

School of Mechanical and Construction

Department of Mechanical Engineering

Annual Report 2021-22



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 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 who have 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 use of 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.



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 in congratulating 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

- MI: 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.
- **PE03:** 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.
- **PE04:** 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)

- **POI:** 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.
- P04: 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.
- **P05:** 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.
- **P06:** 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.
- **P07:** 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.
- P08: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09: Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **POIO:** 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.
- **POII:** 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.
- **P012:** 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.
- **PS02:** 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













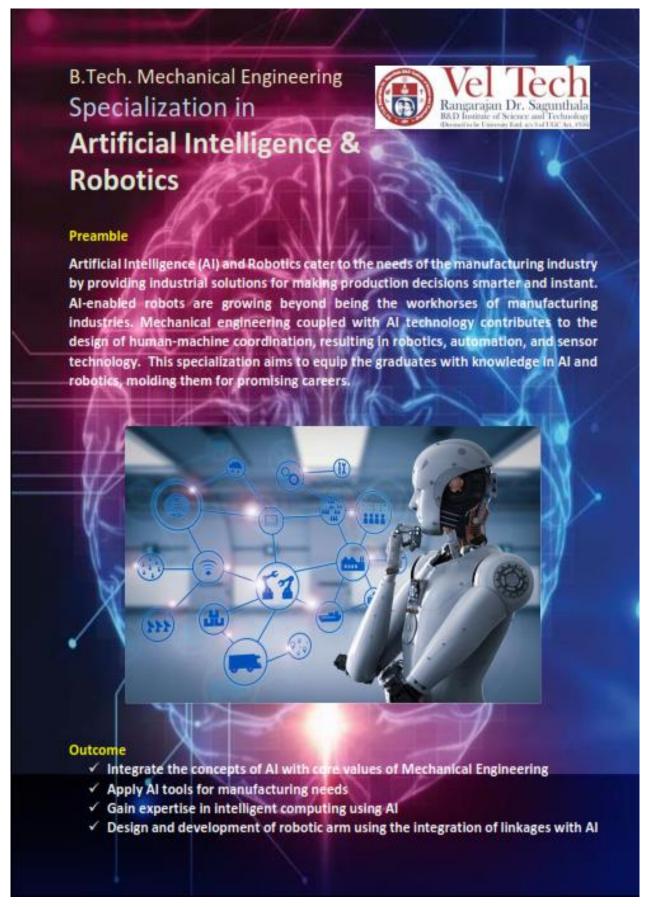








B.Tech. Mechanical Specialization



B.Tech. Mechanical Specialization



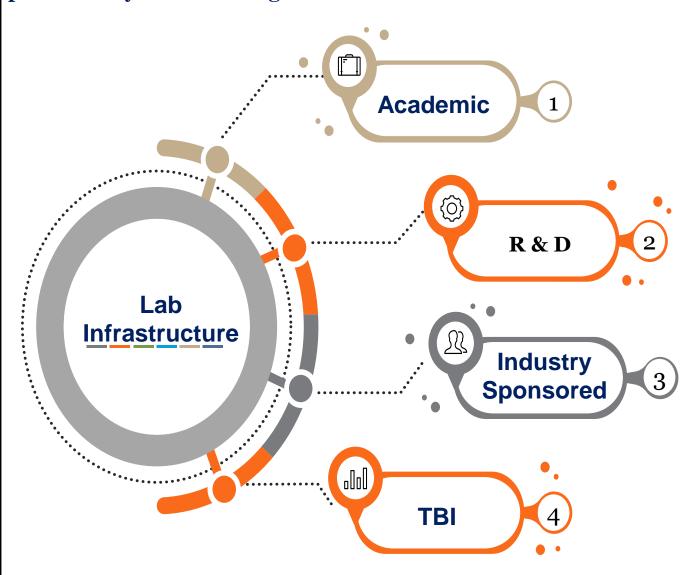
Career Opportunity

As Al 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





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 "Gentre 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 HORIZONTAL TURNING CENTRE



CNC VERTICAL MACHINING CENTRE



CNC HIGH SPEED MOVING
COLUMN VMC 8



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



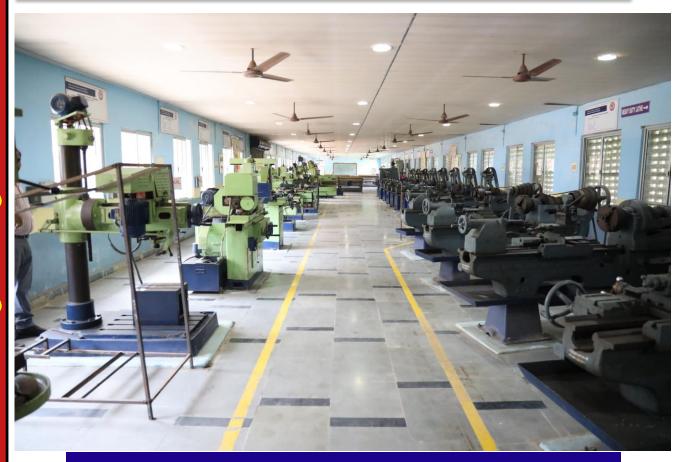
GAS TUNGESTAN ARC WELDING



CNC CMM



VISION MEASURING MACHINE



Manufacturing Technology Laboratory















Metrology and Measurement Laboratory





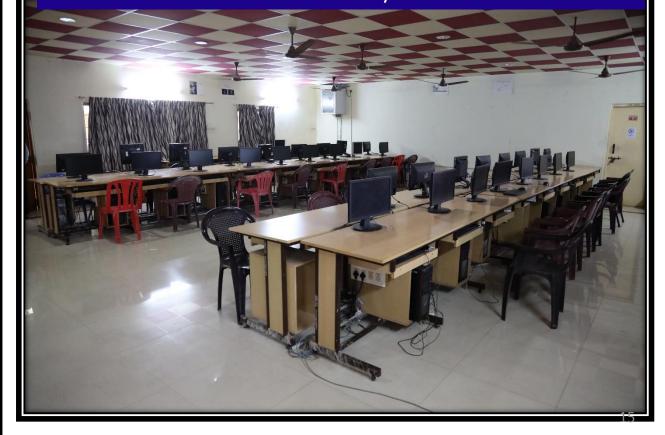
Mechatronics Laboratory





Computer Aided Design & Computer Aided Manufacturing

Laboratory

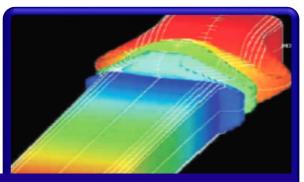


Research Laboratories



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 instruction methods as follows:

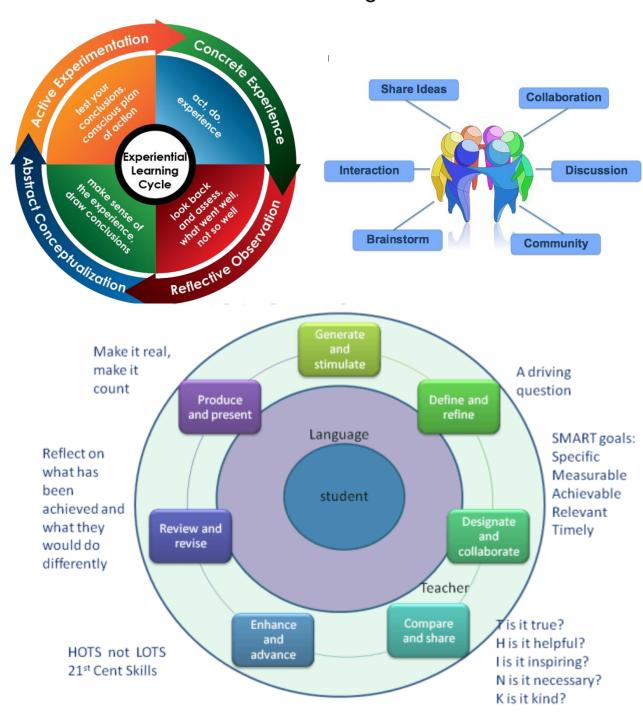
The faculty members have been facilitating students toward collaborative and experiential learning through

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

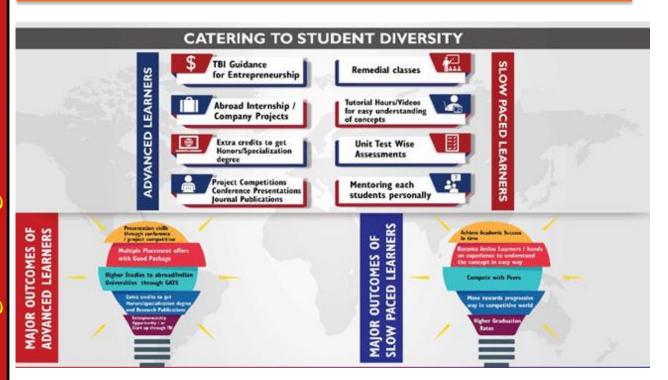


Teaching Learning process

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 approach 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

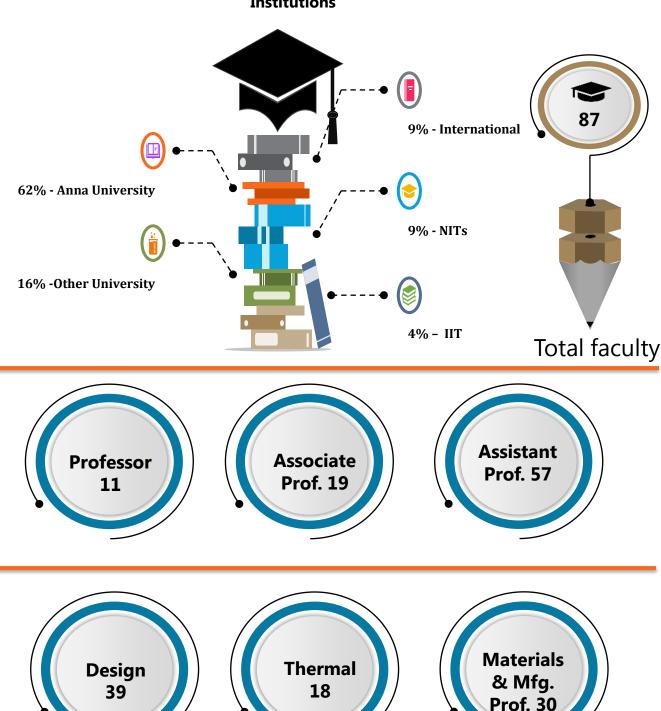


Project based Learning

4. Faculty Profile

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

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



Faculty Contribution

Faculty members 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.





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.VENKATASUDHAK AR	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 - ISRO24 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/-

25

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

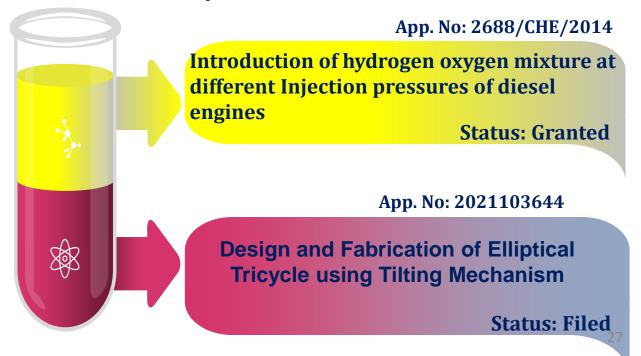
Dr. Arul Prakash Jothi.M

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



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
 - > 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) Dr. Sachin Salunkhe
 - International journal for simulation and multidisciplinary design optimization, EDP Science

Journal Reviewer: 77

Dr. Kanak Kalita

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

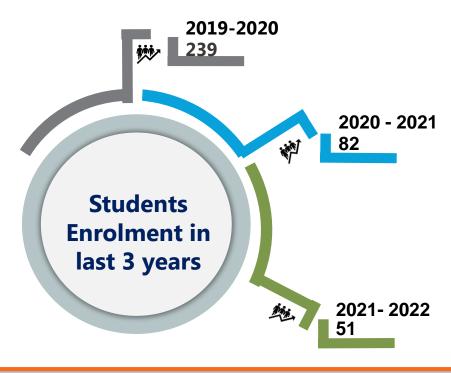
- Journal of Mechanical Science and Technology
- Journal of Brazilian Society for Mechanical Sciences and Engineering
- Rapid Prototyping Journal
- Journal of Precision Engineering and Manufacturing - Green Technology
- Journal of Industrial Textiles
- Journal of Thermoplastic Composite Materials
- Polymers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

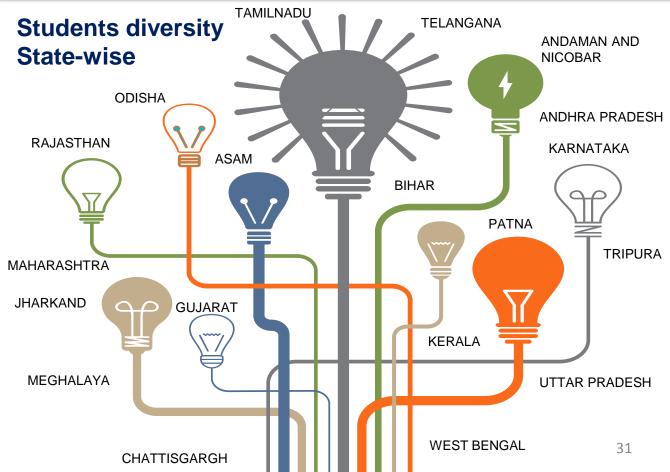
Dr. DHARMALINGAM. G

- Materials Research Express
- Australian Journal of Mechanical Engineering

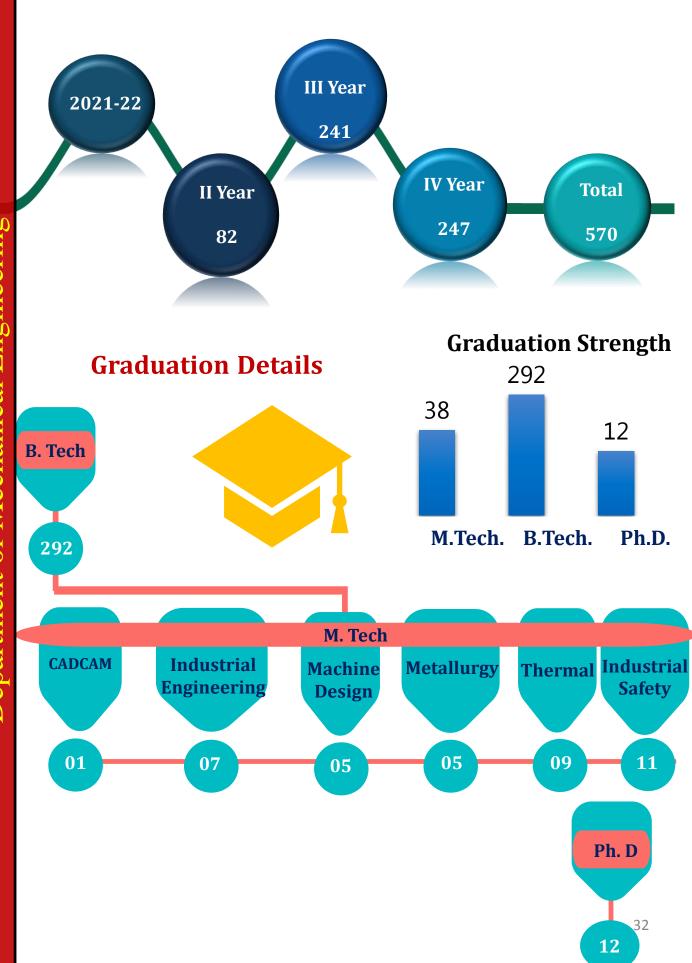
5. Students Profile

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

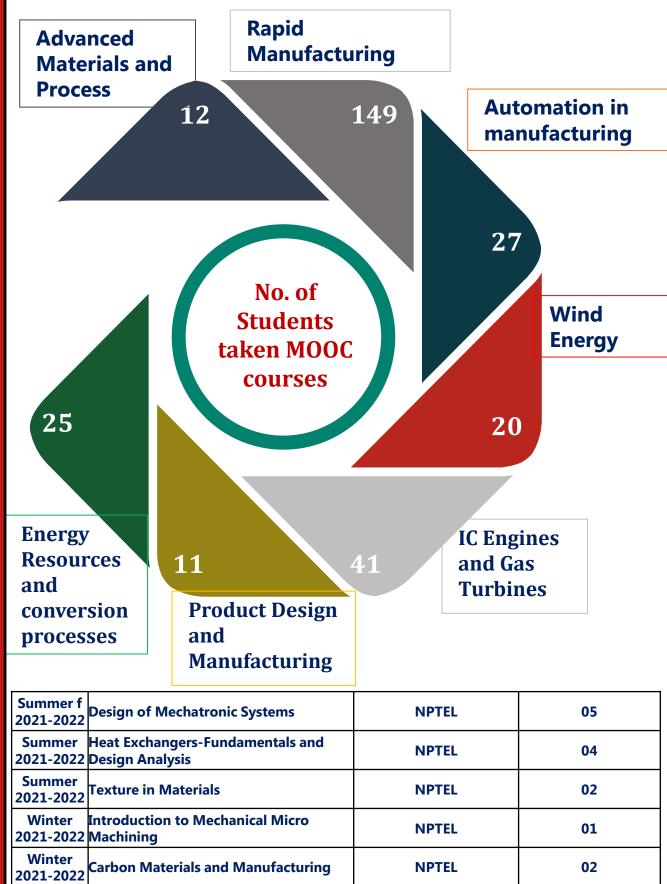




Student Admission & Graduation Details



MOOC courses taken by Students

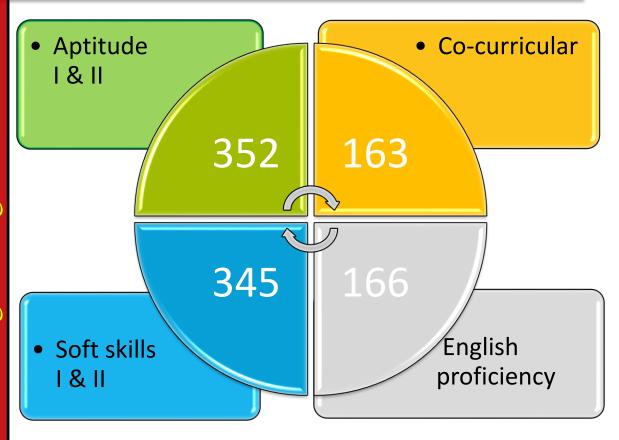


Students' Participation in Various activities 2021-2022



Students are 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







SCHOOL OF MECHANICAL AND CONSTRUCTION

Department of Mechanical Engineering

Congratulates

THE STUDENTS OF BATCH 2018-22 WHO GOT PLACEMENT IN





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



SCHOOL OF MECHANICAL AND CONSTRUCTION

Department of Mechanical Engineering

Congratulates

THE STUDENTS OF BATCH 2018-22 WHO GOT PLACEMENT IN





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





KATARI NAVEEN KUMAR VTU10937



S.M.L.N.MURTHY VTU15000







TNARESH VTU14620



ABHILASH VTU14542



J. JERIN KENNEDY VTU11635



T.ANIL VTU12859



K HRITHIK



VTU12156



MUKUL VTU11317



MD TAUQUEER VTU11690











T.ADITYA REDDY VTU1171



PRAVEEN.M VTU11365



E. KARTHI VTU11628



KUMARAN. S VTU11238



B.VAMSI KRISHNA VTU12233



KANCHARLA ABHINAV VTU12337



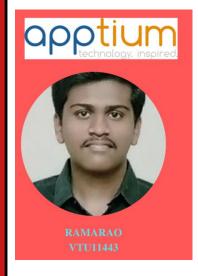
K.RATNA SAI VTU14574



RUDURU VINAY KUMAR VTU13223



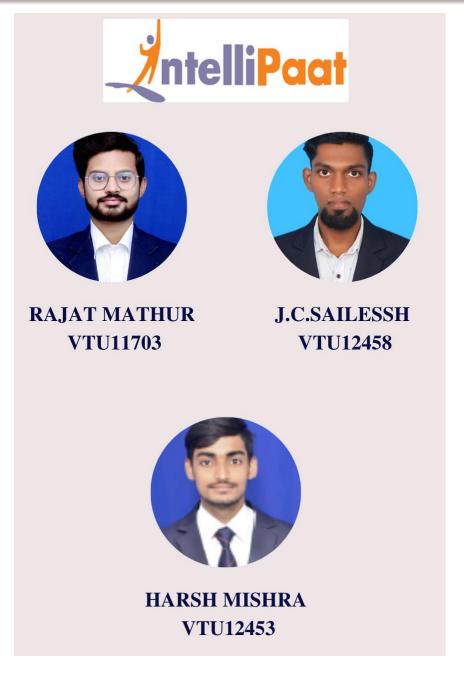
M. LOKESH VTU14553

















BALAKRISHNA M VTU12968



PRAVEEN KUMAR R VTU13208



SIMHA SS VTU14302



SANDEEP VTU14883



JAYAM MANIKANTA VTU11609



VTU13193



VISHNU VTU13336



VENKATESH D VTU14889







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





HIMAJHA VTU11051



MOHAMMED NAYEEM VTU13233

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









NIKHIL VTU11399



GEETHA RAMESH VTU14989



LAKSHMAN K VTU11430



MULA NAGENDRA REDDY VTU14619



BALE SUSANTH VTU11044



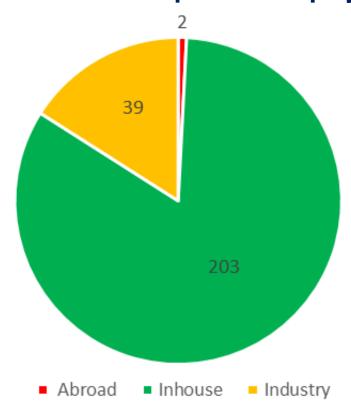
VISHAL KUMAR SINGH VTU11398

Products developed by Students

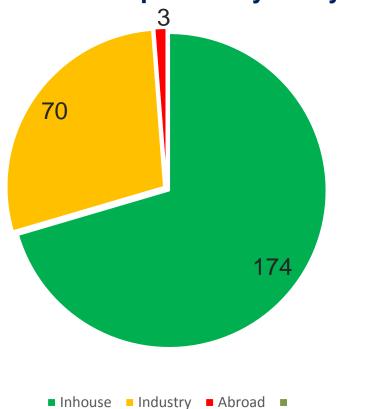


Minor and Major Projects

No.of students completed mini project

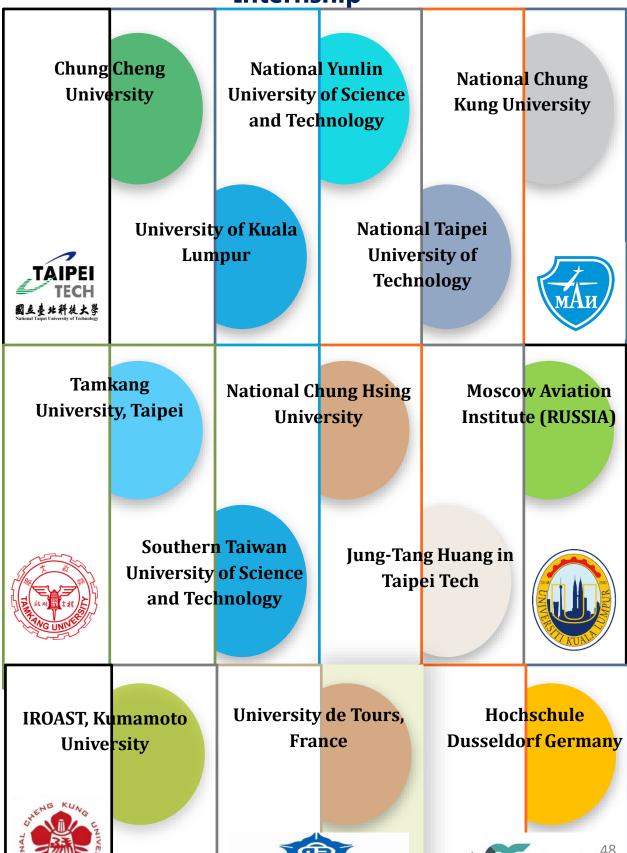


No. of Students completed Major Projects

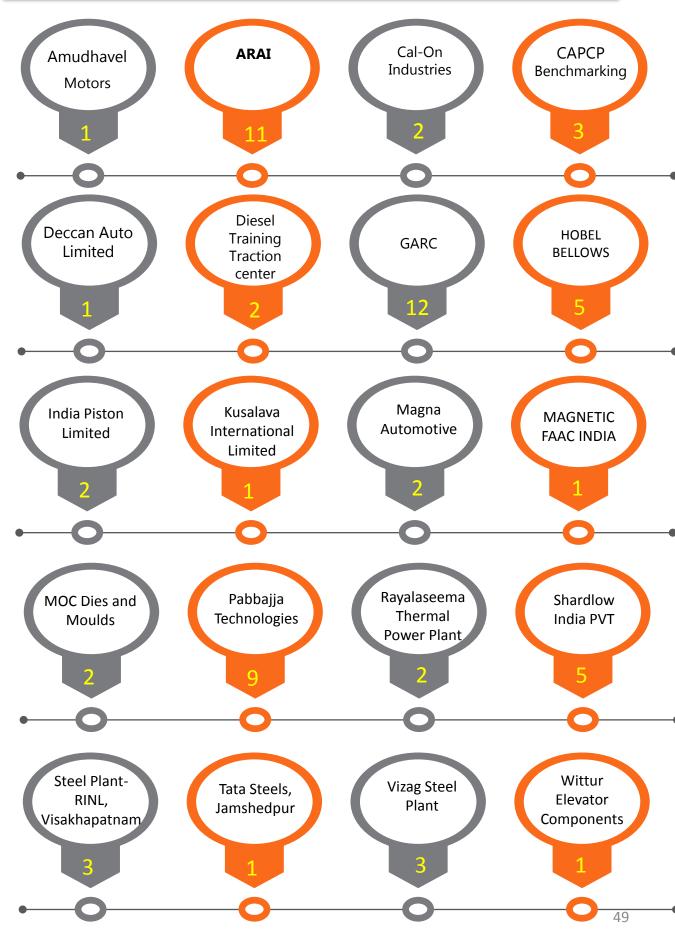


6. Industry Institute Interaction

MoU's with Foreign Universities for Student's Internship

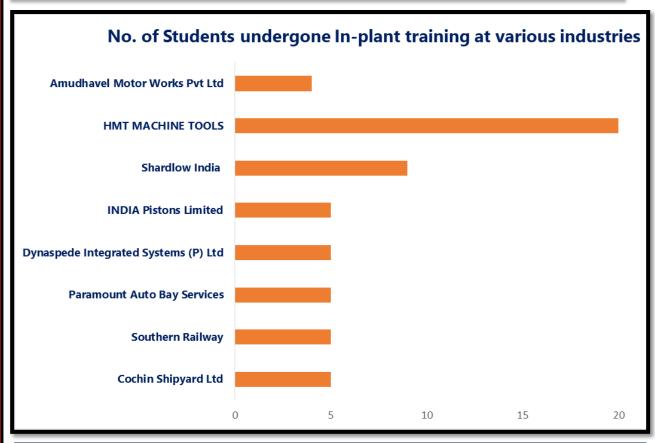


6. Industry Institute Interaction



Students Internship at various Industries

In-plant training and Internship





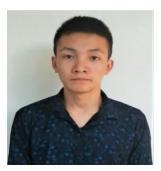
Supervisor: Prof. Dr. -Ing. habil. Ali Cemal Benim,
Professor - Faculty of Mechanical and Pr

of the wind tunnel

To Study and Analyze the Roughness of 3D Printed Inner Surface

Professor - Faculty of Mechanical and Process Engineering, Head - Center of Flow Simulation (CFS), University of Applied Sciences Düsseldorf, Germany

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































Project Expo 2021- 22



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





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

All faculty members

and students are cordially invited to

participate

Vice Chancellor

CONVENOR Dr.N.Lenin

HoD-Mech.

Link for online registration:



Mode:

https://forms.gle/6GpxPTbNZpPUTLG7A

No.42, Avadi-Vel Tech Road, Vel Nagar, Avadi, Chennai - 600062





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IN ASSOCIATION WITH



SCHOOL OF MECHANICAL AND CONSTRUCTION DEPARTMENT OF MECHANICAL ENGINEERING

Cordially invites you for three days expert lecture on

Materials for High Temperature **Applications**

(under Distinguished Visiting Professorship (DVP) scheme)

Date: 18.04.2022 to 20.04.2022 Time: 10:30 am - 12:30 pm

Venue: Wright Brothers Engineering Hive (1722)





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

CONVENOR Dr.N.Lenin

HoD-Mech.

All faculty members and students are cordially invited to participate



Link for online registration:



Mode:

Offline

https://forms.gle/PRGZTU3WX8sz1Np17

No.42, Avadi-Vel Tech Road, Vel Nagar, Avadi, Chennai - 600062









Cordially invites you for the inauguration of

IDAD'22

5th INTERNATIONAL CONFERENCE ON

Innovative Design, Analysis & Development Practices in Aerospace and Automotive Engineering 24th February, 2022

Jointly Organized by

SCHOOL OF MECHANICAL AND CONSTRUCTION & OFFICE OF RESEARCH & DEVELOPMENT

On 24th February, 2022, 9:30 a.m. through Virtual Mode



Chief Guest

Prof. Lung-Jieh Yang

Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, Taiwan

Presided by

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

Dr. Sagunthala Rangarajan

Foundress President

In the Presence of

Prof. Dr. S. Salivahanan Vice Chancellor Dr. S. Irudayaraj Dean – SoMC Dr. E. Balasubramanian Dean – R&D



SCHOOL OF MECHANICAL AND CONSTRUCTION DEPARTMENT OF MECHANICAL ENGINEERING



One Day Hands on Training on

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

25 APRIL 2022

INVITATION



DEPARTMENT OF MECHANICAL ENGINEERING SCHOOL OF MECHANICAL AND CONSTRUCTION

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

Organized by



On 25* April, 2022, 10.00 a.m. Dr. R. RAMESH KUMAR Mechanical Engineering

Col. Prof. Vel Dr. R. Rangaraja: Founder Chancellor & President

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Event held on 12 May 2022



Prize winner









London - Impact Rankings 2020













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