

AERO EXPRESS

DEPARTMENT OF AERONAUTICAL ENGINEERING



PUBLISHER'S

FACULTY CO-ORDINATOR

MR.N.UDAY RANJAN GOUD

STUDENT CO-ORDINATOR

G.Adam - 22R21A2117

S.Akash Reddy-22R21A2164

S.Keerthana - 22R21A2156

J.Anusha - 22R21A2125

"To succeed in your mission, you must have single-minded devotion to your goal."

NEWS-LETTER

OCT- DEC 2022

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 ace leaders and successful entrepreneurs with human values.

M3. Continuously strive for knowledge; undertake Research and Innovation that will contribute to the industrial development of the nation.

HIGHLIGHT

DEPARTMENTAL ACHIEVEMENTS

STUDENT ACHIEVEMENTS

FACULTY ACHIEVEMENTS

NEWS-LETTER

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.

- Aeronautical Engineering Department has organized “Workshop and Competition on Walk Along Glider” in collaboration with IAA on 15-10-2022 with participation of 64 students.
- Aeronautical Engineering Department has organized “ICAAMM-2022 International Conference” at MLR Institute of Technology from 16-12-2022 to 17-12-2022 with participation of 211 faculty and students.
- Aeronautical Engineering Department has conducted a value added course on “SolidWorks” in collaboration with Dassault Systems from 19-11-2022 to 25-12-2022 with participation of 48 students.
- Aeronautical Engineering Department has organized Aero Club Elections at MLR Institute of Technology on 21-10-2022 with participation of 200 students.
- Aeronautical Engineering Department has achieved publication of 19 international conference papers indexed in Scopus on 29-11-2022.

NEWS-LETTER

FACULTY ACHIEVEMENTS

- Mr. A Sai Kumar, Assistant Professor has delivered an invited talk on “Design of Glider” on 15-10-2022.
- Mr. Nirmith Kumar Mishra, Assistant Professor has delivered an invited talk on “Development of Glider” on 15-10-2022.
- Mr. A Sai Kumar, Assistant Professor has handled sessions on “3D Modeling” during SolidWorks course from November 2022 to December 2022.
- Mr. Uday Ranjan Goud, Assistant Professor has received “Guru Spandana Puraskar” on 15-10-2022.
- 7 faculty members of Aeronautical Engineering have completed Faculty Development Programme on Amazon Web Services from 22-08-2022 to 27-08-2022.

NEWS-LETTER

STUDENT ACHIEVEMENTS

- 57 students of Aeronautical Engineering have attended an industrial visit to Air Force Academy, Dundigal on 15-12-2022.
- 11 students of Aeronautical Engineering have completed internships at DRDO, Bharat Dynamics Limited and other industries from November 2022 to December 2022.
- 50 students of Aeronautical Engineering have certified in “SolidWorks Certification” from 24-12-2022 to 25-12-2022.
- 8 students of Aeronautical Engineering have participated in “Boeing Build 2.0” from 05-12-2022 to 09-12-2022.
- 5 students of Aeronautical Engineering have secured prizes in “Walk Along Glider Competition” on 15-10-2022.

NEWS-LETTER

PO'S

- **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.

NEWS-LETTER

PO'S

- **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.

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Simon
Ajay
Sahithi

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- Department of Aeronautical Engineering organized “National Science fair” on 28 February 2023
- Department of Aeronautical Engineering organized a student industry to NRSC Outreach Facility-ISRO Jeedimatla coordinated by Mr. Nirmith Kumar Mishra, Assistant professor on 6 Feb 2023
- Department of Aeronautical Engineering conducted LUNAR 2023(National Science Fair) in collaboration with IAAA with Dr. M. Satyanarayana Gupta as the expert on 28 Feb 2023
- Department of Aeronautical Engineering participated in National Youth Day Yoga and Meditation program conducted by NSS on 12-01-2023
- Department of Aeronautical Engineering participated in CPR training conducted by NSS on 06-03-2023

NEWS-LETTER

FACULTY ACHIEVEMENTS

- Mr. Nirmith Kumar Mishra, Assistant Professor delivered a lecture on Collaborative Learning during Faculty Induction Program on January 9th and 10th 2023
- Dr. M. Satyanarayana Gupta, Professor and HOD was appointed as judge for Technical Fest organized by CBIT on 01-02-2023
- Mr. A. Sai Kumar, Assistant Professor delivered a Technical Talk during Veda Narashima Services on 06-03-2023
- Dr. Vivek Anand, Associate Professor gave a Technical Talk on IPR organized by CIE-MLRIT on 17-02-2023
- Mr. Nirmith Kumar Mishra, Assistant Professor gave a lecture on Active Learning Strategies Collaborative Learning during Faculty Induction Program hosted by MLRIT on 02-03-2023
- Dr. Vivek Anand, Associate Professor gave a Technical Talk on IPR organized by CIE-MLRIT on 29-03-2023
- Mr. N.Uday Ranjan Goud, Assistant Professor and NSS Program Officer gave a Motivational Talk for Class X students at ZPHS Kucharam on 04-02-2023
- Mr. N.Uday Ranjan Goud, Assistant Professor and NSS Program Officer gave a Motivational Talk for Class X students at Kasturbha Girls Residential School Kucharam on 04-02-2023
- Mr. N.Uday Ranjan Goud, Assistant Professor and NSS Program Officer gave a Motivational Talk for Class X students at GGHS Trimulgherry on 14-03-2023
- Mr. N.Uday Ranjan Goud, Assistant Professor and NSS Program Officer gave a Motivational Talk for Class X students at ZPHS Kallakal on 18-03-2023

NEWS-LETTER

FACULTY ACHIEVEMENTS

- Mr. N.Uday Ranjan Goud, Assistant Professor and NSS Program Officer was appointed as Contingent Leader for National Youth Festival in Hubli, Karnataka on 12th to 16th January 2023
- Mr. A. Sai Kumar, Assistant Professor was appointed as a Mentor for Anveshan in 2023 Hyderabad
- Mr. N.Uday Ranjan Goud, Assistant Professor and NSS Program Officer was awarded with Haritha Haram Award on 07-03-2023 hyderabad
- Dr. M. Satyanarayana Gupta, Professor and HOD completed a course on Deigning course outcomes and outcome focused questions in January 2023
- Mr. Nirmith Kumar Mishra, Assistant Professor completed a course on Deigning course outcomes and outcome focused questions in January 2023
- Mr. S. Sreekanth, Assistant Professor completed a course on Deigning course outcomes and outcome focused questions in January 2023
- Mr. K. Veeranjanyulu, Assistant Professor completed a course on Deigning course outcomes and outcome focused questions in January 2023
- Mr. B. Manidepp, Assistant Professor completed a course on Deigning course outcomes and outcome focused questions in January 2023
- Mr. A. Sai Kumar, Assistant Professor completed a course on Deigning course outcomes and outcome focused questions in January 2023
- Mr. N.Uday Ranjan Goud, Assistant Professor published a paper on Computational modeling of thermodynamical pulsatile flow with uncertain

- Mr. Nirmith Kumar Mishra, Assistant Professor published a paper on Optimization of the anaerobic fermentation process for phosphate release using food wastage Environmental Research Journal on 12 February 2023
- Mr. A. Sai Kumar, Assistant Professor published a paper on A review on the sustainable procurement of microbial biomass from wastewaters of the production of bio-fuels in Chemosphere, Elsevier Journal in January 2023
- Dr. Vivek Anand, Associate Professor published a paper on Computational fluid dynamic studies on configured propeller blades integrated with E62 airfoil in International Journal on Interactive Design and Manufacturing in March 2023
- Dr. Vivek Anand, Associate Professor published a paper on Promising strategies of circular bioeconomy using heavy metal phyto-mediated plants– A critical review in Chemosphere Journal in Feb 2023
- Dr. Vivek Anand, Associate Professor published a paper on Enhancement of combustion characteristics of waste cooking oil biodiesel using TiO₂ nanofluid blends through RSM in 2023
- Mr. Nirmith Kumar Mishra, Assistant Professor published a paper on Computational fluid dynamic studies on configured propeller blades integrated with E62 airfoil in International Journal on Interactive Design and Manufacturing in March 2023
- Mr. K. Veeranjanyulu, Assistant Professor published a paper on Investigating concentration of nano-particles influence in Molybdenum disulfide waste cooking oil nanofluid in Material Today Journal in March 2023

- Mr. Nirmith Kumar Mishra, Assistant Professor published a paper on Improvement of load bearing capacity by changing design parameters and materials properties of journal bearings utilized in marine applications in Material Today Journal in March 2023
- Mr. S. Sreekanth, Assistant Professor published a paper on Investigation of ceramic coating on operating characteristic of DI CI diesel engine fuelled with safflower methyl ester in Material Today Journal in March 2023
- Mr. S. Sreekanth, Assistant Professor published a paper on Dynamic characteristic studies of novel flexible flip-type Savonius hydrokinetic turbine in Material Today Journal in March 2023
- Mr. B. Manidepp, Assistant Professor published a paper on Experimental Investigation on the impact of NOx in CI engine fueled with rapeseed biodiesel with antioxidant additives in Material Today Journal in February 2023
- Mr. B. Manidepp, Assistant Professor published a paper on Experimental Investigation on Performance and emission characteristics of algae oil biodiesel with methanol additive in CI engine in March 2023

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FACULTY ACHIEVEMENTS

- Dr. M. Satyanarayana Gupta, Professor and HOD provided Consultancy for VR Engineering works in January 2023
- Mr. Nirmith Kumar Mishra, Assistant Professor provided Consultancy for VR Engineering in January 2023
- Mr. M. Ganesh, Associate Professor provided Consultancy for VR Engineering in January 2023
- Mr. A. Sai Kumar, Assistant Professor provided Consultancy for VR Engineering works in January 2023
- Mr. S. Sreekanth, Assistant Professor provided Consultancy for BR INDUSTRIES in February 2023
- Dr. Vivek Anand, Associate Professor provided Consultancy for KB Auto crafts in February 2023
- Mr. B. Manidepp, Assistant Professor provided Consultancy for Bharathi Industries in February 2023
- Mr. B. Nagraj Goud, Assistant Professor provided Consultancy for Sai Sindhu Industries in March 2023
- Mr. Arun Kumar, Assistant Professor provided Consultancy for Sai Sindhu Industries in March 2023

- **Mr. K. Veeranjanyulu, Assistant Professor provided Consultancy for Bharathi Industries in February 2023**
- **Mr. N.Uday Ranjan Goud, Assistant Professor provided Consultancy for Bharathi Industries in February 2023**

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STUDENT ACHIEVEMENTS

- M Sushmitha worked as an intern at Tata Advanced Systems on 4 July 2022 till Feb.
- G Srishanth worked as an intern at Tata Advanced Systems on 4 July 2022 till Now.
- G Harshitha worked as an intern at Tata Advanced Systems on 4 July 2022 till Now.
- G Shashank Netha worked as an intern at ASL DRDO on 12 Aug 2022.
- K Siddarth Vivek worked as an intern at Mauka Technologies Pvt.Ltd on 19 Jan 2023.
- P Meghnana Reddy worked as an intern at Tata Advanced Systems Limited on 23 Jan 2023.
- K Nithin worked as an intern at DRDL_DRDO on 27 Jan 2023.
- B Surya Prakash Reddy worked as an intern at Skolar on 1 Feb 2023.
- G Prashanth Kumar worked as an intern at Skolar on 1 Feb 2023.
- G Srinayani worked as an intern at Skolar on 1 Feb 2023.
- M Sruthi worked as an intern at Skolar on 1 Feb 2023.
- S Srikar Sudarshan worked as an intern at Skolar on 1 Feb 2023.
- A Anjireddy worked as an intern at Skolar on 15 March 2023.
- B Sairohith worked as an intern at DRDL_DRDO on 13 Feb 2023.

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STUDENT ACHIEVEMENTS

- K Sai Krishna worked as an intern at TIRVEN Industries Pvt. Ltd on 7 Feb 2023.
- K Shiwathmika worked as an intern at Ziegler Aerospace on 15 Mar 2023.
- K Ram Sai worked as an intern at Stingfly Aerospace on 15 Dec 2022 till today.
- Hamika R worked as an intern at Mentored Minds (Virtual Internship) on 6 Mar 2023.
- K Pavani worked as an intern at AST AEROSYSTEMS PVT LTD on 13 Mar 2023.
- Saiesh attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- Rajkumar attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- Yashwanth attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- Venkatesh attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- Bandewar Sahithi attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- Mansi Tiwari attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- Nithin attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- Aakash attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.

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STUDENT ACHIEVEMENTS

- Pavithra attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- Ishaan Suri attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- Parth Jala attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- Madhavachary A T Sanidhi attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- G Mokshanand attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- K Nithya Varalaxmi Reddy attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- G Chetan Kumar attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- Govindu Shreelaya attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- Likhitha Sai Sandu attended the SAE DDC Workshop (National) on 20 Jan 2023 - 21 Jan 2023.
- Rajesh attended the SAEISS Dr G Padmnabham Memorial Electrical 2 wheeler Design (National) on 4 Feb 2023 - 5 Feb 2023.

- Adithya attended the SAEISS Dr G Padmnabham Memorial Electrical 2 wheeler Design (National) on 4 Feb 2023 - 5 Feb 2023.
- Raja Samaiah attended the SAEISS Dr G Padmnabham Memorial Electrical 2 wheeler Design (National) on 4 Feb 2023 - 5 Feb 2023.
- Bhavani Kiran attended the SAEISS Dr G Padmnabham Memorial Electrical 2 wheeler Design (National) on 4 Feb 2023 - 5 Feb 2023.
- Ch Paul attended the SAEISS Dr G Padmnabham Memorial Electrical 2 wheeler Design (National) on 4 Feb 2023 - 5 Feb 2023.
- C Manoj attended the SAEISS Dr G Padmnabham Memorial Electrical 2 wheeler Design (National) on 4 Feb 2023 - 5 Feb 2023.
- B. Sai Rohith attended the SAE ADDC WORKSHOP (National) on 24 Feb 2023 - 25 Feb 2023.
- Rohan attended the SAE ADDC WORKSHOP (National) on 24 Feb 2023 - 25 Feb 2023.
- K. Pranathi attended the SAE ADDC WORKSHOP (National) on 24 Feb 2023 - 25 Feb 2023.
- Linga Raju attended the SAE ADDC WORKSHOP (National) on 24 Feb 2023 - 25 Feb 2023.

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- **G B Damodhar** attended the **SAE ADDC WORKSHOP (National)** on **24 Feb 2023 - 25 Feb 2023**.
- **P. Vivek** attended the **SAE ADDC WORKSHOP (National)** on **24 Feb 2023 - 25 Feb 2023**.
- **Chandrakaladhar** attended the **SAE ADDC WORKSHOP (National)** on **24 Feb 2023 - 25 Feb 2023**.
- **J. Yogesh** attended the **SAE ADDC WORKSHOP (National)** on **24 Feb 2023 - 25 Feb 2023**.
- **Krishna Kumari** attended the **SAE ADDC WORKSHOP (National)** on **24 Feb 2023 - 25 Feb 2023**.
- **D. Raj Kumar (20R21A2114)** participated in the **Flight Fury – RC Aircraft Challenge (National)** from **24/03/2023 to 26/03/2023**.
- **G. Chetan Kumar (20R21A2116)** participated in the **Flight Fury – RC Aircraft Challenge (National)** from **24/03/2023 to 26/03/2023**.
- **G. Mokshanad (20R21A2118)** participated in the **Flight Fury – RC Aircraft Challenge (National)** from **24/03/2023 to 26/03/2023**.
- **T. Hari Vara Prasad (20R21A2121)** participated in the **Flight Fury – RC Aircraft Challenge (National)** from **24/03/2023 to 26/03/2023**.

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STUDENT ACHIEVEMENTS

- K. Karthish (20R21A2126) participated in the Flight Fury – RC Aircraft Challenge (National) from 24/03/2023 to 26/03/2023.
- Yashwanth (20R21A2138) participated in the Flight Fury – RC Aircraft Challenge (National) from 24/03/2023 to 26/03/2023.
- T. Vignesh (20R21A2154) participated in the Flight Fury – RC Aircraft Challenge (National) from 24/03/2023 to 26/03/2023.
- Madhava Chary Samidhi (20R21A2132) participated in the Flight Fury – RC Aircraft Challenge (National) from 24/03/2023 to 26/03/2023.
- T. Saiesh (20R21A2155) participated in the Flight Fury – RC Aircraft Challenge (National) from 24/03/2023 to 26/03/2023.
- G. Mokshanad (20R21A2118) participated in the Flight Fury – RC Aircraft Challenge (National) from 24/03/2023 to 26/03/2023. V. Mayur (19R21A2185) participated in the Laws of Motion – RC Aircraft Challenge (National) from 20/03/2023 to 22/03/2023.
- S. Srikar (20R25A2119) participated in the Laws of Motion – RC Aircraft Challenge (National) from 20/03/2023 to 22/03/2023.

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- **B. Vishal (19R21A2150)** participated in the Laws of Motion – RC Aircraft Challenge (National) from 20/03/2023 to 22/03/2023.
- **Mr. K Ram Sai (19R21A2121)** was selected to participate in the National Youth Festival 2023 from 12/01/2023 to 16/01/2023 at Hubballi-Dharwad, Karnataka.
- **Mr. K Ram Sai (19R21A2121)** volunteered for Thalassemia blood donation at Arundathi Hospital Dundigal on 7 Jan 2023.
- **Mr. K Ram Sai (19R21A2121)** participated in the 26th National Youth Festival 2023 held at Hubli-Dharwad from 12 Jan 2023 to 16 Jan 2023.
- **Mr. Raju Kumar (21R21A2146)** volunteered for Thalassemia blood donation at Arundathi Hospital Dundigal on 20 Jan 2023.
- **Mr. A Venkatesh (20R21A2101)** participated in the National Level Youth Parliament (Virtual) on 7 Feb 2023.

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- Mr.A. Sai Kumar , associate professor has published a research article on Design and Fabrication of Automatic Emergency Braking System on MAY 22 2023
- Mr.A. Sai Kumar, associate professor has published a research article on Design and Fabrication of Blended Wing Body UAV on MAY 22 2023
- Mr.Nirmith kumar Mishra , associate professor has published a research article on Design and Fabrication of Blended Wing Body UAV on MAY 22 2023
- Mr. M.Ganesh, associate professor has published a research article on Design and Fabrication of Blended Wing Body UAV on MAY 22 2023
- Mr.A. Sai Kumar et'al, have published a research article on Flow investigation of a multiple winglet wing model on MAY 22 2023
- Mr.M.Satyanarayana Gupta , associate professor has published a research article on Flow investigation of a multiple winglet wing model on MAY 22 2023
- Mr.B.Nagaraj Goud , associate professor has published a research article on Flow investigation of a multiple winglet wing model on MAY 22 2023
- Mr.A. Sai Kumar, associate professor has published a research article on High-speed aerodynamic analysis of a ducted re-entry on MAY 22 2023
- Mr.A. Sai Kumar et'al, have published a research article on Modelling and CFD Analysis of Supercritical Airfoil with Slotted Flap at Various on MAY 22 2023
- Mr.B. Manideep et'al, have published a research article on Numerical Simulation of a Blunt Body to Investigate Drag Characteristics With Active and Passive Device on MAY 22 2023

NEWS-LETTER

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- Mr.Nirmith kumar Mishra , associate professor has published a research article on Characterization of supercritical airfoils using computational and experimental techniques on MAY 22 2023
- Mr.M.Satyanarayana Gupta et'al ,have published a research article on Computational Analysis Over Wings on MAY 22 2023
- Mr.Nirmith kumar Mishra , associate professor has published a research article on Design and analysis of a gas turbine blade on MAY 22 2023
- Mr.A. Sai Kumar, associate professor has published a research article on Design and fabrication of blended wing body UAV on MAY 22 2023
- Mr.A. Sai Kumar et'al, have published a research article on Modelling and CFD Analysis of Supercritical Airfoil with Slotted Flap at Various flight segments on MAY 22 2023
- Mr.Nirmith Kumar Mishra , associate professor has published a research article on Performance investigation of a finite wing section with bleed hole allowing boundary layer suction with different locations & areas of exit on MAY 22 2023
- Mr.B.Nagaraj Goud et'al, , have published a research article on Modeling and static structural analysis on stiffened panel for an aircraft structure on MAY 22 2023
- Mr.S.Sreekanth, associate professor has published a research article on Design and fabrication of micro class aerial vehicle with elliptical wing tips on MAY 22 2023

NEWS-LETTER

DEPARTMENTAL ACHIEVEMENTS

- Mr.M.Satyanarayana Gupta , Hod and associate professor has published a research article on effect of process parameter on write cut EMD using RSM method on 23 June 2023
- Mr.Vivek Anand , associate professor has published a research article on Interpretive Structural Modeling Based Analysis of Factors Influencing Implementation of Lean and Sustainability Concepts in Aerospace Sector on MAY 22 2023
- Mr.Vivek Anand , associate professor has published a research article on Wetting behavior of microgroove and micropillar patterned surface on MAY 22 2023
- Mr.Vivek Anand , associate professor has published a research article on Mechanical properties of hybrid composite sandwich structure with sisal and E glass fiber on MAY 22 2023
- Mr.Vivek Anand , associate professor has published a research article on Mechanical properties of Green Composites with Hemp/Sisal Fiber and Novolac Resin on MAY 22 2023
- Mr.Vivek Anand , associate professor has published a research article on Magnesium matrix reinforced with zirconium, garnet and graphite for improved mechanical properties on MAY 22 2023
- Mr.B. Manideep, associate professor has published a research article on CFD Investigation of rocket exhaust thrust vector control using gas injection on MAY 22 2023
- Mr.B. Manideep, associate professor has published a research article on Review on phase change materials and their applications on MAY 22 2023

NEWS-LETTER

DEPARTMENTAL ACHIEVEMENTS

- Mr.B. Manideep et'al, have published a research article on Mounting plate design for section-IV of aerospace vehicle under yawing mode on MAY 22 2023
- Mr.Nirmith kumar Mishra , associate professor has published a research article on Property enhancement on neem biodiesel by varying the temperature transesterification process
- Mr.K. Veeranjanyulu , associate professor has published a research article on Aerodynamic Characteristics of Two Stage Morphing Wing of UAV on MAY 22 2023
- Mr.K. Veeranjanyulu , associate professor has published a research article on Analysis of supercavitation on 2D and 3D disk cavitator on MAY 22 2023
- Mr.K. Veeranjanyulu , associate professor has published a research article on Design and analysis of a chord wise morphing wing using NACA0015 airfoil on MAY 22 2023
- Mr.K. Veeranjanyulu , associate professor has published a research article on Fabrication and structural analysis of morphing wing of UAV on MAY 22 2023
- Mr.K. Veeranjanyulu , associate professor has published a research article on Similitude analysis and model fabrication of ariel on MAY 22 2023

NEWS-LETTER

DEPARTMENTAL ACHIEVEMENTS

- Ms. MNVS Swetha Bala , associate professor has published a research article on Comparison of Flow Analysis over Different Wings on MAY 22 2023
- Ms. MNVS Swetha Bala , associate professor has published a research article on Analysis of performance characteristics on a motorcycle with an external air induction system on MAY 22 2023
- Mr.Uday Ranjan Goud, , associate professor has published a research article on Development of an efficient process for recycling of lithium – ion batteries on MAY 22 2023
- Mr.Uday Ranjan Goud, , associate professor has published a research article on Development of novel SMC based multi input single output boost converter on MAY 22 2023
- Mr.Uday Ranjan Goud, , associate professor has published a research article on Experimental determination of mechanical properties of a carbon fiber composite plate under hygrothermal environment on MAY 22 2023

NEWS-LETTER

DEPARTMENTAL ACHIEVEMENTS

- Ms.G.Sravanthi, associate professor has published a research article on Drilling parameters optimization of AA2218 based metal matrix composites by using Taguchi method on 22 May 2023
- Mr.D.Mahesh Kumar, associate professor has published a research article on Performance Improvement in Thermal Conductivity Measuring Apparatus using spiral Heating coil on 22 May 2023
- Mr.D.Mahesh Kumar, associate professor has published a research article on Modelling of battermal management system for improved battery efficiency on 22 May 2023
- Mr.K.Arunkumar et'al, have published a research article on Experimental and Analytical Investigation on natural composite material on 22 May 2023
- Mr.K.Arunkumar et'al, have published a research article on Optimization of UAV by Using Tubercles Wing Configuration on 22 May 2023
- Mr.K.Arunkumar, associate professor has published a research article on Topology Optimization of Alumminium Alloy Wheels for SUV 22 May2023

NEWS-LETTER

DEPARTMENTAL ACHIEVEMENTS

- Ms.A.Udaya Deepika, associate professor has published a research article on Analysis of Air Flow Distribution in Raisin Dryer on 22 May 2023
- Ms.A.Udaya Deepika, associate professor has published a research article on Evaluation of geometrical nonlinear behavior of FRP Composite plate using finite element method on 22 May 2023
- Ms.A.Udaya Deepika, associate professor has published a research article on Experimental analysis of green composite material using hand lay-up technique on 22 May 2023
- Ms.A.Udaya Deepika, associate professor has published a research article on Experimental Investigation on surface characteristics of copper by Roller Burnishing process 22 May 2023
- Ms.A.Udaya Deepika, associate professor has published a research article on Modeling and Structural analysis of two stage gear box with different materials 22 May 2023
- Mr.M.Srikanth, associate professor has published a research article on Mechanical Testing of Coconut Sheath fiber reinforced polymer composite in effect to various treatments with alkaline solutions on 22 May 2023
- Ms.N.Madhavi et'al , have published a research article on Fabrication and testing of composite materials on 22 May 2023

NEWS-LETTER

PO'S

- **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.

NEWS-LETTER

PO'S

- **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.

AERO EXPRESS

DEPARTMENT OF AERONAUTICAL ENGINEERING



PUBLISHER'S

FACULTY CO-ORDINATOR
MR.N.UDAY RANJAN GOUD

STUDENT CO-ORDINATOR
P.Anusha
J.Monisha

"To succeed in your mission, you must have single-minded devotion to your goal."

NEWS-LETTER

JULY - SEPT 2023

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 ace leaders and successful entrepreneurs with human values.

M3. Continuously strive for knowledge; undertake Research and Innovation that will contribute to the industrial development of the nation.

HIGHLIGHT

DEPARTMENTAL ACHIEVEMENTS

STUDENT ACHIEVEMENTS

FACULTY ACHIEVEMENTS

NEWS-LETTER

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.

NEWS-LETTER

DEPARTMENTAL ACHIEVEMENTS

- 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

NEWS-LETTER

STUDENT ACHIEVEMENTS

- Mr. B SAI ROHITH (20R21A2108) has completed an internship on the project "Design & Development of a Multi-rotor UAV" by DYSL-AT-DRDO from 03.07.2023 to 03.08.2023.
- Ms. CHINTHALA SRIDEVI (20R21A2110) has completed internship by TATA Lockheed Aerostructure Limited on 29.09.2023 for 3months.
- Mr. RAJ KUMAR (20R21A2114) completed an internship by SOARON FLY on 18.08.2023 for 12 weeks.
- Mr. VENKAT PRASAD (20R21A2117) has completed an internship with TRIAD AEROSPACE PVT LTD from 21.08.2023 to 25.11.2023.
- Mr. TUMMALA HARI HARA VARA PRASAD (20R21A2121) has completed internship at International Advanced Research Center for Powder Metallurgy and New Materials (ARCI), Hyd from 08.07.2023 to 10.08.2023.
- K. NITHYA VARALAXMI REDDY (20R21A2123) has completed internship at Tapovan Yantrik Private Limited from 12.08.2023 to 15.11.2023.
- Ms. K. PRANATHI (20R21A2124) has completed an internship at DRDO from 24.07.2023 to 31.08.2023.
- Mr. MADHAV SAINIDHI (20R21A2132) has completed an internship with TRIAD AEROSPACE PVT LTD from 21.08.2023 to 25.11.2023.

NEWS-LETTER

STUDENT ACHIEVEMENTS

- Ms. NANDINI RAMAWAT (20R21A2137) has completed internship by TATA Lockheed Aerostructure Limited on 14.09.2023 for 3 months.
- MR.NEDUNOORI YASHWANTH(20R21A2138) has completed an internship by DRDL-DRDO FROM 24.06.23 TO 24.07.2023.
- MR.NEDUNOORI YASHWANTH(20R21A2138) has completed an internship at Tapovan Yantrik Private Limited from 28.08.2023 to 30.11.2023.
- MR. NIDHIP SHARMA(20R21A2139) has completed an internship at Binford research labs pvt ltd. From 20.09.2023 to 20.12.2023.
- MR.PATWARI VIVEK (20R21A2143) has completed internship at BHEL from 06.07.2023 to 4.08.2023.
- MR.ROHAN SAI ADISERLA(20R21A2145) has completed an internship at TRIFACTA DATA from 18.09.2023.
- Mr.ROPERO RAHUL (20R21A2146) has completed an internship with TRIAD AEROSPACE PVT LTD from 08.09.2023 to 25.11.2023.
- MR. .SAIESH THORLIKONDA (20R21A2155) completed internship at Tapovan Yantrik Private Limited from 12.08.2023 to 15.11.2023.
- Mr.ABHISHEK DASH (21R21A2101) has completed an internship with TRIAD AEROSPACE PVT LTD from 08.09.2023 to 25.11.2023.

NEWS-LETTER

STUDENT ACHIEVEMENTS

- **Mr.BADAVATH BHARGHAV TEJ (21R21A2108)** has completed an internship with TRIAD AEROSPACE PVT LTD from 08.09.2023 to 25.11.2023.
- **MR.NEDUNOORI YASHWANTH (20R21A2138)** has completed an internship by DRDL-DRDO FROM 24.06.23 TO 24.07.2023.
- **MS.BANDEWAR SAHITH(21R21A2111)** has completed an internship by DRDL-DRDO FROM 24.06.23 TO 24.07.2023.
- **Mr.ISHAAN SURI (21R21A2121)**has completed an internship with TRIAD AEROSPACE PVT LTD from 08.09.2023 to 25.11.2023.
- **Ms.BHAVANI KIRAN GOUD (21R21A2138)**has completed internship with TRIAD AEROSPACE PVT LTD from 08.09.2023 to 25.11.2023.
- **Mr.PARTH JALA(21R21A2139)**has completed an internship with TRIAD AEROSPACE PVT LTD from 08.09.2023 to 25.11.2023.
- **Mr.MANIDEEP VODELA (21R21A2153)**has completed an internship with TRIAD AEROSPACE PVT LTD from 08.09.2023 to 25.11.2023.
- **Mr.CH LINGA RAJU(21R25A2101)**has completed an internship with TRIAD AEROSPACE PVT LTD from 08.09.2023 to 25.11.2023.

NEWS-LETTER

STUDENT ACHIEVEMENTS

- **Mr.GOWLIKAR NITHIN RAJ (21R25A2103)** has completed an internship with TRIAD AEROSPACE PVT LTD from 08.09.2023 to 25.11.2023.
- **MR.MOKSHANAD GOPINEEDI** has participated in an online training program on overview of space science conducted by ISRO from 20.07.2023 to 7.08.2023.
- **MR.MOKSHANAD GOPINEEDI** has participated in an online training program on python basics conducted by hacker rank on 01.07.2023.
- **MR.MOKSHANAD GOPINEEDI** has participated in a cosmic journey with omspace on exploring the phenomenon of the big bang,session1.1 on 9.08.2023.
- **Ms.AJMEERA NANDHISHWARI** 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.ADITHYA GOUD** 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. B.NEELESH** 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.B.PREM KUMAR** 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.B.SAHITHI** 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.B.PRATIMALA** 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.

NEWS-LETTER

STUDENT ACHIEVEMENTS

- **MR.BADAVATH SURESH** 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.CSVVK POOJITHA** 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.CH.SRIDEVI** 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.
- 24.07.2023 to 19.08.2023.
- **MS.CHITKULA HARIKA** 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.

NEWS-LETTER

STUDENT ACHIEVEMENTS

- **MR. D. RAJA SAMMAIAH** 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.DEVERSHETTY RAJ KUMAR** 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. AKASH VARDHAN** 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.G VENKAT PRASAD** 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.

NEWS-LETTER

STUDENT ACHIEVEMENTS

- **MR. GUJJA CHANDRAKALADHAR** 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.GURRAM CHETHAN KUMAR** 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.JALIGAMA YOGESH** 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.KANDULA KESHAV RAM** 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.KARTHIK KANGULA** 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.KURALA YESHWANTH RAM** 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.LAKA HARSHITHA YADAV** 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.L.RAJESH** 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.

NEWS-LETTER

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.SAINDHI** 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.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 by Aeronautical Department and Center for Innovation and Entrepreneurship at MLR Institute of technology from 24.07.2023 to 19.08.2023.

NEWS-LETTER

FACULTY ACHIEVEMENTS

- **Mr.Nirmith Kumar Mishra,Assistant Professor** attended technical meet on Aerospace Luminary Lecture Series for “additive manufacturing for aerospace application”- opportunities and challenges conducted by the aeronautical society of India on 27.08.2023.
- **Dr. M.Satyanarayana Gupta Professor,HOD** participated in the online webinar on Chandrayaan:Unraveling Lunar Mysteries a journey Of Indian Success organized by aeronautics department of Kumaraguru college of technology on 11.08.2023.
- **Mr.Nirmith Kumar Mishra** 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.A Sai Kumar,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.

NEWS-LETTER

FACULTY ACHIEVEMENTS

- 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.Vivek Anand 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.

NEWS-LETTER

FACULTY ACHIEVEMENTS

- Mr. A Sai Kumar appreciated for his active role as Faculty 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 for his active role as Faculty Advisor in 8th SAEINDIA Southern Section Dr. Padamnabham Memorial 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 Advisor in 8th SAEINDIA Southern Section Drone development 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 competition held at Rajalakshmi engineering college,Chennai from 22.07.2023 to 23.07.2023 .

NEWS-LETTER

FACULTY ACHIEVEMENTS

- **Dr. M.Satyanarayana Gupta Professor,HOD** appreciated his contribution as resource person to **One-Week Workshop 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**.
- **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** at **MLR Institute of technology** from **18.07.2023** to **22.07.2023**.
- **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** at **MLR Institute of technology** from **18.07.2023** to **22.07.2023**.
- **Dr. A.Vivek Anand** was appreciated for his contribution as resource person to **One-Week Workshop 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**.

NEWS-LETTER

FACULTY ACHIEVEMENTS

- **Mr.Arun Kumar Samy,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** at **MLR Institute of technology** from **18.07.2023** to **22.07.2023**.
- **Mr.Nirmith Kumar Mishra,Assistant Professor** has published an article on **Computational Study On Rocket Payload Fairing in Material Today:Proceedings**.
- **Mr.Arun Kumar Samy,Assistant Professor** has published an article on **Cyber Security In Drone Technology** in **IGI Global Publishing Tomorrows research today**.
- **Mr.Arun Kumar Samy,Assistant Professor** has undergone **Innovation Ambassador training 'advance level'** conduct online mode by **Moe's Innovation cell & AICTE** on **july2023**.
- **Mr.Nirmith Kumar Mishra, Assistant Professor** has participated in **One-Week National Level Faculty Development Program On Cloud Infrastructure (AWS)** organized by **MLR institute Of Technology** with collaboration of **Brain vision Solutions India Pvt Ltd** and **AICTE** from **21.08.2023** to **25.08.2023**.

NEWS-LETTER

FACULTY ACHIEVEMENTS

- Mr.Arun Kumar Samy,Assistant Professor has completed a 3hr workshop on ChatGPT and AI Hacks with MS Office organized by Skill Nation on 09.09.2023.
- Mr.Arun Kumar Samy,Assistant Professor has participated in faculty development program on auto desk fusion360 design excellence by autodesk authorized academic partner on 25.08.2023.
- Mr.Arun Kumar Samy,Assistant Professor has completed a 3hr workshop on ChatGPT and AI Hacks with MS Office organized by Skill Nation on 23.09.2023.
- Ms.G.Sravanthi,Assistant Professor has participated in faculty development program on auto desk fusion360 design excellence by autodesk authorized academic partner on 25.08.2023.
- Ms.G.Sravanthi,Assistant Professor has completed the course LMS (Learning Management system)sponsored by vmedulife Software Pvt. Ltd.on Monday 14.08.2023 .
- Ms.G.Sravanthi,Assistant Professor for participating in innovation design workshop organized by aeronautical department by MLR institute Of Technology from 18.07.2023 to 22.07.2023.

NEWS-LETTER

FACULTY ACHIEVEMENTS

- **Mr.Srikanth Sura,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** at **MLR Institute of technology** from **18.07.2023 to 22.07.2023**.
- **Dr. A.Vivek Anand** has published a patent on **METHOD TO OPTIMIZE HEAT TRANSFER AND REDUCING ENERGY CONSUMPTION FOR COOLING IN RADIATOR** on **01.09.2023**.
- **Dr. M.Satyanarayana Gupta Professor,HOD** has published a patent on **PINEAPPLE LEAF FIBER AND E-GLASS FIBER REINFORCED HYBRID EPOXY MATRIX COMPOSITE MATERIAL** ON **01.09.2023**.

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PO'S

- **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.

- **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.