



# Vidyavardhini's College of Engineering & Technology

Founder President Late Padmashri H. G. Vartak

Approved by AICTE, DTE Maharashtra and Affiliated to University of Mumbai  
NAAC accredited, 4 Programmes Accredited by NBA

## Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Name of the research project/ endowment	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/non-Government)
Design, Analysis and Manufacturing of wheel assembly for solar electric vehical	Mr.Dipak Chaudhari, VCET Solection Club Convenor	Mechanical Engineering	2022-23	0.25	1 year	Electromag Devices Pvt. Ltd.	Non-Government
Design and manufacturing of Electric Powertrain for a Formula student race car	Mr.Sanjay Lohar, Team Ethan Convenor	Mechanical Engineering	2022-23	0.51	1 year	Unique Poonam Homes LPP	Non-Government
Design of two stage gear box forquad bike	Mr.Sanjay Lohar, Team Centurion Convenor	Mechanical Engineering	2022-23	0.1	1 year	Leoli Sr India LPP	Non-Government
Design,Analysis and Optimization of suspension system for team Centurian-Quad Bike	Mr.Sanjay Lohar, Team Centurion Convenor	Mechanical Engineering	2022-23	0.05	1 year	SSB Metal Works	Non-Government
Optimized and fault tolerant control system for aerated pond for shrimps	Mrs. Anagha Patil, Mr. Chandan Kolvankar, Mr. Sainath Patil	Information Technology	2021-22	3.1	1 year and 8 months	University of Mumbai under the scheme "Assistance for S & T applications" of Rajiv Gandhi Science and Technology	Government



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						Commision, Government of Maharashtra	
Variable compression Ratio accompany with variable ignition location for diesel and petrol engine accomodating different RON fuels in engine	Dr.Uday Aswalekar, Dr.Ashish Chaudhari	Mechanical Engineering	2021-22	12.735	2 years	AICTE-MODROB	Government
To built Solar electric Vehicle motor and power transmission mechanism	Mr.Dipak Chaudhari, VCET Solecthon Club Convenor	Mechanical Engineering	2021-22	1.01	1 year	Adam Fabriwork Pvt. Ltd.	Non-Government
Design and fabrication of electric vehicle Chasis	Mr.Dipak Chaudhari, VCET Solecthon Club Convenor	Mechanical Engineering	2021-22	0.1	1 year	Gajdeep Enterprises	Non-Government
Thermal performance of an evacuated tube heat pipe improved in solar water heating system in all season.	Mr. Vinay Patel	Mechanical Engineering	2019-20	0.32	1 year	University of Mumbai	Government
Design and experimentation of semi open type refrigerated display cabinet	Dr. Uday Aswalekar	Mechanical Engineering	2019-20	0.2	1 year	University of Mumbai	Government



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Smart solar tracker with IOT based energy monitoring system	Mrs. Shaista Khan	Electronics and Telecommunication Engineering	2019-20	0.3	1 year	University of Mumbai	Government
Sensor analytics-based climate resilient agriculture platform	Mrs. Mugdha Salvi	Instrumentation Engineering	2019-20	0.33	1 year	University of Mumbai	Government
Earthquake detector	Mrs. Sangita Chaudhari	Computer Engineering	2019-20	0.15	1 year	University of Mumbai	Government
Automated lawn mower using Internet of Things	Dr. Madhavi Waghmare	Information Technology	2019-20	0.1	1 year	University of Mumbai	Government
Early detection and monitoring of stress among students and professionals	Mr.Sainath Patil	Information Technology	2019-20	0.3	1 year	University of Mumbai	Government
Design and optimization of suspension and steering of FSAE race car.	Mr.Sanjay Lohar, Team Ethan Convenor	Mechanical Engineering	2019-20	0.05	1 year	Shubha Gadgil	Non-Government
Design and Manufacturing of an Aerodynamic Package for Formula Student Car	Mr.Sanjay Lohar, Team Ethan Convenor	Mechanical Engineering	2019-20	0.15	1 year	Bassein Catholic Cooperative Bank	Non-Government
Optimization of Power and Torque with reduction in noise of Exhaust system	Mr.Sanjay Lohar, Team Ethan Convenor	Mechanical Engineering	2019-20	0.1	1 year	Aswathi Industries Ltd. Receipt No 4427	Non-Government



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of FSAE vehicle using Ricardo Wave Build							
Optimization of Power and Torque with reduction in noise of Exhaust system of FSAE vehicle using Ricardo Wave Build	Mr.Sanjay Lohar, Team Ethan Convenor	Mechanical Engineerring	2019-20	0.1	1 year	Aswathi Industries Ltd.Receipt No 4428	Non-Governmen t
Design, Development and Analysis of Novel Variable Compression Ratio Accompanied with Variable Spark Plug Location Mechanism for Compressed Biogas Engine	Dr. Ashish Chaudhari	Mechanical Engineerring	2018-19	0.5	1 year	University of Mumbai	Governmen t
Ethenol powered plug-in hybrid electric vehicle	Ms. Madhumita Dutta	Mechanical Engineerring	2018-19	0.19	1 year	DST and Texas Instruments	Governmen t
High precision medical surgery using hexapod	Ms. Madhumita Dutta	Mechanical Engineerring	2018-19	0.14	1 year	DST and Texas Instruments	Governmen t
Design, fabrication and testing of braking system and wheel hub of FSAE Vehicle	Mr.Sanjay Lohar, Team Ethan Convenor	Mechanical Engineerring	2018-19	0.8	1 year	RAW Engineering	Non-Governmen t



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Name of the Project/ Endowments , Chairs	Name of the Principal Investigator	Department of Principal Investigator	Year of Award	Funds provided, lacs	Duration of the project	Name of funding agency	Type (Government/non-government)
Ethan Car	Prof. S.R.Lohar	Mechanical	2017-18	0.6	March 2017-Jan-2018	M/s. Raw Engineering India Pvt. Ltd.	Non-Government
Design and development of waste segration plant	Prof. M.Dutta	Mechanical	2016-17	0.3	July2017-May 2018	University of Mumbai	Government
Mobile robot for detecting and recuperating low power nodes in Wireless Sensor Network.	Prof. Shaista Khan	Electronics and Tele-communication	2016-17	0.25	July2017-May 2018	University of Mumbai	Government
Measurement of dielectric constant of water for High Power Microwave Absorber	Prof. Neha Gharat	Electronics and Tele-communication	2016-17	0.3	July2017-May 2018	University of Mumbai	Government
Ethan Car	Prof. S.R.Lohar	Mechanical	2015-16	1.65	March 2017-Jan-2018	Vidyavardhini's Trust	Non-Government



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Design and Development of WR-284 based 500 kW CW High Power Circulator at 3.7 GHz	Dr. Vikas Gupta	Electronics and Tele-communication	2015-16	23.57	July 2015-May 2016	BRFST Gandhinagar	Government
A Novel VLSI Design of DCTQ Processor for Image Compression	Dr. Vikas Gupta	Electronics and Tele-communication	2014-15	0.4	July 2015-May 2016	University of Mumbai	Government
An energy efficient distributed detection and fusion scheme in WSN	Prof. Sunayana Jadhav	Electronics and Tele-communication	2014-15	0.35	July 2014-May 2015	University of Mumbai	Government
Experimental rig to study implementation of different Control strategies for Real time Process Plant using NI LabVIEW	Prof. Prafulla Patil	Instrumentation Engg.	2013-14	0.45	July 2013-May 2014	University of Mumbai	Government