Vel Tech

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

School of Mechanical and Construction

Department of Mechanical Engineering

Annual Report
2021-22

FOUNDERS

Col. Prof. Vel. Dr. R. Rangarajan

Founder President

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

Dr. Sagunthala Rangarajan

Foundress President

M.B.B.S.

FOREWORD

Col. Prof. Vel. Dr. R. Rangarajan
Founder President

Dr. Sagunthala Rangarajan
Foundress President

The Mechanical Engineering Department at Vel Tech is thriving in every way conceivable. One of the reasons for the Department's continued success is that it has never stayed on its laurels, but instead, it works tirelessly to preserve its leadership along with new trends and technology.

Vel Tech's achievements are the result of an uncompromising commitment to excellence, professionalism, creativity, and innovation. We believe that Vel Tech has sincerely dedicated its desire to make a beneficial impact on education and research.

We believe that this annual report will cover the foot print of the Department's events, accomplishments, and awards. It's worth noting that the Department has organized a number of events such as online conferences and Webinars.

We are happy to note that the Department works hard to improve student employability by conducting placement training sessions. We congratulate the students who have graduated this year and we encourage them to make a commitment to serve society and country.

We greet the Mechanical Engineering Department which has worked tirelessly to ensure success both in the Department level and in the Institution level.

FOREWORD

Mrs. R. Mahalakshmi

Chairperson & Managing Trustee

The Annual Report has always been a successful attempt in bringing out the achievement of the department and thus motivates the best of our young technocrats. I congratulate the effort taken by the Department of Mechanical Engineering for the publication of the Annual Report 2021 - 2022.

It is my pleasure to congratulate the students and the faculty members of Mechanical Engineering for the activities being carried out in the Department. The very purpose of this institute is to bring out the potential of each student and provide them proper guidance so that their potentials can be highly made in building them as Engineers, being capable of meeting any kind of challenge. I feel proud to convey my best wishes to the versatile Faculty crew behind this meritorious effort. The academic achievements of faculty members and students and the innovations occurring in the department take Vel Tech to reach its milestone.

Four years of engineering education at Vel Tech will earn students a degree and transform students' personalities, empowering them to lead a successful life.

FOREWORD

Prof. Dr. S. Salivahanan

Vice Chancellor

The annual report has got its relevance and importance in this technological era. It will create a platform for faculty members and students to share their creativity and innovative ideas. It will be helpful for their overall and individual development. I always believe that one must find the meaning of his life in his daily work. One can give his best only when he realizes that it does not just work, but something more than that which will improve many lives.

I am pleased to introduce this Annual report of the Department of Mechanical Engineering. This Annual Report 2021 - 2022 provides a panoramic view of the department's academic, research, co-curricular activities and achievements during an academic year. Our vision is to impart technical education and training of exemplary academic standards to our students. The Mechanical Engineering department has a rich tradition of pursuing academic excellence and providing a congenial environment for the overall personality development of students. I feel confident that the department is progressing in the right direction. I congratulate the faculty and staff for their hard work and wholehearted efforts to make the department the choicest destination for aspiring Mechanical engineers.

FOREWORD

Prof. Dr. S. Irudayaraj

Dean School of Mechanical and Construction

I am elated to release the Annual Report 2021-2022 of the Department of Mechanical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.

The Mechanical Engineering department holds the manifold distinction of being amongst the best when considering the current technical education status. It is great to find many winners and participants in co-curricular and extracurricular activities, which certainly prove that our faculty members and students are adequately equipped and possess the necessary skill-sets to bring such laurels to the department. I wish that this number may grow in the years to come.

It is my pleasure to congratulate the editorial board on this pleasant occasion of releasing the annual report. I am sure that publishing an Annual Report of this sort containing the achievements of the faculty members and wards will recognize them, and I wish them all the very best for future endeavours.

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Vision, Mission & PEOs

Department of Mechanical Engineering

Vision

To be a Centre of Excellence for education and research in the field of Mechanical Engineering to meet the national as well as global challenges.

Mission

M1:	To educate and enrich effective and responsible engineers for national as well as global requirements by providing quality education.
M2:	To maintain vital State-of-the-Art Research facilities to provide its students and faculty with opportunities to create, interpret, apply and disseminate knowledge.
M3:	To develop linkages with world-class organizations and educational institutions in India and abroad for excellence in teaching, industry and research.
M4:	To cultivate and promote entrepreneurship using the industry and R&D facilities of the institution.

Program Educational Objectives (PEOs)

PEO1: Apply modern analytical, computational, simulation tools and techniques on engineering materials, thermal sciences, applied mechanics and manufacturing methods to address the global challenges faced in mechanical and allied engineering streams.

PEO2: Adapt new and recent techniques of engineering science and their applications to conceive, organize and develop the design of engineering systems.

PEO3: Work as an individual and in teams on multidisciplinary assignments in industries, research organizations and academic institutions both in national and global level through collaboration.

PEO4: Demonstrate techno-commercial skills such as research interest and entrepreneurial ability in students to cater the societal problems.

Program Outcomes & Program Specific Outcomes

Program Outcomes (POs)

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems

PO2: Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (POs)

PSO1: Apply their knowledge in the domains of design, manufacturing and thermal sciences to solve engineering problems using advanced technology.

PSO2: Engage professionally in industries or as entrepreneurs by applying innovative ideas in design and manufacturing using modern CAD/CAE/CAM tools.

1. Department Profile

The Department started in the year 2001, nurtures graduates who can meet the rapidly changing needs of the mechanical core industry which requires skilled Mechanical Engineers. This Program facilitates the students to be readily employable in Industries or to pursue their higher studies in elite Universities in India and abroad.

B.Tech.,	**Mechanical Engineering**
Specialization	**Mechanical Engineering (AI & Robotics)** **Mechanical Engineering (Mechatronics)**
Honors	**Digital Manufacturing** **Computational Thermo fluids**
Minor Specialization	**Smart Manufacturing** **Energy Engineering**
M.Tech.,	**Metallurgical and Material science** **Industrial and Safety Engineering**
Ph.D.,	**Mechanical Engineering (Full & Part time)**

Recognitions & Accreditation

B.Tech. Mechanical Specialization

B.Tech. Mechanical Engineering

Specialization in

Artificial Intelligence & Robotics

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

Preamble

Artificial Intelligence (AI) and Robotics cater to the needs of the manufacturing industry by providing industrial solutions for making production decisions smarter and instant. AI-enabled robots are growing beyond being the workhorses of manufacturing industries. Mechanical engineering coupled with AI technology contributes to the design of human-machine coordination, resulting in robotics, automation, and sensor technology. This specialization aims to equip the graduates with knowledge in AI and robotics, molding them for promising careers.

Outcome

- ✓ Integrate the concepts of AI with core values of Mechanical Engineering
- ✓ Apply AI tools for manufacturing needs
- ✓ Gain expertise in intelligent computing using AI
- ✓ Design and development of robotic arm using the integration of linkages with AI

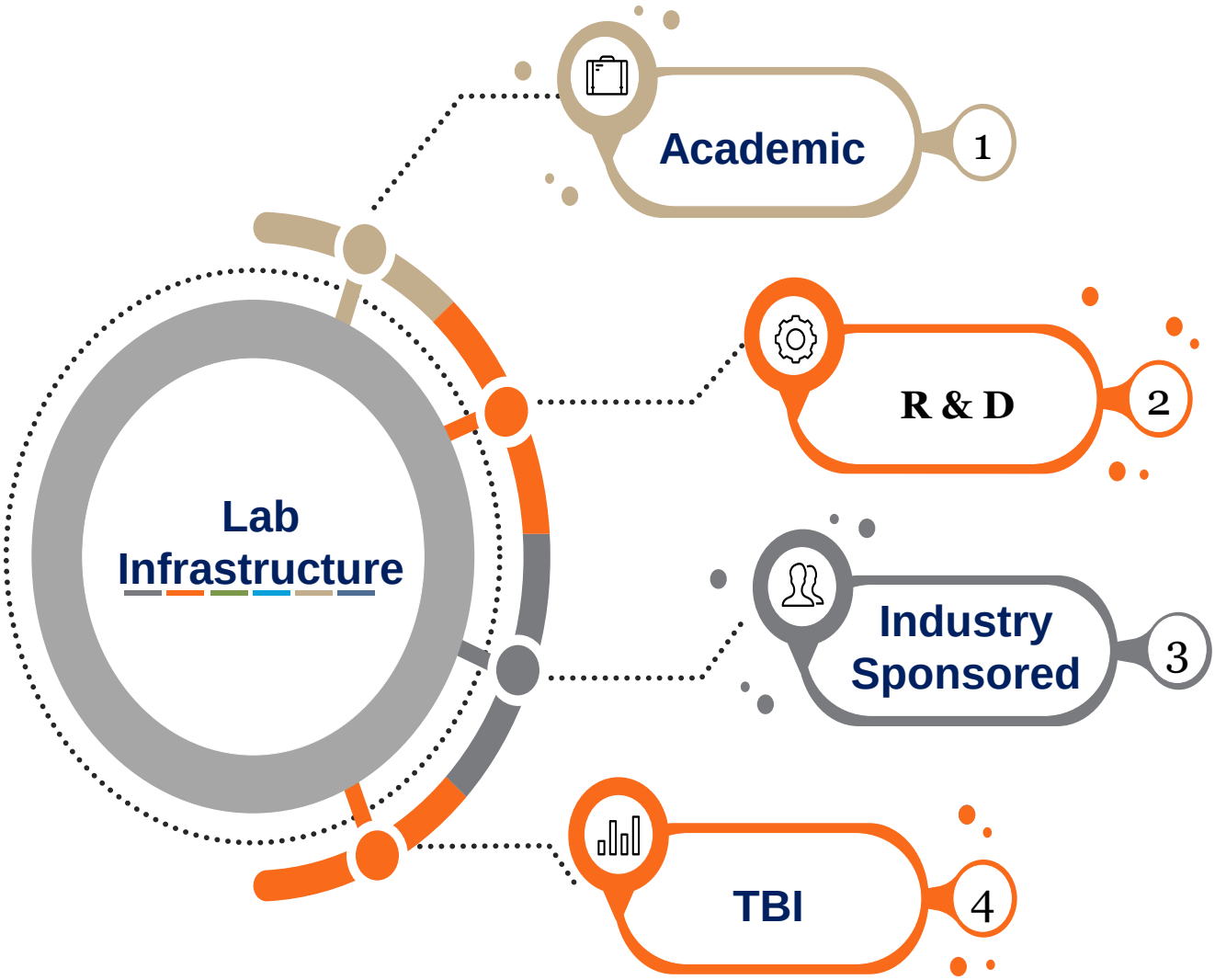
B.Tech. Mechanical Specialization

Career Opportunity

As AI and Robotics technologies develop, they are going to create a demand for new skills. The graduates will develop a portfolio during their course of study, giving them suitable experience to expose their practical skills required by the industry. The transferrable skills such as problem identification, analysis, modeling, solution developing and evaluation gained during the study will prepare the students to buildup their careers in various industries such as TATA, BHEL, BARC, DiFACTO Robotics and Automation, NASA, Tech Mahindra Ltd, Kuka Robotics, ISRO, etc., with a package ranging from Rs.10 lakh to Rs.20 lakh per annum.

2. Laboratory Infrastructure

Laboratory work is vital for improving and developing products and processes, validating designs and for gaining fundamental understanding of how materials, parts, components or systems will behave under a variety of conditions. As such, it is essential that mechanical engineering students be able to work productively in this setting.



TBI lab Facilities

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Manufacturing Center of Excellence

*Honourable Vice President of India, **Shri. M. Venkaiah Naidu** and Guest of Honour, Honourable Governor of Tamil Nadu, **Shri Banwarilal Purohit** launched the "Centre of Excellence for Manufacturing" in Vel Tech on 13.03.2019*

Manufacturing Centre of Excellence offers various specialized courses & Hands on Training in different machinery

Mechanical engineering is one of the broadest and oldest branches of engineering. Mechanical engineers are involved with any system that has a moving part. Their job opportunities are wide open in many areas and in numerous industries irrespective of location.

Manufacturing CoE is the center of attraction at Vel Tech University which promotes the mechanical students to pursue their careers with good expectations and with good skilled knowledge in different machinery. Vel Tech provides innovative, effective, and integrated training opportunities for people who need new skills to enjoy the dignity of employment, independence, and self-reliance in the field of mechanicals. To continuously hone the skills of the industrial workforce for higher productivity bridging the gap between academics and industries for suitable placement for the young generation in technical fields.

BENEFITS OF MECHANICAL ENGG. @ Vel Tech

By using the facilities available in Vel Tech many skill development programs are being conducted to develop and strengthen the confidence of the Mechanical students who want to pursue their careers as successful mechanical engineers. This institute has well-trained and highly motivated training faculty who have been certified by ASDC training institute to provide training in various machinery to students. The emphasis of training is to develop clear concepts and upgrade skills.

Till date, 200+ Mechanical students got trained in these machines to upgrade their level from graduate to industry person.

FACILITIES @ Vel Tech

The Vel Tech Mechanical workshop is well equipped as per industry standards, with a wide range of High fabrication facilities and CNC Precision machining facilities. This institute has well-trained and highly motivated training faculty who have been certified by ASDC training institute to provide training comparable to any international standards in Vocational training. The emphasis of training is to develop clear concepts and upgrade skills.

CNC HORIZONTAL MACHINING CENTRE

CNC VERTICAL MACHINING CENTRE

CNC HORIZONTAL TURNING CENTRE

CNC HIGH SPEED MOVING COLUMN VMC

CNC 5 AXIS VMC

CNC WIRE CUT EDM

CNC PLASMA PROFILE CUTTING MACHINE

NC TUBE BENDING MACHINE

NC SHEARING MACHINE

NC PLATE ROLLING MACHINE

MIG-MAG WELDING ROBOT MACHINE

GAS TUNGESTAN ARC WELDING

CNC CMM

VISION MEASURING MACHINE

Academic Laboratories

Manufacturing Technology Laboratory

Academic Laboratories

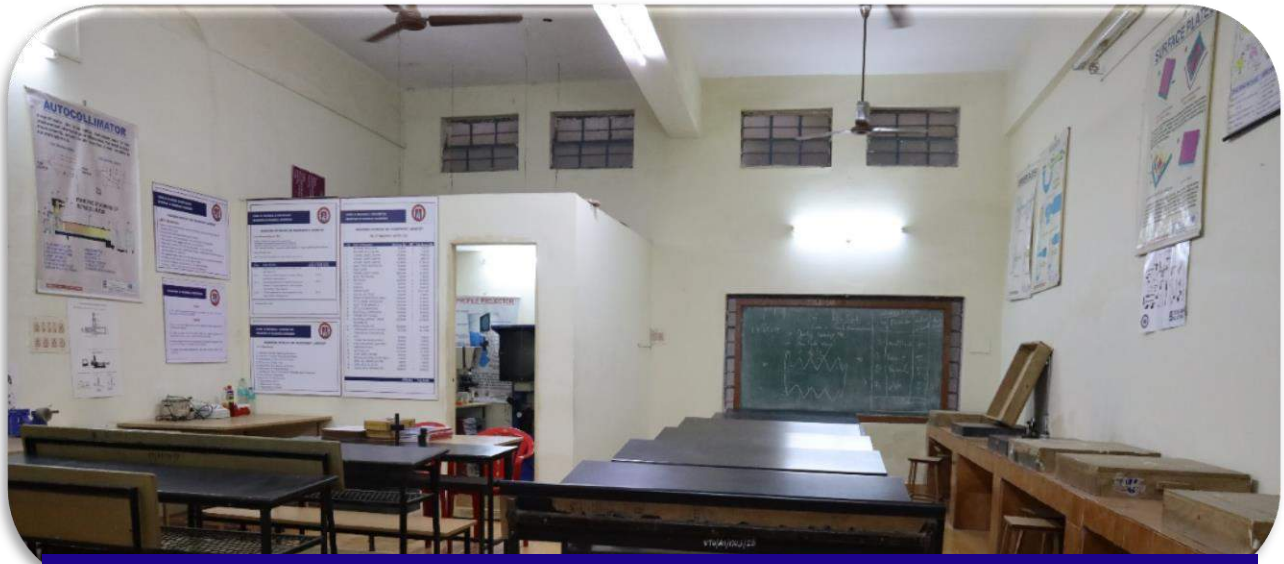
Fluid Mechanics Laboratory

Strength of Materials Laboratory

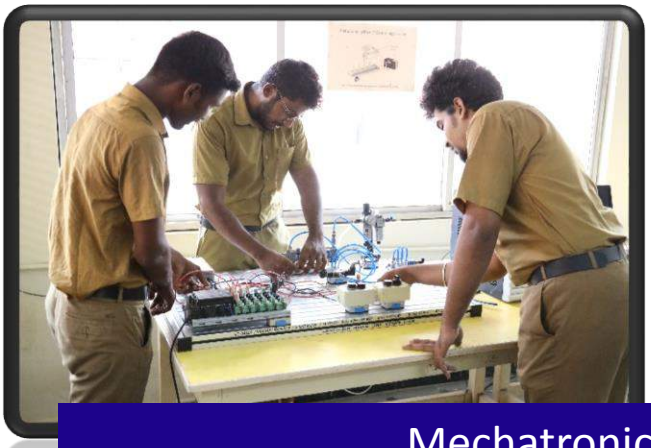
Academic Laboratories

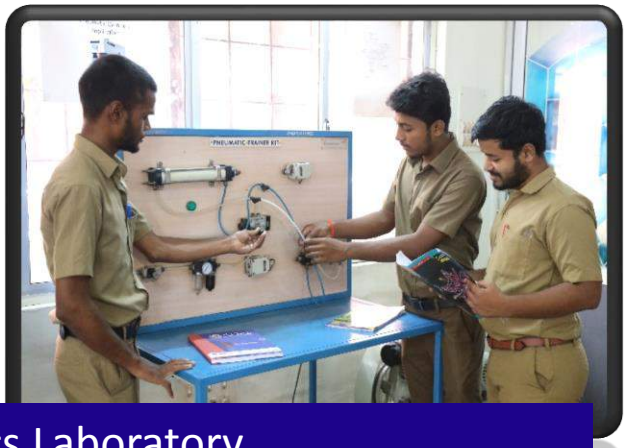
Thermal Engineering Laboratory

Academic Laboratories



Metrology and Measurement Laboratory





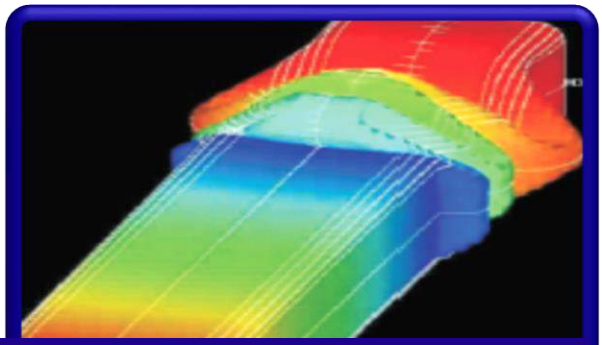
Mechatronics Laboratory

Academic Laboratories

Computer Aided Design & Computer Aided Manufacturing Laboratory

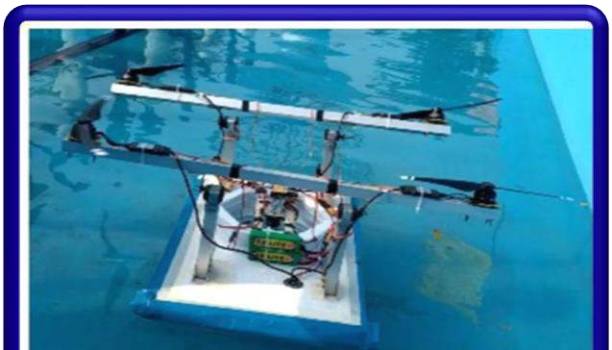
Research Laboratories

Research Laboratories



Design, Modelling and Analysis Lab Centre For Thermal Studies

Metal forming Laboratory & Composite research centre



Centre for Autonomous Systems Research
& Metallurgical and Materials Engineering Lab

3. Teaching Learning process

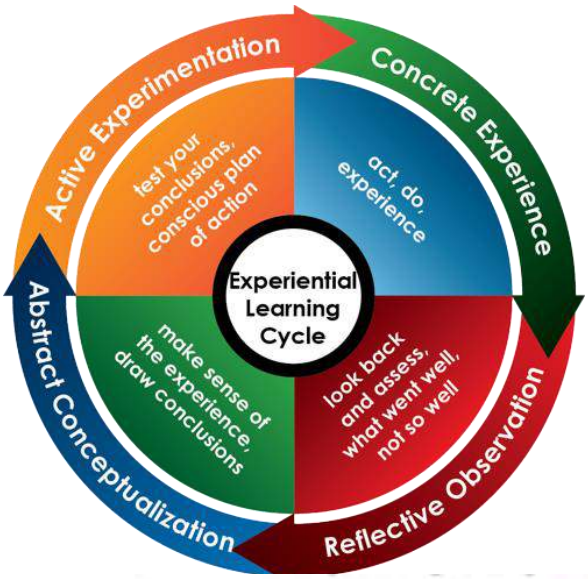
Teaching-learning process has been equipped with the facility called **Learning by facilitation** which happens in a place wherein students will learn actively with peers. The department has taken pedagogical initiatives for improving methods of instruction which are as follows:

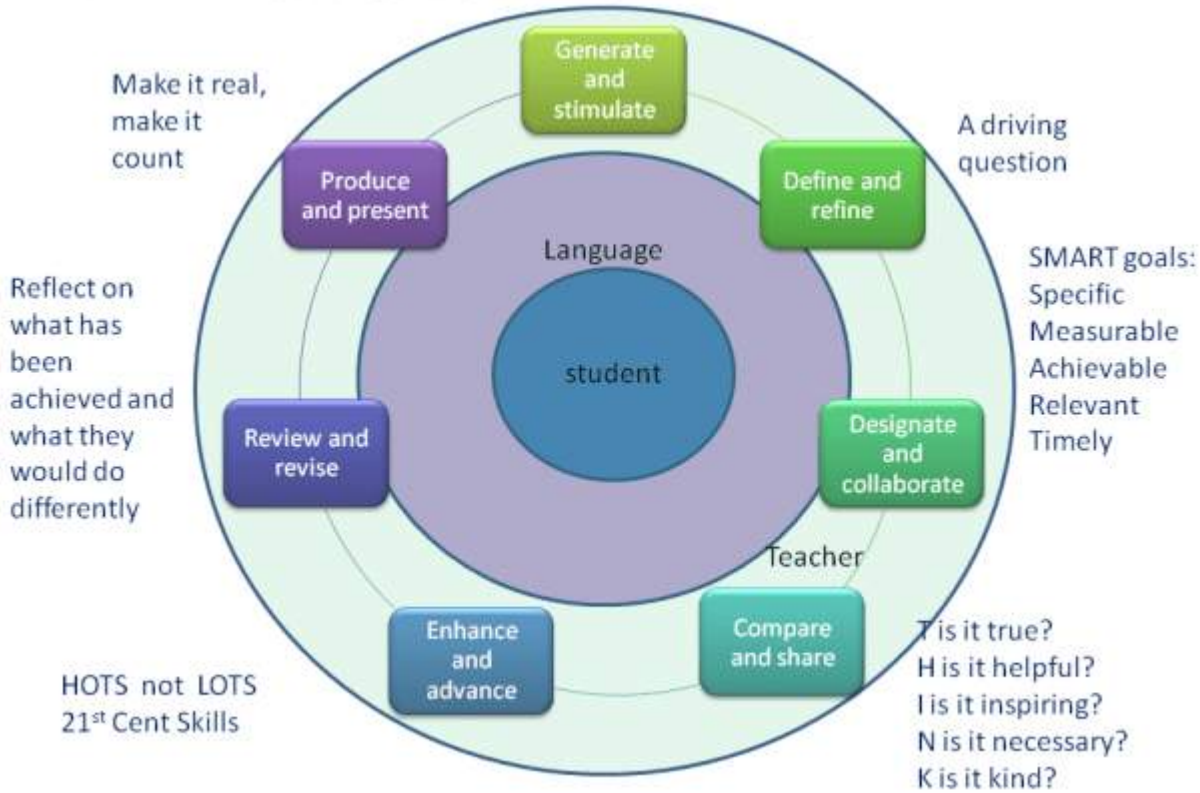
The faculty members have been facilitating students toward **collaborative and experiential learning** through

- Active Learning Environments like Think-Pair-Share, Peer Instruction, Concept Test, and flipped classroom
- Problem-based learning
- Project-based learning
- e-Learning

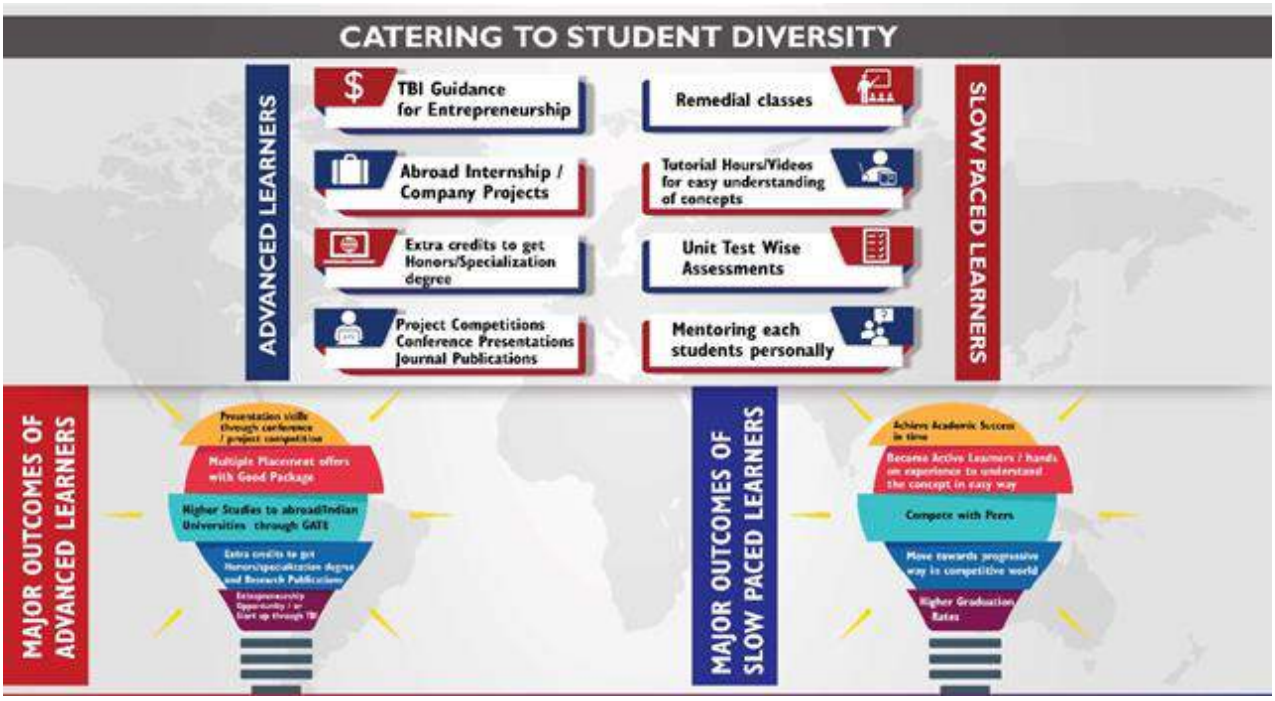
Teaching Learning process

Our goal is to provide students with not only a degree but also the opportunity to tackle some of the world's most critical challenges.We adopt the following student centric approaches to nurture them as a multifaceted graduate.





Teaching Learning process



Encouraging Fast learners & Assisting Slow learners

Teaching Learning process

Student centric methods practiced

Kinematics of Inversion - Model-based learning

Simulation-based learning

ICT facility enabled halls

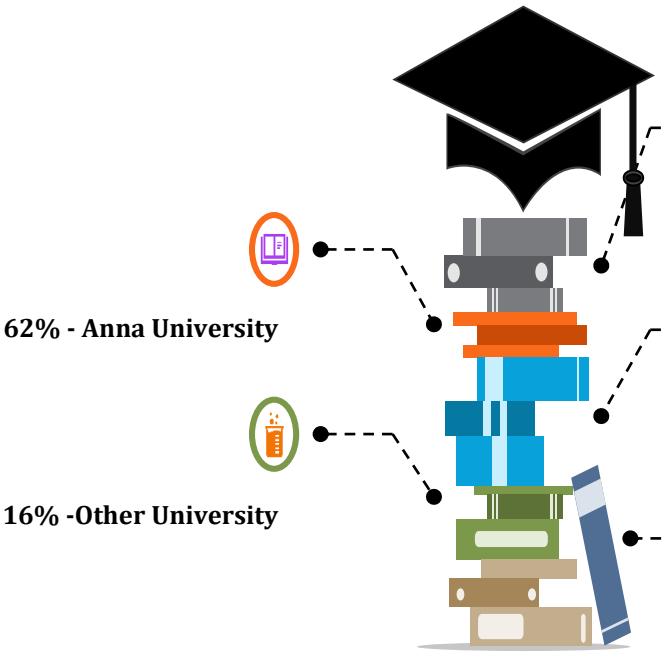
ICT based Learning

Project based Learning

4. Faculty Profile

The department has got a team of highly qualified faculty members with doctoral and post-doctoral degrees from leading institutes across the globe, to train the students as efficient engineers.

Faculty completed Ph.D. from reputed National and International Institutions



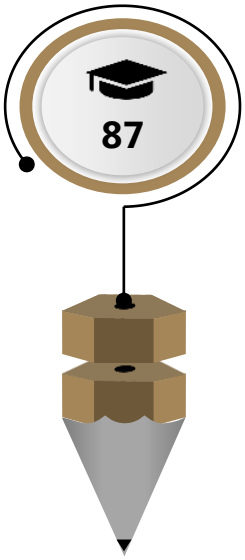
62% - Anna University

16% -Other University

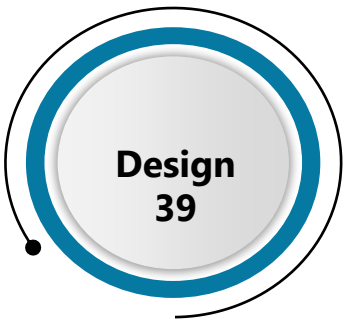
9% - International

9% - NITs

4% – IIT



Total faculty

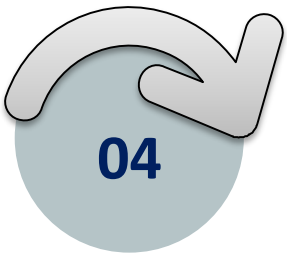


Faculty Contribution

Faculty members have published their research articles in various reputed journal indexed by Scopus / SCI with good impact factor. In the Academic year 2020-2021 around 130 papers were published.

Consultancy

SCI/Scopus



Non Scopus

Project proposals submitted

Name of the Faculty	Details (Title, Funding agency and amount)
Dr.ANAND. P	Experimental investigations and Finite Element Analysis of Basalt / Kevlar cross weaved twin fiber reinforced Hybrid Polymer Ballistic Helmet, DST SERB and Rs.18,00,000/-
Dr.ANAND. P	Design and Development of Bio-degradable Prosthetic Limbs Using Additive Manufacturing for Moment Disability People, TNSCST, Rs.5,00,000/-
Dr.M.MEIKANDAN	Multi-objective Optimization and Experimental Investigation of 3D Printed Polymer/ Two-Dimensional Transition Metal Carbides and Nitrides (MXenes) /Strynchnos Potatorum Porous Membrane for Enhanced Water Purification, DST SERB-TARE - 2022
	Investigation on degradation and seed germination of nanocomposite based compostable plastics incorporated with mixed vegetable seeds. TNSCST and Rs.5,12,000/-
	Design and Implementation of Advanced Fuel Indicator with Fuel Theft System, TNSCST, and Rs 10,000/-
DR.S.MOHAMED IQBAL	Performance analysis of organic and bio-based phase change materials on building cooling applications
Dr. BALAJI. K	Development of Sustainable Manufacturing Framework for Industrial Solid Waste Products,SERB-TARE,RS.1800000/-
Dr.G.DHARMALINGAM	Ultrasonic additive manufacturing of Al-Ni dissimilar metals joints for various thermal and electrical contact applications, SERB-TARE-2022, Rs.15,00,000/-
Dr. RATHINASURIYAN. C	An Experimental and ANN framework for Submerged Friction Stir Welding of Aluminium Alloy under Nanofluidic Environment in Heat Exchanger Applications, SERB-TARE-2022
Dr.M.VENKATASUDHAKAR	Optimization of Machining Parameters to Counter Delamination of Fibre Reinforced Composites and Investigation Using New Approach, SRB-TARE-2022
Dr. YUVARAJ. N	A smart machining approach to investigate and control the defects of abrasive water jet milling in pocket corners for small scale manufacturing industries, TANSCST and Rs.4,43,400/-
DR.SUNDARRAJ. M	Nitro cracking of waste plastics into liquefied fuel by utilisation of single screw conveying machine for enhancing pyrolytic oil yield (science and technology project scheme submitted to TNSCST, Rs.5lakhs)
Dr.HARISIVASRI PHANINDRA. K	Experimental studies for inventing novel food/pharma grade anti-static additives for increasing the electrical conductivity of nonconductive liquids – A study for improving the workplace safety – SERB – Rs. 19,64,625/-
Dr.HARISIVASRI PHANINDRA. K	Experimental studies on oxygen deficiency environments due to accidental spillage or release of gases - ISRO Rs. 8,65,680/-

Project proposals submitted

Name of the Faculty	Title, Funding Agency and Amount
Dr. S. Christopher	Optimization of solar photovoltaic based water pumping performance with dc motor, serb - tare, dst
Dr. S. Christopher	"Renewable Energy with Small Hydro Actions for the Promotion of Efficient Solutions "RESHAPES", International Cooperation Division, India Italy Call for Network of Excellence, DST, 207,03452 /-- 3 years
Dr. Prabhukumar S	Additive Manufacturing of Si Based Materials for Energy Applications, Ministry of Mines, Rs. 8850864/-
Dr Rupesh P L	Department of Science & Technology WTI Call 2021 on Desalination Technologies
Dr.Dharmalingam G	Additive Manufacturing of Si Based Materials for Energy Applications, Ministry of Mines, Rs. 8850864/-
Dr. Meikandan M	Submitted 2 students project to Tamil Nadu State Council for Science and Technology
Dr.Sumathy Muniamuthu	A potential long term solution for organic and plastic waste handling – 3D printing, SERB - POWER Scheme, Budget - 28,11,360/- / Ref : SPG/2021/004081 on 14.10.2021
Dr M Arulprakasajothi	Department of Science & Technology WTI Call 2021 on Desalination Technologies
Dr. E. Pavithra	Application of heat treatment salt wastes as abrasives in water jet machining process, Power Grant , DST SERB, Rs.22,59,224/-
Dr.Harisivasri Phanindra K	“Inputs for the safety monitoring system using AI-ML – A comprehensive review of Unsafe Acts and Unsafe Conditions/Situations”. Funding Agency: Varaanga Engineers Pvt. Ltd, Hyderabad, 1 month, Rs. 26,660/-

Funded Projects

Rs.18,30,000/-

SERB-TARE — **Dr. Praveen A.S**

Additive manufacturing of osteogenic and infection resistant bone tissue engineering scaffolds

Rs.18,30,000/-

SERB-TARE — **Dr. Christopher.S**

Optimization of Solar Photovoltaic Based Water Pumping Performance with DC Motor

Rs.18,30,000/-

SERB-TARE — **Dr. Rajamani**

High strain rate characterization of additive manufactured materials for ballistic loading applications

Rs.18,30,000/-

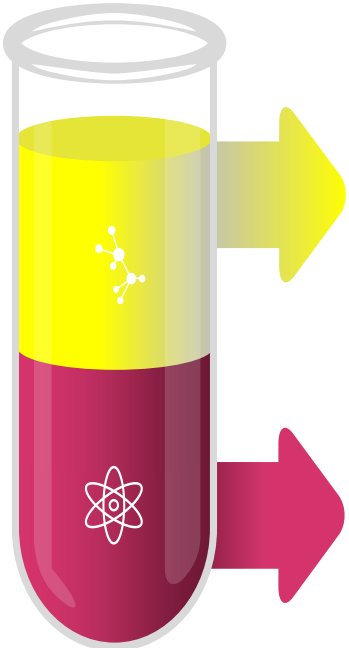
SERB-TARE — **Dr. Arul Prakash Jothi.M**

Desalination Technologies

Patent Filed/Published/Awarded

Dr.J.M.Babu	Granted 380952 Application No: 2688/CHE/2014	Introduction of hydrogen oxygen mixture at different injection pressures of diesel engines
Dr. K Raja	published	Exhaust Gas Heat Utiliser
Mr.Gandhi Mallela	Filled (Australia patent) Application No:2021103644	Design and Fabrication of Elliptical Tricycle using Tilting Mechanism

Patent filed/ Awarded



App. No: 2688/CHE/2014

Introduction of hydrogen oxygen mixture at different Injection pressures of diesel engines

Status: Granted

App. No: 2021103644

Design and Fabrication of Elliptical Tricycle using Tilting Mechanism

Status: Filed

Consultancy work by Faculty

Rs 15000/-

EHS Compliance fo RUI Pharma, S4 Scientifics

Rs 75000/-

Safety Studies at ISRO-IPRC-Pradesh,

Rs. 15000/-

Safety Audit for BPCL (LPG Plant), Kurnool

Rs 45000/-

Fire Safety Audit for Hetero drugs, Hyderabad

Dr. Harisivasri Phanindra K

Rs 20000/-

Safety Audit for Biocon Limited.

Rs 53100/-

Fire Safety Audit for Hetero drugs, Visag.

Rs 53100/-

Safety Audit for Hetero drugs, Hyderabad.

Rs 53100/-

Fire Safety Audit for Hetero drugs, Hyderabad

Rs 41300/-

Safety Audit for Bhavya Cements Private Limited

Rs 35400/-

Safety Audit for Hetero drugs, Hyderabad.

Faculty as Journal Reviewer

Dr. CHRISTOPHER S

- Journal of Applied Fluid Mechanics

Dr. LENIN N

- Journal of Industrial Textiles
- Computers & Industrial Engineering
- Journal of Alloys and Compounds

Dr. ANAND P

- Journal of Polymer Research, Journal of Natural Fibers, Journal of Industrial Textiles, International Journal of Ambient Energy, Materials and Design

Dr. PRABHUKUMAR S

- Transactions of Indian Institute of Metals
- Materials Today Proceedings

Dr. UDAYA PRAKASH J

- International Journal of Ambient Energy
- Materials Today: Proceedings
- Advances in Materials and Processing Technologies
- SN Applied Sciences
- Particulate Science and Technology

Dr. Sachin Salunkhe

- Journal of Materials: Design and Applications (SAGE)
- Lubricants (MDPI) (SCI, IF - 3.584)
- Metal (MDPI) (SCI, IF - 2.695)
- Frontiers in Materials (SCI, IF - 3.985)
- International journal for simulation and multidisciplinary design optimization, EDP Science

Dr. Kanak Kalita

Journal Reviewer: 77

Journal Editor

- SAE International Journal of Materials and Manufacturing
- International Journal of Energy Optimization and Engineering
- AIP Conference Proceedings,
- Data-Driven Optimization of Manufacturing Processes, 2020, IGI-Global, USA.
- Advances in Electronics, Communication and Computing,
- IOP Conference Series: Materials Science and Engineering,

Faculty as Journal Reviewer

Dr. YUVARAJ N

- Materials Research Express
- ASTM International Journal of Testing and Evaluation
- Arabian Journal for Science and Engineering
- Journal of Brazilian Society of Mechanical Engineering
- Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture

Dr. BALAJI K

- Advances in Mechanical Engineering
- Total Quality Management and Business Excellence

Dr. MOHAMED IQBAL S

- Journal of Ambient Energy

Dr. RAJAMANI D

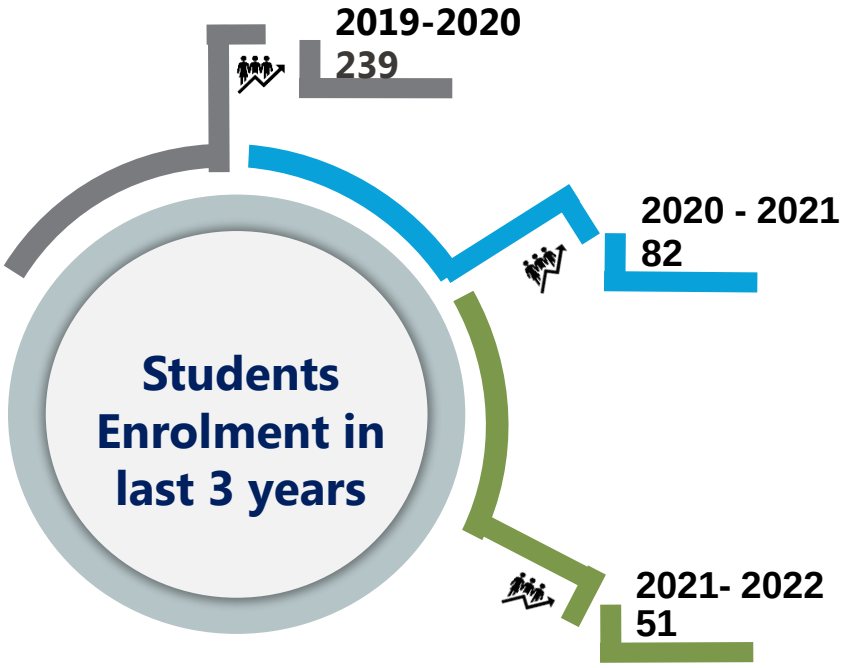
- Journal of Mechanical Science and Technology
- Journal of Brazilian Society for Mechanical Sciences and Engineering
- Rapid Prototyping Journal
- Journal of Precision Engineering and Manufacturing - Green Technology
- Journal of Industrial Textiles
- Journal of Thermoplastic Composite Materials
- Polymers and Polymer Composites
- Part G: Journal of Aerospace Engineering
- SN Applied Sciences

Dr. DHARMALINGAM. G

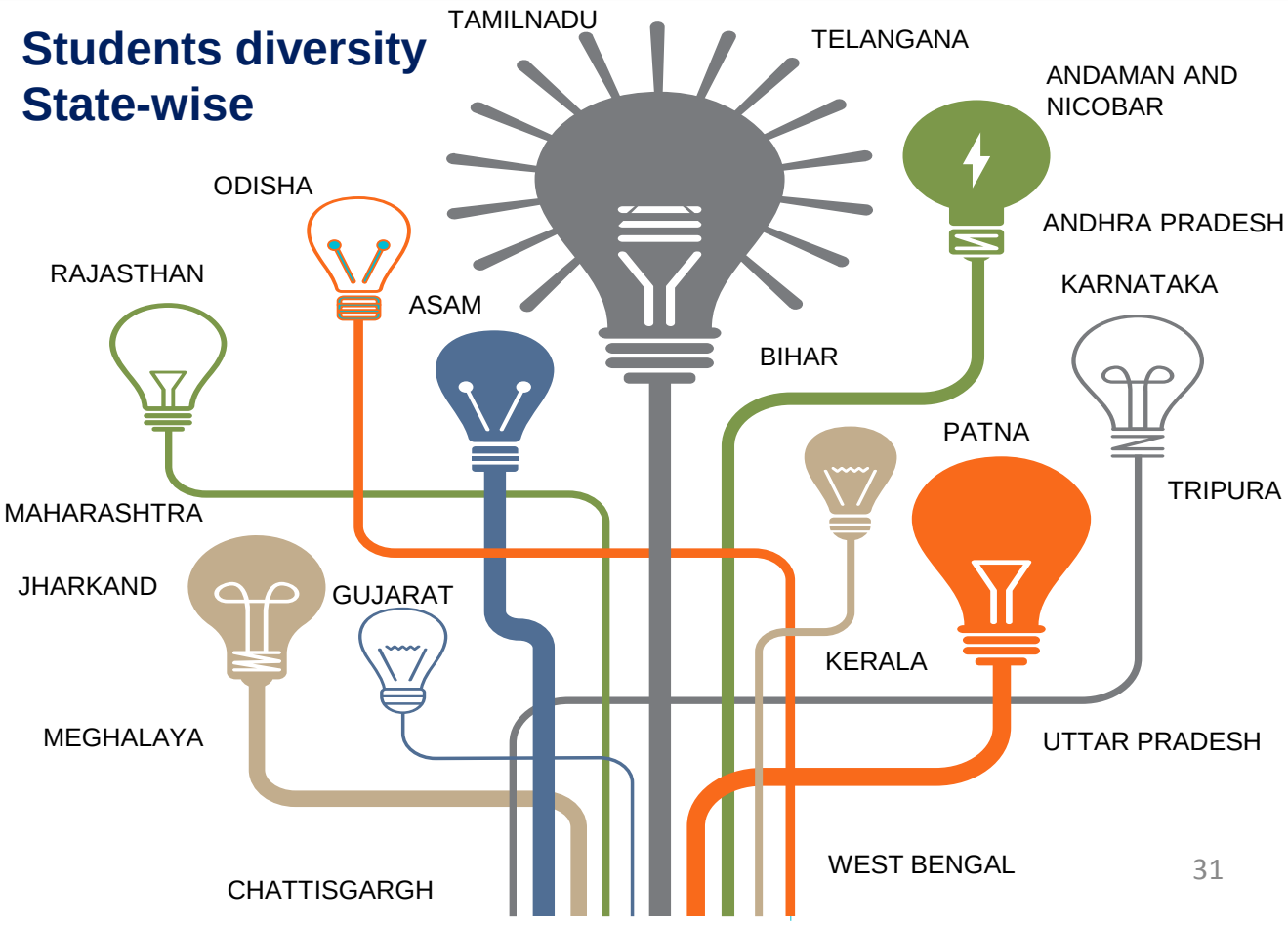
- Materials Research Express
- Australian Journal of Mechanical Engineering

5. Students Profile

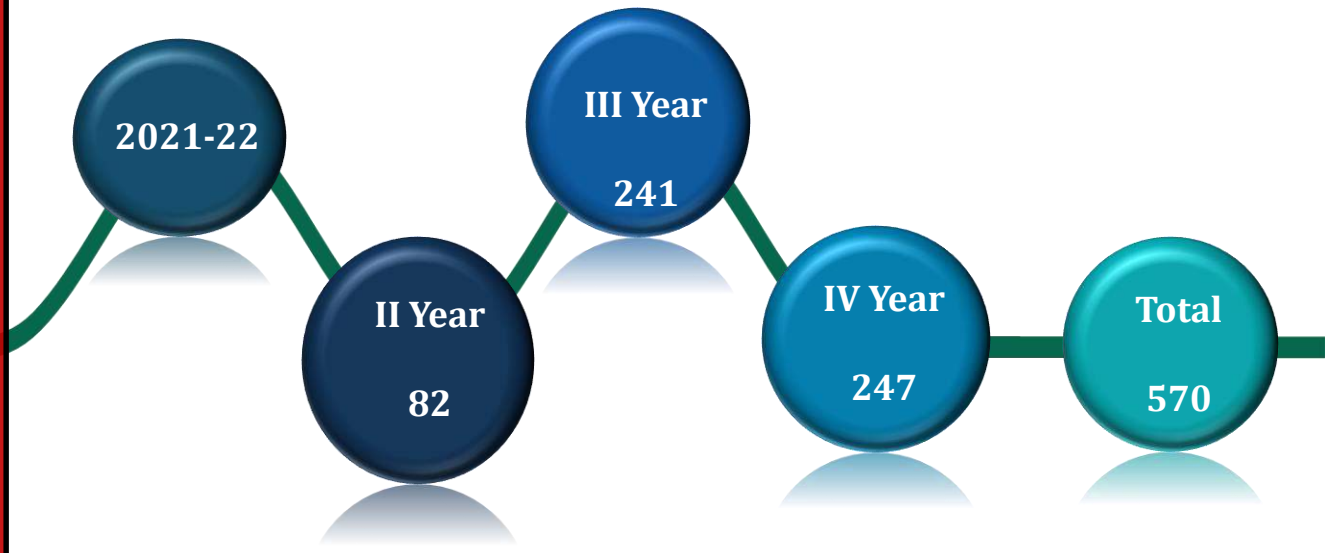
The Department of Mechanical Engineering having 372 students of all years in total from 19 different states.



Students diversity State-wise



Student Admission & Graduation Details



Graduation Details

B. Tech

292

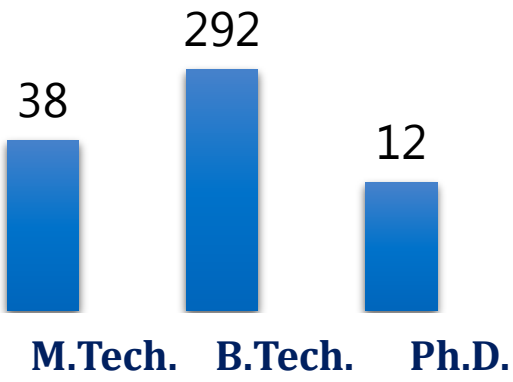
M. Tech

CADCAM	Industrial Engineering	Machine Design	Metallurgy	Thermal	Industrial Safety
01	07	05	05	09	11

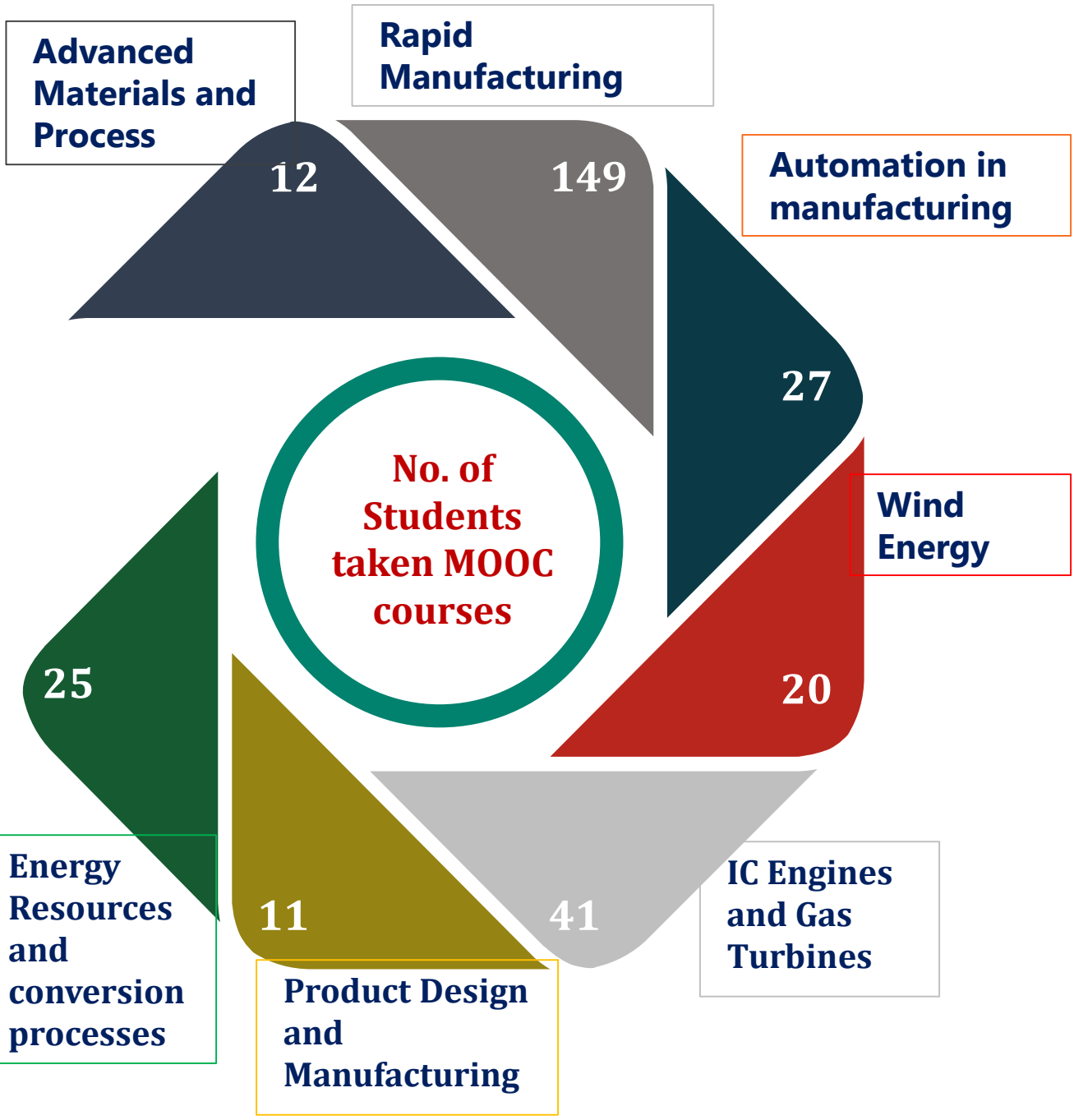
Ph. D

12

Graduation Strength



MOOC courses taken by Students

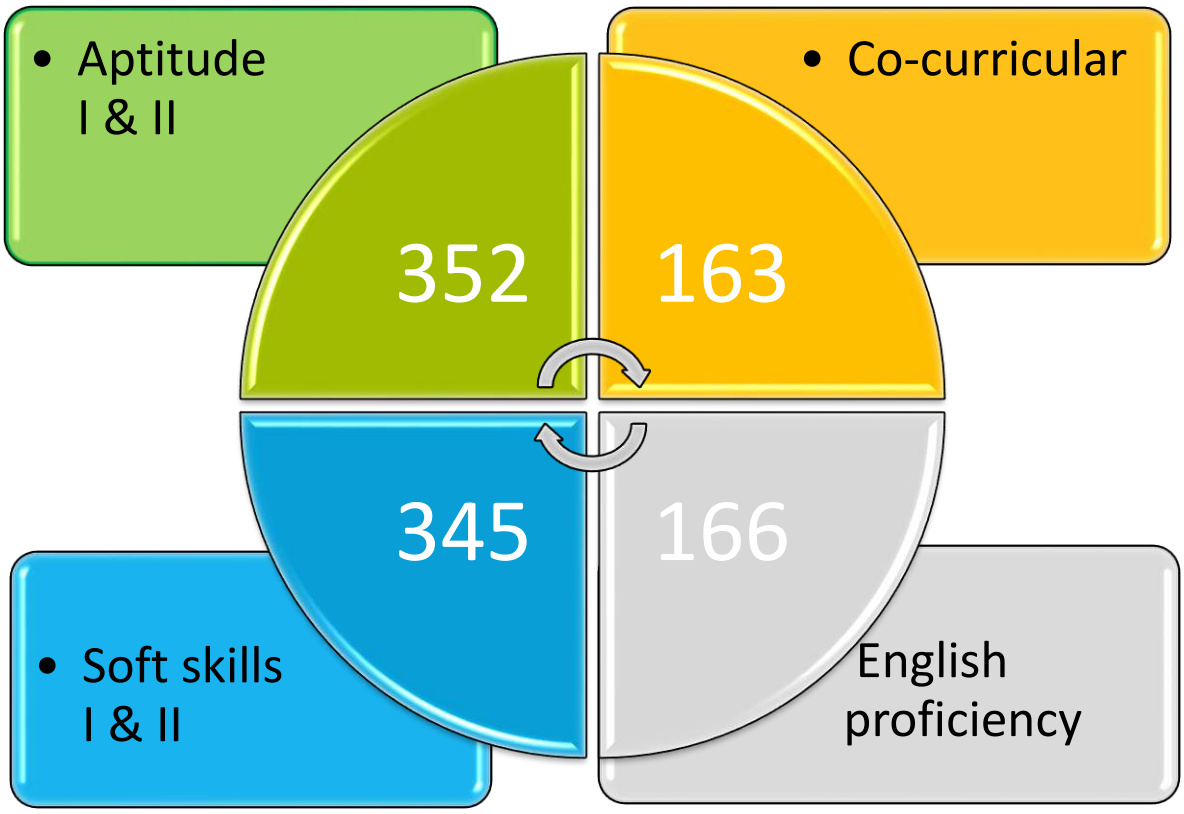


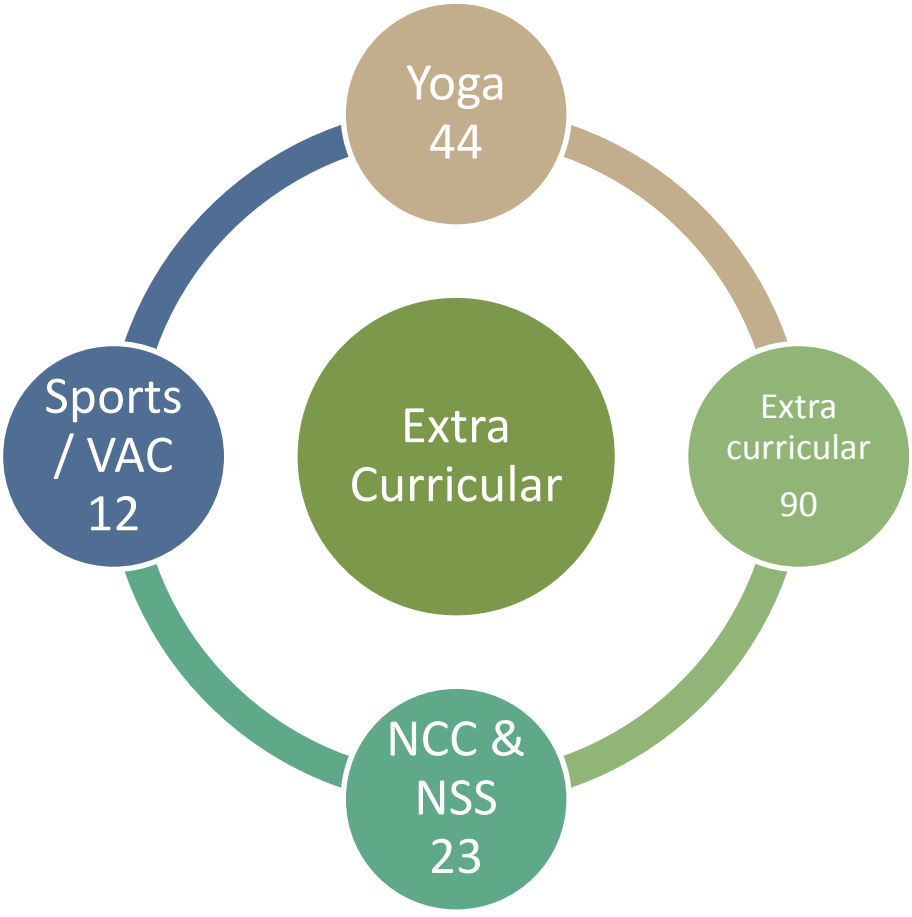
Summer f 2021-2022	Design of Mechatronic Systems	NPTEL	05
Summer 2021-2022	Heat Exchangers-Fundamentals and Design Analysis	NPTEL	04
Summer 2021-2022	Texture in Materials	NPTEL	02
Winter 2021-2022	Introduction to Mechanical Micro Machining	NPTEL	01
Winter 2021-2022	Carbon Materials and Manufacturing	NPTEL	02

Students' Participation in Various activities 2021-2022

Students have actively participated in various events such as Symposium, conference, paper presentation, and other extra curricular activities conducted by reputed Institutions.

Students Co-curricular & Extra curricular Activities





Student Performance - Placement

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

SCHOOL OF MECHANICAL AND CONSTRUCTION

Department of Mechanical Engineering

Congratulates

THE STUDENTS OF BATCH 2018-22 WHO GOT PLACEMENT IN

cognizant

A.PAVAN KUMAR REDDY VTU10987

K R NITHISH VTU11092

PANDIRI KEDARNATH VTU11299

MOHAMMED IRSHAD ALI VTU11618

SANDU NAGA DILEEP KUMAR VTU12785

P.R.RUFUS JOEL VTU12844

MAREDLA OMKAR VTU12940

K.SAI KRISHNA NITISH VTU12984

MODALAVALASA ROHITH VTU13232

Sampathirao Pavankalyan VTU13250

S MARIYAM BEE VTU13390

RAMAPURAM PAVAN KUMAR VTU14138

GREAT CHEERS FOR ACHIEVING YOUR DREAM JOB

Student Performance - Placement

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

SCHOOL OF MECHANICAL AND CONSTRUCTION

Department of Mechanical Engineering

Congratulates

THE STUDENTS OF BATCH 2018-22 WHO GOT PLACEMENT IN

cognizant

DIVANSH THOMAR VTU14223

VEMANA BOYINA VIJAY YADAV VTU14387

CHEKURU VISHNU SAIKUMAR VTU14593

N VISHNU VARDHAN VTU14709

K.TARUN SATYA NAGA KUMAR VTU11043

SATHYANARAYANAN. R.G VTU11670

MALLOJU VIJAY KUMAR VTU12938

NALLABATHULLA VTU14258

CHEEKATLA SATYA DEV VTU14898

PASUMARTHI VENKATA SUDHAKAR VTU14904

JAGADEESHWAR KAGITHA VTU11037

ACHUKATLA AZHAR MAHAMMAD VTU11264

GREAT CHEERS FOR ACHIEVING YOUR DREAM JOB

Student Performance - Placement

cognizant

KATARI NAVEEN KUMAR
VTU10937

S.M.L.N.MURTHY
VTU15000

HCL

SATHI RAJU TALURI
VTU14208

A.SAITEJA
VTU14235

Student Performance - Placement

Quest global

T NARESH
VTU14620

ABHILASH
VTU14542

J. JERIN KENNEDY
VTU11635

T.ANIL
VTU12859

K HRITHIK
VTU12156

MUKUL
VTU11317

MD TAUQUEER
VTU11690

Principal

K K HARISH
VTU11174

MUNGI

BENDALE DARSHAN
PANDIT VTU14316

ROYAL ENFIELD SINCE 1901

KURMADASU BHASKARA
RAMA SRIKRISHNA VTU12960

Student Performance - Placement

SUTHERLAND

T.ADITYA REDDY
VTU1171

PRAVEEN.M
VTU11365

E. KARTHI
VTU11628

KUMARAN . S
VTU11238

B.VAMSI
KRISHNA
VTU12233

KANCHARLA
ABHINAV
VTU12337

K.RATNA SAI
VTU14574

RUDURU VINAY
KUMAR VTU13223

M. LOKESH
VTU14553

apptium
technology inspired

RAMA RAO
VTU11443

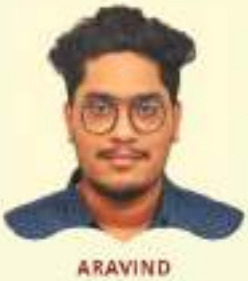
apollo

VISHAL R
VTU11712

aMaDEUS
Your technology partner

KATARI NAVEEN KUMAR
VTU13214

ad
AdminDroid



ARAVIND
VTU11641

Student Performance - Placement

IntelliPaat

RAJAT MATHUR
VTU11703

J.C.SAILESSH
VTU12458

HARSH MISHRA
VTU12453

TCL

BHUVANESHWAR REDDY
VTU14296

SAURAV KUMAR
VTU14366

accenture

DANESH VADDI
VTU11019

RAVI TEJA D
VTU12800

Student Performance - Placement

Mu Sigma


BALAKRISHNA M
VTU12968


PRAVEEN KUMAR R
VTU13208


SIMHA SS
VTU14302


SANDEEP
VTU14883


JAYAM MANIKANTA
VTU11609


SIVAKISHORE
VTU13193


VISHNU
VTU13336


VENKATESH D
VTU14889

TATA

TATA TECHNOLOGIES


MOHAMED YOUSUF
VTU11245


K NAVEEN KUMAR REDDY
VTU14944


AKHILESH BABU
VTU14689


VUTCHA SANGEETH
VTU12363

Student Performance - Placement

wipro

D.NAVEEN KUMAR
VTU12465

RAKESH
VTU12268

HEMA SAI PAVAN
VTU11041

ADAVELLKY
VENKATESH
VTU14167

ALLI BHASKARA
SAI GANESH
VTU14681

KAMALAPURAM
DHAN
SHUBHAKAR
VTU14938

S. HARI SAI PAVAN
REDDY
VTU12293

B.PAVAN KUMAR
VTU14608

AKKUMALA VINAY
VTU13368

BORRA
GURUVARAPRASAD
VTU11017

DXC TECHNOLOGY

HIMAJHA
VTU11051

MOHAMMED NAYEEM
VTU13233

Student Performance - Placement

Zelf Studie

DINESH
VTU11194

DIPAN SKINDER
VTU11164

ANDE DURGA VENKATA SAI
VTU11369

ABDUL RAZAAK
VTU11346

KARTHIKEYAN . R
VTU11661

CHNDRA BABU NAIDU
VTU12089

BVSG NAVEEN KUMAR
VTU14389

SUMIT
VTU11785

TEACHNOOK

IOHBORLANG MYNSONG
VTU11723

N H D S SAIKUMAR
VTU10988

R NAGA VINOD BABU
VTU12436

Student Performance - Placement

Student Performance - Placement

torrent GAS

NIKHIL
VTU11399

GEETHA RAMESH
VTU14989

LAKSHMAN K
VTU11430

MULA NAGENDRA REDDY
VTU14619

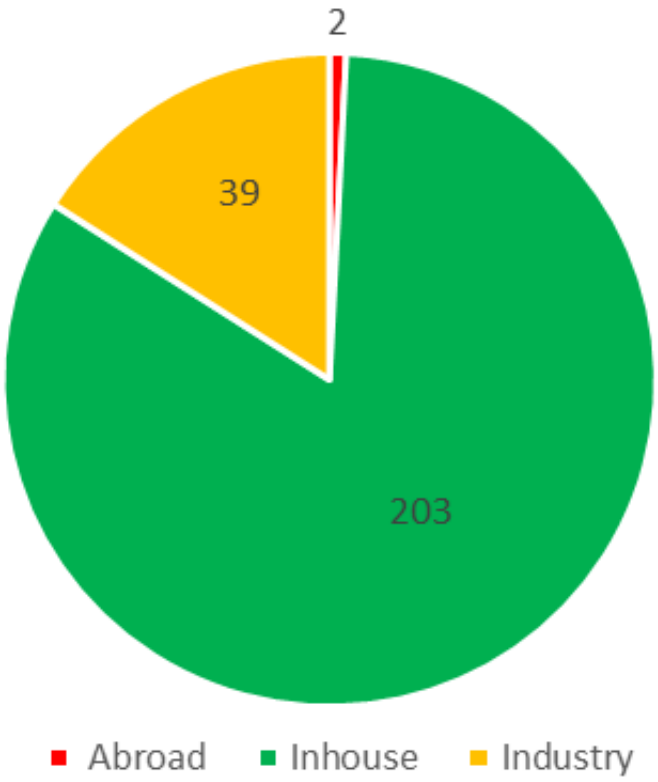
BALE SUSANTH
VTU11044

VISHAL KUMAR SINGH
VTU11398

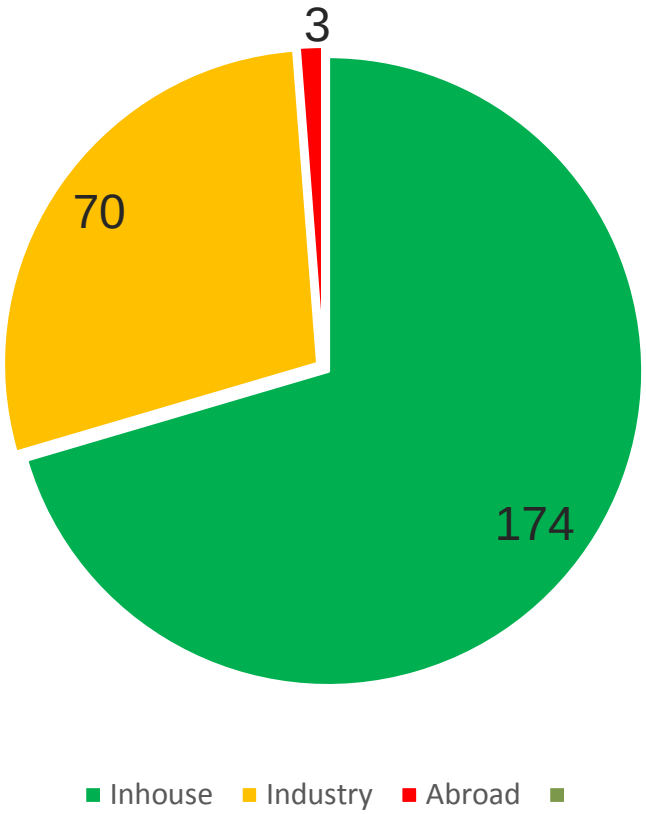
Products developed by Students

Minor and Major Projects

No.of students completed mini project



No.of Students completed Major Projects

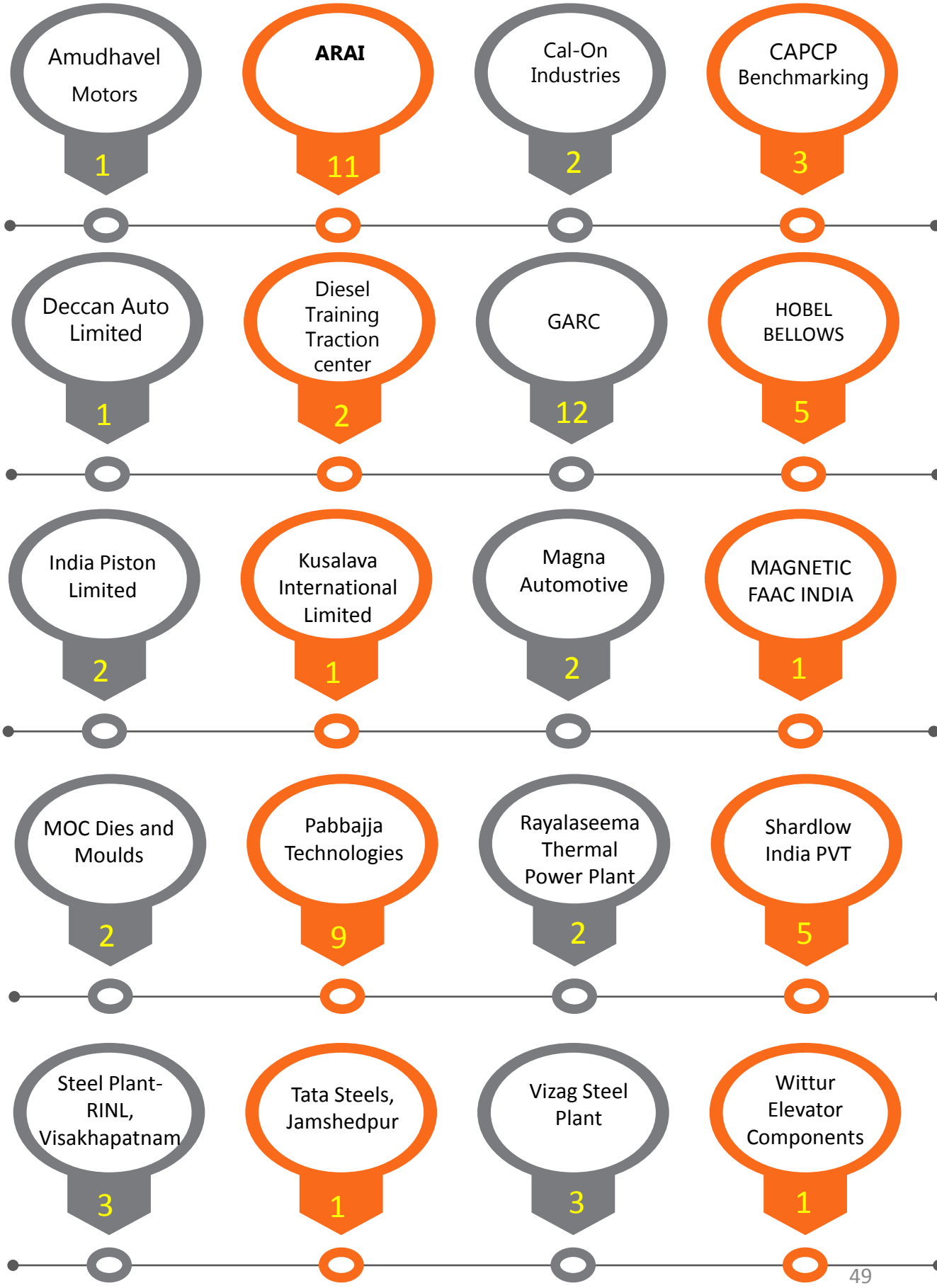


6. Industry Institute Interaction

MoU's with Foreign Universities for Student's Internship

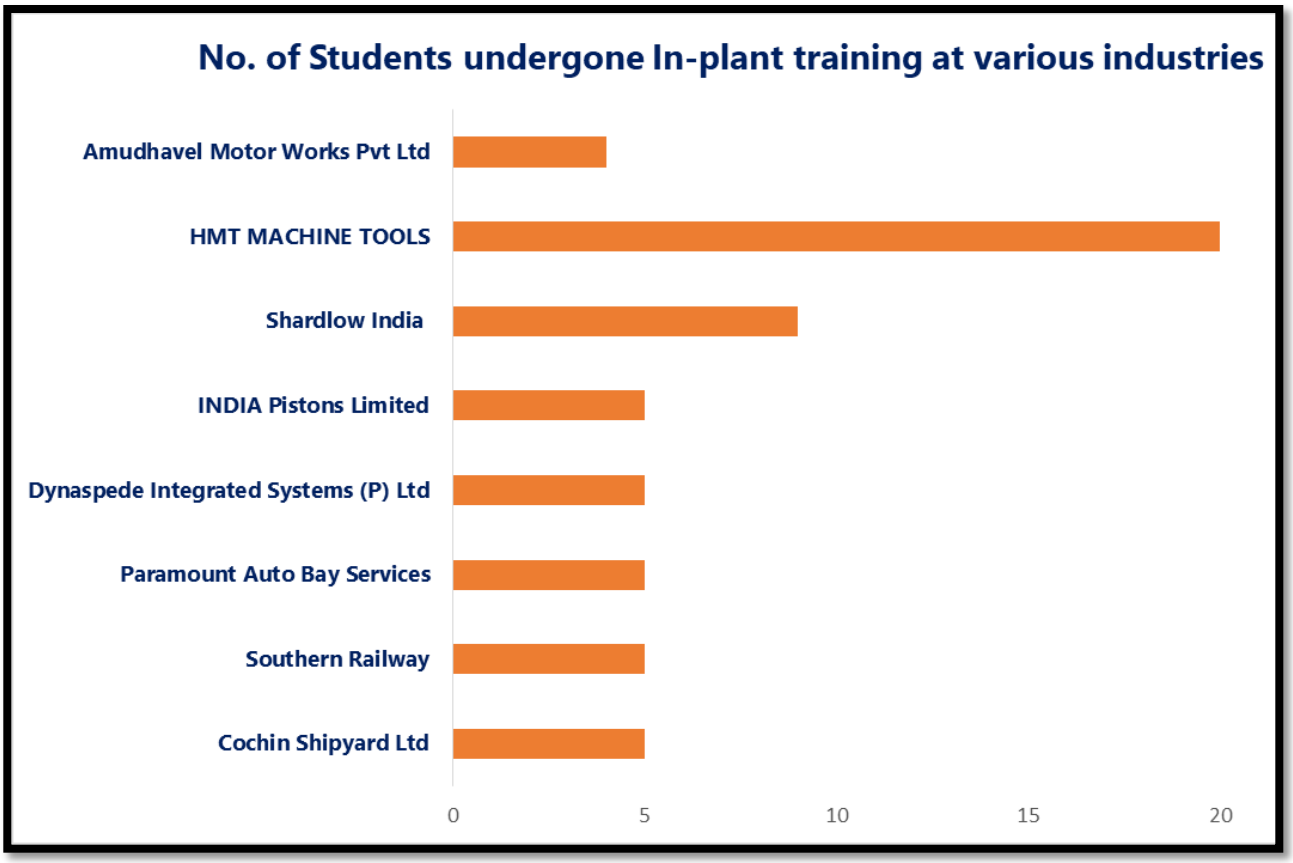
- Chung Cheng University
- National Yunlin University of Science and Technology
- National Chung Kung University
- University of Kuala Lumpur
- National Taipei University of Technology
- Tamkang University, Taipei
- National Chung Hsing University
- Moscow Aviation Institute (RUSSIA)
- Southern Taiwan University of Science and Technology
- Jung-Tang Huang in Taipei Tech
- IROAST, Kumamoto University
- University de Tours, France
- Hochschule Dusseldorf Germany

6. Industry Institute Interaction

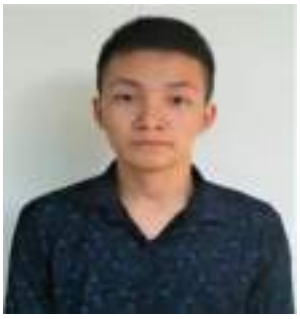


Students Internship at various Industries

In-plant training and Internship



Students opted Higher Studies at Foreign universities (2021-2022)



Rohan Thokchom
VTU11732
Country: Germany

Swagat Devadas Patil
VTU12882
country: Germany

SEMESTER ABROAD PROGRAM (2021-2022)

VIRTUAL INTERNSHIP PROGRAM (2021-2022)

Atharva Milind Kulkarni
VTU12353
Country: Canada

Tsering Wangmo
VTU11705
Country: Singapore

Swagat Devadas Patil
VTU12882
Country: Singapore

6. Events Organized

Project Expo 2021- 22

6. Events Organized

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

IN ASSOCIATION WITH

SCHOOL OF MECHANICAL AND CONSTRUCTION
DEPARTMENT OF MECHANICAL ENGINEERING

Cordially invites you for three days expert lecture on

Fatigue Deformation, Fracture and Its Importance in the Design of Equipment

(under Distinguished Visiting Professorship (DVP) scheme)

Date: 28.03.2022 to 30.03.2022 Time: 10:00 am – 12:00 Noon

RESOURCE PERSON

Dr. S.L. Mannan
Former Director - Materials and Metallurgy Group, IGCAR-Kalpakkam and Former Consultant - GTRE, DRDO-Bangalore

IN THE PRESENCE OF

Col. Prof. Vel. Dr. R.Rangarajan
Chancellor & Founder President

Dr.Sagunthala Rangarajan
Foundress President

Dr.S.Salivahanan
Vice Chancellor

Mode: Offline

CONVENOR
Dr.N.Lenin
HoD-Mech.

All faculty members and students are cordially invited to participate

Link for online registration:

https://forms.gle/6GpxPTbNZpPUTLG7A

No.42, Avadi-Vel Tech Road, Vel Nagar, Avadi, Chennai - 600062
www.veltech.edu.in 1800 212 7669

6. Events Organized

6. Events Organized

6. Events Organized

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

SCHOOL OF MECHANICAL AND CONSTRUCTION
DEPARTMENT OF MECHANICAL ENGINEERING

MECHANICAL ENGINEERING STUDENTS ASSOCIATION

One Day Hands on Training on

"CATIA V5 R20 version-Training on Drafting, Simulation and Code Generation"

25th APRIL 2022

INVITATION

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

DEPARTMENT OF MECHANICAL ENGINEERING
SCHOOL OF MECHANICAL AND CONSTRUCTION

One Day Hands on training
On

"CATIA V5 R20 - Drafting, Simulation and Code Generation"

Organized by

MECHANICAL ENGINEERING STUDENTS ASSOCIATION

On 25th April, 2022, 10.00 a.m.
Venue: Computer Aided simulation and Analysis Laboratory

Resource Person

Dr. R. RAMESH KUMAR
Assistant Professor
Mechanical Engineering

Presided by

Col. Prof. Vel Dr. R. Rangarajan
Founder Chancellor &President

Dr. Sagunthala Rangarajan
Foundress President

In the presence of

Prof. Dr. S. Salivahanan
ViceChancellor

Prof. Dr. S.Irudayaraj
Dean- SoMC

Prof. Dr. N.Lenin
HoD – Mechanical Engineering

No.42,Avadi-Vel Tech Road,Vel Nagar,Avadi Chennai-600 062 www.veltech.edu.in 18002127669

6. Events Organized

PHOTOGRAPHY CONTEST

Organized by

MECHANICAL ENGINEERING STUDENTS ASSOCIATION

in association with

DEPARTMENT OF MECHANICAL ENGINEERING

SCHOOL OF MECHANICAL AND CONSTRUCTION

Vel Tech

Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Event held on 12 May 2022

Prize winner

Vel Tech

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

400 feet Outer Ring Road, Avadi,
Chennai – 600 062,
Tamil Nadu, India.
Toll Free : 1800 2127 669
Email : admission@veltech.edu.in