



Vidyavardhini's College of Engineering & Technology

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

Affiliated to AICTE and University of Mumbai

FUNDED RESEARCH

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)
2021-22							
Variable compression ratio accompany with variable ignition location for diesel and petrol engine accommodating different RON fuels in engine.	Dr.U.V. Aswalekar and Dr. Ashish J. Chaudhari	Mechanical	2021	14.06	2	AICTE-MODROB	Government
2019-20							
Thermal performance of an evacuated tube heat pipe improved in solar water heating system in all season.	Prof. Vinay D. Patel	Mechanical	2019-20	0.32	July 2019- June 2021	University of Mumbai	Government
Design and experimentation of semi open type refrigerated display cabinet	Dr. U.V.Aswalekar	Mechanical	2019-20	0.2	July 2019- June 2021	University of Mumbai	Government
Smart solar tracker with IOT based energy monitoring system	Prof. Shaista Khan	EXTC	2019-20	0.3	July 2019- June 2021	University of Mumbai	Government
Sensor analytics-based climate resilient agriculture platform	Prof. Mugdha Salvi	INST	2019-20	0.33	July 2019- June 2021	University of Mumbai	Government



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Automation in dairy industry	Prof. Trupti Mane Furia	INST	2019-20	0.6	July 2019- June 2021	University of Mumbai	Government
Earthquake detector	Prof. Sangita K. Chaudhari	COMP	2019-20	0.15	July 2019- June 2021	University of Mumbai	Government
Automated lawn mower using Internet of Things	Dr. Madhavi Waghmare	INFT	2019-20	0.1	July 2019- June 2021	University of Mumbai	Government
Early detection and monitoring of stress among students and professionals	Prof. Sainath Patil	INFT	2019-20	0.3	July 2019- June 2021	University of Mumbai	Government
2018-19							
Design, Development and Analysis of Novel Variable Compression Ratio Accompanied with Variable Spark Plug Location Mechanism for Compressed Biogas Engine	Dr. Ashish J. Chaudhari	Mechanical	2018-19	0.5	July 18- May 2019	University of Mumbai	Government



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Ethenol powered plug-in hybrid electric vehicle	Madhumita Dutta	Mechanical	2018-19	0.19	July18-May 2019	DST and Texas Instruments	Government
High precision medical surgery using hexapod	Madhumita Dutta	Mechanical	2018-19	0.14	July18-May 2019	DST and Texas Instruments	Government
2017-18							
Ethan Car	Prof. S.R.Lohar	Mechanical	2017-18	0.6	March 2017-Jan-2018	M/s. Raw Engineering India Pvt. Ltd.	Non-Government
2016-17							
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 Telecommunication	2016-17	0.25	July2017-May 2018	University of Mumbai	Government



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Measurement of dielectric constant of water for High Power Microwave Absorber	Prof. Neha Gharat	Electronics and Telecommunication	2016-17	0.3	July 2017-May 2018	University of Mumbai	Government
2015-16							
Ethan Car	Prof. S.R.Lohar	Mechanical	2015-16	1.65	March 2017-Jan-2018	Vidyavardhini's Trust	Non-Government
Design and Development of WR-284 based 500 kW CW High Power Circulator at 3.7 GHz	Dr. Vikas Gupta	Electronics and Telecommunication	2015-16	23.57	July 2015-May 2016	BRFST Gandhinagar	Government
2014-15							
A Novel VLSI Design of DCTQ Processor for Image Compression	Dr. Vikas Gupta	Electronics and Telecommunication	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 Telecommunication	2014-15	0.35	July 2014-May 2015	University of Mumbai	Government



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2013-14							
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

PROJECTS APPLIED UNDER AQIS SCHEME

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator	Department of Principal Investigator	Year of Award	Funds provided, lacs	Name of funding agency	Type (Government/non-government)
2020-21						
Team Ethan Racing	Prof. Sanjay Lohar	Mechanical	Applied under Scheme SSPICES	1.0	AICTE	Government
Variable Compression Ratio Accompany with Variable Ignition Location for Diesel and Petrol Engine Accommodating Different RON Fuels in Engine.	Dr. Uday V. Aswalekar and Dr. Ashish J. Chaudhari	Mechanical	Applied under Scheme MODROB	14.06	AICTE	Government



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Learning Concept for Design and Analysis of Embedded-Digital and RF Signal/Wireless Signal, EMI/EMC Testing and Decoding	Dr. Vikas Gupta and Dr.Amrita Ruperee	Electronics and Telecommuni cation	Applied under Scheme MODROB	15.93	AICTE	Government
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