



Vidyavardhini's College of Engineering & Technology

K.T.Marg, Vasai West; Dist-Palghar; Pin-401202

Autonomous Institute, Affiliated to AICTE and University of Mumbai

NBA and NAAC Accredited

DEPARTMENT OF MECHANICAL ENGINEERING

FUNDED RESEARCH

A.Y. 2024-25

Sr No	Name of the research project/ endowment	Name of the Principal Investigator/Co-investigator	Amount Sanctioned, Rs.	Duration of the project	Name of the Funding Agency	Type (Government/non-Government)
1	Optimization of Solar Water Heater	Mr. Swapnil R.Mane	65175	2 Years	Enesave Tech Solutions OPC Pvt. Ltd.	Non-Government
2	Design and Development of Flower Recycling Machine	Mr.Dipak J. Chaudhari	29400	1 Year	Sushirmala Foundation , Mumbai	Non-Government
3	Vibration Analysis of Handle Bar	Mr.Dipak Chaudhari and Dr.Ashish J. Chaudhari	50000	1 year	M/s.Electromag Devices Pvt.Ltd ,Mumbai	Non-Government
4	FEA analysis of Torsen Differential for FSAE car	Mr.Dipak Chaudhari and Dr.Ashish J. Chaudhari	11501	1 year	Mrs.Vijaya Anant Patil	Non-Government
5	Experimentation of Vibration parameters of a motor cycle	Mr.Kamlesh Bachkar and Mr.Vinay D.Patel	20000	1 year	New India Assurance Company	Non-Government
Total			176076			

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1	Development and Testing of Solar Air Collector based Dryer	Dr.Javed Shaikh	33700	1 year	Vidyavardhini's College of Engineering and Technology	Non-Government
2	Design and manufacturing of customised BLDC Motor Controller	Mr.Dipak Chaudhari, VCET Solection Club Convenor	35000	1 year	M/s.Electromag Devices Pvt.Ltd ,Mumbai	Non-Government
3	Vibration analysis and control of motorcycle handle bar	Mr. Kamlesh Bachkar,Team Ethan Convenor and Mr.Sanjay Lohar, Project Guide	15000	1 year	KIMO Industries	Non-Government
4	Design, analysis and fabrication of commercial E bike	Mr.Rishabh Melwanki,Tem E-Mechto Convenor and Mr.Gaurav Bhawde,Project Guide	15000	1 year	Mr.Manjeet Singh	Non-Government
5	Design and development of modified girder suspension system to improve the stability of motorcycle.	Mr.Rishabh Melwanki,Team E-Mechto Convenor and Dr.Uday Aswalekar, Project Guide	11500	1 year	Mr.Hemendra Ratilal Sheth	Non-Government
6	Optimization of Vehicle Dynamics Subsystem of F1 car using ML	Mr. Kamlesh Bachkar,Team Ethan Convenor and Mr. Rishabh Mewanki Project Guide	11000	1 year	M/s. A.V.Crystal Housing LLP	Non-Government



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7	Design, Manufacturing and Optimization of FSAE brake System	Mr. Kamlesh Bachkar, Team Ethan Convenor and Mr. Vishwas Palve Project Guide	50000	1 Year	Nevatia Steel and Alloys Pvt.Ltd., Boisar	Non-Government
8	Design, Analysis Optimization of Battery Pack of FSAE Electric Vehicle	Mr. Kamlesh Bachkar, Team Ethan Convenor and Dr. Ashish Chaudhari Project Guide	43500	1 Year	Mr. Paresh Chouhan	Non-Government
9	Battery Thermal Management System	Mr. Kamlesh Bachkar, Team Ethan Convenor and Dr. Uday Aswalekar, Mini Project Guide	5000	1 Year	Industrial Engineering Corporation	Non-Government
Total, Rs.			219700			