



SIDDHARTHA ACADEMY OF HIGHER EDUCATION

An Institution **DEEMED TO BE UNIVERSITY**

(Under Section 3 of UGC Act, 1956)

Kanuru, Vijayawada - 520 007, AP. www.vrsiddhartha.ac.in

91 866 2582333

866 2582334

866 2584930



Report on SAHE – ISTE Student Chapter Activities for the AY: 2025-26

S. No.	Name of the Activity	Date	Page No.
1.	Mechanical Engineering In The Age Of AI (Alumni lecture series session-1)	25-08-2025	2
2.	Design For Manufacturing & 3D Printing (Alumni lecture series session-2)	26-08-2025	6
3.	Mechanical Engineering & Energy Efficiency (Alumni lecture series session-3)	06-09-2025	11
4.	Alumni Lecture Series on “Education-The Currency of the future”	02-01-2026	15
5.	Idea To Impact Challenge Smart & Sustainable Solutions For Everyday Life	08-01-2026	18
6.	ZENITH QUEST – Challenging Minds Across All Disciplines	16-02-2026	23


Mechanical Engineering In The Age Of AI

(Alumni Lecture Series Session-1)

A Guest Lecture is organized by the department of Mechanical engineering in association with ISTE Student Chapter on "MECHANICAL ENGINEERING IN THE AGE OF AI" on 25th August 2025 in ME seminar Hall for third year students under ISTE Student Chapter in association with department of ME.


Guest: G. SASI KIRAN, Doctoral Research at TIB-Leibniz information center for science and Technology, Germany.

Batch: 2014-2018 Alumni



SIDDHARTHA
ACADEMY OF HIGHER EDUCATION
An Institution **DEEMED TO BE UNIVERSITY**
(Under Section 3 of UGC Act, 1956)
(Sponsored by Siddhartha Academy of General & Technical Education), Vijayawada, A.P.

Department of Mechanical Engineering
In Association with ISTE Student Chapter




Alumni Lecture Series Session -1

MECHANICAL ENGINEERING IN THE AGE OF AI

Date:
25th August 2025

Time:
11.30AM

Invited Speaker:
Mr. G. SASI KIRAN
Doctoral Researcher at
TIB-Leibniz information Center for
Science and Technology, Germany.
(2014-2018) Alumnus



Venue: ME Seminar Hall

Targeted Audience:
III/IV B.Tech ME Students

Faculty Coordinator:
Dr. G. Jamuna Rani,
Assistant Professor, ME Department, SAHE

Student Coordinators:
L. Ramya Sri
III/IV B.Tech

M. Srinivasa Reddy
III/IV B.Tech

Sasi Kiran Gaddipati is a Research Scientist specializing in large language models and reasoning in science. His work focuses on advancing how AI can support scientific discovery, knowledge organization, and human-AI collaboration. Before his current role, Sasi Kiran worked as a Data Scientist at ensun GmbH software company in Germany, where he developed semantic search engines, built large-scale data pipelines, and integrated LLMs into search systems. His earlier academic journey reflects the same drive toward AI and automation. He earned his Master's degree in Autonomous Systems from Bonn-Rhein-Sieg University of Applied Sciences, focusing on automated semantic methods for grading student short answers. Prior to that, He completed his Bachelor's in

Mechanical Engineering from V.R. Siddhartha Engineering College, where he was awarded the gold medal as the Best Outgoing Student of Mechanical Engineering 2018



ISTE student chapter faculty coordinator **Dr.G. Jamuna Rani** interacting with students about the session

AI in MECH

- Predictive maintenance
 - Machines that tell you before they break down?
- Industrial Digital twins
 - The Matrix, but for engines.
- Quality Control with Computer Vision
 - AI can find defects faster.
- Generative Design
 - Prompt to design
- Smart Manufacturing / Industry 4.0
 - Self-adjusting machines, and adaptive production.
- And many more ...



G. Sasi Kiran Sir highlighted that Artificial Intelligence (AI) is no longer limited to computer science but has strongly entered the mechanical engineering field. He explained that AI is revolutionizing areas such as design, manufacturing, maintenance, and quality control. With the help of AI, machines are becoming smarter and capable of self-diagnosis, predictive maintenance, and process optimization.

He mentioned that AI-powered simulations help in design for manufacturing, reducing errors and saving time. In industries, predictive analytics using AI prevents sudden breakdowns of machines by forecasting failures in advance. Robotics and automation integrated with AI are improving production efficiency and reducing human effort in hazardous environments.

Sir also emphasized that AI is enabling smart materials, intelligent control systems, and adaptive manufacturing, which are shaping the future of mechanical engineering. Ultimately, AI is not replacing mechanical engineers, but rather enhancing their capabilities by combining data-driven insights with engineering knowledge.



Mr. G. Sasi Kiran explaining the applications of AI in Mechanical Engineering



HOD Dr. N. Ravi Kumar interacting with the students

Around 100 Students are participated in the session and a good feedback is received from the students



Design For Manufacturing & 3D Printing

(Alumni Lecture Series Session – 2)

A guest lecture is organised by the department of Mechanical Engineering in association with ISTE Student Chapter on “DESIGN FOR MANUFACTURING & 3D PRINTING” on 26th August 2025 in ME seminar Hall for third year students.

Guest: Mr.T.RAJA SURYA MAHESH , Mechanical Design Engineer, Asea Brown Boveri (ABB) Company, Sweden

Batch: 2014-2018

Alumni Mahesh Thammisetty is currently working as a Lead Design Engineer at ABB, specializing in Computer-Aided Design (CAD) and Finite Element Method (FEM) analysis.

Mahesh completed his Master’s degree in Additive Manufacturing at Uppsala University, Sweden, in 2022. During his studies, he focused on designing components optimized for 3D printing and carried out research on material behavior and performance within additive manufacturing processes.

He began his academic journey with a Bachelor’s degree in Mechanical Engineering at VR Siddhartha Engineering College, which laid the foundation for his expertise.

SIDDHARTHA
ACADEMY OF HIGHER EDUCATION
An Institution DEEMED TO BE UNIVERSITY
(Under Section 3 of UGC Act, 1956)
(Sponsored by Siddhartha Academy of General & Technical Education, Vijayanagara, A.P.)

Department of Mechanical Engineering
In Association with ISTE Student Chapter

Alumni Lecture Series Session -2
DESIGN FOR MANUFACTURING & 3D PRINTING

Date:
26th August 2025

Time:
11.30AM

Invited Speaker:
Mr. T. RAJA SURYA MAHESH
Mechanical Design Engineer,
Asea Brown Boveri (ABB) company,
Sweden.
(2014-2018) Alumnus

Venue: ME Seminar Hall

Targeted Audience:
III/IV B.Tech ME Students

Faculty Cordinator:
Dr. G. Jamuna Rani,
Assistant Professor, ME Department, SAHE

Student Cordinators:
L. Jahnavi
III/IV B.Tech
KVNDSS Aditya
III/IV B.Tech

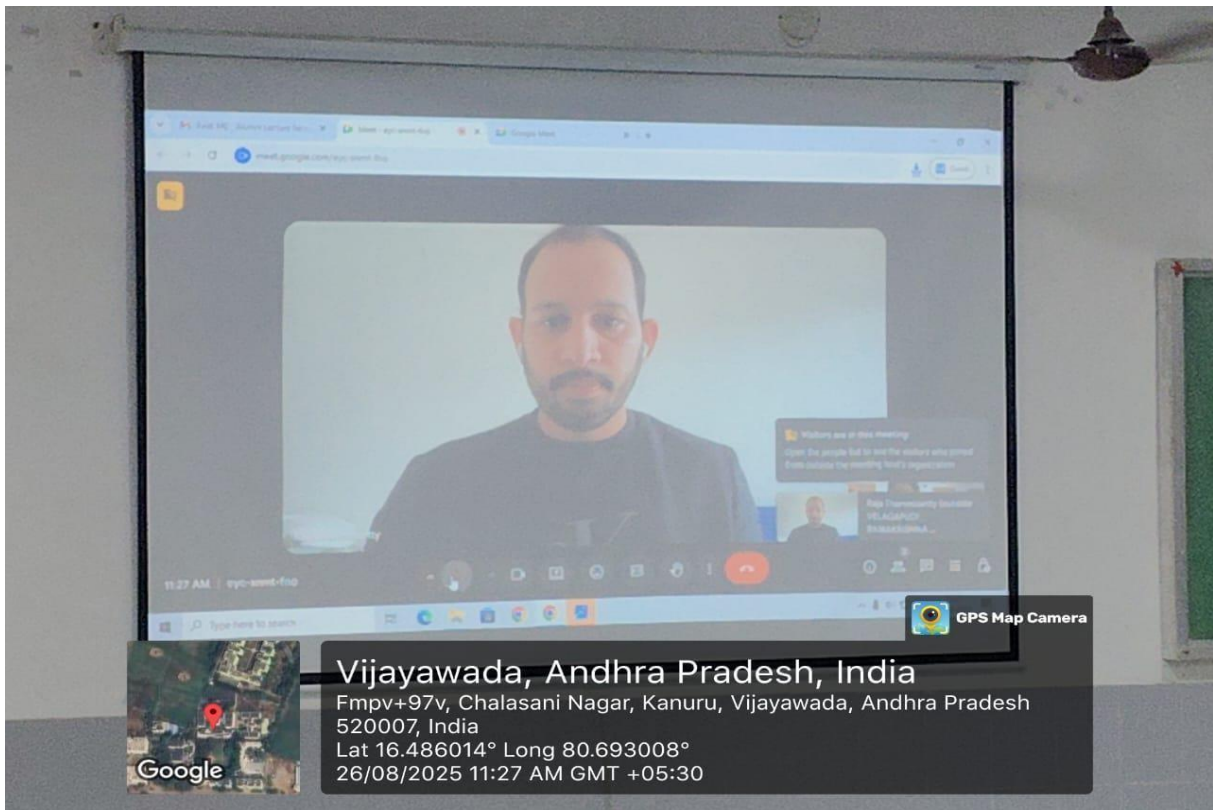


ISTE student chapter faculty coordinator **Dr. G. Jamuna Rani** addressing the gathering

Mahesh Thammisetty Sir explained that Design for Manufacturing (DFM) is all about creating products in such a way that they can be made easily, cost effectively, and with fewer errors. It helps engineers reduce unnecessary complexity, select the right materials, and ensure that the product can be manufactured with the available processes.

He also highlighted that 3D Printing (Additive Manufacturing) is changing the way we design products. Unlike traditional manufacturing, 3D printing allows us to build parts layer by layer, which gives freedom to create complex shapes, lightweight structures, and even customized products. This technology reduces waste, shortens development time, and encourages innovation.

Sir emphasized that when we combine DFM with 3D printing, it opens up new opportunities—designers can focus on functionality, strength, and efficiency rather than being restricted by conventional methods. This integration is especially useful in industries like aerospace, automotive, and health care.

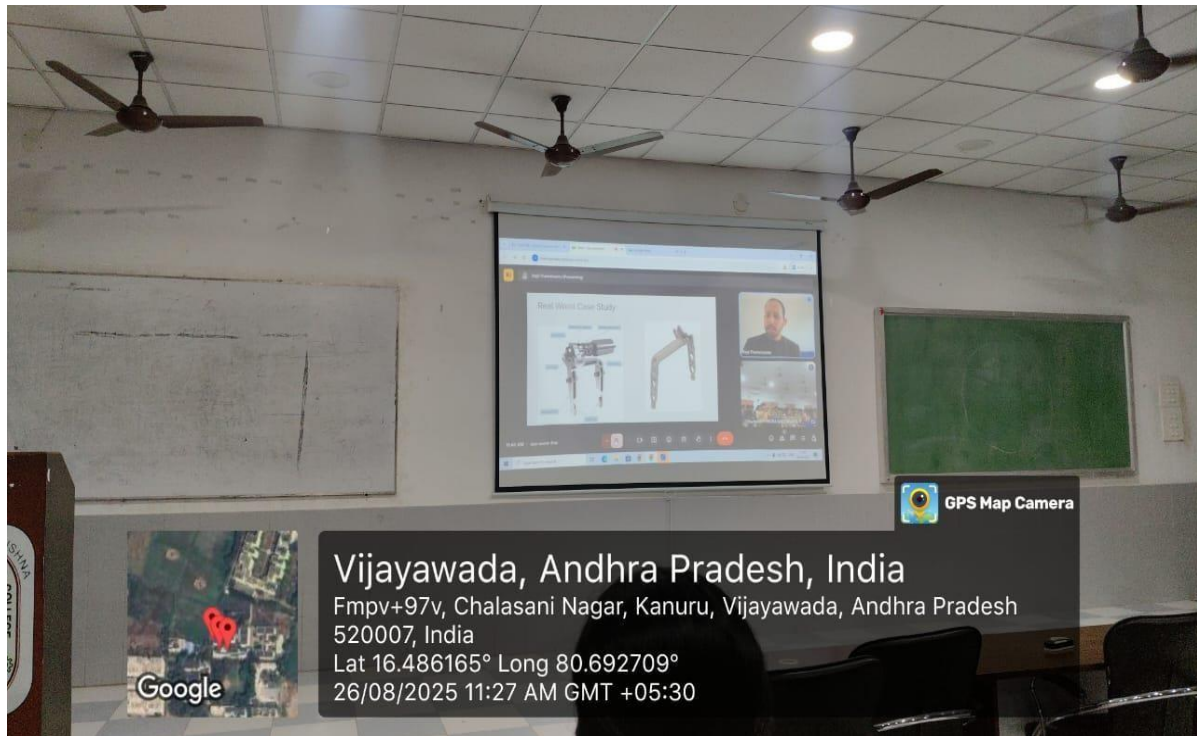


Interaction of Guest **Mr.Mahesh Thammisetty** with Students and Faculty



Mahesh Thammisetty Sir also shared a real-world case study where Design for Manufacturing and 3D Printing played a crucial role.

He explained how Airbus, the aerospace company, redesigned their cabin brackets using DFM principles and produced them with 3D printing. In traditional manufacturing, these brackets were made from solid metal blocks, which led to material wastage and extra machining steps. By applying design for manufacturing and using additive manufacturing, Airbus engineers created a lighter, optimized design with the same strength but reduced the weight by nearly 30–55%



Mr.Mahesh Thammisetty explaining about real world case study



HOD Dr. N. Ravi Kumar discussing about the session



Faculty and students attended the Session



Mechanical Engineering & Energy Efficiency

(Alumni Lecture Series Session-3)

A Guest Lecture is organized by the department of Mechanical engineering in association with ISTE Student Chapter on “MECHANICAL ENGINEERING & ENERGY EFFICIENCY” on 6th September 2025 in ME seminar Hall for second year and third year students.

Guest: Mr . D. RAGHUVVEERA SAI SARATH, Energy Modeling Specialist at FCM, (Federation of Canadian Municipalities),CANADA

Batch: 2014-2018 Alumni

Mr. Raghuvveera Sai Sarath Dittakavi, an accomplished alumnus of VRSEC, is currently working as an Energy Modeling Specialist at the Federation of Canadian Municipalities, Canada. His work focuses on advancing projects in energy efficiency, clean energy technologies, and climate action, supporting communities across Canada in building sustainable and resilient futures.

He holds a B.Tech in Mechanical Engineering from VRSEC and a Master of Applied Science in Mechanical Engineering from the University of Windsor, Canada. With research expertise in renewable energy, energy storage systems, and sustainable building design, he has grown into a specialist at the intersection of engineering and sustainability. His journey from a passionate student to a professional contributing to national-level sustainability initiatives continues to inspire.

SIDDHARTHA
ACADEMY OF HIGHER EDUCATION
An Institution DEEMED TO BE UNIVERSITY
(Under Section 3 of UGC Act, 1956)
(Sponsored by Siddhartha Academy of General & Technical Education), Vijayawada, A.P.

Department of Mechanical Engineering
In Association with ISTE Student Chapter, SAHE

Alumni Lecture Series Session -3
MECHANICAL ENGINEERING & ENERGY EFFICIENCY

Invited Speaker:
Mr. D. RAGHUVVEERA SAI SARATH
Energy Modeling Specialist at FCM,
(Federation of Canadian Municipalities),
CANADA.
(2014-2018) Alumnus

Date:
06th September 2025

Time:
9.30AM to 10.30AM

Venue: ME Seminar Hall

Targeted Audience:
III/IV B.Tech ME Students

Faculty Coordinator:
Dr. G. Jamuna Rani
Assistant Professor, ME Department, SAHE

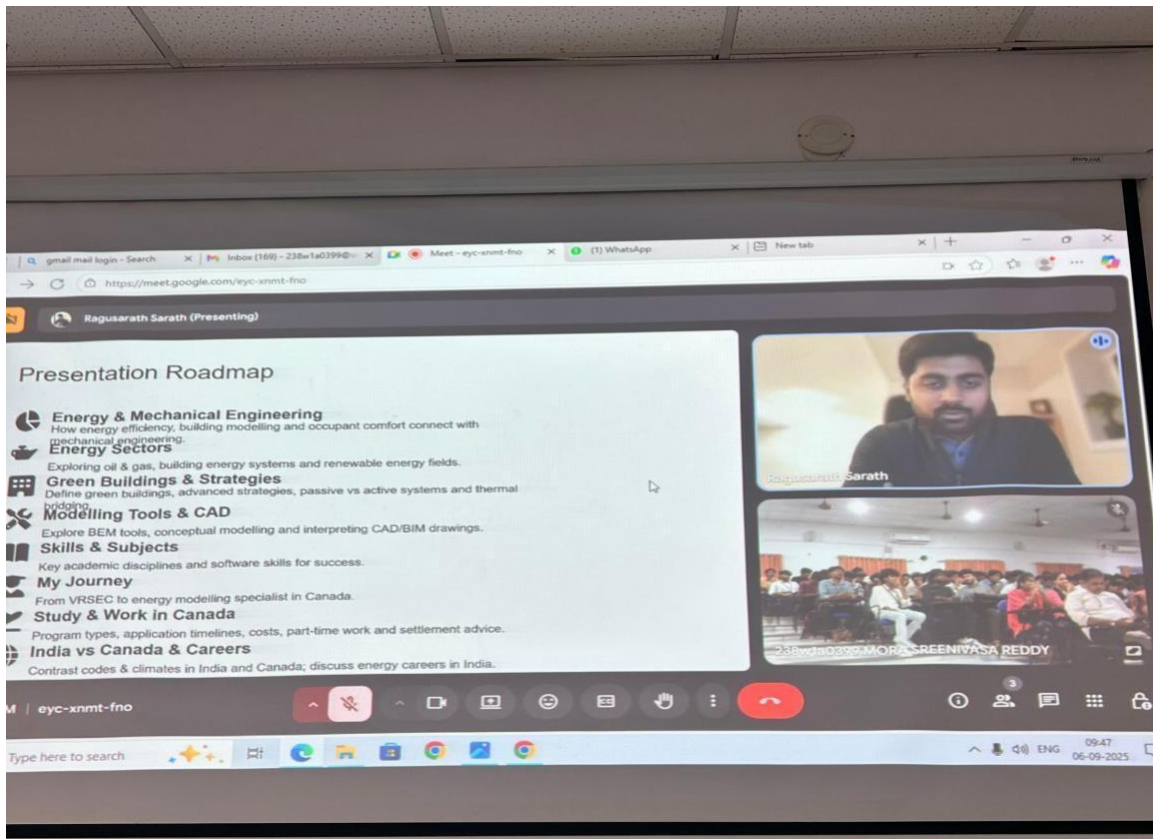
Student Coordinators:
M. Sreenivasa Reddy **KVNDSS Aditya**
III/IV B.Tech III/IV B.Tech



ISTE student chapter faculty coordinator **Dr. G. Jamuna Rani** addressing the gathering

Mr. Sarath explained that energy efficiency lies at the heart of modern mechanical engineering, as it ensures machines, systems, and processes deliver maximum output with minimum energy input. By applying principles of thermodynamics, fluid mechanics, and materials science, mechanical engineers design solutions that reduce friction, heat loss, and overall inefficiencies. He pointed out how these principles are applied across industries—such as efficient HVAC systems in buildings, fuel-efficient engines in automobiles, and optimized renewable energy storage systems—demonstrating how mechanical engineering directly contributes to conserving energy and reducing operational costs.

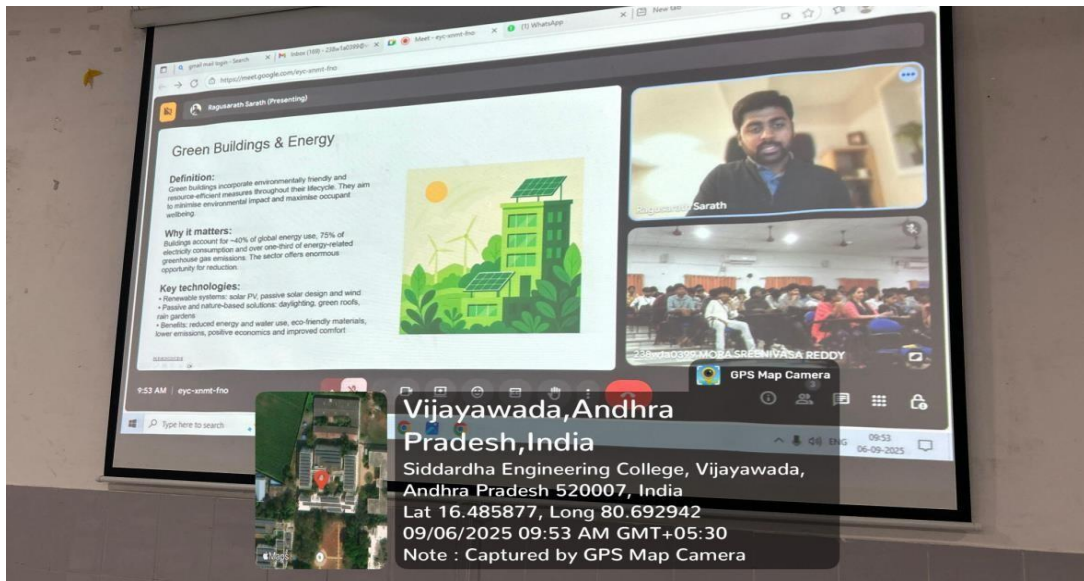
He further emphasized that energy efficiency is not just about cost savings but also about sustainability and climate action. By integrating efficiency into mechanical systems, engineers play a vital role in reducing greenhouse gas emissions and promoting clean energy use. According to Mr. Sarath, this places mechanical engineers at the forefront of building a greener and more resilient future. He encouraged students to see energy efficiency as both a technical challenge and a social responsibility, where their skills can create meaningful impact for society.



Interaction of Guest **Mr. D. Sarath** with Students and Faculty

Mr. Sarath explained that green buildings are designed to reduce environmental impact while improving efficiency and comfort. With features like energy-efficient HVAC systems, better insulation, and renewable energy integration, these buildings consume less power and create healthier spaces. Mechanical engineering plays a vital role in making such designs practical and effective.

He also highlighted that energy efficiency is the foundation of green buildings. By optimizing lighting, heating, cooling, and ventilation, engineers not only lower energy costs but also reduce greenhouse gas emissions. Mr. Sarath encouraged students to see green buildings as a way to combine engineering skills with sustainability to build cleaner and smarter communities.



Mr. D. Sarath explaining about Green Buildings



Faculty and students attended the Session



Alumni Lecture Series on “Education-The Currency of the future”

ECE Distinguished Alumni Lecture Series on “Education-The Currency of the future” was conducted on 2nd January 2026.

Guest: Dr.Narasimha Reddy Urimindi, Distinguished Engineer, Verizon, Dallas/Fort Worth Area

Batch: 1984-1988

Dr. Narasimha Reddy Urimindi delivered an insightful lecture on the theme “Education: The Currency of the Future”, emphasizing the transformative role of education in shaping careers and society. Drawing from his vast professional experience at Verizon, he highlighted how continuous learning, adaptability, and technological proficiency are essential in today’s rapidly evolving world. He encouraged students to focus on building strong fundamentals, developing analytical thinking, and staying updated with emerging trends in engineering and technology.

Dr. Urimindi stressed the importance of aligning academic knowledge with industry requirements, urging students to actively participate in internships, research activities, and collaborative projects. He also discussed the value of innovation, lifelong learning, and global exposure in achieving professional success. His session motivated students to view education as a powerful tool for personal growth and future opportunities, inspiring them to prepare confidently for the challenges of the modern technological landscape.



VELAGAPUDI RAMAKRISHNA SIDDHARTHA SCHOOL OF ENGINEERING
SIDDHARTHA
ACADEMY OF HIGHER EDUCATION
An Institution DEEMED TO BE UNIVERSITY
(Recognized by Institute for the Academy of General & Technical Education, Vijayawada, A.P.)

in association with



Department of **Electronics & Communication Engineering**

ECE Distinguished Alumni Lecture Series on

Education: The Currency of the Future

Date:
2nd January 2026

Time:
10:30 AM

Invited Speaker:
Dr. NARASIMHA REDDY URIMINDI
Distinguished Engineer, Verizon
Dallas/Fort Worth Area
(1984-1988) Alumnus



Venue: ECE-Seminar Hall

Targeted Audience:
III/IV B.Tech ECE Students

Conveners:
Dr. D.Venkata Rao
Dean-V.R.S.School of Engineering
HOD-ECE

Dr. A. Jhansi Rani
Professor, ECE, VRSSE

Faculty Cordinators:

Mrs. K. V. Ratna Prabha
Assistant Professor, ECE, VRSSE
Dept. Alumni Coordinator

Mr. K. Prem Chand
Assistant Professor, ECE, VRSSE

Student Coordinators:

Ramya Sree
III/IV B.Tech

Dervish
III/IV B.Tech

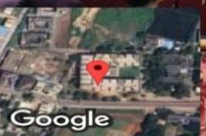


Kanuru, Andhra Pradesh, India



Fmpr+3fv, Vrsec Eee Block Rd, Chalasani Nagar,
Kanuru, Andhra Pradesh 520007, India
Lat 16.485172° Long 80.691232°
Friday, 02/01/2026 11:07 AM GMT +05:30

Dr. Narasimha Reddy Urimindi Inspires Students with a Visionary Talk



Kanuru, Andhra Pradesh, India



Fmpr+3fv, Vrsec Eee Block Rd, Chalasani Nagar,
Kanuru, Andhra Pradesh 520007, India
Lat 16.485173° Long 80.691186°
Friday, 02/01/2026 12:39 PM GMT +05:30

Interactive Session with Dr. Urimindi Engaging Faculty and Students



Dr. Urimindi Interacting with **HOD**, Faculty, and Students during the Session



Idea To Impact Challenge Smart & Sustainable Solutions For Everyday Life

ISTE Student Chapter, V R School of Engineering, Siddhartha Academy of Higher Education a deemed to be university, organized a technical event on "Idea to Impact Challenge : Smart & Sustainable Solutions For Everyday Life" on January 8, 2026. This initiative focused on the development of smart and sustainable solutions for everyday life, encouraging students to bridge the gap between theoretical knowledge and real-world environmental challenges.

The primary goal of the event was to enable students to identify and analyse everyday challenges that can be solved through smart electronic systems and to evaluate student competencies in designing eco-friendly, and cost-effective technical architectures.

The poster is purple and white with yellow and red accents. It features logos for Siddhartha Academy of Higher Education and ISTE. The text is organized into sections: event title, date and time, venue, target audience, registration link, convener, faculty coordinators, and student coordinators. A QR code is provided for more details.

SIDDHARTHA
ACADEMY OF HIGHER EDUCATION
An Institution DEEMED TO BE UNIVERSITY
(Under Section 3 of UGC Act, 1956)
(Sponsored by Siddhartha Academy of General & Technical Education), Vijayawada, A.P.

VELAGAPUDI RAMAKRISHNA SIDDHARTHA SCHOOL OF ENGINEERING

Organized by **ISTE STUDENT CHAPTER**

Idea to Impact Challenge
Smart & Sustainable Solutions
for Everyday life

Attractive Prizes

Convener:
Dr. A. JHANSI RANI
Professor, ECE

Faculty Coordinators:
Dr. G. JAMUNA RANI
ME Department
Dr. S. SRINIVASULU RAJU
EIE Department

Student Coordinators:
V. HEMA ASMITHA, ECE, 7893616766
P. SUSHMITHA, ECE, 7672066537

Date: 8th January 2026
Time: 3:00 PM onwards

Venue: ECE Seminar Hall

Target Audience:
For ISTE Student Members Only

Registration link:
<https://forms.gle/oBfVX2GE3ZTKC26i7>

For Details

Total 30 ISTE student members from all the branches participated in the event reflecting the students' interest in technical skill-building

The evaluation of ideas was done by considering different parameters like Problem Identification, Innovation, Technical Feasibility, Impact on society, Presentation, Teamwork & answers to the Questions posed. Following the assessment, a prize distribution ceremony was held on the same day, to acknowledge the top performers.

Following Photos are of Event winners:



First prize was given to **ENERGY EFFICIENT SMART CLASSROOM**

Energy Efficient Smart Classroom focuses on integrating IoT-enabled automation, smart lighting, and energy management systems to reduce power consumption without compromising learning quality. It promotes sustainability by optimizing resource usage while creating a comfortable, technology-driven educational environment.



Second prize was given to **JANASEVA**

JANASEVA is a socially driven initiative focused on community welfare and public service. The project emphasizes inclusive solutions to address grassroots societal needs through sustainable and people-centric approaches. Its impact-oriented vision and practical implementation earned it the Second Prize.



Third prize was given to **SMART HELMET IN GOLDEN HOUR**

SMART HELMET IN GOLDEN HOUR is an innovative safety solution designed to provide immediate assistance during road accidents by detecting crashes and automatically sending alerts to emergency services. By reducing response time in the critical golden hour, the system helps save lives through faster medical intervention and improved accident management.





The event was successfully organized with meticulous planning and strong institutional support, ensuring smooth coordination of all activities. Distinguished judges from academia and industry evaluated the projects with keen interest, offering valuable feedback and technical insights to the participants. The volunteers played a vital role in managing registrations, session flow, and participant support, contributing to the overall success of the event. The competition fostered innovation, teamwork, and practical problem-solving among students. Active participation and healthy competition created an inspiring academic atmosphere.

Overall, the event stood as a meaningful platform for showcasing creativity and technical excellence. We express our sincere gratitude to the Honorable Vice Chancellor, Registrar, and the Dean, School of Engineering, for their constant encouragement, visionary leadership, and invaluable support, which played a crucial role in the successful organization of this event.



ZENITH QUEST

Challenging Minds Across All Disciplines

ISTE Student Chapter, Velagapudi Ramakrishna Siddhartha School of Engineering, Siddhartha Academy of Higher Education, a deemed-to-be university, organized a technical quiz event titled “Zenith Quest – Challenging Minds Across All Disciplines” on February 16, 2026. This initiative aimed to foster analytical thinking, technical problem-solving, and collaborative learning among student members, while encouraging them to showcase their knowledge in diverse domains.

The primary goal of this quiz is to provide a holistic platform for students to showcase and strengthen their diverse skill sets — ranging from general awareness and logical reasoning to technical programming expertise and finally creativity, teamwork, and problem-solving under pressure.

SIDDHARTHA
ACADEMY OF HIGHER EDUCATION
An Institution **DEEMED TO BE UNIVERSITY**
(Under Section 3 of UGC Act, 1956)
(Sponsored by Siddhartha Academy of General & Technical Education), Vijayawada, A.P.
VELAGAPUDI RAMAKRISHNA SIDDHARTHA SCHOOL OF ENGINEERING

Organized by
ISTE STUDENT CHAPTER

ZENITH QUEST

Attractive Prizes

Convener:
Dr. A. JHANSI RANI
Professor, ECE

Faculty Coordinators:
Dr. G. JAMUNA RANI
ME Department
Dr. K. PREM CHAND
ECE Department

Student Coordinators:
K. JUHI AKSHARA, ECE, ☎9493377535
P. SINDHU SRI KRISHNA, ECE, ☎9849904635

Date: 16th February 2026
Time: 2:00 PM onwards
Venue: ECE Seminar Hall

Registration link:
<https://forms.gle/D1aq8kHgZWKY6Nmx8>

Total 98 students from all the branches participated in the event reflecting the students' interest in technical skill-building. The quiz was structured into three engaging rounds:

Round 1 – Current Affairs & General Aptitude All registered ISTE student members participated in this opening round, which tested awareness of global events, logical reasoning, and problem-solving skills.

Round 2 – C Coding Round The top 10 qualified teams advanced to this round, where participants demonstrated programming proficiency and logical implementation skills in C language.

Round 3 – Puzzle Round The final 4 teams competed in a challenging puzzle-solving round designed to evaluate creativity, teamwork, and quick thinking under pressure. All rounds had clear, predefined criteria. Each stage narrowed down participants based on different skill sets. Combined evaluation of knowledge, technical ability, and soft skills ensured well-rounded winners.

Following Photos are of Event winners:



Team Zenith Minds – 1st Prize

Team Zenith Minds showed consistent strength in Round 1 (Current Affairs & Aptitude) and Round 2 (C Coding). In the Puzzle Round, they were notably quick and accurate, solving challenges faster than others. Their balanced performance across all rounds secured them the top spot.



Team Elevate – 2nd Prize

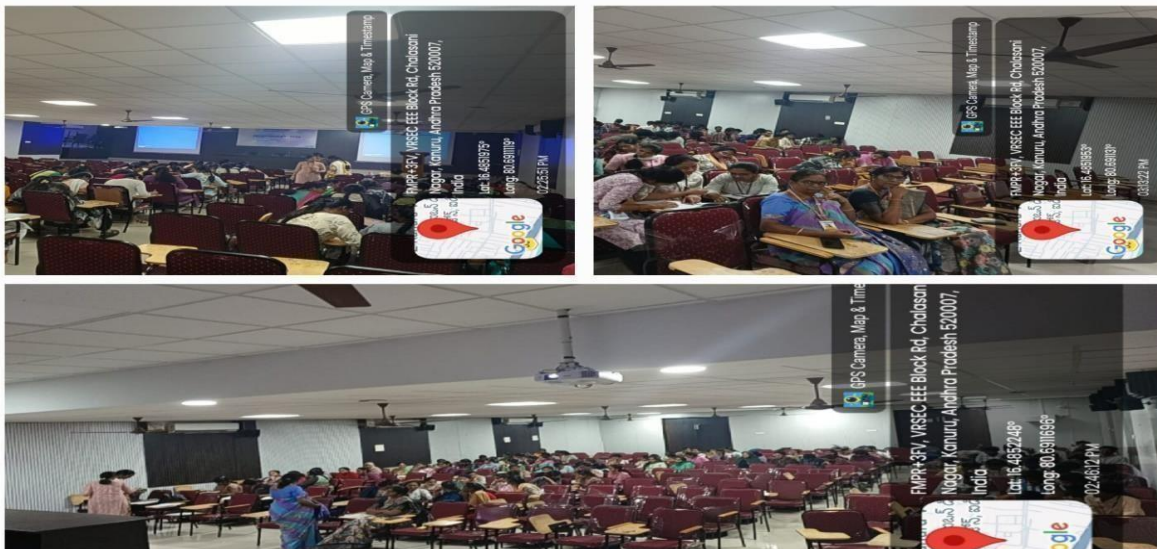
Team Elevate excelled in the Puzzle Round, demonstrating strong problem-solving abilities. Their overall performance was impressive, earning them second place.



Team Tri-Topia – 3rd Prize

Team Tri-Topia stood out in the C Coding Round, showing solid programming skills. Their technical strength still earned them a podium finish.

The prize distribution ceremony was held immediately after the final round, celebrating the outstanding performances of the winning teams. The event witnessed enthusiastic participation, healthy competition, and an inspiring academic atmosphere



Students actively engaged in conducted activities



Dr. D. Venkata Rao, HoD, ECE Dept and Dean all schools interacted with students

The success of Zenith Quest was attributed to meticulous planning, strong institutional support, and the dedicated efforts of faculty and student coordinators. Judges from academia and industry provided valuable feedback, enhancing the learning experience for all participants. Volunteers ensured smooth coordination of registrations, session flow, and technical arrangements. Overall, the event stood as a meaningful platform for nurturing talent, promoting teamwork, and encouraging students to apply their knowledge in practical, competitive settings. We express our sincere gratitude to the Honorable Vice Chancellor, Registrar, and the Dean, School of Engineering, for their constant encouragement, visionary leadership, and invaluable support, which played a crucial role in the successful organization of this event.

