



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institution, Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
Accredited by NBA (AERO, AUTO, CIVIL, CSE, ECE, EEE, IT, MECH, MCTS)
Accredited by NAAC 'A++' Grade with CGPA of 3.69 out of 4 in Cycle 2
Valley Campus, Coimbatore – 641 032, Tamil Nadu, INDIA



DEPARTMENT OF AERONAUTICAL ENGINEERING

Faculty Publications

Sl. No.	Title of the paper	Name of the author/s	Name of the journal	Year of publication	ISSN number
1.	Computational Study of Vertical axis Wind turbine blades for Wind tulips	Saravanan R Gopinathan V T Arjun Dhillip S B Gowtham S Henry J	International Journal of Research and analytical Reviews (IJRAR)	2023	2349-5138
2.	Computational Study of Heat Transfer in Ballistic entry of Space Vehicles with Pimples on its Nose	Kathirvel K Arun Raja K K Manoj Kumar K Deepak Kumar M Diksha Sambyal	International Journal of Research and analytical Reviews (IJRAR)	2023	2349-5138
3.	Aerodynamic performance characterization of bio-inspired wings with leading edge tubercles at low Reynolds number	Gopinathan V T Bruce Ralphin Rose J	Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering	2022	0954-4100
4.	Elimination of Foreign Object Damage Bird Hit Using Ultra-Sonic Sensors	Arulmozhinathan T Sivaraman S Bhavani Sai Sujith Dhanush S A Nuvvula Yeshaswi Narayana Aswin S	International Advanced Research Journal in Science, Engineering and Technology	2022	2393-8021
5.	Aerodynamic performance investigation of sweptback wings with bio-inspired leading-edge tubercles	Gopinathan V T Bruce Ralphin Rose J	International Journal of Modern Physics C	2021	0129-1831
6.	Aerodynamics with state-of-the-art bioinspired technology: Tubercles of humpback whale	Gopinathan V T Bruce Ralphin Rose J	Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering	2021	0954-4100
7.	Biomimetic flow control techniques for aerospace applications: a comprehensive review	Bruce Ralphin Rose J Ganesh Natarajan S Gopinathan V T	Reviews in Environmental Science and Biotechnology	2021	1569-1705
8.	Performance Improvement of Subsonic aircraft wing by Dimple effect	Sivaraman S Ganesh M Saravanan R Saravanakumar V	International Research Journal on Advanced Science Hub	2021	2582-4376

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9.	Progression in Fire Retardant Properties of Polymer Composites-A Review	Nithiyapathi C Thirunavukkarasu K Daniel Das A Tamilvendan D	IOP Conference Series: Materials Science and Engineering	2021	1757-8981
10.	Mechanical Performance of Jute & Sisal reinforced epoxy Composites	Tamilvendan D Praveenkumar N Sabarish C Sudharsan S Kolliprakash	International Journal of Advances in Engineering and Management (IJAEM)	2021	2395-5252
11.	Computational study of fish scale array	Saravanan R Gowtham S Arjun Dhilip S B Harish P Henry J	International Advanced Research Journal in Science, Engineering and Technology	2021	2393-8021
12.	Effect Of Moisture Absorption On Mechanical Properties Of Jute-Sisal Reinforced Epoxy Composite - An Experimental Investigation	Tamilvendan D Banupriya N Anagha Udhayakumar K Guruprashant M Srisharadevi K	International Advanced Research Journal in Science, Engineering and Technology	2021	2393-8021
13.	CFD Analysis of Aircraft Winglet	Saravana Kumar V Imran Naseer Joshey Heaven Yasar Arafat Joemom T Manoj	International Journal of Advances in Engineering and Management (IJAEM)	2021	2395-5252
14.	Aerodynamic analysis of wing with winglet using CFD	Ganesh M Lavanya R Mahalakshmi A Chandraleka G K Sasiharan P	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering	2021	2321-2004
15.	Post – Buckling Behavior Of Stiffened Curved Panel Using Arc Length Method	Ganesh M Karthick V Krishna Kumar M S Naga Pandiyan R Yuvaraj R	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering	2021	2321-2004
16.	Hand Gestures Controller for Drone	Prakaas M Pavithra N Sunil Saravanan J Suriya K Veeramanikandan R	International Journal of Advances in Engineering and Management (IJAEM)	2021	2395-5252
17.	Design and Fabrication of Anti-Drone System with Interdiction Method	Veeramanikandan R Faisal Hussain Mughloo Katariya Sagar Bhikubhai Devika Jayaraj Nuvvula Yeshashwi Narayana	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering	2021	2321-2004

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18.	Fabrication and Characterization of Hybrid Aluminium Matrix Composites	Sivaraman S Harish R Hasta Vikram Santhosh Selvarasu	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering	2021	2321-2004
19.	An Overview of Bladeless Drone	Sivaraman S Saravana Kumar V Rajalakshmi S Santhini M Sittheshwaran S	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering	2021	2321-2004
20.	Fabrication of hybrid composites on rice husk ash reinforced with Al alloy Composite	Sivaraman S Kalaikovan M Muthumari M Mohamed Javeeth A Aslam M	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering	2021	2321-2004
21.	Fatigue analysis of torque link in landing gear	Vishnu Srinivasan S Vishnu K Shoman Raj Naveen V P Arun Raja K K	International Journal of Advances in Engineering and Management	2021	2395-5252
22.	Structural & Thermal Analysis of Gas Turbine Blade Cooling For Zig-Zag Arrangement	Arun Raja K K Raja Sekaran B Prithiviraj P Rajkumar K Sahim Nishban S	International Journal of Advances in Engineering and Management	2021	2395-5252
23.	Design and Analysis of Scramjet Engine Inlet at Various Conditions	Arun Raja K K Sangaralingam N Thawood Afif A A Venkatesh K Karthick M	International Journal of Advances in Engineering and Management	2021	2395-5252
24.	Aerodynamics of hovering Hummingbird	Shahanas P N Yoga Prakash M Suvitha S Aswin R S Manoj Kumar K	International journal of Recent Advances in Multidisciplinary topics	2021	2582-7839
25.	Experimental analysis of aluminium reinforced boron nitride composites	Manoj Kumar K Sundareswaran E Abishek T Subash Chandra Boss M Sri Balaji S	International Journal of Advances in Engineering and Management	2021	2395-5252
26.	Numerical Simulation of Secondary injection in C-D Nozzle in thrust	Kuppuraj A Nagamanikam N Praveen T Yuvaraj G	International Advanced Research Journal in Science, Engineering and Technology	2021	2393-8021
27.	Aerodynamic performance analysis of low speed wind turbine Aerofoils with inverted dimples	Karthikeyanagamanikam V Arulmozhinathan T Ashok Kumar B Deepak S	International Journal Of Engineering Sciences & Research Technology	2020	2277-9655

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28.	Developing a smart fuel using artificial neural network for CI engine fueled with Calophyllum inophyllum diesel blend at various compression ratio	Paramaguru Venugopal Ramesh Kasimani, Suresh Chinnasamy	Environmental Progress and Sustainable Energy	2020	1944-7442
29.	Investigation on the effect of leading edge tubercles of sweptback wing at low reynolds number	Gopinathan V T Bruce Ralphin Rose J Mohanram Surya	Journal of mechanics and industry	2020	2257-7750
30.	Mechanical behaviour of hybrid composites prepared using Sisal–pineapple-kenaf Fibre	Tamilvendan D Mari Prabhu G Sivaraman S Ravikumar A R	International Journal of Recent Technology and Engineering	2020	2277-3878
31.	Modelling and Analysis of mini-Gas Turbine Nozzle for Different Thrust Conditions	Mari Prabhu G Tamilvendan D Sivaraman S	Studies in Indian place Names, UGC Care Journal	2020	2394-3114
32.	Numerical Analysis of Dimple Effect on Airfoils for varied AoA	Saravanan R Sharu Sri K Sundareswaran E Vyshnavi Krishnamoorthy Sri Balaji S	International Research Journal on Advanced Science Hub	2020	2582-4376
33.	Numerical investigation of composite stiffened panel with various stiffeners under axial compression	Sundararaj K Ganesh M	AIP Conference Proceedings	2020	0094-243X
34.	Numerical Simulation on Commercial Aircraft Wing to enhance Aerodynamics efficiency	Suresh C Ramesh K Gowdham Kumar R Kutraleeswaran J	Tierärztliche Praxis	2019	0303-6286
35.	A review on thermal energy storage systems in solar air heaters	Sivarathinamoorthy Haldorai, Sureshkannan Gurusamy, Maruthaiyan Pradhapraj	International Journal of Energy Research	2019	0363-907X
36.	Influence of Stacking sequence and thickness on the free vibrational behaviour of Carbon/epoxy laminates	Madhan Kumar, Hareen Kumar, Lokeshwaran, Aravindasan, Arun Kumar	Materials Today: Proceedings	2018	2214-7853
37.	Prediction and optimization of CI engine performance fuelled with Calophyllum inophyllum diesel blend using response surface methodology (RSM)	Paramaguru Venugopal Ramesh Kasimani & Suresh Chinnasamy	Environmental Science and Pollution Research	2018	9441-1344
38.	Thermo mechanical behavior of Glass-Kevlar/epoxy hybrid laminates - An Experimental and Theoretical approach	Madhan Kumar A, Velmurugan T, Pradhapraj M, Aarthi S	Materials Today: Proceedings	2018	2214-7853