INSTITUTION INNOVATION COUNCIL (IIC) – AVIT

ELECTRICAL AND ELECTRONICS ENGINEERING

Any one social media Url Link Facebook/Twitter/Instagram/Linkedln			
Program Driven by IIC Calendar Activity/ MIC Driven Activity/ Celebration Activity/Self driven activity	Self-driven activity		
Event Title	Industrial Visit To Siemens Gamesa Renewable Energy		
Resource Person	Mr. Gangadharan , Production Team , Siemens Gamesa Renewable Energy Mr. Rajendra Prasad, Head Of Production, Siemens Gamesa Renewable Energy		
Academic year	2025 - 2026	Quarter	I
Program Type Level 1 - Expert Talk/ Exposure Visit/ Mentoring Session (2 to 4 Hours) Level 2 – Conference / Exposure Visit / Seminar / Workshop (5 to 8 Hours) Level 3 – Bootcamp/ Competition/ Demo Day/ Exhibition / Workshop (9 to 8 Hours) Level 4 – Challenges/ Hackathon/ Tech Fest (Greater than 18 hours)	Level 1 - Expert Talk/ **Exposure Visit**/ Mentoring Session (2 to 4 Hours)		
Program Theme IPR & Technology Transfer / Innovation & Design Thinking / Entrepreneurship & Startup / Pre-Incubation & Incubation Management	Entrepreneurship & Startup		
Start date & End Date (DD/MM/YYYY)	26/08/2025	26/08/2025	
Duration of the activity (in Mins) & Start Time & End Time	Duration: 180 Minutes	Start Time: 12:00 P.M	End Time: 3:00 P.M
Participants	Students : 11	Faculty: 01	External: NIL
Mode of session (online / offline) * Online Video Url compulsory	Offline		

Event Organizer / Coordinator Faculty Name / Department / Designation	Mrs.P.Poornima AP Gr-II / Dept of Electrical and Electronics Engineering AVIT.
Objective (100 letters only)	The objective of the industrial visit to Siemens Gamesa Renewable Energy, Nellore, was to provide students with practical exposure to the manufacturing and design processes of wind turbine blades and related renewable energy components. The visit aimed to bridge the gap between theoretical knowledge gained in classrooms and real-world industrial practices. By observing safety protocols, production methods, and advanced technologies, students were able to understand the role of innovation and sustainable practices in the energy sector. The overall objective was to inspire students toward renewable energy careers and develop a deeper interest in entrepreneurship and innovation.
Benefits in terms of learning/skill/Knowledge obtained (150 letters only)	The industrial visit enhanced students' learning by offering hands-on knowledge about wind turbine blade design, production processes, and renewable energy technologies. It provided insights into the modular design, efficiency improvement, and cost optimization strategies adopted by Siemens Gamesa. Students gained awareness of industrial safety measures, quality standards, and the importance of skill development in renewable energy systems. The exposure helped in strengthening conceptual understanding, fostering innovation, and encouraging problem-solving skills. This experience also broadened their perspective on entrepreneurship and green energy startups, equipping them with the necessary confidence and knowledge to pursue careers in sustainable energy industries.
Expenditure Amount, If any	-

Report on Alumni Guest Lecture on

"Scope of Engineers in Industrial Planning"

Speaker : Mr. Gangadharan ,Mr. Rajendra Prasad

Designation : Production Team , Head of Production Team

Organization : Siemens Gamesa Renewable Energy

Alumni : -

Date : 26/08/2025

Venue : Siemens Gamesa Renewable Energy

- ✓ The Department of Electrical and Electronics Engineering has arranged industrial visit for A team of 11 students from III and IV Year EEE to Siemens Gamesa Renewable Energy facility in Nellore, Andhra Pradesh, on 26.08.2025. The visit commenced with a safety briefing by Mr. Rajesh, Safety Officer, who provided an overview of the organization and discussed the various safety measures to be followed during the visit. Next, Mr. Gangadharan from the production team explained the technical aspects of the different products manufactured at the facility. Mr. Rajendra Prasad, Head of Production, guided the students through various stages of production and elaborated on the entire manufacturing process.

The visit concluded with a closing note by Mr. Sivakaumar, Vice President – Generator Business, Siemens Gamesa Renewable Energy. He emphasized the importance of skill development and encouraged students to focus on conceptual learning for their professional growth.

Key Highlights of the industrial visit :

The key points gathered from the visit include:

- ✓ The Nellore site manufactures wind turbine blades—such as the SG 3.4-145 and G114-2.0 MW models—which are specifically optimized for Indian wind conditions. These blades are designed to maximize annual energy production (AEP) while offering competitive reliability and cost advantages.
- ✓ The SG 3.4-145 turbine features a 145-meter rotor diameter and advanced modular design, increasing the swept area by 41% and boosting AEP by up to 48% compared to previous models. These improvements help lower the Levelized Cost of Energy (LCoE) and ensure reliable performance in extreme climates.
- ✓ The factory utilizes proven Siemens Gamesa platform modularity, employing pre-existing and patented technologies for enhanced durability and efficiency.
- ✓ In addition to blades, the facility manufactures wind power converters, generators, and control cabinets for wind turbines. These products have an installation service life benefitting from 85 years of accumulated engineering expertise.

Event Photos:


SIEMENS GAMESA
ELECTRIC PLANT

LIST OF PARTICIPANTS

FACULY LIST

S.No	STAFF NAME	DESIGNATION
1	Rattan Kumar V	Assistant Professor Gr-II

STUDENTS LIST

S.NO	STUDENTS NAME	REG NUM	BRANCH
1.	Pranesh Samy As	3462420501	B.E. - Electrical and Electronics Engineering
2.	Vedhachalam K	3462310504	B.E. - Electrical and Electronics Engineering
3.	Harish	3462320501	B.E. - Electrical and Electronics Engineering
4.	Sanjay S	3462320503	B.E. - Electrical and Electronics Engineering
5.	Kevin Kowshik A S	3462353502	B.E. - Electrical and Electronics Engineering
6.	Md Ajamir Khan	3462210503	B.E. - Electrical and Electronics Engineering
7.	Md Akif	3462210504	B.E. - Electrical and Electronics Engineering
8.	Mohd Washim	3462210506	B.E. - Electrical and Electronics Engineering
9.	Murugan V	3462210507	B.E. - Electrical and Electronics Engineering
10.	Sakthidasan M	3462210508	B.E. - Electrical and Electronics Engineering
11.	Sourangsu Chandra	3462210509	B.E. - Electrical and Electronics Engineering