AERO CLUB
MLRIT

MLRIT
Raising Engineers

AEROX

VOLUME - I

25th JAN 2024

STUDENT CO-ORDINATOR'S

LIKHITA SAI
MANSI

FACULTY CO-ORDINATOR

MR. N. UDAY
RANJAN GOUD

INDEX

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 careers in the field of Aerospace Engineering.

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EDITOR-IN-CHIEF

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CONTENT DIRECTOR

MANSI

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J. Aryan

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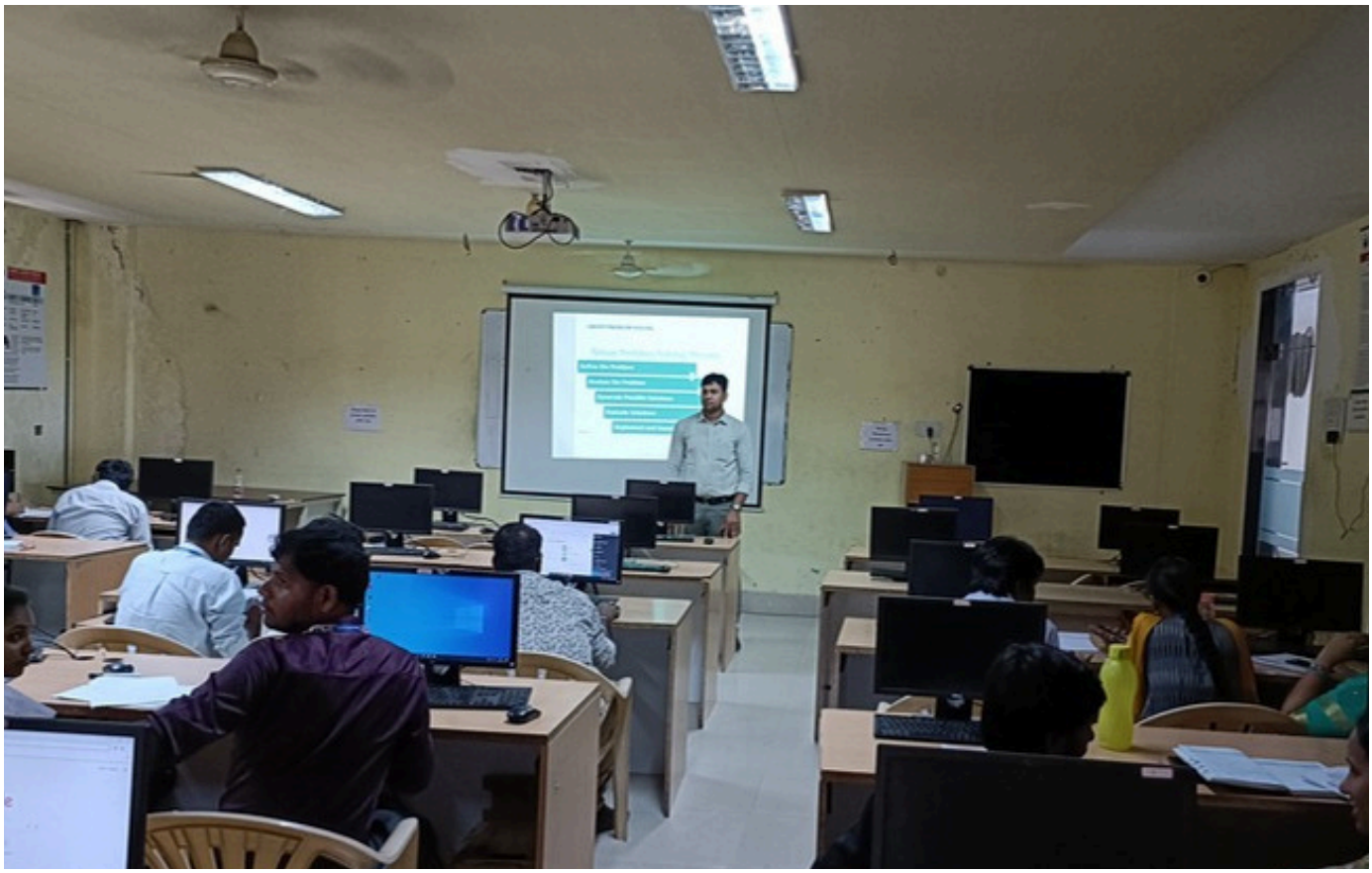
Srikanth Yadav
Harshitha Yadav

AEROX

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

DEPARTMENT EVENTS

The Aeronautical Department faculty visited pavaman Aviation, which took place on 17.08.2023. The students of aeronautical department 3rd year went to industrial visit to wings and props, Pragati Nagar in September 2023. The students of Aeronautical engineering have participated in meri mati mera desh plantation run held on 09.08.2023



AEROX

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

STUDENT ACHIEVEMENTS

- *MS.GUNASRI has participated in a 4-week technology entrepreneurship development program on drones organized by Aeronautical Department and Center for Innovation and Entrepreneurship at MLR Institute of technology from 24.07.2023 to 19.08.2023.*

- *MS.M.SAINDHIhas4-weektechnology entrepreneurship development program on drones organized by Aeronautical Department and Center for Innovation and Entrepreneurship at MLR Institute of technology from 24.07.2023 to 19.08.2023.*

- *MR.MAMIDI VINITH has participated in a 4-week technology entrepreneurship development program on drones organized by Aeronautical Department and Center for Innovation and Entrepreneurship at MLR Institute of technology from 24.07.2023 to 19.08.2023.*

- *MR.FAROOK AHMED has participated in a 4-week technology entrepreneurship development program on drones organized byAeronautical Department and Center for Innovation and Entrepreneurship at MLR Institute oftechnology from 24.07.2023 to 19.08.2023. NEWS-LETTER*

AEROX

"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. Nirmith Kumar Mishra ,Assistant Professor attended technical meet on Aerospace Luminary Lecture Series for "additive manufacturing foraerospace a application"opportunities and challengesconducted by the aeronautical societyof India on 27.08.2023.*
- *Dr. M.Satyanarayana Gupta Professor,HODparticipated in the online webinar onChandrayaan:Unraveling Lunar Mysteries ajourney Of Indian Success organized byaeronauticsdepartmentof Kumaragurucollegeoftechnologyon11.08.2023.*
- *Mr.Nirmith Kumar Mishra was recognized andappreciated for their contribution as a resourceperson to a 4-week technology entrepreneurshipdevelopment program on drones organized byAeronautical Department and Center for Innovationand Entrepreneurship at MLR Instituteoftechnology from 24.07.2023 to 19.08.2023*
- *Mr.A Sai Kumar,Assistant Professor recognizedand appreciated for their contribution as aresource person to a 4- week technologyentrepreneurship development program on dronesorganized by Aeronautical Department and Centerfor Innovation and Entrepreneurship at MLRInstitute of technology from 24.07.2023 to19.08.2023..*

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- *Prof. K.Veeranjaneyulu was recognized and appreciated for their contribution as a resource person to a 4-week technology entrepreneurship development program on drones organized by Aeronautical Department and Center for Innovation and Entrepreneurship at MLR Institute of technology from 24.07.2023 to 19.08.2023.*
- *Dr. A.VivekAnand was recognized and appreciated for their contribution as a resource person to a 4-week technology entrepreneurship development program on drones organized by Aeronautical Department and Center for Innovation and Entrepreneurship at MLR Institute of technology from 24.07.2023 to 19.08.2023.*
- *Mr.Arun Kumar Samy,Assistant Professor recognized and appreciated for their contribution as a resource person to a 4-week technology entrepreneurship development program on drones organized by Aeronautical Department and Center for Innovation and Entrepreneurship at MLR Institute of technology from 24.07.2023 to 19.08.2023.*
- *Mr. Nayani Uday Ranjan Goud,Assistant Professor has been appreciated and recognized for his volunteer service in district-level Yuva Utsav organized by Nehru Yuva Kendra on 20.07.2023.*

- *MR. A SAI KUMAR APPRECIATED FOR HIS ACTIVE ROLE ASFACULTY ADVISOR IN 8TH SAEINDIA SOUTHERN SECTION DRONE DEVELOPMENT CHALLENGE 2023 HELD AT RAJALAKSHMI ENGINEERING COLLEGE ,CHENNAI FROM 21.07.2023 TO 23.07.2023 .*
- *MR.A SAI KUMAR, ASSISTANT PROFESSOR APPRECIATED FOR HIS ACTIVE ROLE AS FACULTY ADVISOR IN 8TH SAEINDIA SOUTHERN SECTION DRONE DEVELOPMENT CHALLENGE 2023 HELD AT RAJALAKSHMI ENGINEERING COLLEGE,CHENNAI FROM 25.08.2023 TO 26.08.2023 .*
- *MR. SRIKANTH SURA ,ASSISTANT PROFESSOR APPRECIATED MFOR HIS ACTIVE ROLE AS FACULTY ADVISOR IN 8TH SAEINDIA SOUTHERN SECTION DR. PADAMNABHAMMEMORIAL ELECTRIC TWO WHEELER DESIGN COMPETITION HELD AT RAJALAKSHMI ENGINEERING COLLEGE ,CHENNAI FROM 22.07.2023 TO 23.07.2023 .*
- *MR. NIRMITH KUMAR MISHRA, ASSISTANT PROFESSOR APPRECIATED FOR HIS ACTIVE ROLE AS FACULTY ADVISORIN 8TH SAEINDIA SOUTHERN SECTION DRONEDEVELOPMENT CHALLENGE 2023 HELD AT RAJALAKSHMI ENGINEERING COLLEGE ,CHENNAI FROM 21.07.2023 TO 23.07.2023*
- *DR.M. SATYANARAYANA GUPTA PROFESSOR ,HOD APPRECIATED FOR HIS ACTIVE ROLE AS FACULTY ADVISOR 8TH SAEINDIASOUTHERN SECTION ,DR.PADAMNABHAM MEMORIAL ELECTRIC TWO WHEELER DESIGN COMPETITIONHELD AT RAJALAKSHMI ENGINEERING COLLEGE,CHENNAI FROM 22.07.2023 TO 23.07.2023 .*

- *Dr. M.Satyanarayana Gupta Professor,HOD appreciated his contribution as resourcepersontoOne-Week Workshop On Innovation Design organized by Aeronautical Department and Center for Innovation and Entrepreneurship at MLR Institute of technology from 18.07.2023 to22.07.2023.*

- *Prof. K.Veeranjaneyulu was appreciated for contribution as resource person to One-Week Workshop On Innovation Design organized by Aeronautical Department and Center for Innovation and Entrepreneurship MLR Institute of technology from 18.07.2023 t22.07.2023.*

- *Mr.A Sai Kumar,Assistant Professor appreciated for contribution as resource person to One- Week Workshop On Innovation Design organized by Aeronautical Department and Center for Innovation and Entrepreneurship MLR Institute of technology from 18.07.2023 to22.07.2023.*

- *Dr. A.Vivek Anand was appreciated for his contribution as resource person to One-WeekWorkshop On Innovation Design organized by Aeronautical Department and Center for Innovation and Entrepreneurship at MLR Institute of technology from 18.07.2023 to 22.07.2023.*

AWARDS

AEROX

"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."

INDUSTRIAL VISITS
EXPERIENTIAL LEARNING

VISITED: INDIAN AIR FORCE ACADEMY, MEDAK–HYDERABAD ROAD, DUNDIGAL, TELANGANA – 500043

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

PROGRAM OUTCOME :

- **PO1: Engineering Knowledge:** Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

- **PO2: Problem Analysis:** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development.

- **PO3: Design/Development of Solutions:** Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required.

- **PO4: Conduct Investigations of Complex Problems:** Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions.

- **PO5: Engineering Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems.

- **PO6: The Engineer and The World:** Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment.

PROGRAM OUTCOME :

- **PO7: Ethics:** Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws.

- **PO8: Individual and Collaborative Team work:** Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

- **PO9: Communication:** Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences

- **PO10: Project Management and Finance:** Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

- **PO11: Life-Long Learning:** Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change.

AEROX

VOLUME - II

20TH-JULY 2024

STUDENT CO-ORDINATOR'S

AKASH REDDY. S
ADAM. G

FACULTY CO-ORDINATOR

MR. N. UDAY
RANJAN GOUD

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PRANAV
VEDHA
ASHRITHA
MRUDHULA

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.

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 quality-oriented 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 leaders and successful entrepreneurs with strong human values.

M3: Continuously strive for knowledge enhancement, undertake research and innovation that contribute to the industrial development of the nation.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- PEO1: TO PREPARE STUDENTS TO EXCEL IN AERONAUTICAL ENGINEERING AND MOULD THEIR CAREERS FOR SUCCESSFUL EMPLOYMENT IN INDUSTRIAL, ACADEMIC, AND ENTREPRENEURIAL ACTIVITIES.

- PEO2: GRADUATES WILL ANALYZE AND SYNTHESIZE DATA AND APPLY TECHNICAL PROBLEM CONCEPTS TO DESIGN NEW PRODUCTS AND DEVELOP STRONG PROBLEM-SOLVING SKILLS.

- PEO3: GRADUATES WILL POSSESS EXCELLENT COMMUNICATION SKILLS, ETHICAL ATTITUDE, AND THE ABILITY TO RELATE ENGINEERING ISSUES TO THE BROADER SOCIAL ENVIRONMENT.

- PEO4: TO PROVIDE A DYNAMIC ACADEMIC ENVIRONMENT THAT ENCOURAGES LEARNING OF EMERGING TECHNOLOGIES, MULTIDISCIPLINARY DOMAINS, AND LEADERSHIP QUALITIES.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- *PSO1: Apply engineering and management knowledge and techniques to estimate time and resources required for Aerospace/Mechanical engineering projects.*
- *PSO2: Recognize the challenges and opportunities in careers related to Aerospace Engineering.*

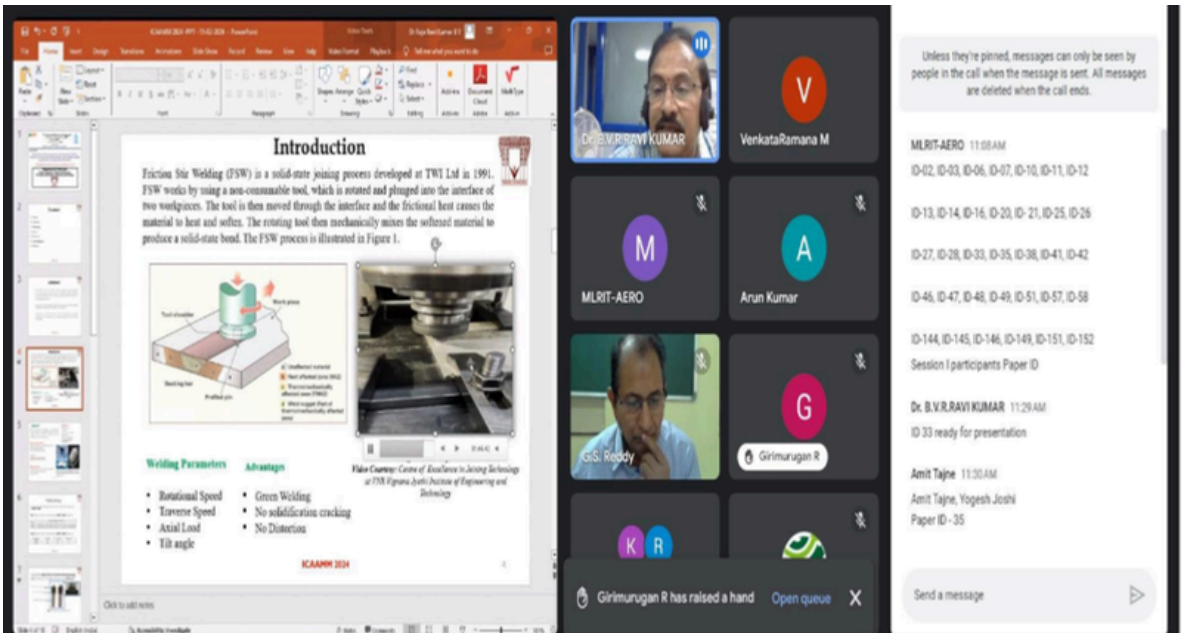
AEROX

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

DEPARTMENT EVENTS

YOUR PARAGRAPH TEXT

The Department of Aeronautical Engineering & Aero Club MLRIT has organized "Aerotron 2.0" , a 36-Hour Hackathon held at MLRIT on 5th & 6th Jan 2024.



THE 6TH INTERNATIONAL CONFERENCE ON AEROMECHANICAL MATERIALS FOR MANUFACTURING WAS CONDUCTED ON 16–17 FEBRUARY 2024 BY THE DEPARTMENT OF AERONAUTICAL ENGINEERING IN VIRTUAL MODE, WITH AROUND 250 PAPER SUBMISSIONS FROM NATIONAL AND INTERNATIONAL PARTICIPANTS. OUT OF THESE, 180 PAPERS WERE FORWARDED TO IOP (SCOPUS-INDEXED), AND BEST PAPERS WERE AWARDED DURING THE VALEDICTORY SESSION. THE CONFERENCE WAS ORGANIZED UNDER THE GUIDANCE OF DR. M. SATYANARAYANA GUPTA WITH A DEDICATED ORGANIZING TEAM.

The Department of Aeronautical Engineering has organized the "National Science Fair 2024" Event, held at MLRIT on 28 Feb, 2024.

The GI Mahotsav India 2024 (Geographical Indications Products Mela) was held from 26–28 March 2024 at MLR Institute of Technology, Hyderabad, showcasing India's rich cultural and GI-tagged products.

AEROX

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

STUDENT ACHIEVEMENTS

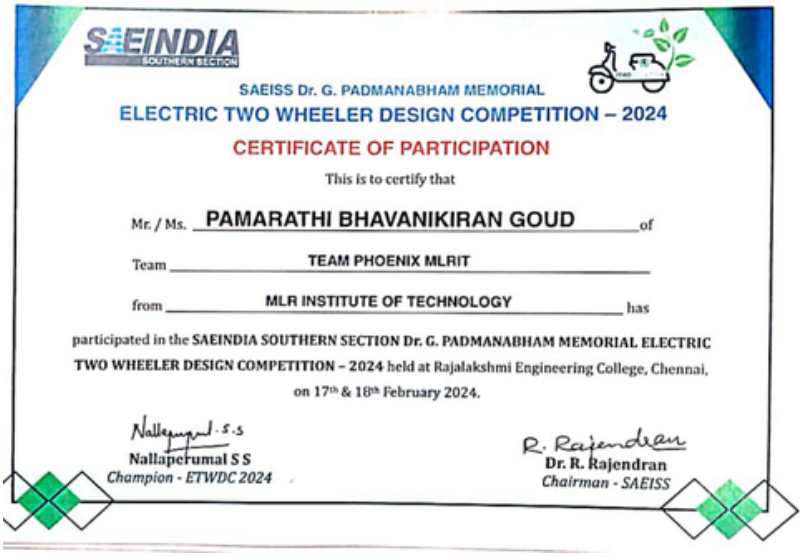
- *Aircraft Design (IIT Kanpur – NPTEL)*

28 students have successfully completed the NPTEL course on Aircraft Design offered by IIT Kanpur in April 2024.

- *Fundamentals of Theoretical and Experimental Aerodynamics (IIT Kharagpur – NPTEL)*

24 students have successfully completed the NPTEL course on Fundamentals of Theoretical and Experimental Aerodynamics offered by IIT Kharagpur in April 2024.

- *15 students have secured internship opportunities in reputed organizations such as Tata Advanced Systems Limited, DRDO Hyderabad, Marut Dronetech, Garuda Aerospace, ideaForge Technology, and Trifacta Data during 2023–2024.*
- *3 students have successfully completed internships in advanced domains like Ballistic Design & Performance Prediction of Solid Rocket Motors and Defence Research (DRDO).*
- *2 students have qualified in GATE Aerospace Engineering 2024, showcasing strong academic performance.*
- *4 students have participated in the SAEISS Electric Two-Wheeler Competition 2024 held at Chennai.*
- *5 students have secured Gold, Silver, and Bronze medals in events like NIRBHAY 2K24 and inter-department competitions.*
- *1 student has been recognized with an Academic Topper Award in 2024.*


SAEINDIA
SOUTHERN SECTION

SAEISS Dr. G. PADMANABHAM MEMORIAL
ELECTRIC TWO WHEELER DESIGN COMPETITION – 2024
CERTIFICATE OF PARTICIPATION

This is to certify that

Mr. / Ms. PAMARATHI BHAVANIKIRAN GOUD of

Team TEAM PHOENIX MLRIT

from MLR INSTITUTE OF TECHNOLOGY has

participated in the SAEINDIA SOUTHERN SECTION Dr. G. PADMANABHAM MEMORIAL ELECTRIC TWO WHEELER DESIGN COMPETITION – 2024 held at Rajalakshmi Engineering College, Chennai, on 17th & 18th February 2024.

Nallapeerumal S S
Champion - ETWDC 2024

R. Rajendran
Dr. R. Rajendran
Chairman - SAEISS

AEROX

"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”

- ***Guest Lecture & Awareness Program***
- *Mr. Nirmith Kumar Mishra and Mr. N. Uday Ranjan Goud have contributed by delivering a guest lecture and conducting an awareness program in 2024.*
- ***Conference Reviewers** (Advancements in Materials & Manufacturing – 6th Conference)*
- *Mr. Nirmith Kumar Mishra, Mr. Manideep Guptha, Mr. S. Sreekanth, Mr. K. Arun Kumar, Mr. B. Nagaraj Goud, Mr. A. Sai Kumar, and Dr. A. Vivek Anand have served as reviewers for papers in the international conference on advancements in materials and manufacturing.*
- ***Research Publications***
- *Dr. A. Vivek Anand, Mr. K. Arun Kumar, and Dr. M. Satyanarayana Gupta have contributed to multiple research publications in reputed journals during 2024.*
- ***Workshop on Patent Drafting (IPFC, MLRIT)***
- *Mr. K. Veeranjaneyulu, Mr. M. Ganesh, Mr. B. Nagaraj Goud, Mr. A. Sai Kumar, Mr. S. Sreekanth, Mr. Nirmith Kumar Mishra, Mr. N. Uday Ranjan Goud, Mr. K. Arun Kumar, Mr. B. Manideep Guptha, and Ms. G. Sravanthi have actively participated in the workshop on Patent Drafting: From Idea to Implementation.*
- ***Certificates & Recognitions***
- *Mr. N. Uday Ranjan Goud has received a Certificate of Appreciation from JNTUH (NSS Cell), and Mr. A. Sai Kumar has received recognition for his role as Faculty Advisor in SAEISS competition 2024.*
- ***AICTE Training (Innovation Ambassador)***
- *Mr. Nirmith Kumar Mishra has successfully completed Innovation Ambassador Training (Foundation & Advanced Levels) conducted by MoE’s Innovation Cell & AICTE.*
- ***Patents & Innovations***
- *Dr. A. Vivek Anand has been recognized for patents including Sugar Cane Juice Extracting Machine, RC AgroBot, and Deep Slot Propellant Milling Machine, and has also contributed to organizing GI Mahotsav and institutional projects.*

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.

పదవ తరగతి విద్యార్థులకు పరీక్షలపై అవగాహన

తెలంగాణం, మనోహరాబాద్, (ఫిబ్రవరి 10)

మనోహరాబాద్ మండలం కూచారం జిల్లా పరిషత్ హైస్కూల్ లో పదవ తరగతి విద్యార్థుల కు అవగాహన కల్పించిన అసోసియేట్ ప్రొఫెసర్ నాయిని ఉదయ్ రంజన్ గౌడ్. విద్యార్థులు ప్ర ణాళికా ప్రకారం చదువుకుని పదవ తరగతిలో ఉత్తమ ఫలితాలు సాధించి కూచారం గ్రామానికి, ఉపాధ్యాయులకు మరియు తల్లిదండ్రులకు మంచి పేరు తీసుకురావాలని కోరారు. ఈ సందర్భంగా విద్యార్థులకు పరీక్షలకు ఎలా సన్నద్ధం కావాలి, మార్కులు ఎలా తెచ్చుకోవాలి అనే విషయాల్లో అవగాహన కల్పించారు. పాస్ అవడం అనేది పెద్ద విషయం కాదని, కష్టపడి ప్రణాళికా ప్రకారం చదువుకుని మంచిగా పరీక్షలు రాస్తే, 10 జిపిఎ సాధించవచ్చని తెలిపారు. తాను కూడా ఏదవ తరగతి వరకు ప్రభుత్వ పాఠశాలలో చదువుకున్నా నని, ఇప్పుడు ఇంజనీరింగ్ విద్యార్థులకు బోధన చేస్తున్నానని చెప్పారు.

అంతే కాకుండా 10 జిపిఎ సాధించిన విద్యా ర్థులందరికీ క్యాష్ ప్రైజ్ కూడా ఇవ్వనున్నట్లు ఆయన తెలిపారు. ప్రధానోపాధ్యాయులు శ్రీమతి సవిత గారు కూడా 10 జిపిఎ సాధించిన విద్యా ర్థులందరికీ క్యాష్ ప్రైజ్ ఇవ్వనున్నట్లు తెలిపారు. ఈ కార్యక్రమంలో ఉపాధ్యాయులు, విద్యార్థులు తదితరులు పాల్గొన్నారు.

NEWS LINE తెలంగాణం www.telanganam.news | epaper.newslinetelugu.com
11 Feb 2024 - Page 5

MR. N. UDAY RANJAN GOUD, ASSISTANT PROFESSOR, CONDUCTED AN AWARENESS PROGRAM FOR 10TH CLASS STUDENTS AT ZPHS KUCHARAM.

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

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"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.

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.”"

AEROX

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

PROGRAM OUTCOMES

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- *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.