

Rangarajan Dr. Sagunthala R&D Institute of Science and Technology (Deemed to be University Estd. u/s 3 of UGC Act, 1956)





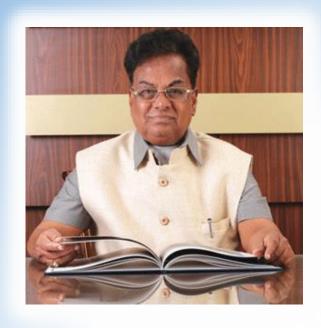
Annual Report 2021-22

School of Mechanical and Construction

Department of Automobile Engineering

FOUNDERS

Vel Tech Group of Institutions



Col. Prof. Vel. Dr. R. Rangarajan

Founder & Chairman B.E.(Elec.), B.E.(Mech.), M.S.(Auto.), D.Sc.



Dr. Mrs. Sagunthala Rangarajan
Foundress & Vice Chairman

M.B.B.S.

Foreward



The success of Vel Tech can be attributed to the intuition's unwavering dedication to the highest standards of professionalism, creativity, and innovation. Our analysis suggests that Vel Tech is truly committed to improving the academic and scientific communities.

We expect that the events, achievements, and recognitions of the Department will be documented in this annual report. The Department has made significant contributions through publications and participation in learning programs.

We're glad to see that the Department of Automobile Engineering is committed to helping students find work by offering workshops on how to succeed in their placements. Students graduating this year have our heartfelt congratulations, and we hope they will consider making a lasting contribution to their communities and the world. Congratulations to everyone in the Automobile Engineering Department who has contributed to the University's overall and departmental successes.

Col.Prof.Dr.Vel.R.Rangarajan B.E. (Elec), B.E. (Mech), M.S. (Auto), D.Sc., Founder President

Dr. Sagunthala Rangarajan M.B.B.S., Foundress President Vel Tech Group of Institutions

Foreward



I would want to take this opportunity to thank the Department of Automobile Engineering for all of the hard work that they put in to putting together the Annual Report for the years 2021-2022. It is with great pleasure that to convey my wishes to the students and faculty of the Department of Automobile Engineering for all of their hard work and dedication over the years.

The primary objective of this institutions is to help students realize their full potential by providing them with the proper guidance and support as they grow into competent engineers ready to take on any challenge.

After four years at Vel Tech, students will emerge with an engineering degree and a newfound confidence and self-assurance that will set them on the path to a successful career and a fulfilling life. Academic achievements by both teachers and students, as well as departmental innovations, have contributed to Vel Tech's achievement of this landmark.

Mrs. R. Mahalakshmi Chairperson & Managing Trustee

Foreward

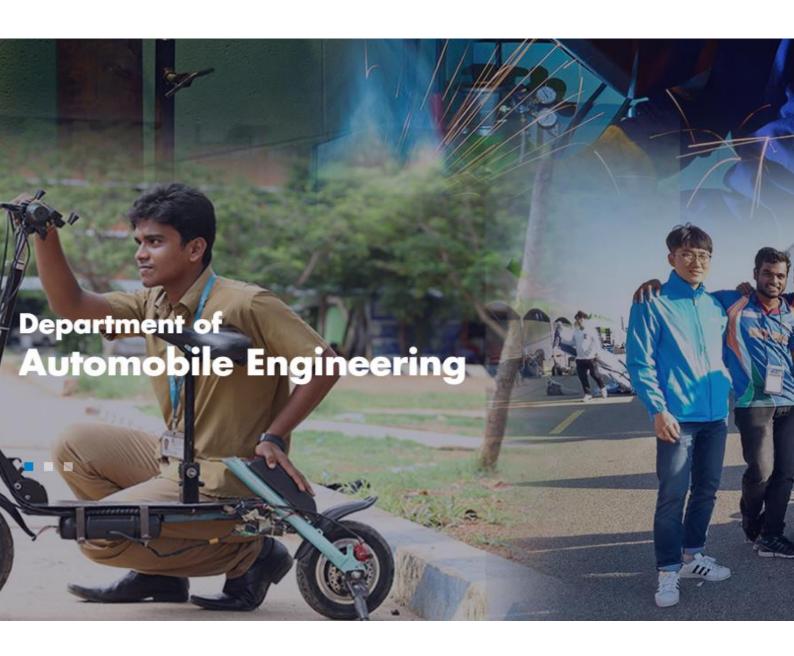


The Automobile Engineering Department has a long history of academic success and a friendly environment for students' overall personality development. In our technologically sophisticated era, annual reports have grown in importance and relevance. It will provide academics and students a platform to interact and share unique thoughts and innovative ideas. Both their overall development and personal growth will benefit from it.

It gives me tremendous joy to greet you at the Annual Report of the Department of Automobile Engineering. This Annual Report 2021 - 2022 provides a detailed description of the academic, research, co-curricular, and other activities of the department that constitute significant achievements throughout the course of a single academic year.

At this time, I am certain that the department is headed in the right direction. I wish to thank the faculty and staff for their unceasing efforts and steadfast dedication to making the department the go-to place for future engineers throughout the globe.

Prof.Dr.S.Salivahanan Vice Chancellor



Profile Faculty Students

Infrastructure

International & Industry Research

VISION

To be a centre of excellence in the field of automobile engineering by imparting knowledge and skill, enhancing research and development activities with social, ethical and environmental responsibilities to meet domestic and global challenges.





MISSION

- To produce effective and responsible automobile engineering graduates with respect to global requirements by imparting quality education.
- To constantly improve the pedagogical methods to deliver the academic programs with industryoriented knowledge.
- ➤ To focus on learning through the state-of-the-art laboratories that possess a standard set-up to carry out research-based education.
- > To motivate students to pursue higher education and successfully take-up competitive examinations to reach a better position in their professional career.



FACULTY - DESIGN DOMAIN



Dr. M. Amala Justus Selvam B.E. (Mech), M.E. (Thermal), Ph.D. (Mech) Professor & Head

Experience: Academics - 24 Years
40 national and international journals
publication and 5 patent application.
Reviewer for SCI and Scopus indexed
international journals.
Granted one International funded
projects.



Mr. N. Murugu Nachippan B.E. (Auto)., M.E. (Production) Assistant Professor Experience: Academics – 7 Years

14 Scopus indexed journals publication 6 International conference presentations.



Mr. B. Gowthama Rajan B.E. (Auto), M.E. (Engineering Design) Assistant Professor

Experience: Academics – 7 Years 8 Scopus indexed journals publication 4 International conference presentations Familiar on modeling and analysis using CATIA V5



Mr.S.Arisudhan B.E. (Mech), M.E. (IC Engine) Assistant Professor

FACULTY - IC ENGINE DOMAIN



Dr. S. Jaichandar B.TECH(Auto)., M.E.(Auto), Ph.D. (ICE) Professor

Experience: Academics - 25 Years 39 international journals publication. Reviewer for SCI and Scopus indexed international journals. Syllabus Committee Member of Anna University, Chennai.



Dr. M.Parthasarathy
B.E. (Mech), M.E.(Auto), Ph.D. (Auto)
Assistant Professor

Experience: Academics - 7 Years

Research-2 Years

37 International journals publication. DC member for Research Scholar of Anna University



Mr. M. Rajesh Kumar B.E. (Mech), M.E. (Auto) Assistant Professor

Experience: Academics - 8 Years 7 Scopus indexed journals publication Lab In charge: Centre of Excellence "WABCO"



Mr. S. Govindan B.E. (Mech), M.E. (Auto) Assistant Professor

Experience: Academics – 3 Years Industry – 1 years

6 Scopus indexed journals publication

FACULTY – ELECTRIC VEHICLE DOMAIN



Dr. S. Padmanabhan
M.E., M.B.A., Ph.D.,
Associate Professor
Experience: Academics -18 Years,
Industry - 2 years; Research - 4 years
68 international journals publication.
Two Design Patents.
Active Reviewer in Elsevier, Taylor and Francis





Mr. A. Backiyaraj B.E. (Mechatronics), M.E. (Auto) Assistant Professor Experience: Academics – 6 Years 5 Scopus indexed journals publication



Mr. Vikas Kumar
B.Tech. (Mech), M.Tech. (IC Engines)
Assistant Professor
Experience: Academics – 4 Years
4 Scopus indexed journals publication, 1 patent application
Technical Investigator for Motorsports Events.

FACULTY – VEHICLE TECHNOLOGY DOMAIN



Dr. V. Harish M.E., Ph.D.,

Assistant Professor

Experience: Academics - 2 Years

Research - 5 years

50 international journals publication.

Book Published on Tamarind seed biodiesel: Sustainable green fuel, **Lambert Academic Publishing**



Mr. D.Samuel Raj **B.E.** (Production) M.E. (Auto) **Assistant Professor & Lab HoD** Experience: Academics - 10 Years Industry – 3 years 10 International journals publication **Faculty advisor for Electric Bike competition**



Mr. A.P.Venkatesh B.E. (Mech), M.E. (Auto) **Assistant Professor**

Experience: Academics – 4 Years 9 Scopus indexed journals publication

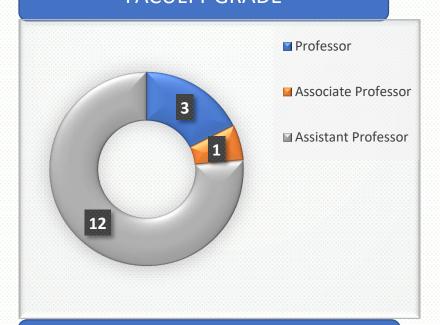


Mr. T. Ravichandran B.E. (Auto), M.E. (Auto) **Assistant Professor**

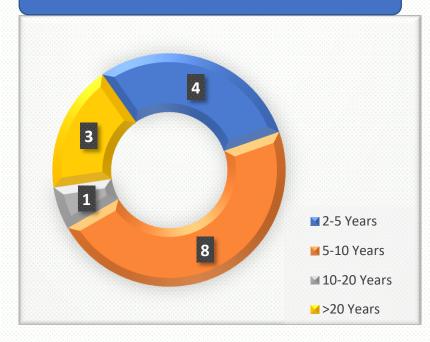
Experience: Academics – 4 Years 6 Scopus indexed journals publication

Ph.D Ph.D Pursuing M.E./M.Tech

FACULTY GRADE



FACULTY EXPERIENCE

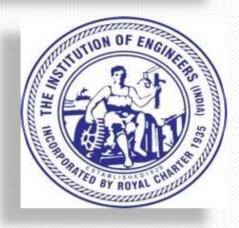


FACULTY PROFESSIONAL MEMBERSHIP

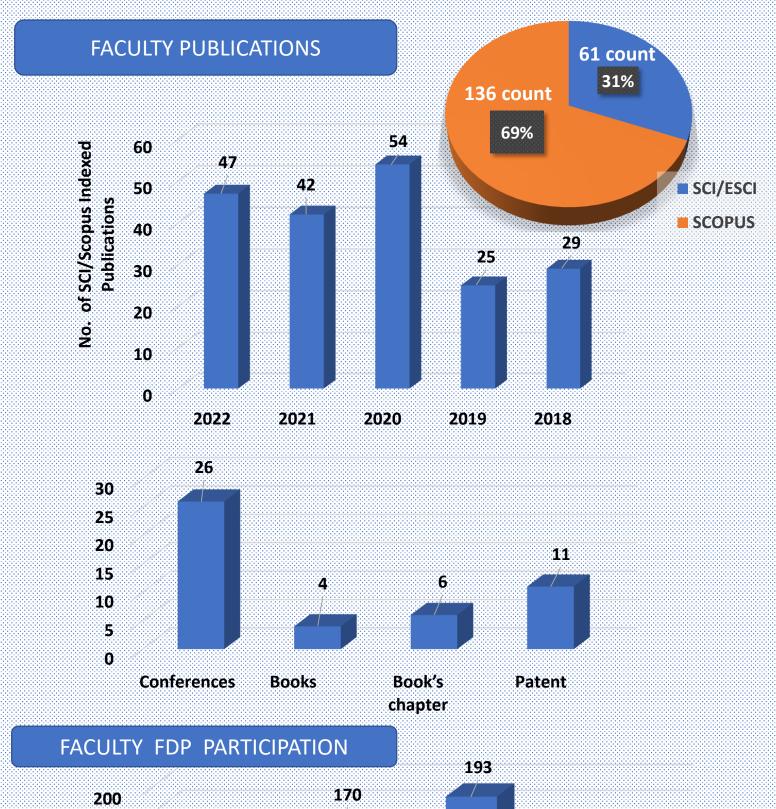


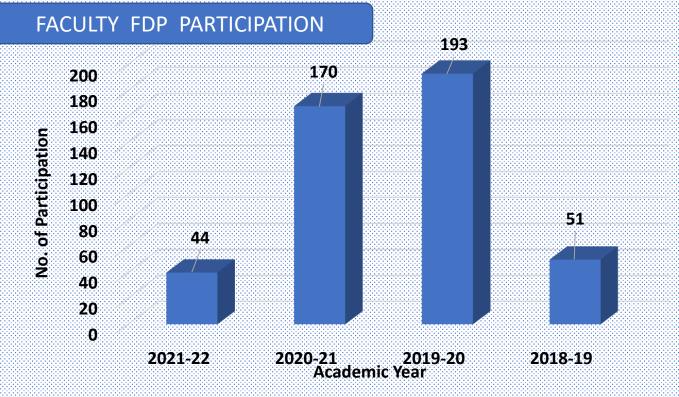












STUDENTS & CAMPUS LIFE



Foldable Electric Scooter – Complete In-House Project

Engine Testing & Calibration – Research Laboratory Practices



Electric Vehicle – Event Vehicle for competition



INDUSTRY COLLABORATION LABORATORY

For Research on Braking





ENGINE COMPONENTS LAB

To learn about the working of each components in an engine. Students can know how to dismantle, assembling of all type of engine components & study of all basic operations of an engine and types of engine with cycles.

MAINTENANCE LAB

Students can able to know the complete vehicle maintenance and evaluation. Also learn about the forms, check list, maintenance procedures. Includes the vehicle as well as chassis components.



ASSE DISTILLATION APPARA ASSE DISTILLATION APPARA MARKET MARKET ST. MARKET MARKET ST. MARKET MARKET ST. MARKE

FUEL TESTING LAB

Students can learn about the various types of fuels and its properties. Also learn the test procedures to find the properties of any fuel, lubricants & coolants used in automobile.





AUTOMOBILE CHASSIS LAB

Complete learning about all types of chassis, its frames, components, mechanism, working, principle theories. Chassis components - Steering, Clutch, Braking, Suspension, Gearbox, Differential and all its types.





AUTO ELECTRICAL LAB

To learn the automobile electrical system which includes ignition system, distributor, batteries, alternators, starter motor, lighting & warning systems. And their testing of batteries, alternators.

ENGINE SIMULATION LAB

Practicing the design software for design, testing, analysis of engines, components, thermal, load analysis, simulation on engine and vehicle frames.



CALLESTING CALLES

RECONDITIONING LAB

To learn about the Complete issues and overhauling of engine components to make them reconditioned to drive the vehicle again.

ENGINE TESTING LAB



Students can learn about the types of analysis and their basics. Also can gain knowledge about how to test a new engine and new fuel and observing the performances of it.

TWO & THREE WHEELER LAB

Objective of the lab is to study and learn about the two and three wheeler frames, arrangements, working, transmission, drives, alignments, construction and servicing also.



THE ANALYTICS TO SERVICE TO SERVI

AUTO WORKSPACE

Manufacturing of all types of vehicle especially for events. E-Bikes, E- Cars, Conventional engine vehicles also VTU Motorsports Club Achievements



VTU Motorsports Club Achievements



The VT motorsports club Team "MUDTRAILERZ" competed in the all-terrain vehicle (ATV) competition Champions of Champions, which was hosted at KL University in Andhra Pradesh from February 27th to March 1st, 2020 by the Imperial Society of Innovative Engineers. The ISIE Future Award was taken won by our group.



Go-kart Indian kart racing was held at RPM Circuit in Bhopal from the 21st to the 26th of January 2020, and our team, "AUTOMOPHILES," competed in the event. The event was organized by the Imperial Society of Innovative Engineers (ISIE INDIA). Our group came in fifth place overall and took first place for "Best Business and Cost strategy."

VTU Motorsports Club Achievements

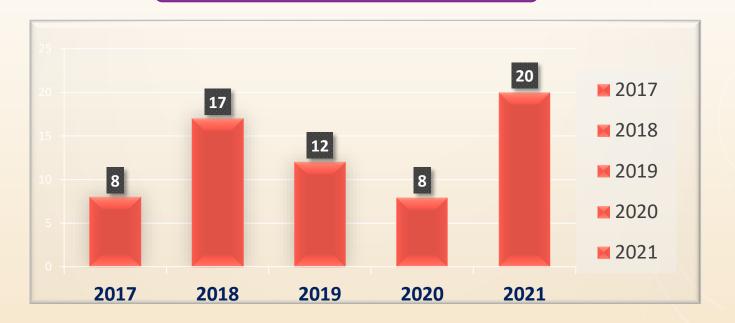


Vel Tech Motorsports Team "AUTOMOPHILES" was able to earn the position of "Second in Skid Padd & Endurance Overall Runner" in the Gokart Indian Karting Championship (Nexus motorsports), which took place from March 5th to March 10th, 2020 at Mohite Racing Academy in Kolhapur. This competition was organized by Nexus motorsports.



In the All Terrain Vehicle category, our team "MUDTRAILERZ" competed in the ATV event ATVC, (Infileague motorsports), 2020 held in Vadodara, Gujarat and organized by Infileague motorsports from the 15th to the 18th of February 2020. Our team came in SECOND PLACE overall, won FIRST PLACE for the BEST SLEDGE PULL, and came in second place for MANUREABILITY.

PLACEMENT



SL.N o.	VTU NO.	STUDENT NAME	INDUSTRY NAME
1	9398	C.NITHISH	Seon E-HWA Summit Automotive Anantapur Private limited
2	9242	BHARATH KUMAR RAO.G	Ola Electric TE chnologies Private Limited
3	8823	DILIP SEENIVASAN S	India pistons limited
4	9910	MANDALA ESWAR REDDY	Infosys
5	8996	NUKALA VIKRAM	Infosys
6	9133	PEDAPATI VEERENDRA	Valeo India Private Limited
7	8638	ALLA VENKATA MANIKANTA	TCS
8	8801	SHAIK SHARUK	DXC Technology
9	9720	GALLA SURESH BABU	CTS
10	10032	T.MUTHU PRABHAKAR	Cyent technologies
11	9951	MOHAMED RAZEEN.M	Robert Bosch
12	9341	ARUN SHERWIN.K	JM engineering enterprises LLP
13	9304	BUCHI MANINDRA REDDY	TCS
14	10385	KAVURI MANI CHANDANA	ACCENTURE SOLUTIONS PVT LTD
15	9909	JANNU VINAY	SUMTOTAL
16	10527	NIKESH CHETTRI	Urbanpiper
17	8736	DUVVURU VISHNU VARDHAN	Aisan Auto Parts India Pvt.Ltd
18	9624	HANUMANTHU SAIRAM	HIRIM POLYMER INFUSTRIES, MALAYSIA
19	9268	SACHIN.S	BFG International Private Limited
20	9810	KUNAL KUMAR	STAFF CHASE







BOSCH





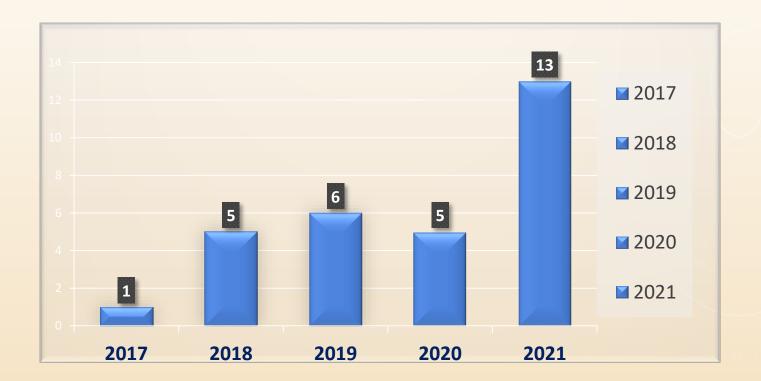








HIGHER EDUCATION



VTU No	STUDENT NAME	INSTITUTION NAME
9054	YALUGURI ANIL REDDY	University of windsor
8632	SUVARNAGIRI VENKATA RAMA KRISHNA PAVAN	Arizona state university
10823	ABHISHEK DUBEY	IIT MADRAS
10329	KUNAL DUDHRAJ BISWAKARMA	IIT MADRAS
8643	GOKAVARAPU VARSHIT	Wichita State University
9919	SHAIK ABDUL RAWOOF	University of cassino and southern lazio
9269	DARAPANANI DEVIGNESH	Conventry university
10438	JETTINGU SAHARSHA	Cleveland state university
9537	NUTHALAPATI EMERALD RAY	Cleveland state university
9469	ENUGU LAVANYA	Wright State University
10343	Shaik sohail siddiq	SRH Berlin University Of Applied Sciences



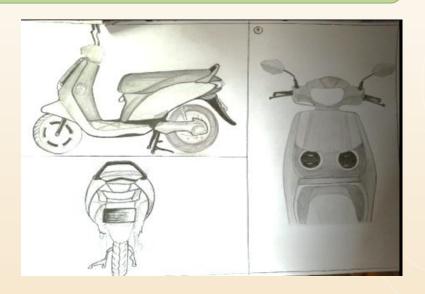




G.Pavansai and Harikrishna from Batch 2019-2023 have been selected for the 3+2 Master Program at Ming Chi University of Technology, Taiwan

Students' Project @ 2021-22 Electric Bike











Students' In-plant Training @ 2021-22







II Year students of Automobile Engineering experienced In-plant Training at Paramount Auto Bay services, Secunderabad, Telangana in 2021-22.



Department of Automobile Engineering School of Mechanical and Construction

