Mechanical & Automotive CAD

- **Design products using CAD**
- **CAD tool – Creo, CATIA V5**
- **Knowledge on sheet metal and plastics**
- **Capability to understand/ apply GD&T**
- **Work on concepts in 3D-model using CATIA V5, Creo**
- **Strong computer skills with proficiency in 3D CAD systems and FEA.**
- **Provide technical support to suppliers and other departments to fulfil project and production needs.**
- **Understand requirements to design and perform unit level verifications to conform with requirements.**
- **Develop specifications by using CAD tools like CATIA, Creo for modeling, assembly, detailing including drawing conversions and generating BoM.**

Mechanical & Automotive CAE

- **Creation of CAE Models.**
- **Trims, sheet metal and boundary modelling.**
- **Expertise in CAE pre-processor tools.**
- **Modelling of interior trim components like IP, Console, Door trims & hard trims.**
- **Expertise in solid modelling in HM.**
- **Ability to prepare reports for CAE analysis.**
- **Able to perform quality checks/review.**
- **Able to perform de-penetration & do connection in system level.**
- **Experience in FEA analysis of automotive systems & sub systems.**
- **Design review support for the designers.**

Research and Consultancy

- Completed the research project with sanctioned amount of ₹ 9.3 Lakhs by ARDB, DRDO New Delhi.
- Two ongoing research projects worth ₹5.99 Lakhs from JNTU, Hyderabad
- Seed Money: SAE Japan 2011 ₹6.25 Lakhs, SAE Japan 2012 ₹7.5 Lakhs, Electric Vehicle with Hub Motors ₹ 1.47 Lakhs, Campus e-Vehicle ₹49,000/-, SAE Supra 2018 ₹ 25,000/.

- Development of 8-seater electric vehicle for mobility with VNRVJIET campus.

- Design & Development of foldable electric bike.
- ISTE award for the project titled “Development of Foldable Electric Bike” under the guidance of Dr. Shaik Amjad, Professor, AE in the year 2018.

- Mr. M. Krishna-Assistant Professor is certified in AutoCAD and Creo Parametric from NIMSME, Hyderabad.
- Mr. MohamadAziz Athani, Assistant Professor, has **2.6 years** of industry experience in Automotive CAE domain.

- Mr. MohamadAziz & Mr. Balappa H are working with a group of five students for a start-up project from T-Hub.

- Total research publications are 62 and Scopus h-index range from 1 to 6 with impact factor range from 0.56 to 5.841.

- Department has ten patent publications.

CAD/CAE EXPERTISE FOR CONSULTANCY

TAMASOMA JYOTIRGAMAYA
Estd. 1995

Department of Automobile Engineering

VNR Vignana Jyothi Institute of Engineering and Technology

An Autonomous Institute & Accredited by NAAC with ‘A++’ Grade
Vignana Jyothi Nagar, Pragathi Nagar,
Nizampet (S.O.), Hyderabad
Telangana-500090

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About Department

The Department of Automobile Engineering established an undergraduate programme in the year 2010. Keeping itself up-to-date with the latest developments in the field with a dedicated team of highly qualified and experienced faculty in various streams of Automobile Engineering, the department consistently strives to provide world-class facilities for education and research. The Department has laboratories with modern equipment, well-furnished seminar hall and a library with a collection of various journals, magazines and books. The department also maintains a close liaison with a number of industries through faculty research and collaborative projects. Provide training & skills to create awareness in identifying industry relevant problems are the special characteristic of the programme offered by the department. Faculty members are continually publishing the results of their research work as technical papers in international and national journals and conferences. The department trains the students to meet the technological challenges and diverse needs of the industry and society in various areas of automobile engineering and equips them to excel in a truly competitive industry.

List of Software available in the Department

ADAMS 17.0

About VNRVJIET

Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology (VNRVJIET) was established by the Vignana Jyothi Society, a not-for-profit organization, in the year 1995. Education determines a society's growth and development. With a motto to provide value-based higher education on par with international standards, the Philosophy of Vignana Jyothi unravels education as a process of "Presencing" that provides, both individually and collectively, to one's deepest capacity to sense and experience the knowledge. This process, along with a conscientious will to put Success and Happiness first leading to a better future has put VNRVJIET at the forefront of academic excellence. The Institute is approved by AICTE and is affiliated to JNTU-H. It offers 13 UG programmes, 13 PG programmes, and Ph.D. programmes under NDF scheme of AICTE & JNTUH — the only Institute in the Telangana State to get this recognition! — Thus imparting quality education to over 6500 students.

Other Highlights and Accomplishments:

- ISO 9001:2015 Certified
- Accredited by NAAC with A++ grade (CGPA: 3.73/4.0)
- Host Institute for MSME Business Incubator (BI)
- Recognised by UGC as "College with Potential for Excellence" (CPE)
- NIRF: 127th rank (Engineering) 151–200 Rank Band overall
- Autonomous status under UGC until the Academic Year 2027–'28

Expertise of the Faculty

Dr. M. Venkata Ramana
M.Tech. (Advanced Manufacturing Systems)
Area of Expertise- Mechanical & Automotive CAD
Creo, AutoCAD, CNC programming

Mr. T. Praveen Kumar
M. E. (Machine Design)
Area of Expertise- Mechanical & Automotive CAD
Creo, CATIA, AutoCAD
Analysis software-Ansys

Mr. M. Krishna
M. E. (CAD/CAM)
Area of Expertise- Mechanical & Automotive CAD
Creo, CATIA, AutoCAD, CNC programming

Mr. MohamadAziz Athani
M. Tech. (Production Engineering)
Area of Expertise- Mechanical & Automotive CAE
HyperWorks- F.E Modelling and Analysis

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Dr. T. Srinivasa Rao

Prof. & Head – Department of Automobile Engineering

Dr. C. D. Naidu

Principal, VNRVJIET

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