Department of Aeronautical & Aerospace Engineering

1. Paper publications in Journals by Faculty/Faculties of Dept

Name of the Faculty	Title of the Paper	Name of the journal/ Conference Proceedings	Volume, issue, page, Month and year)	National / International	Annexure (I/II)
Dr R Asad Ahmed	Journal Publication "Synthetic/natural fiber combining action on mechanical performance of polypropylene composite made via compression mould route", Journal of Polymer	Scientific Reports			Annexure 1
Dr K Vijayaraja	Journal Publication " Influence of the swirl vanes in convergent-divergen t nozzle on screech tones and mixing efficiency at subsonic and supersonic jet flow", Aircraft Engineering and Aerospace Technology	Scientific Reports			Annexure 1,
Dr.N.Rajamurugu	Parametric optimization of flow in a solar chimney power plant under variable semi elliptical constraints	Scientific Reports	**15**	International	Annexure 1
Dr.N.Rajamurugu	Applications of Extended Reality Technologies in Aviation Sector	Introduction to Extended Reality (XR) Technologies		International	Annexure 1
Dr.N.Rajamurugu	Extended Reality	Introduction to Extended Reality		International	Annexure 1

		(XR) Technologies			
Dr.Anumula Swarnalatha	Quantum Generative Adversarial Network for Autonomous Drone Navigation in Urban Wind Zones	IEEE		International	Annexure 1
Dr. A. Sureshkumar	PITOT DECAY, SHOCK CELL PATTERN, AND SPREADING BEHAVIOR OF NON-CIRCULAR SUPERSONIC JETS	Aircraft Engineering and Aerospace Technology		International	Annexure 1
Dr. A. Sureshkumar	Optimization of Cowl Shock Interaction in a RAMJET Engine			International	Annexure 1
Dr. S. Rajkumar	Equal Channel Angular Pressing of Composite Materials	Taylor and Francis		International	Annexure 1
Mr. Dhamodaran K	Experimental Investigation on the Effect of Ring Tab on Mixing Enhancement of Subsonic Jets	Journal of Applied Fluid Mechanics	18	International	Annexure 1
Dr. A. Sureshkumar	Experimental Investigation on Performance of an Arc Transverse Injection in a Supersonic Combustor Flow	Journal of Applied Fluid Mechanics		International	Annexure 1
Dr.N.Rajamurugu	Comparative Analysis of Predictive Modeling Techniques for Mechanical Properties in Dissimilar Friction Stir Welding of AA6061 and AZ31B	Journal of Materials Engineering and Performance		International	Annexure 1
Dr.N.Rajamurugu	Investigating the Lifting Characteristics of Bioinspired Wings Through Wind Tunnel Studies	High-performanc e Sustainable Materials and Structures		International	Annexure 1
Dr.N.Rajamurugu	Aerodynamic study on bio-inspired unmanned aerial vehicle wings	International Journal of Sustainable Aviaiton		International	Annexure 1

Dr.N.Rajamurugu	A Critical review on the performance and microstructural characteristics of materials fabricated through friction stir additive methods and deposition techniques	Journal of Materials Research and Technology		International International International	Annexure 1
Dr.N.Rajamurugu	Numerical and experimental study on the collector and chimney modifications of a solar chimney power plant	Journal of Thermal Engineering		International	Annexure 1
Usha Bharathi A	Dynamic Analysis of Laminated Composite with Inclusion	Journal of Environmental Nanotechnology		International	Annexure 1

2. Patent Received:

Title of the invention: "Enhancement of Aerodynamic Performance Of Wind Turbine Using Innovative Stepped Blade Design"

Application No. 557752
Publication Date: Jan 10th , 2025

Title of the invention: Aircraft Wing Design for improved Aerodynamic Efficiency
Application No. 421821-001
Publication Date: 03rd March 2025