



AERAX



VOLUME-I

JAN 2025



STUDENT CO-ORDINATOR'S

AKASH REDDY.S
ADAM. G

**FACULTY
CO-ORDINATOR**

MR. N. UDAY
RANJAN GOUD



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AEROX

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AERO CLUB

MLRIT

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

DEPARTMENT EVENTS



The Department of Aeronautical Engineering participated in the Plantation program in July.



The Department of Aeronautical Engineering honoured the memory of Dr. APJ on his death anniversary on 26.07.2024.

AEROX



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

STUDENT ACHIEVEMENTS

DRONE DEVELOPMENT CHALLENGE 2024



Team Aeolus (Ms. L Harshita Yadav, Mr. CH Paul, Mr. P Sriram, Mr. Abdul Hafeez, Mr. Abdul Gafoori, Mr. A Vinay, Mr. Suryan Bisoyi, Mr. D. Ramu) has secured the Best Innovation First Prize under the Micro class in the 9th SAEINDIA Southern Section Drone Development Challenge 2024 held at SRM Institute of Sciences and Technology from 29.08.2024 to 31.08.2024.



Team Airavat (Mr. Ishaan Suri, Mr. Srenik Kumar, Mr. Parth Jala, Mr. Ajay Kumar Reddy, Mr. G Shanshank, Mr. Ibrahim Ahmed, Mr. G Pranav, Mr. Harsh Vardan Rao, and Mr. Azam Irfaan) has secured the Best Innovation Second Prize under the Regular class and Best Technical Presentation Third Prize in the 9th SAEINDIA Southern Section Drone Development Challenge 2024 held at SRM Institute of Sciences and Technology from 29.08.2024 to 31.08.2024.



Team Vaayuputra (Ms. Likitha Sai, Ms. Mansi Tiwari, Ms. B. Sahithi, Ms. Guna Sri, Ms. Aditi, Ms Shreelaya, Ms. Prayudhi, Ms. Manasvini, Ms. Mansa, and Ms. Keerthana) participated in the 9th SAEINDIA Southern Section Drone Development Challenge 2024 held at SRM Institute of Sciences and Technology from 29.08.2024 to 31.08.2024.



Team Darksiders (Mr. Abhishek Dash, Mr. Shashank Sudarshan, Mr. P. Mahesh, Mr. Hemanth Reddy, Mr. Chetan Yuvaraj Singh, Ms. G. Pavani, Mr. P. Harsha Vardhan, Mr. Suraj Dakua, Mr. T. Sai Krishna Goud, Mr. N. Balakrishna) participated in the 9th SAEINDIA Southern Section Drone Development Challenge 2024 held at SRM Institute of Sciences and Technology from 29.08.2024 to 31.08.2024.

Achivements in SIH 2024

- *Mr. A Sai Praneeth has been nominated to participate in Smart India Hackathon 2024 on 13.09.2024.*
- *Mr. Nikxith Reddy has been nominated to participate in Smart India Hackathon 2024 on 13.09.2024.*
- *Mr. Lakshman has been nominated to participate in Smart India Hackathon 2024 on 13.09.2024.*
- *Mr. Lucky has been nominated to participate in Smart India Hackathon 2024 on 13.09.2024.*
- *Ms. Shiney has been nominated to participate in Smart India Hackathon 2024 on 13.09.2024.*
- *Ms. Himaja has been nominated to participate in Smart India Hackathon 2024 on 13.09.2024.*
- *Mr. Surya Ravi Teja has been nominated to participate in Smart India Hackathon 2024 on 13.09.2024.*
- *Mr. L Sai Vinay has been nominated to participate in Smart India Hackathon 2024 on 13.09.2024.*
- *Mr. Sai Kiran has been nominated to participate in Smart India Hackathon 2024 on 13.09.2024.*
- *Mr. Ram Singh has been nominated to participate in Smart India Hackathon 2024 on 13.09.2024.*
- *Mr. Y Adithya Vardan has been nominated to participate in Smart India Hackathon 2024 on 13.09.2024.*
- *Ms. Soundarya Lahari has been nominated to participate in Smart India Hackathon 2024 on 13.09.2024.*

Achivements in NSS 2024

- *Mr. Adam, has secured 1st Prize in Photography competition conducted by NSS at MLRIT on 24.09.2024.*
- *Mr. Rohan has secured 2nd Prize in Debate competition conducted by NSS at MLRIT on 24.09.2024.*
- *Ms Keerthana has secured 2nd Prize in Debate competition conducted by NSS at MLRIT on 24.09.2024.*
- *Ms Likitha Sai has secured 1st Prize in Idea Presentation of MEGISTECH-24 at MGIT on 13 & 14.07.2024.*
- *Mr P Sriram has secured 1st Prize in Idea Presentation of MEGISTECH-24 at MGIT on 13 & 14.07.2024.*
- *Mr CH Paul has secured 1st Prize in Idea Presentation of MEGISTECH-24 at MGIT on 13 & 14.07.2024.*



L HARSHITA YADAV, CH.PAUL , P SRIRAM SECURED 1ST PLACE IN IDEA PRESENTATION AT MAGISTECH 2024 AT MAHATMA GANDHI INSTITUTE OF TECHNOLOGY



STUDENTS OF AERONAUTICAL ENGINEERING AT MLRIT ARE SOARING HIGH AT CONSCIENTIA IIST THIRUVANANTHAPURAM, ATTENDING THE MODEL ROCKETRY WORKSHOP FROM 4TH TO 6TH OCTOBER 2024 AT IIST TIRUVANANTHAPURAM.

AEROX



FACULTY
Achievements

*"A teacher's success is not measured by their **knowledge**, but by the success they **inspire** in others."*

FACULTY ACHIEVEMENTS

“IF YOU ARE PLANNING FOR A YEAR, SOW RICE; IF YOU ARE PLANNING FOR A DECADE, PLANT TREES; IF YOU ARE PLANNING FOR A LIFETIME, EDUCATE PEOPLE”

- Mr. Arun Kumar, associate professor has given a presentation on registration of YUKTHI PROGRAM at MLRIT on 04.07.2024
- Dr. Satyanarayana Gupta, Professor and HOD has attended a quality education program organized by JNTU-H on 13.07.2024.
- Mr. N Uday Ranjan Goud, Assistant Professor has attended a quality education program organized by JNTU-H on 13.07.2024.
- Mr. N Uday Ranjan Goud, Assistant Professor has attended Annual Body Meeting and Technical Meeting program on Aerospace Luminary Lecture Series organized by The Aeronautical Society of India on 14.07.2024.
- Mr. Nirmith Mishra, Assistant Professor has attended Annual Body Meeting and Technical Meeting program on Aerospace Luminary Lecture Series organized by The Aeronautical Society of India on 14.07.2024.
- Mr. S Sreekanth, Assistant Professor has attended Annual Body Meeting and Technical Meeting program on Aerospace Luminary Lecture Series organized by The Aeronautical Society of India on 14.07.2024.
- Mr. B Nagaraj Goud, Assistant Professor has attended Annual Body Meeting and Technical Meeting program on Aerospace Luminary Lecture Series organized by The Aeronautical Society of India on 14.07.2024.
- Mr. N Uday Ranjan Goud, Assistant Professor and NSS program officer has attended as a Guest speaker at Guru Nanak Institute of Technology on 24.0 and took a session on The role of NSS Volunteers in nation building quality in education program organized by JNTU-H on 13.07.2024.
- Mr. A Sai Kumar, associate professor has attended as a resource person for the faculty Development program on Innovative Design Pedagogy: Mastering Fusion 360 for educators organized at MLRIT from 15.07.2024 to 20.07.2024.
- Mr. N Uday Ranjan Goud, Assistant Professor has attended an awareness program on Education on safe and unsafe touch organized by JNTU-H on 13.07.2024
- Dr. Vivek Anand, Professor has been nominated as a Board of Studies member for Aeronautical and Mechanical courses in Malla Reddy College of Engineering and Technology on 03.07.2024.
- Dr. Satyanarayana Gupta, Professor and HOD has been nominated as a Board of Studies member for UG&PG courses in Mechanical Engineering in Viswam Engineering College, AP on 18.07.2024.
- Mr. N Uday Ranjan Goud, Assistant Professor and NSS Program Officer has received ANVSA Philanthropist award for his excellent contribution in social impact and community betterment from ANVSA foundation on 28.07.2024.
-

- *Mr. A Sai Kumar, associate professor has received a certificate of appreciation for attending SAEISS DDC organized by SAEINDIA from 29.08.2024 to 31.08.2024. Dr.*
- *Satyanarayana Gupta, Professor and HOD has attended as a resource person for the faculty Development program on Innovative Design Pedagogy: Mastering Fusion 360 for educators organized at MLRIT from 15.07.2024 to 20.07.2024. Mr.*
- *Arun Kumar, assistant professor has attended as a resource person for the faculty Development program on Innovative Design Pedagogy: Mastering Fusion 360 for educators organized at MLRIT from 15.07.2024 to 20.07.2024. Dr. Satyanarayana*
- *Gupta, Professor and HOD has received a certificate for coordinating the online training course on AI/ML for Geodata Analysis conducted by ISRO during from 19.08.2024 to 23.08.2024. Dr. Satyanarayana Gupta, Professor and HOD has*
- *published a paper on Agricultural By-products: Optimizing Production of Activated Carbon using the Taguchi Method in 2024. Mr. Arun Kumar, assistant professor has published a paper on Hybrid Wind-Solar System with UPQC in 2024. Mr. A Sai*
- *Kumar, associate professor has published a paper on Green Energy Storage Solutions: A Research in 2024. Mr.K Veeranjanyulu , assistant professor has*
- *published a paper on Experimental Investigation into the Impact of Substituting Natural Sand with Manufactured Sand in Landfill Construction in 2024. Mr.M*
- *Ganesh , assistant professor has published a paper on Comparative Analysis of Various Bracing Configurations and Their Impact on Elevated Water Tank Performance in 2024. Mr. Vivek Anand , assistant professor, has published a paper*
- *on Comparative Analysis for Titanium alloy and Silicon Nitride (Si₃N₄) of Thermal Analysis for Deep Groove Ball Bearing in 2024. Ms. Sravanthi , assistant professor has published a paper on Comparative Study of RCC Rectangular Underground*
- *Water Tanks Considering earth quake and without earth quake condition in 2024. Mr B Manideep , assistant professor has published a paper on Comparative Study*
- *Dynamics Analysis of Multi-story Building with and without a Floating Column in 2024. Mr. Nirmith Mishra, Assistant Professor has published a paper on Water and Hydrology: Challenges, Sustainable Strategies and Future Trends in 2024. Mr. N*
- *Uday Ranjan Goud, Assistant Professor has published a paper on Comparative analysis of RCC and PT Slabs underneath Lateral Loading: A Structural study using ETABS in 2024. Mr. B Nagaraj Goud, Assistant Professor has published a paper on Construction and Seismic Performance Evaluation of Concrete Water*
- *Tanks in 2024.*
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-

- *Mr. Arun Kumar, assistant professor has published a paper on Development of statistical and soft computing regression models for WEDM machining of aluminum composites in 2024. Mr. Arun Kumar, assistant professor has*
- *published a paper on Meta-Heuristic Algorithms for Optimal Sizing of HRES in 2024. Mr. Arun Kumar, assistant professor has received a certificate of*
- *participation for FACULTY DEVELOPMENT PROGRAMME ON AUTODESK-FUSION: GENERATIVE AI AND SIMULATION at Design labs on 27.07.2024. Mr. Nirmitt Mishra, Assistant Professor has received a certificate of participation*
- *for FACULTY DEVELOPMENT PROGRAMME ON AUTODESK- FUSION: GENERATIVE AI AND SIMULATION at Design labs on 27.07.2024. Mr. Vivek Anand , assistant professor, has received a certificate of participation for active*
- *participation in “Sustainability and Research in Modern Mechanical Engineering” from 23rd to 27thSeptember 2024, organized by the Department of Mechanical Engineering, Madanapalle Institute of Technology & Science, Andhra Pradesh, India. Mr. Nirmitt Mishra, Assistant Professor has attended as a resource person for the faculty Development program on Innovative Design*
- *Pedagogy: Mastering Fusion 360 for educators organized at MLRIT from 15.07.2024 to 20.07.2024. Mr. Vivek Anand , assistant professor, has attended as a resource person for the faculty Development program on Innovative Design*
- *Pedagogy: Mastering Fusion 360 for educators organized at MLRIT from 15.07.2024 to 20.07.2024. Mr B Manideep , assistant professor has attended as a resource person for the faculty Development program on Innovative Design*
- *Pedagogy: Mastering Fusion 360 for educators organized at MLRIT from 15.07.2024 to 20.07.2024. Mr. S Sreekanth, Assistant Professor has attended as a resource person for the faculty Development program on Innovative Design*
- *Pedagogy: Mastering Fusion 360 for educators organized at MLRIT from 15.07.2024 to 20.07.2024. Mr. B Nagaraj Goud, Assistant Professor has attended as a resource person for the faculty Development program on*
- *Innovative Design Pedagogy: Mastering Fusion 360 for educators organized at MLRIT from 15.07.2024 to 20.07.2024. Mr. N Uday Ranjan Goud, Assistant Professor has attended as a resource person for the faculty Development program on Innovative Design Pedagogy: Mastering Fusion 360 for educators*
- *organized at MLRIT from 15.07.2024 to 20.07.2024. Mr.M Ganesh , assistant professor, has attended as a resource person for the faculty Development program on Innovative Design Pedagogy: Mastering Fusion 360 for educators organized at MLRIT from 15.07.2024 to 20.07.2024.*
-

- *Mr.K Veeranjanyulu , assistant professor has attended as a resource person for the faculty Development program on Innovative Design Pedagogy: Mastering Fusion 360 for educators organized at MLRIT from 15.07.2024 to 20.07.2024. Mr B Manideep , assistant professor has received a certificate of participation for FACULTY DEVELOPMENT PROGRAMME ON AUTODESK-FUSION: GENERATIVE AI AND SIMULATION at Design labs on 27.07.2024.*
- *Mr. A Sai Kumar, associate professor has received a certificate of participation for FACULTY DEVELOPMENT PROGRAMME ON AUTODESK- FUSION: GENERATIVE AI AND SIMULATION at Design labs on 27.07.2024. Mr. B Nagaraj Goud, Assistant Professor has received a certificate of participation for FACULTY DEVELOPMENT PROGRAMME ON AUTODESK- FUSION: GENERATIVE AI AND SIMULATION at Design labs on 27.07.2024. Mr. S Sreekanth, Assistant Professor has received a certificate of participation for FACULTY DEVELOPMENT PROGRAMME ON AUTODESK-FUSION: GENERATIVE AI AND SIMULATION at Design labs on 27.07.2024. Mr. Arun Kumar, assistant professor has received a certificate of participation for Online short term course in Lifestyle and stress management from 23.07.2024 to 29.07.2024. Mr. Vivek Anand , assistant professor, has published a patent application on : COIR REINFORCED JAGGERY COMPOSITE on :12.07.2024.*
- *Mr. B Nagaraj Goud, Assistant Professor has received a certificate of registration for DOMESTIC GAS CYLINDER CARRIER from Intellectual property of India on 31.07.2024. Mr.M Ganesh , assistant professor, has registered for patent design for :METAL MATRIX COMPOSITES WITH NANO FILLERS on 13.09.2024. Mr. Vivek Anand , assistant professor, has registered for patent design for LAN CABLE ORGANIZER from Intellectual property of India on 31.07.2024. Mr. Vivek Anand , assistant professor, has registered for patent design for FOLDER HOLDER from Intellectual property of India on 31.07.2024. Dr. Satyanarayana Gupta, Professor and HOD has registered for patent design for VEGETABLE CUTTING GUARD from Intellectual property of India on 31.07.2024*
-

AWARDS



MR NIRMITH KUMAR MISHRA, MR NAGARAJ, MR SREEKANTH ASST PROFESSORS-DEPT OF AERONAUTICAL ENGINEERING MLR INSTITUTE OF TECHNOLOGY WITH DR.RAKESH KUMAR SHARMA ,FORMER SCIENTIST, AT ANNUAL GENERAL BODY MEETING & TECHNICAL MEET ORGANISED BY THE AERONAUTICAL SOCIETY OF INDIA.



MR. N. UDAY RANJAN GOUD, ASSISTANT PROFESSOR, DEPARTMENT OF AERONAUTICAL ENGINEERING, PARTICIPATED AS A RESOURCE PERSON IN THE NSS DAY CELEBRATIONS.

AEROX



“Learning is amplified when students witness technology in action.”

INDUSTRIAL VISITES

“An Industrial visit transforms classroom theories of aerodynamics into the living reality of hangars, engines, and flight systems.”



INDUSTRIAL VISIT

AERONAUTICAL ENGINEERING



Visited: Indian Air Force Academy, Medak–Hyderabad Road, Dundigal, Telangana – 500043

An enriching industrial visit by Aeronautical Engineering students, gaining real-world exposure to the discipline, precision, and advanced technologies of the Indian Air Force.

Our visit to the Air Force Academy was an extraordinary experience that offered profound insights into the training, discipline, and operational excellence of India's elite air warriors. We had the privilege of witnessing several awe-inspiring events that highlighted the precision, skill, and unwavering commitment of the Air Force personnel. The Passing Out Parade was a grand ceremonial spectacle, marking the culmination of rigorous training. It stood as a testament to the cadets' discipline, teamwork, and readiness to join the proud ranks of the Indian Air Force. The event was further elevated by the mesmerizing aerobatic display of the Surya Kiran Aerobatics Team, whose synchronized maneuvers reflected mastery in precision flying and aerial coordination. Equally thrilling was the Akash Ganga Sky Diving demonstration, where paratroopers showcased their courage and expertise with flawless descents and precision landings. The air show reached its peak with the display of the Sukhoi Su-30 MKI, which executed high-G turns, vertical climbs, and dynamic rolls, demonstrating both the aircraft's cutting-edge capabilities and the exceptional skill of its pilots. This visit not only deepened our technical understanding of aircraft systems and flight operations but also left us truly inspired by the professionalism, dedication, and spirit of service that define the Indian Air Force.

AEROX



"Fueling passion, shaping pilots of innovation."

AERO CLUB EVENTS

Aerotron 2.0 is a flagship event by Aero Club MLRIT, tailored for students passionate about aerospace technology and UAV innovation. The centerpiece of the event is a hands-on workshop and hackathon, where participants design, build, and test their own RC fixed-wing UAVs from scratch. Guided by experts, students gain practical knowledge in aerodynamics, aircraft design, electronics, and flight control systems. The event blends learning with competition, offering an immersive platform that fosters teamwork, creativity, and real-time problem-solving. Aerotron 2.0 is where curiosity takes flight and ideas become innovation.



AEROTRON 2.0

**"Fueling dreams,
powering flight—
Aero Club takes
you higher."**

Aerotron 2.0, organized by Aero Club MLRIT, is a premier aerospace event designed for students passionate about UAVs and flight technology. The event features a unique hands-on workshop and hackathon, where participants design, build, and fly RC fixed-wing UAVs from scratch. Guided by experts, students explore aerodynamics, aircraft design, electronics, and flight control systems through practical learning. The competitive challenges encourage teamwork, creativity, and real-time problem-solving. More than just a workshop, Aerotron 2.0 is a platform that transforms curiosity into innovation. It is where ideas take wing and the future of aerospace begins.



AEROTRON 2.0



LUNAR 2024

LUNAR 2024, the 7th National Science Fair organized by Aero Club MLRIT, was celebrated on National Science Day, February 28th, bringing together schoolchildren from across Hyderabad and nearby regions. The event provided a vibrant platform for students to showcase innovative projects, scientific models, and creative ideas in science, technology, and aerospace. The occasion was graced by Chairman Marri Lakshman Reddy, Principal Srinivas Rao, and Dean Radhika Mam, whose presence motivated the participants and highlighted the importance of nurturing young scientific talent. After an engaging series of presentations and demonstrations, the best projects were recognized during the prize distribution ceremony, with winners receiving awards, certificates, and appreciation. Through interactive sessions, workshops, and competitions, the fair encouraged students to think critically, innovate boldly, and explore the wonders of science. LUNAR 2024 at MLRIT successfully captured the spirit of National Science Day, inspiring the next generation of innovators and scientists.



“Science is global. Einstein’s equation, $E=mc^2$, is not dependent on any culture. Science is a borderless pursuit.”



AERO X

VOLUME - II

JULY 2025



STUDENT CO-ORDINATOR'S

AKASH REDDY. S
ADAM. G

FACULTY CO-ORDINATOR

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AERO CLUB

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

DEPARTMENT EVENTS



Students and faculty of Department of Aeronautical Engineering took part in the HMTV Cyclothon 2025: Pedalling for health and happiness on 25.01.25.

Department of Aeronautical Engineering organized a Guest Lecture on “International Education Services” at MLRIT by Mr Govardhana Vamshi Krishna, Consultant , Scholar Overseas at MLRIT on 27.01.25.





Students of the Department of Aeronautical Engineering conducted a field trip to Wing and Props, Gajularamaram to observe and analyze working and modelling of RC aircrafts on 11.02.25.



Department of Aeronautical Engineering organized a guest lecture on Exclusive Talk on Masters in Flight Test Engineering at MLRIT by Dr. Cathal Nolan, HOD, Aerospace & Mechanical Engineering, SETU, Ireland and Dr. Ashish Vashishtha, Lecturer, Aerospace & Mechanical Engineering, SETU, Ireland at CIE, MLRIT on 12.02.25.



Department of Aeronautical Engineering organized a Guest Lecture on “Career Guidance Program for Aeronautical Students” at MLRIT by Mr. T. Ashok Naidu, Co-founder, GATE Aerospace Academy on 20.02.25.



Department of Aeronautical Engineering conducted ‘Aerotron 3.0’ at CIE, MLRIT on 24.02.25 and 25.02.25.



The Students of Aeronautical Department have visited the Indian Air Force Academy, dundigal as Industrial visit which was organized by Mr. Nirmith Kumar Mishra and Mr. S Sreekanth. on 12.06.2025

AEROX



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

STUDENT ACHIEVEMENTS

DRONE DEVELOPMENT CHALLENGE 2025



Team Jatayu (T NMD Yashaswi, N Tanishka, Suryan Bisoyi, T Sai Krishna Goud, Adam G, B Nikxith Reddy, MP Lucky, Shubhan Yeramallu, I Adithya Shashank Reddy, Dulam Anusha) has secured Overall Second Prize under Regular class in the 10th SAEINDIA Southern Section Drone Development Challenge 2025 held at Karpaga Vinayaga College of Engineering and Technology from 28.03.25 to 30.03.25.



Team Astra (S Keerthana, Saraf Rohan, B Kameshwari, K Keerthana, G Rahul, B Venkanna, Soundarya Lahari, A sai Praneeth, R Lakshman Karthikeya, Geetika V C) has secured Best Innovation Third Prize under Micro class in the 10th SAEINDIA Southern Section Drone Development Challenge 2025 held at Karpaga Vinayaga College of Engineering and Technology from 28.03.25 to 30.03.25.



Team Aeulos (Mr. Vinay Teja Aila, AVSS Jithendra, G Harsha Vardhan Rao, G Jaiwanth, Sarwani K, M Uha Reddy, R Shashi Kumar, Shaik Mahaboob Yesdan, T Rishi Raj, G Varun Babu) has secured Best Aerodynamic Analysis(CFD) Second Prize under Micro class in the 10th SAEINDIA Southern Section Drone Development Challenge 2025 held at Karpaga Vinayaga College of Engineering and Technology from 28.03.25 to 30.03.25.



Team Airbone (Mr.N Balakrishna,T Rithika Singh, G Prathap, K Sukumar Satlin, K Shiney Premlatha, Sai Chandu, S Sai Eshwar Prasad, Irfan , Sammiuidhin , Sohal) has participated in the 10th SAEINDIA Southern Section Drone Development Challenge 2025 held at Karpaga Vinayaga College of Engineering and Technology from 28.03.25 to 30.03.25.

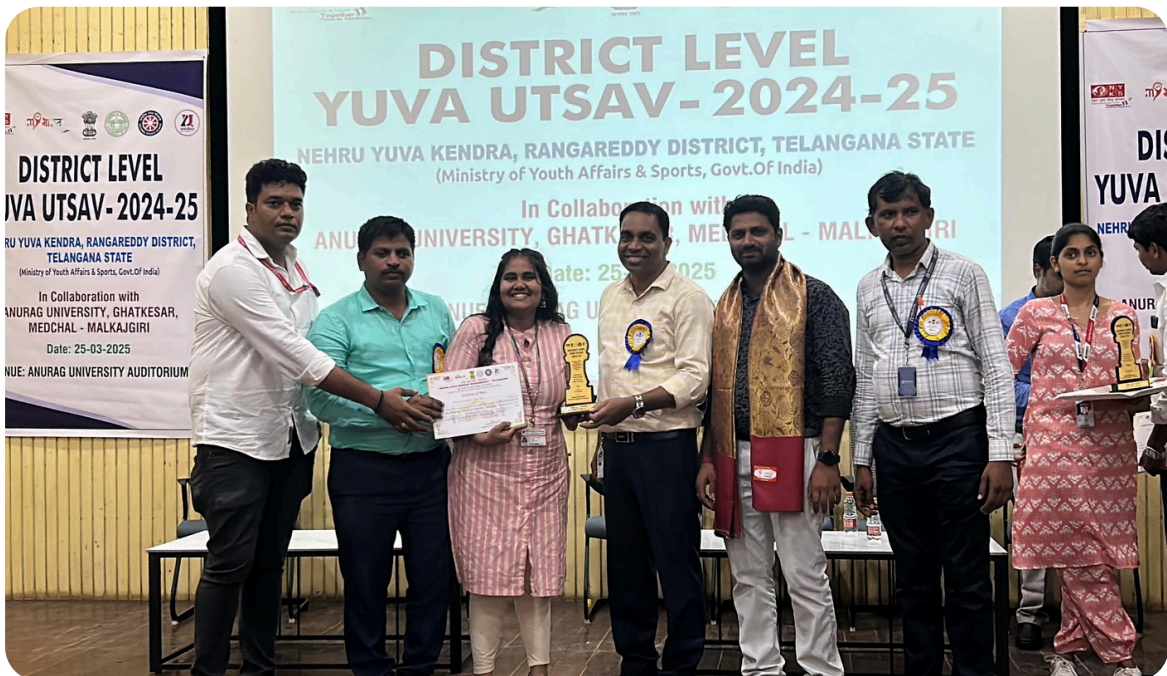
- *Mr. G Pranav participated in the 8th National Aerospace Conceptual Design Competition Supersonic Unmanned Combat Aerial Vehicle in 2025.*
- *Ms. Manasvini Thakur, participated in the 8th National Aerospace Conceptual Design Competition Supersonic Unmanned Combat Aerial Vehicle in 2025.*
- *Mr. A. Vinay Kumar, participated in the 8th National Aerospace Conceptual Design Competition Supersonic Unmanned Combat Aerial Vehicle in 2025.*
- *Mr. N Rohith Kumar, participated in the 8th National Aerospace Conceptual Design Competition Supersonic Unmanned Combat Aerial Vehicle in 2025.*
- *Mr. Suraj Dakua, participated in the 8th National Aerospace Conceptual Design Competition Supersonic Unmanned Combat Aerial Vehicle in 2025.*



Ms K Ashrita, Ms Geetika VC, Ms C Vedha Reddy, Mr Praneeth, Mr MP Lucky have participated in District Level Youth Parliament organized by Govt City College Nampally on 22.03.2025



Mr. J Anusha, secured First Position in the Cultural Dance event in the district level Yuva Utsav 2024- 25 held at Anurag University on 25.03.25 .



Ms Manasa Devi Sharma Received 3rd prize in Painting Competition at District Level Yuva Utsav organized by NYKS Ranga Reddy District on 25.03.25



Mr. Vinay,Mr. Anurag,Mr. Jithendra,Mr. Jaiwanth,Mr. Adithya Shashank,Ms. Uha Reddy,Mr. Naresh,Mr. Prashanth,Mr. Shashi ,Mr. Rohan, Mahaboob,Ms. S Keerthana, Ms. Rithika,Mr. Rishi, took part in the HMTV Cyclothon 2025: Pedalling for health and happiness on 25.01.25.



Mr. MP Lucky, Ms. Mrudula Girhepuje,Mahaboob, took part in the Anvsa Walkathon: Walk for hope on 23.03.25

NPTEL

- *Mr. GUGLOTH PRATHAP* has been certified on “Aircraft Design” by IIT Kanpur (NPTEL) on April 2025. - 17 members
- “Fundamentals of Theoretical and Experimental Aerodynamics” by IIT Kharagpur (NPTEL) on April 2025. -12 members
- *Mr. THOKALA SAIKIRAN* has been certified on “Gas dynamics: Fundamentals and Applications” by IIS Bangalore on April 2025.- 3 members
- *Mr. PENDKAR DWIJOTHAMA* has been certified on “Combustion of Solid Fuels and Propellants” by IIT Kharagpur (NPTEL) on April 2025.
- *Ms. Syeda Asma* has been certified on “Finite Element Method” by IIT Kharagpur on April 2025.
- *Ms. GEETIKA V Chas* been certified on “Programming in Java” by IIT Kharagpur (NPTEL) on April 2025.
- *Ms. KAMESWARI BUSSALA* has been certified on “Introduction to Evolutionary Dynamics” by IIT Bombay (NPTEL) on April 2025.

AEROX



FACULTY
Achievements

*"A teacher's success is not measured by their **knowledge**, but by the success they **inspire** in others."*

FACULTY ACHIEVEMENTS

"GREAT TEACHERS DON'T JUST TEACH—THEY LEAD, INNOVATE, AND LEAVE A LEGACY."

- *Mr. Nayani Uday Ranjan Goud, Assistant professor took part in the district level Yuva Utsav2024- 25 as Judge for a declamation competition held at Anurag University on 25.03.25*
- *Mr. A Sai Kumar, Mr. Nirmith Kumar Mishra, Mr. S. Sreekanth,Assistant professor participated as a faculty advisor in the 10th SAE Southern Section Drone Development Challenge held at Karpaga Vinayaga college of Engineering and technology from 28.03.25 to 30.03.25.*
- *Mr. A Sai Kumar, Assistant professor took part in the Innovation Challenge as a jury member held at MLR Institute of Technology on 25.01.25.*
- *Mr. Nirmith Kumar Mishra, Assistant professor contributed as an evaluator at Faculty Conclave-V held from 07.02.2025 to 08.02.2025.*
- *Dr. M Satyanarayana Gupta, professor & HOD , Mr. Nirmith Kumar Mishra, Assistant professor has coordinated the online training course on Space Science and Technology awareness training under ISRO START Programme conducted by IIRS institute during 09.01.25 to 29.01.25.*
- *Mr. Arun Kumar, Assistant professor has published a paper on Design, aerodynamic, and structural integrity investigations of the advanced three bladed propeller for high payload based unmanned aerial vehicles on 01.03.25.*
- *Mr. Arun Kumar, Assistant professor has published a paper on Influence of grain structure evolution and microtexture development on hardness, residual stresses, and wear behavior of AA6061 alloy processed via cryogenic friction stir processing on 30.01.25*
- *Dr. M.SATYANARYANA GUPTA, Professor & HOD has participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Harnessing Sustainable Energy for Climate Resilience at K.G.REDDY COLLEGE OF ENGINEERING & TECHNOLOGY from 20.01.25 to 25.01.25.*
- *Mr. A Sai Kumar, assistant professor ,Mr. S Sreekanth, assistant professor ,Mr. Nirmith Kumar Mishra, assistant professor has participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Unmanned Air Vehicles and Drone Technology at Maturi Venkata Subba Rao Engineering College from 27.01.25 to 01.02.25.*

- *Mr. Nirmith Kumar Mishra, Assistant professor, Mr. Nayani Uday Ranjan Goud, Assistant professor, Ms. G Sravanthi, Assistant professor, Mr. B Manideep, Assistant professor has participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Unmanned Air Vehicles and Drone Technology at Maturi Venkata Subba Rao Engineering College from 27.01.25 to 01.02.25.*
- *Mr. B Manideep, assistant professor has participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Harnessing Sustainable Energy for Climate Resilience at K.G.REDDY COLLEGE OF ENGINEERING & TECHNOLOGY from 20.01.25 to 25.01.25.*
- *Ms. G Sravanthi, Assistant professor has participated in the One Week National Level faculty development program on AI tools organised by Behara College of Engineering and technology from 17.02.25 to 21.02.25.*
- *Mr. Sreekanth Sura, assistant professor, published a patent for 'Vibrational frequency distribution analysis of cantilever beam with UDL' ON 02.01.25.*
- *Mr. Arun Kumar, assistant professor, published a patent for 'Computational analysis of composite structures laboratory manual' on 02.01.25.*
- *Mr. Nirmith Kumar Mishra, assistant professor, published a patent for 'Stress on a cantilever beam' on 03.01.25.*
- *Mr. Nayani Uday Ranjan Goud, assistant professor took part in the HMTV Cyclothon 2025: Pedalling for health and happiness on 25.01.25.*
- *Mr. A Sai Kumar, assistant professor has filed a patent on 'Design and development of Thrust stand for electric motor performance test' with Hexaind Technologies and services.*
- *Mr. Nayani Uday Ranjan Goud, assistant professor has filed a patent on 'Structural Analysis of composite wing' with Hexaind Technologies and services.*
- *Mr. B Manideep, assistant professor has filed a patent on 'Computational Modeling of turbine blades' with Hexaind Technologies and services.*
- *Ms. Sravanthi, assistant professor has filed a patent on 'Fluid flow analysis on landing gear structure ' with Hexaind Technologies and services.*
- *Mr. S Sreekanth, assistant professor has filed a patent on 'Dynamic analysis on UAV wing' with Hexaind Technologies and services.*
- *Mr.k. Arun Kumar,Assistant professor has submitted a review on "An Investigation of the Use of computational Fluid Dynamics in the Components Selection Process forAgricultural Drones"to International Journal of Aerospace Engineering on Mon, Jun 16, 2025.*

- *Mr.Nirmith Kumar Mishra, Assistant Professor has been Certified on “Designing Learner-Centric MOOCs” by IIT Bombay (NPTEL) on March 2025.*
- *Mr. B. Manideep, Assistant Professor, Ms. G. Sravanthi,Mr. k. Arun Kumar, Assistant Professor Assistant Professor,Mr. S. Sreekanth, Assistant Professor,Mr. N. Uday Ranjan Goud, Assistant Professor, has been Certified on “NBA Accreditation and Teaching and Learning in Engineering (NATE)” by IIT Bombay (NPTEL) on April 2025.*
- *Mr. k. Arun Kumar, Assistant Professor, has contributed in publishing papers on “Structure–Property Relationship in Cryo-Rolled AM50Magnesium Alloy: From Grain Refinement to Ductility Gain” on 14 June 2025.*
- *Dr. M. Satyanarayana Gupta, Professor andHead of the Department, has contributed in publishing papers on “Numerical Investigation Using Machine Learning ProcessCombinationof Bio PCM and Solar Salt for Thermal EnergyStorage Applications” on 25 June 2025.*
- *Mr.Nirmith Kumar Mishra, Assistant Professor, has contributed in publishing papers on “A Blockchain-Based Authentication Handover Protocol for Autonomous vehicle Network” on 26 June 2025.*
- *Mr.Nirmith Kumar Mishra, Assistant Professor, Mr. k. Arun Kumar, Assistant Professor, has received a certificate for active participation in the 3rd International 5-Day Faculty Development Program on “Sustainability and Research in ModernMechanical Engineering” from 02nd to 06thJune 2025, organized by the Department of Mechanical Engineering, Madanapalle Institute of Technology & Science, Andhra Pradesh, India.*
- *Mr.Nirmith Kumar Mishra, Assistant Professor has been Certified on “Designing Learner-Centric MOOCs” by IIT Madras(NPTEL) on March 2025.*
- *Mr. B. Manideep, Assistant Professor,Ms. G. Sravanthi Assistant Professor, Mr. k. Arun Kumar, Assistant Professor,Mr. S. Sreekanth, Assistant Professor, Mr. N. Uday Ranjan Goud, Assistant Professor has been Certified on “NBA Accreditation and Teaching and Learning in Engineering (NATE)” by IIT Madras (NPTEL) on April 2025.*

AWARDS



MR N UDAY RANJAN GOUD, ASST PROF- DEPT OF AERONAUTICAL & NSS PROGRAM OFFICER, RECEIVED VAN MAHOTSAV AWARD FOR MLR INSTITUTE OF TECHNOLOGY FOR THE YEAR 2024 FROM CII CHAIRMAN TELANGANA STATE ON 08.03.2025



MS K PRANATHI OF AERO IV YEAR RECEIVED THE ARUNDATHI AWARD DURING WOMEN'S DAY CELEBRATIONS AT MLR INSTITUTE OF TECHNOLOGY ON 08.03.2025

AEROX



"Champions are not born—they are made through sweat, sacrifice, and spirit."

SPORTS ACHIEVEMENTS



Secured 1st Prize at Kommuri Pratap Reddy Institute Of Technology - Basketball



Secured 2nd Place at BITS- Basketball



Secured 1st Prize at St. Peter's Engineering College in Basketball - Basketball



Secured 2nd Place at Vidya Jyothi Institute of Technology - Basketball



Faculty of Aeronautical Engineering Mr N Uday Ranjan Goud & Mr Arun Kumar have participated in college level Annual Day Table Tennis Doubles competitions and stood as Winners on 24.04.2025

AEROX



Industrial Visits

"Experience is the best teacher—and industry is its most powerful classroom."

INDUSTRIAL VISITES

"Learning doesn't only happen in classrooms—sometimes, it takes flight in hangars and control towers."



Visited: Indian Air Force Academy, Medak–Hyderabad Road, Dundigal, Telangana – 500043

An enriching industrial visit by Aeronautical Engineering students, gaining real-world exposure to the discipline, precision, and advanced technologies of the Indian Air Force.

to the Air Force Academy was an extraordinary experience that offered deep insights into the training and operational excellence of India's elite air force personnel. We had the privilege to witness several awe-inspiring events that showcased the precision, skill, and dedication inherent to military aviation. The Passing Out Parade was a grand ceremonial event marking the culmination of intense training, highlighting discipline, teamwork, and commitment of the cadets as they prepared to join the ranks of the Air Force. We were also mesmerized by the aerobatic display by the legendary Surya Kiran Aerobatics Team, whose expertly choreographed maneuvers demonstrated exceptional flying skills, precision formation flying, and aerial coordination. Adding to the thrill was the breathtaking Akash Ganga Sky Dive, where paratroopers executed a flawless descent from high altitude, showcasing courage, agility, and precision landing techniques. The air show featured the powerful Sukhoi Su-30 MKI, which performed a series of impressive maneuvers including high-G turns, vertical climbs, and dynamic rolls, exemplifying advanced aerodynamics and the cutting-edge capabilities of modern fighter aircraft. This visit not only provided us with technical insights into aircraft systems and flight operations but also left us inspired by the dedication and professionalism of the Indian Air Force.



Visited: Wings & Props

Field visit to Wings and Props Pvt. Ltd., we had the invaluable opportunity to augment our practical knowledge in aerospace manufacturing and aerostructures. Under the guidance of industry experts, we explored advanced fabrication techniques, aerodynamic component design, and quality assurance processes integral to propeller and wing assembly. The hands-on experience included detailed exposure to materials selection, precision machining, and aerodynamic testing methodologies. This immersive session allowed us to deepen our understanding of the structural dynamics and performance optimization of fixed-wing aircraft components, bridging the gap between theoretical concepts and real-world applications.

AIR INDIA VISIT:

The visit to Air India provided MLRIT students and faculty with valuable insights into the operations of a major commercial airline. We toured maintenance hangars, witnessing aircraft inspections, avionics diagnostics, and routine overhauls carried out under strict safety standards. The visit also covered ground operations such as fueling, cabin servicing, and turnaround coordination, highlighting the complexity behind efficient flight management. Presentations on fleet operations and digital integration offered a comprehensive view of airline logistics. This experience enhanced our understanding of aerospace applications in civil aviation and emphasized the importance of precision, safety, and teamwork in commercial airline operations.

AEROX



"Fueling passion, shaping pilots of innovation."

AERO CLUB EVENTS

Aerotron 2.0 is an engaging event organized by Aero Club MLRIT, designed for students passionate about aerospace technology and UAVs. The highlight of the event is a hands-on workshop and hackathon where participants design, build, and test remote-controlled (RC) fixed-wing UAVs from scratch. Through expert guidance and collaborative teamwork, attendees learn the fundamentals of aerodynamics, aircraft design, electronics, and flight control systems. The event combines practical sessions with competitive challenges, encouraging innovation and problem-solving in real time.



AEROTRON 2.0

"Where passion meets propulsion—Aero Club ignites the future of flight."

Aerotron 3.0 is the next evolution of Aero Club MLRIT's flagship aerospace event, bringing even more innovation, challenge, and hands-on learning to students passionate about UAVs and aerospace technology. This edition focuses on advancing the skills gained from previous iterations by pushing participants to design, build, and fly more sophisticated remote-controlled fixed-wing UAVs with enhanced features and capabilities.



AEROTRON 3.0

AERONXT EXPO

AeroNXT Expo is an annual aerospace exhibition organized by Aero Club MLRIT, designed to showcase the latest innovations, projects, and technologies in aeronautics and aerospace engineering. The expo brings together students, industry professionals, researchers, and enthusiasts to share knowledge, demonstrate cutting-edge UAVs, aircraft models, and aerospace solutions. Visitors can explore interactive displays, attend technical talks, and witness live demonstrations of drones, flight simulators, and other aerospace tech developed by students and experts. The event also provides a platform for networking, collaboration, and inspiration for those passionate about pushing the boundaries of aerospace innovation.

