



DEPARTMENT OF AEROSPACE ENGINEERING

FUNDED PROJECTS

S.No	Title of the Project	Amount Sanctioned (Rs)	Funded by	PI/Co-PI	Year of Sanction/Duration	Status
1.	Prediction of Aerodynamic Characteristics of Grid Fins at Subsonic, Transonic and Supersonic Flows	19,28,400/-	AR&DB, New-Delhi	Dr. P. Theerthamalai and Dr. R. Mukesh	2023/2 Years	On- Going
2.	Aerodynamic Prediction code for canard-controlled missile	14,81,726/-	DRDL, Hyderabad	Dr. P. Theerthamalai and Dr. R. Mukesh	2022/1.8 Years	On- Going
3.	AI and ML based forecasting model for prediction of Ionospheric TEC and EQ using GNSS Data	7,25,000/-	VTU, TEQIP Research Grant	Dr. R. Mukesh, Prof. P. Soma and Dr. P. Theerthamalai	2022/ Two Years	On- Going
4.	Conceptual Aerodynamic Design of Expendable Attack UAV	9,58,990/-	ADE (DRDO), Bangalore	Dr. P. Theerthamalai and Dr. R. Mukesh	2021/One Year	Completed
5.	Design and Optimization of Air Intake for 155mm Ramjet Projectile	9,63,470/-	ARDE (DRDO), Pune.	Dr. P. Theerthamalai and Dr. R. Mukesh	2021/10 Months	Completed



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6.	Estimation of Aerodynamic parameters from Telemeter Flight Data of UAV	9,67,493/-	ADE (DRDO), Bangalore	Dr. A.K. Sarkar and Dr. R. Mukesh	2021/One Year	Completed
7.	Estimation of Aerodynamic Parameters from Telemeter Flight Data of Flight Vehicle in Matlab Environment	9,64,390/-	ASL (DRDO), Hyderabad	Dr. A.K. Sarkar and Dr. R. Mukesh	2021/One Year	Completed
8.	Computational Identification, Validation and Prediction of COVID 19 using Artificial Intelligence (AI) and Machine Learning (ML)	95,000/-	VTU (TEQIP), Belagavi.	Dr. R. Mukesh	2020/ Six Months	Completed
9.	Surrogate Model for Ionospheric studies using NavIC/GPS data	11,12,000/-	SAC (ISRO), Ahmedabad.	Dr. R. Mukesh and Prof. P. Soma	2017/Two Years	Completed



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Grants received from Non-Governmental agencies for research projects during the last five years (INR)

S. No	Name of the Project	Name of the PI and Co-PI	Year of Award	Amount Sanctioned in Rs.	Duration of the Project	Name of the Funding Agency	Status
1.	Academic sponsored Projects	Dr. R. Mukesh	2020	30,000/-	1 Year	Management	Completed
2.	Academic sponsored Projects	Dr. R. Mukesh and Prof. P. Soma	2019	10,50,000/-	2 Years	Management	Completed

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Consultancy

S. No	Name of the Project	Name of the PI and Co-PI	Year	Amount Sanctioned in Rs.	Duration of the Project	Name of the Funding Agency	Status
1.	Consultancy Projects	Dr. R. Mukesh	2021-2022	11,800/-	6 Months	Raydynamics, Coimbatore.	Completed
2.	Consultancy Projects	Dr. R. Mukesh and Mr. Sivaramraj	2022-2023	76,700/-	6 Months	SJCIT, Chickballapur	Completed



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List of Patents Published by the Faculty Members

S.No	Name of the Faculty	Title of the Invention / Innovative Concept / Product / Project	Year of Award	Details of Patent Published in the Patent Office Journal
1.	Dr. R. Mukesh	Ground Water Location Mapping Technique from Multivariable GIS Data Using Data Mining Methods.	September 2020	Application No. 202041035289 A Issue No: 36/2020
2.	Dr. R. Mukesh	Method and composition for reducing emissions from a compression ignition engine and enhancing performance.	July 2020	Application No. 202041025613 A Issue No:27/2020
3.	Dr. Suresh C	Study of Solar Thermal Power Interaction systems to increase the efficiency of utilization of renewable energy resources in housing systems	2022	Application No. 202211035079 /2022
4.	Dr. Suresh C	Application of robotic technology to segregation and disposal of the bio medical waste	2022	Application No. 202241008221/2022.