC Regular on 15.10.2021.
- Mr Rajesh B has secured First Prize under Design Report – Regular Class at SAE ADC Regular on 15.10.2021.
- Mr Venkata Sai Bhanudeep G has secured First Prize under Design Report – Regular Class at SAE ADC Regular on 15.10.2021.
- Mr Saisuryateja P has secured First Prize under Design Report – Regular Class at SAE ADC Regular on 15.10.2021.
- Mr Raju has secured First Prize under Design Report – Regular Class at SAE ADC Regular on 15.10.2021.

Best Video Presentation – Regular

- Ms Bhuvana Chandrika Jonnada has secured Second Prize under Best Video Presentation at SAE ADC Regular on 15.10.2021.
- Mr Sai Sarath has secured Second Prize under Best Video Presentation at SAE ADC Regular on 15.10.2021.
- Mr B Vishal has secured Second Prize under Best Video Presentation at SAE ADC Regular on 15.10.2021.
- Mr Vaibhav Kumar Shah has secured Second Prize under Best Video Presentation at SAE ADC Regular on 15.10.2021.
- Mr A Rishwanth has secured Second Prize under Best Video Presentation at SAE ADC Regular on 15.10.2021.
- Mr B Ajay Kumar has secured Second Prize under Best Video Presentation at SAE ADC Regular on 15.10.2021.
- Mr A Manideep has secured Second Prize under Best Video Presentation at SAE ADC Regular on 15.10.2021.

Design Report – Micro Class

- Ms Muskaan Prasad has secured Third Prize under Micro Class in Design Report at SAE ADC Micro Class on 15.10.2021.
- Ms Udayasree M has secured Third Prize under Micro Class in Design Report at SAE ADC Micro Class on 15.10.2021.
- Ms Subramanian Sudha has secured Third Prize under Micro Class in Design Report at SAE ADC Micro Class on 15.10.2021.
- Ms Deepika P has secured Third Prize under Micro Class in Design Report at SAE ADC Micro Class on 15.10.2021.
- Ms Pothula Yamini has secured Third Prize under Micro Class in Design Report at SAE ADC Micro Class on 15.10.2021.
- Ms Shakriya Rishika has secured Third Prize under Micro Class in Design Report at SAE ADC Micro Class on 15.10.2021.
- Ms Poojasree A has secured Third Prize under Micro Class in Design Report at SAE ADC Micro Class on 15.10.2021.



Congratulations to Harikrishna Muthoju, Hari Krishna Sai, and Muskaan Prasad from the Department of Aeronautical Engineering, MLR Institute of Technology for securing First Position in ANVESHANA-2021, along with a cash prize of ₹30,000.

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PROGRAM OUTCOMES

PROGRAM OUTCOMES

- *PO1: Engineering Knowledge Apply knowledge of mathematics, natural science, computing, and engineering fundamentals to solve complex engineering problems.*
- *PO2: Problem Analysis Identify, formulate, review research literature, and analyze complex engineering problems to reach substantiated conclusions with consideration for sustainable development.*
- *PO3: Design/Development of Solutions Design creative solutions for complex engineering problems and develop systems/components/processes that meet specified needs with consideration for public health, safety, culture, society, environment, and sustainability.*
- *PO4: Conduct Investigations of Complex Problems Conduct investigations using research-based knowledge, including design of experiments, analysis, and interpretation of data to provide valid conclusions.*
- *PO5: Engineering Tool Usage Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, while understanding their limitations.*
- *PO6: The Engineer and Society Apply reasoning informed by societal, health, safety, legal, and cultural issues, and understand responsibilities relevant to professional engineering practice.*

PROGRAM OUTCOMES

- PO7: Environment and Sustainability Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of sustainable development.
- PO8: Ethics Apply ethical principles and commit to professional ethics, responsibilities, and norms of engineering practice.
- PO9: Individual and Team Work Function effectively as an individual, and as a member or leader in diverse and multidisciplinary teams.
- PO10: Communication Communicate effectively on complex engineering activities with the engineering community and society, including writing reports, design documentation, and making effective presentations.
- PO11: Project Management and Finance Apply knowledge of engineering and management principles to manage projects and work effectively in multidisciplinary environments.
- PO12: Life-long Learning Recognize the need for, and engage in independent and lifelong learning to adapt to technological changes.

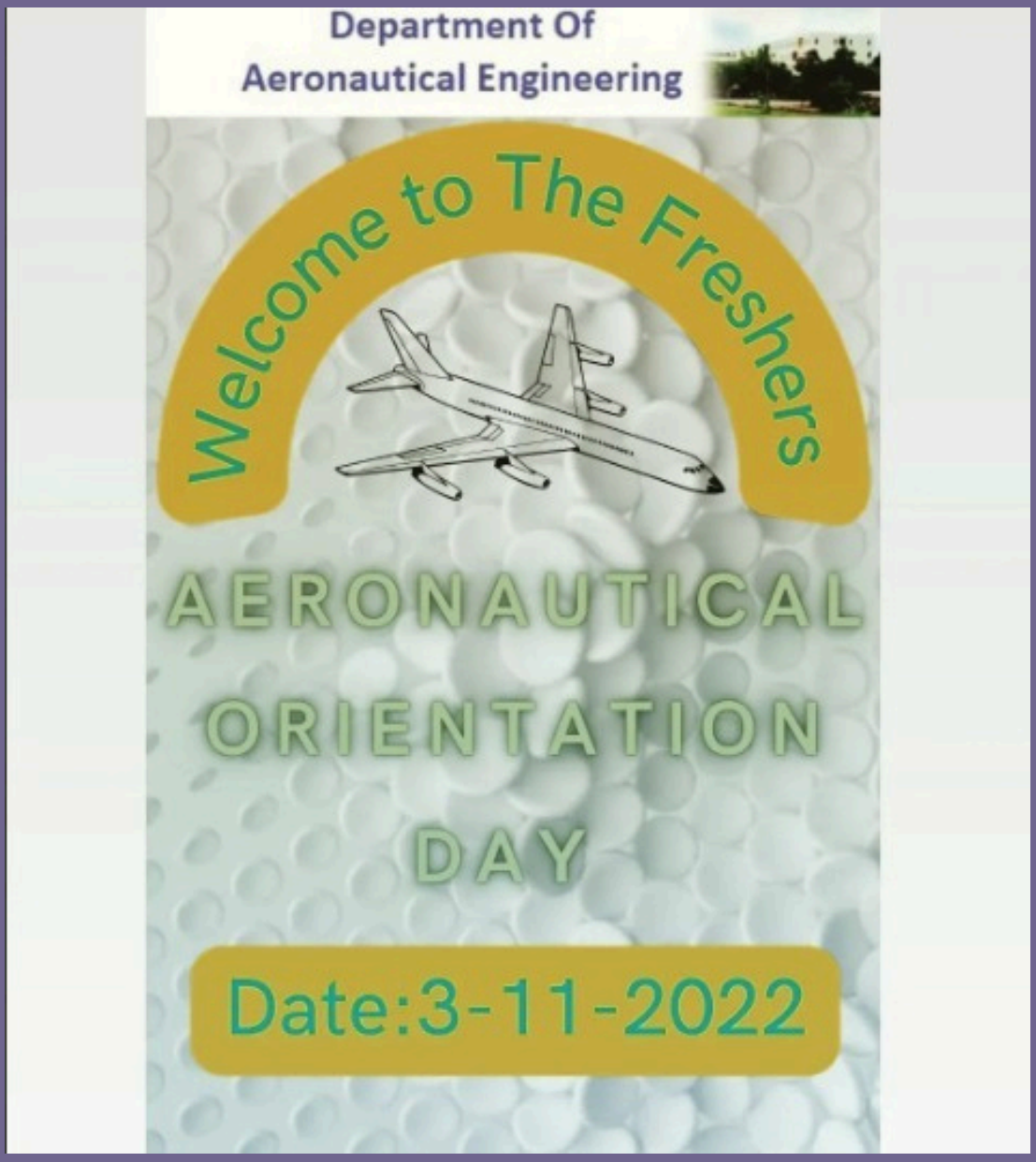
AERO CLUB
MLRIT

MLRIT
Raising Engineers

AERO X

VOLUME - 2

JULY 2022



STUDENT CO-ORDINATOR'S

BANDI PARIMALA - 20R21A2107

D.RAJKUMAR - 20R21A21A2114

L.SATHWIKA - 20R21A2129

NIDHIP SHARMA - 20R21A2139

FACULTY CO-ORDINATOR

MR. N. UDAY RANJAN GOUD

DEPARTMENT OF AERONAUTICAL ENGINEERING

From the earliest dreams of flight to the supersonic jets of today and the innovative aircraft of tomorrow, this discipline has consistently pushed the boundaries of what's possible. A field that has quite literally allowed humanity to touch the sky. MLR Institute of Technology offers Aeronautica Engineering that focuses on the design, development, construction, testing, and maintenance of aircraft and related systems that operate within Earth's atmosphere.

VISION

"To be a centre of excellence in Aeronautical engineering with emphasis on Research & Innovation to serve the needs of industry with human values to build strong nation."

MISSION

M1.Provide qualityoriented education, well-grounded in the fundamental principles of Aeronautical Engineering.

M2. Consistently produce top quality Aeronautical engineers with core and multidisciplinary skills, who can become ace leaders and successful entrepreneurs with human values.

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that will contribute to the industrial development of the nation.

HIGHLIGHT

DEPARTMENTAL ACHIEVEMENTS

STUDENT ACHIEVEMENTS

FACULTY ACHIEVEMENTS

JULY
2022
VOL II

PROGRAM EDUCATIONAL OBJECTIVES :

- **PEO 1:** To prepare the students to excel in Aeronautical engineering and mould their careers for successful employment in industrial, academic and entrepreneurial activities.

- **PEO 2:** Graduates will analyze and synthesize data and apply technical problem concepts which lead to the design of new products and develop technical problem solving skills.

- **PEO 3:** Graduates will have excellent communication skills, ethical attitude and an ability to relate engineering issues to broader social environment.

- **PEO 4:** To provide a passionate academic environment for students that encourage learning of emerging technologies, multi disciplinary areas and acquire leadership qualities.

PROGRAM SPECIFIC OUTCOMES(PSO'S) :

- **PSO1:** Apply engineering and management knowledge and techniques to estimate time and resources needed to complete Aerospace/Mechanical engineering projects.
- **PSO2:** Recognize the challenging and rewarding career in the field of Aerospace Engineering.

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EDITOR-IN-CHIEF

MR. N. UDAY RANJAN GOUD

MANAGING EDITOR

B.PRANAV

CONTENT DIRECTOR

A.SAI PRANEETH

ART DIRECTION

MOHD RAZZAK

PHOTOGRAPHERS

MD HUZEAF

CONTRIBUTING WRITERS

ASHRITHA
MRUDHULA
A.SIRISHA
P.BHAVYA SRI

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“ Innovation begins where curiosity meets courage, and engineering turns ideas into reality ”

DEPARTMENT EVENTS

DEPARTMENT OF AERONAUTICAL ENGINEERING ORGANIZED 8TH NATIONAL SCIENCE FAIR LUNAR ON 1/03/2022

ORGANIZED A 36 HOUR HACKATHON “**AEROTRON**” .
STUDENTS FROM VARIOUS ENGINEERING
COLLEGES HAVE PARTICIPATED IN THIS EVENT
ON 16 MAY 2022

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"Your achievement is not just a milestone, it's a stepping stone for the future."

STUDENT ACHIEVEMENTS

- Students of the department achieved notable success in placements and competitive examinations.
- A total of 8 students from the 2022 passing out batch were successfully placed in Capgemini, marking a significant achievement in campus placements.
- In addition, G. Bala Bhanu Prakash and Sri K. Ved Siddharth secured commendable ranks in GATE Aerospace 2022, achieving All India Rank (AIR) 179 and AIR 650 respectively, reflecting their strong academic performance and subject expertise.
- During this period, students of the department achieved significant success in campus placements and skill development activities.
- 2 students were placed as Systems Engineers at Infosys through T.A.S.K in April 2022.
- A student from the 2018–2022 batch was placed as a Project Engineer at Wipro.
- A total of 47 students from the 2018–2022 batch secured placements in reputed organizations such as TCS, Tata Advanced Systems, Cyient, Capgemini, Alten, Infosys, Wipro, Accenture, and Verzeo.
- 5 students from the 2018–2022 batch were placed in L&T Technology Services.
- 8 students from the 2018–2022 batch were placed in Wipro. Additionally, 8 students of the department successfully completed NPTEL certification, enhancing their knowledge and technical competencies in various engineering domains.
- These achievements reflect the students' strong academic performance, technical skills, and readiness to meet industry requirements

AEROX

- *"Individually, we are one drop. Together, we are an ocean."*

DERPARTMENTAL ACHIEVEMENTS

- The Department of Aeronautical Engineering actively promoted academic excellence and outreach activities.
- The department successfully organized the National Science Fair 2022 (NSF 2022) for school and undergraduate students, providing a platform to encourage scientific curiosity, innovation, and interaction between academia and young learners
- Department of Aeronautical Engineering actively focused on placements, alumni engagement, and technical event organization.
- The department successfully organized the Alumni Meet 2022 on 30-04-2022, strengthening the connection between alumni and current students and fostering professional networking opportunities.
- The department also organized AEROTRON 2022 on 13th and 14th May 2022, providing a platform for students to showcase innovation, technical skills, and teamwork through competitive and collaborative activities.