MECHAZINE

Volume: XXXV ISSUE: Sept, 2024

What's Inside

As we turn the page to a new academic year (2024–25), it brings us great joy to launch the first edition of Mechazine for the year.

We extend our heartfelt congratulations to the graduating batch of 2023–24 for their outstanding accomplishments—be it securing placements in reputed core companies or gaining admissions into prestigious institutions. Your journey inspires those who follow.

To our current final-year students, we wish you the same spirit of determination and excellence. May this year bring you new opportunities, deeper learning, and lasting achievements.

This edition captures the energy of the summer quarter—highlighting internships at BOSCH, student participation in ET AutoTech 2024, insightful industrial visits, and impactful faculty engagements across institutions and industries.

THE HEAD SPEAKS:

I'm pleased to present this edition of Mechazine, highlighting our department's achievements from May to August 2024. From prestigious internships at IITs and industries to impactful alumni talks, faculty development programs, and student innovations, our journey this quarter reflects growth and dedication. These experiences not only enhance technical skills but also foster professional readiness. I appreciate the collective efforts of our faculty and students and encourage continued pursuit of excellence.

– Dr. N. Naga Krishna
HoD, Mechanical Engineering

The Auto Edge

The May–August 2024 quarter marked a turning point for the Department of Mechanical Engineering, as a clear shift toward automotive technologies emerged in our academic and industry engagements.

- From e-mobility labs at VNIT Nagpur to the testing facilities at Automotive Test Systems and Simple Energy in Bengaluru, faculty and students immersed themselves in the future of mobility.
- A pre-internship talk was held at VEDIC, Bengaluru, for BOSCH, where eight final-year students explored cutting-edge topics such as hydrogen engine backfire prevention, turbocharger simulation, and electrolyzer design for green hydrogen generation.
- Further strengthening this focus, expert talks and guest sessions from Hero MotoCorp and BAJA SAEINDIA's Dr. K. C. Vora introduced students to simulation tools, new product development strategies, and design validation methods.

This growing alignment with the automobile sector not only boosts skill relevance but also paves the way for impactful careers in sustainable mobility.

Faculty visiting e-Mobility lab at NIT, Warangal

Faculty and students participating in ET Auto Summit 2024 at BAnglore

Pre-internship talk by BOSCH officials to our students at VEDIC Banglore

Expert Talk

During May–August 2024, the Department of Mechanical Engineering organized two insightful alumni talks, connecting current students with successful graduates of the department.

- Mr. N. S. V. S. Sandeep (2015–19 Batch), working as Depot Assistant Grade-3 at Food Corporation of India, delivered a talk on “Job Opportunities in PSUs and Banking Sector”. He emphasized preparing for government exams like GATE and encouraged students to pursue careers with stability, purpose, and perseverance.
- Mr. K. Hemanth (2015–19 Batch), currently a researcher at Sapienza University, Rome, shared insights on “Higher Education and Research in Design & Manufacturing”. He introduced students to topology optimization and life cycle assessment in additive manufacturing, inspiring them to pursue research-oriented careers abroad.

Mr. K. Hemanth being felicitated by our Principal and Faculty

Mr. N. S. V. S. Sandeep interacting with students during expert talk

DEPARTMENT Achievements
for the AY 2023-24

Student Achievements

SAEINDIA hBAJA 2024, NATRAX, Indore (09 - 13 Jan 2024)

WINNERS - Best Design Award, Engine Simulation Award, Sales Award, Sustainability Award, Best Acceleration Award

Overall Chamionship Runner-Up

Electric Two Wheeler Design Competition (17 - 18 Feb 2024)

SAEINDIA Southern Section, Chennai

Best Innovation Award- Third Prize

Industrial Visits

HYUNDAI, RENAULT NISSAN, ASHOK LEYLAND, MORRIS GARAGES, Brakes India Private Limited, KRISHNA ENGINEERING WORKS, AMERICAN AXLE & MANUFACTURING, SCHWING Stetter, TBEA Always Reliable, BANCO PRODUCTS (I) LTD., Mafatlal Industries Limited, Neyveli Lignite Corporation Limited (NLC)

VIJJESWARAM POWER PLANT
STAGE - I : 100 MW STAGE - II : 172 MW

Amul The Taste of India, aavin, HCCB HINDUSTAN COCA-COLA BEVERAGES PVT. LTD.

Students Internships through our Institute

IIT Hyderabad	IIT Jammu	NIT Rourkela
BHEL, Vizag	Integral Coach Factory, Chennai	Kusalava International Ltd, Vijayawada
Schwing Stetter Pvt. Ltd., Chennai	ALF Engineering Private Limited, Pune	Rane Madras Ltd, Puducherry
KONE Elevator, Chennai	L & T Heavy Engg. Works, Vadodara	Coca-Cola, Vadodara
Mungi Engineering Private Limited, Pune	TBEA Energy Private Limited, Vadodara	Thermax India Pvt. Ltd., Chennai
Vizag Steel Plant, Vizag	ONGC, Rajamahendravaram	Toyota Kirloskar Motor, Karnataka
Aeronautical Development Agency, Bengaluru	SRA Technocraft Pvt Ltd, Ahmedabad, Gujarat	Defence Research & Development Laboratory, Hyderabad
Advanced Systems Laboratory, DRDO, Hyderabad	BHEL, Hyderabad	Bharat Electronics Limited, Machilipatnam
Jay Bharat Maruti LTD (JBM Auto Ltd), Hosur	Automotive Test Systems (ATS), Bengaluru	Sarda Energy & Minerals Limited, Visakhapatnam

Recruiters for Mech. Engg. Students

Core Industry Recruiters

HYUNDAI, Hero, ASHOK LEYLAND, JOHN DEERE, MG MORRIS GARAGES, RENAULT NISSAN, Mahindra, ROYAL ENFIELD, KIA MOTORS, TATA TECHNOLOGIES, JBM Group, KEYENCE, TAFE, FLOWLINK, CATERPILLAR, THERMAX, NETAFIM, BLUE STAR, Rane, NATIONAL INSTRUMENTS, TOSHIBA, BlueRay Aviation, ACE DESIGNERS, SIEMENS energy, Zen Technologies

Software Company Recruiters

Capgemini, wipro, tcs TATA CONSULTANCY SERVICES, Infosys, virtusa, Meeami TECHNOLOGIES, cognizant, urjanet, accenture, suneratech, CYIENT, Everglade, Principal, Tech Mahindra, CSS CORP, NEXA DIGITAL ENGINEERING

Some of our ALUMNI Working in Reputed Organizations

Y. PUSHPA VARDHINI
(21PA5A0332)
Hero Motocorp Ltd
9 LPA

K. SAI SRINIVAS
(21PA5A0317)
Hyundai Motors
8.5 LPA

P. SANDHYA
(20PA1A0382)
TATA Technologies
5.5 LPA

K. TEJA
(20PA1A0352)
MG Motors
7 LPA

K. DAAKSHINYA
(20PA1A0356)
SIEMENS Energy
5 LPA

B. SONENDRA
(20PA1A0310)
Mahindra & Mahindra
8 LPA

K. VAISHNAVI
(20PA1A0355)
CYIENT
4.2 LPA

B. RANGA RAO
(20PA1A0317)
Accenture
4 LPA

K. JAHNAVI
(20PA1A0349)
Blue Star
6.2 LPA

B. ARYAN RAM
(20PA1A0312)
Keyence
5.5 LPA

For more details, visit www.vishnu.edu.in

Contact: Mob. No: 9912905961, 9666625275. Email id: hod_me@vishnu.edu.in

Academic Connects

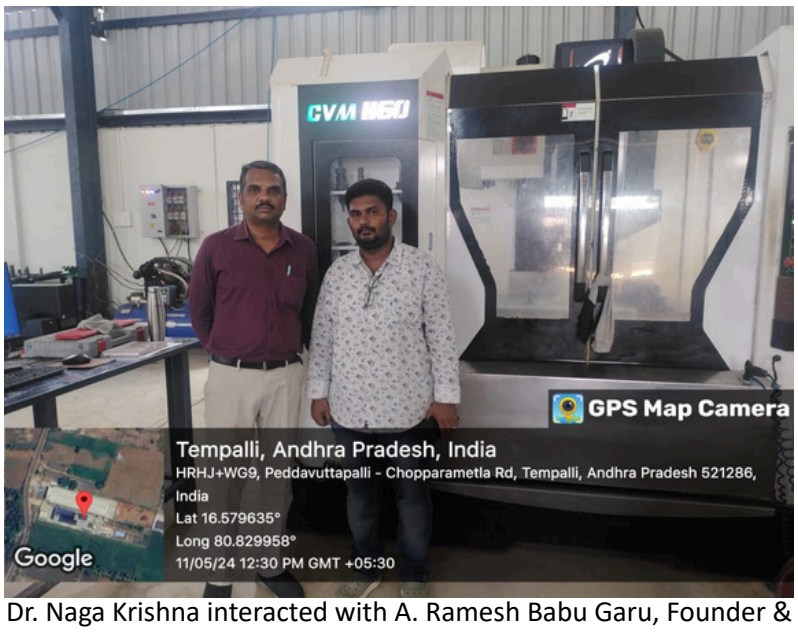
Faculty Visits & Institutional Ties

In an effort to strengthen academic collaboration and keep pace with industry advancements, faculty from the Department of Mechanical Engineering actively engaged with premier institutions and industrial partners during May–August 2024.

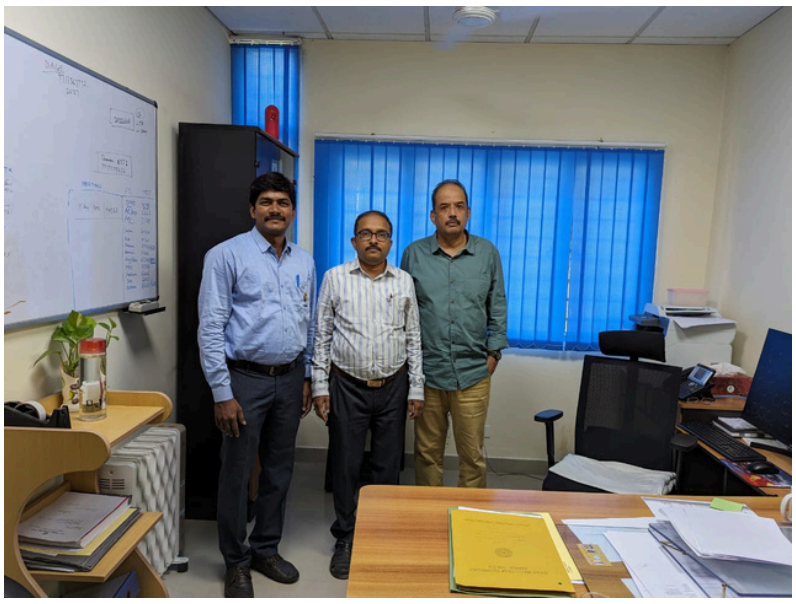
- Mr. D. Vamsee Krishna and Mr. M. Vinod visited VNIT Nagpur, exploring the E-Mobility and Vehicle Dynamics Labs and the Siemens Center of Excellence.
- Faculty teams led by Dr. N. Naga Krishna and Mr. M. Praveen visited industries in Kakinada and Gannavaram, including Coromandel International Ltd., Ramesh's Aerospace, and Apex Castings, forging opportunities for student internships and industrial visits.
- Visits to Automotive Test Systems (ATS) and Simple Energy, Bengaluru, gave insight into advanced testing for electric vehicles, batteries, and structural components.
- Visited IIT Kanpur and interacted with faculty from Control Systems, Semiconductor Labs, and the R&D division, enhancing institutional ties and exploring future collaboration.

These visits opened doors to internships, research partnerships, and future MoUs, reinforcing our department's industry and academic relevance.

Students visit to TVS motors, Hosuru



Dr. Naga Krishna interacted with A. Ramesh Babu Garu, Founder & CEO of Ramesh's Aerospace Products & Services Pvt. Ltd.



Mr. M. Praveen and Dr. K. Vamshi Krishna at IIT Kanpur

TechPulse

- India’s First eVTOL Prototype Cleared for Hover Test

The startup ePlane Company, from IIT Madras, completed ground testing of India's first electric Vertical Take-Off and Landing (eVTOL) vehicle in April, a leap in urban air mobility and mechanical control systems.

- MIT Develops Shape-Shifting Soft Robot Using Liquid Metal

MIT engineers created a soft robot powered by gallium-based liquid metal. It changes shape in real-time, opening doors to biomechanics, adaptive machinery, and surgical robotics.

- BMW Unveils Hydrogen-Powered SUV Prototype

BMW showcased a working prototype of its iX5 Hydrogen SUV, blending fuel cell tech with hybrid systems. The model aims for zero-emission long-distance travel with fast refueling—positioning hydrogen as a serious EV alternative.

What is a eVTOL Vehicle?

eVTOL stands for electric Vertical Take-Off and Landing aircraft. These are next-generation flying vehicles that use electric power to lift off and land vertically, like helicopters, but are quieter, cleaner, and more efficient. Designed for urban air mobility, eVTOLs aim to reduce traffic congestion by offering short-distance aerial transport for passengers or cargo. Powered by batteries or hybrid systems, they are at the forefront of future transportation technology.

Gallery

Placement data for 2020-24 batch

Second and third year students participating in PIVOT workshop

Students of 3rd year B.tech, ME participating in Hands-on Training in Basics of 3D Designing & Printing at Indian Biomedical Skill Consortium (IBSC) in Vizag.

Dr. Tessy Thomas – India’s Missile Woman

Hailing from a small Kerala town, Dr. Tessy Thomas overcame gender barriers to become the Project Director of Agni-IV, one of India’s major missile projects—proving that determination knows no bounds.

CHAIR:
Dr. N. Naga Krishna

EDITORS:
Mr. D. Vamsee Krishna
Mr. N. Manikanta

IMAGES:
DEPARTMENT PHOTOGRAPHY CLUB

STUDENT COORDINATORS:
Mr. K. V. Sandeep
Mr. A. Shanmukh
Mr. N. Chandu

VISHNU INSTITUTE OF TECHNOLOGY
WE UNITE, TO BE ELITE
ASSOCIATION OF MECHANICAL ENGINEERS
VISHNU
VISHNU
UNIVERSAL LEARNING