INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)

INSTITUTION'S INNOVATION COUNCIL (IIC)

SWARNANDHRA

COLLEGE OF ENGINEERING AND TECHNOLOGY

Seetharampuram, Narsapur.

Report of

Workshop on Prototype/Process Design and Development

Collage	Swarnandhra Autonomous
Department	SCET -EEE

Academic Year	2025-2026
Program driven by	IIC calendar Activity
Quarter	IV
Activity Name	workshop on innovation /prototype validation -converting innovation into start up
Programme Type	Level -2 Workshop/ Exposure visit
Programme Theme	Q2 –Idea/innovation validation and concept development
Program Stats Date	2 -8-2025
Program Ending Date	2-8-2025
Number of Students Participants	44
Number of Faculty Participants	2
Number of Expert Participants, If Any	1
Expenditure, If Any	---
Mode of Delivery	offline
Objectives	Understand Innovation Fundamentals, Explore Prototype Development and Validation, Bridge Innovation and Entrepreneurship.

Benefits in terms of learning/skill/knowledge development	Learning Benefits, Skill Development, Knowledge Development
Program Coordinator (S)	B.subrahmanyam

Report:

Swarnandhra college of Engineering, department of Electrical and Electronics Engineering in association with IIC organised a one-day Workshop on innovation /prototype validation Design and Development on August 2, 2025.

Workshop Objectives:

Understand Innovation Fundamentals

- Define innovation and its role in addressing real-world problems
- Identify key characteristics of innovative ideas with market potential

Bridge Innovation and Entrepreneurship

- Recognize the steps to transition from a validated prototype to a startup
- Understand the startup lifecycle: idea → prototype → validation → business model → launch

Learn Business Model Design and Value Proposition

- Use tools like the **Business Model Canvas** and **Value Proposition Canvas**
- Identify target customers, key partners, cost structure, and revenue streams

Develop Entrepreneurial Thinking

- Foster creativity, risk-taking, and resilience
- Emphasize the importance of customer-centric innovation and adaptability

Understand IP and Legal Considerations

- Learn the basics of intellectual property rights (patents, copyrights, trademarks)
- Understand legal frameworks and startup compliance

Pitching and Funding Preparation

- Develop skills to pitch your startup idea to investors and stakeholders
- Learn about startup funding sources: bootstrapping, angel investors, VCs, grants

Foster Collaboration and Networking

- Encourage teamwork across disciplines (tech, business, design)
- Connect with mentors, incubators, and entrepreneurial ecosystems

Benefits in Terms of Learning, Skill, and Knowledge Development

1. Learning Benefits

- **End-to-End Startup Process Understanding**
  Gain a holistic understanding of how innovations are transformed into viable businesses.
- **Real-World Application of Ideas**
  Learn how to apply academic or theoretical ideas to real-life problems and market needs.
- **Experiential Learning through Prototyping**
  Hands-on experience in creating, testing, and refining a prototype.

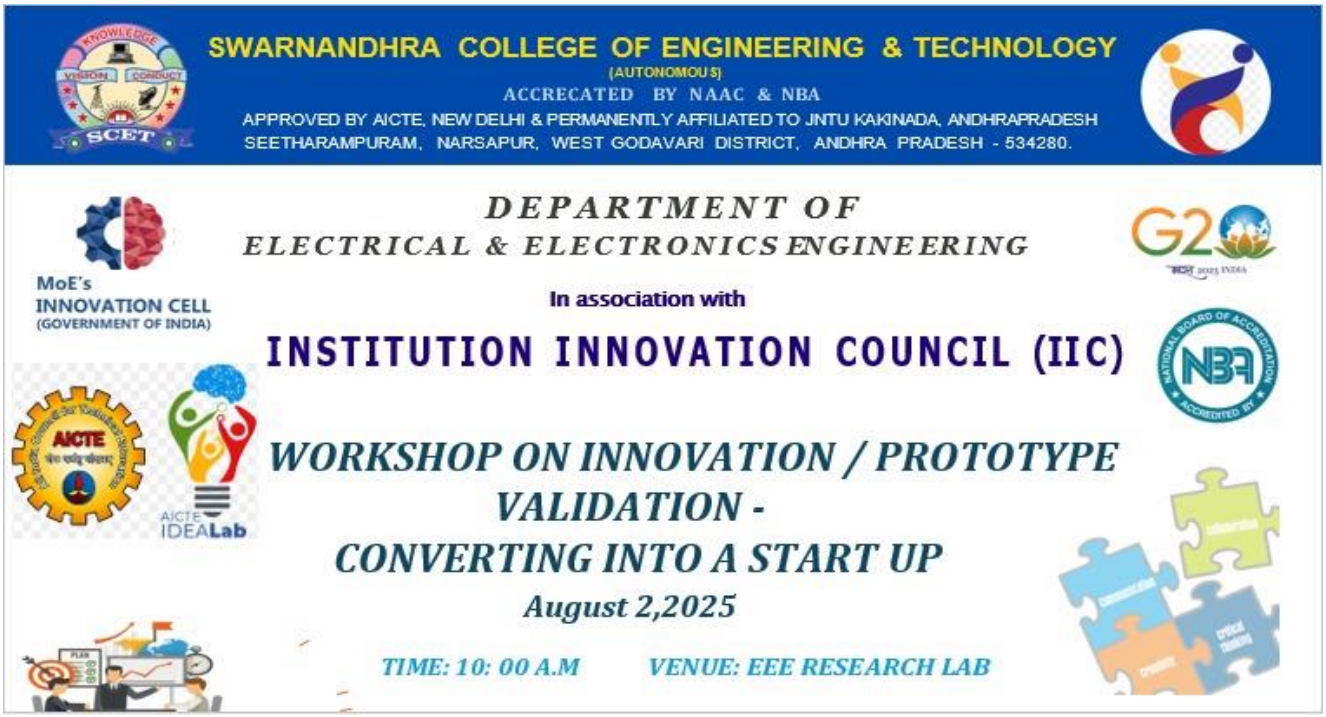
2. Skill Development

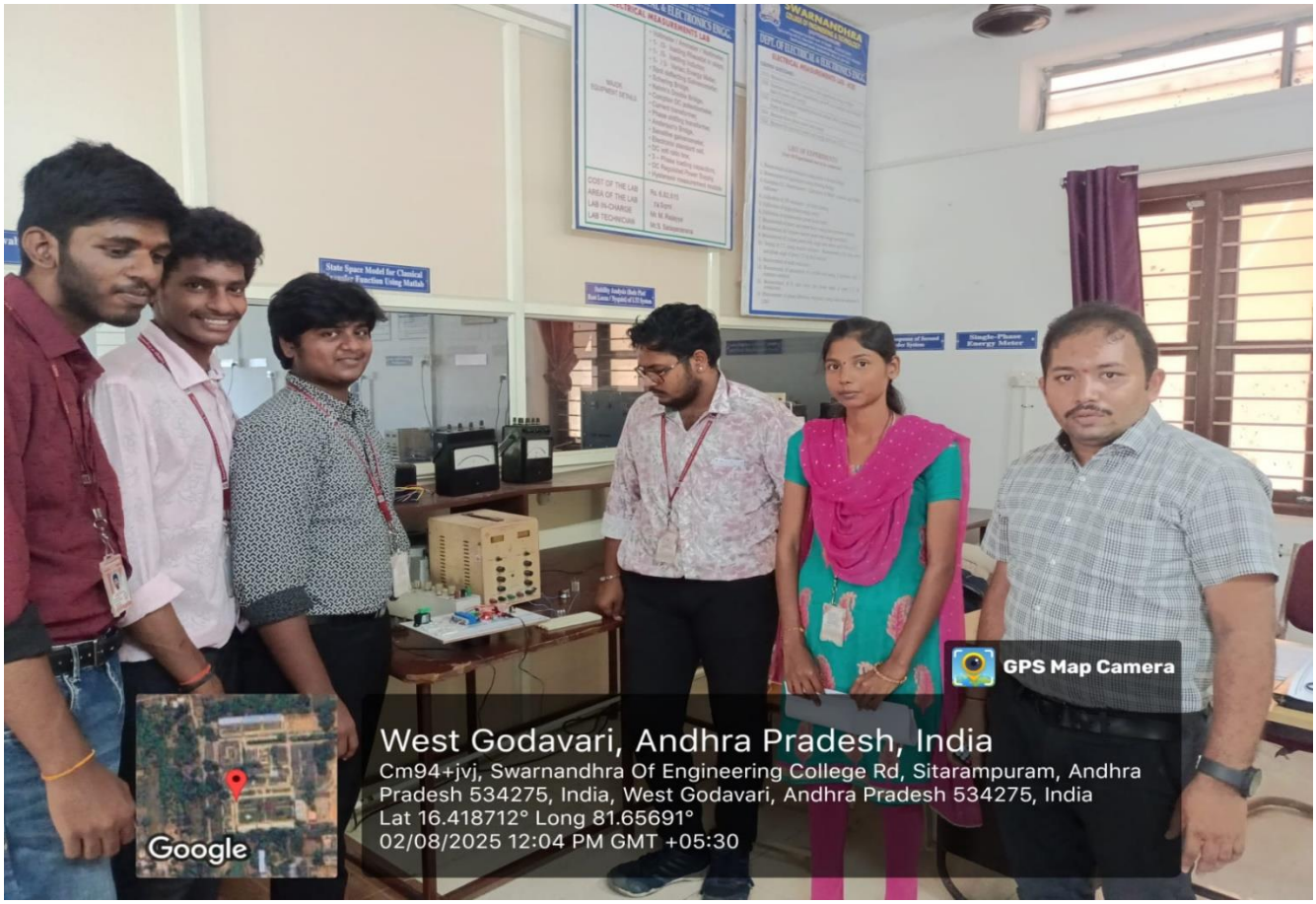
- **Entrepreneurial Thinking and Problem-Solving**
  Develop the ability to identify market gaps and create innovative solutions.
- **Design Thinking and Innovation Tools**
  Apply tools like brainstorming, ideation, and design thinking in product development.
- **Prototyping and Validation Skills**
  Gain practical skills in building MVPs and validating them through real user interactions.
- **Business Planning & Pitching**
  Improve communication skills by crafting effective business plans and investor pitches.
- **Team Collaboration and Leadership**
  Work in diverse teams, learning leadership, delegation, and project coordination.

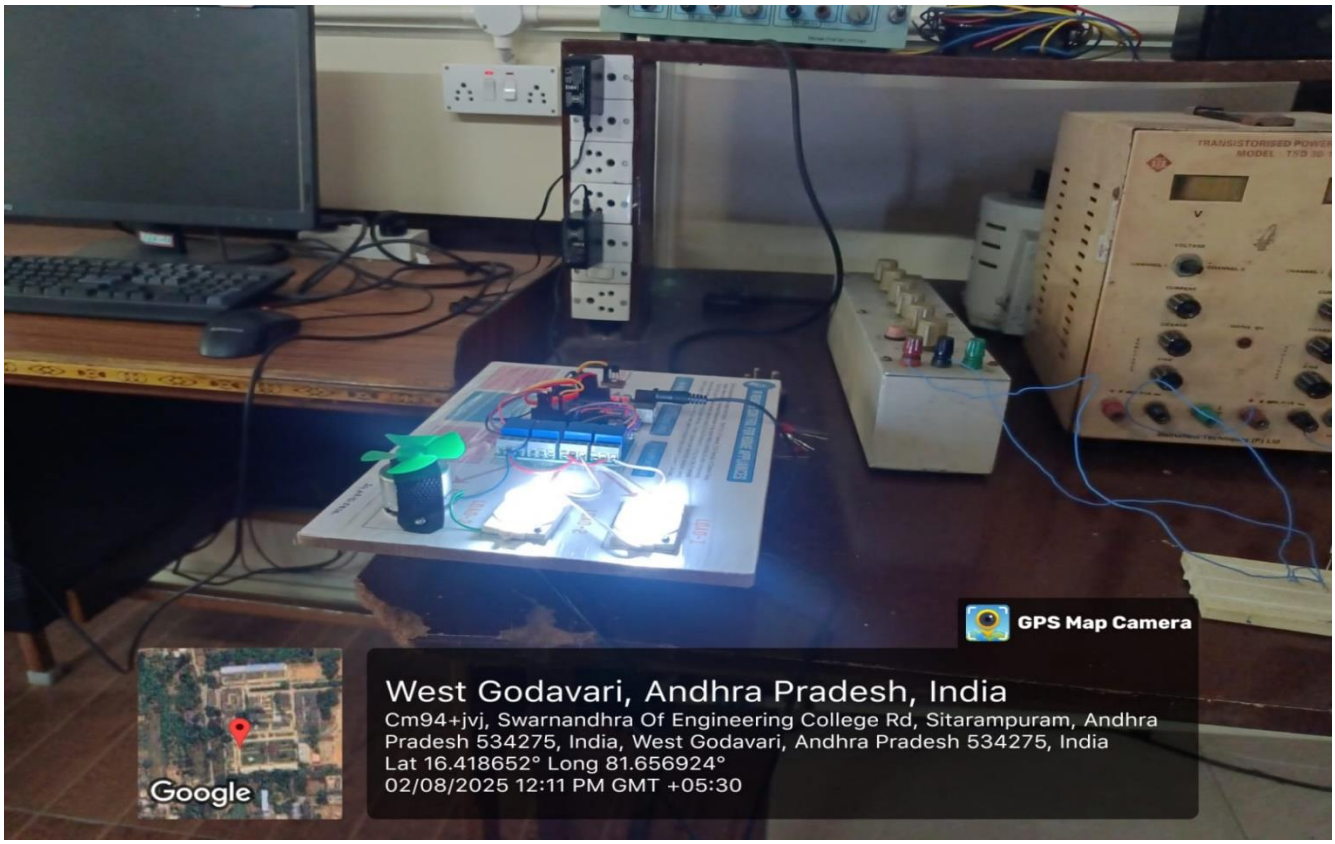
3. Knowledge Development

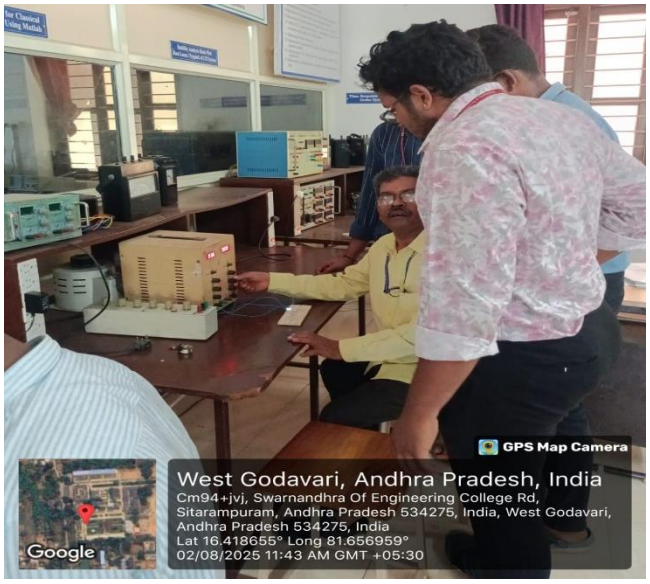
- **Startup Ecosystem and Business Models**
  Understand various business models, revenue strategies, and startup structures.
- **Intellectual Property and Legal Aspects**
  Gain awareness of patents, trademarks, and startup legal frameworks.

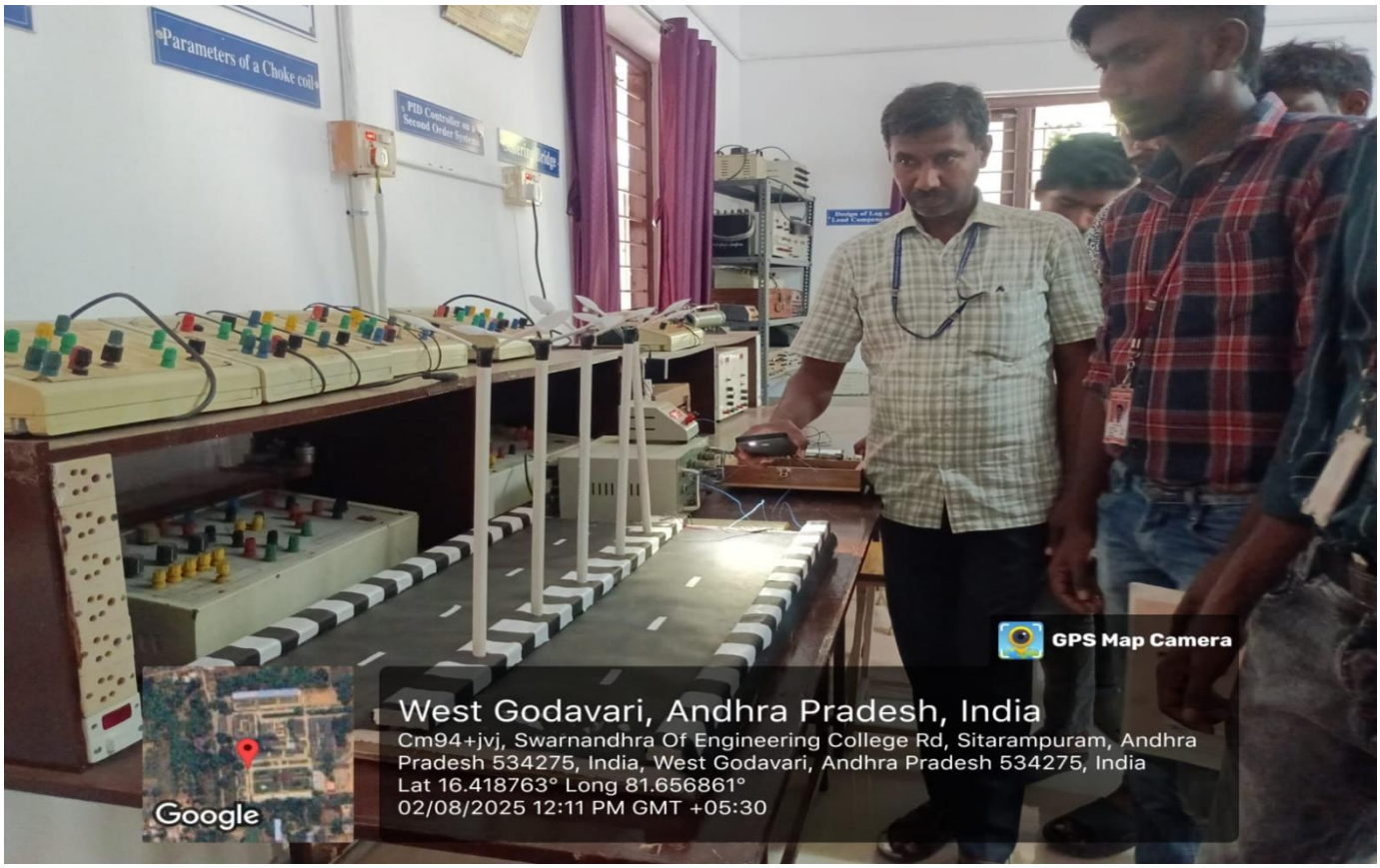
Event Photo:

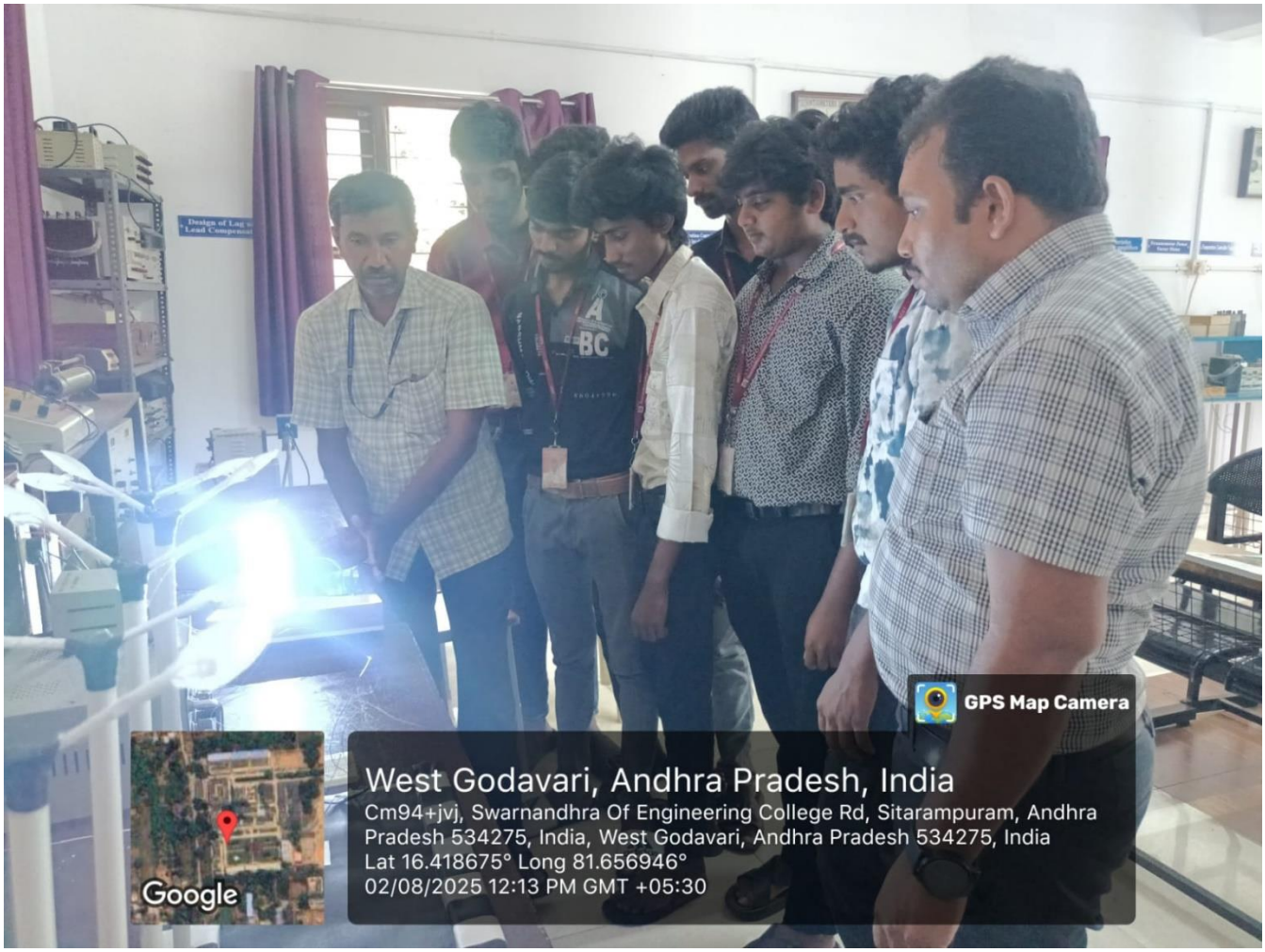


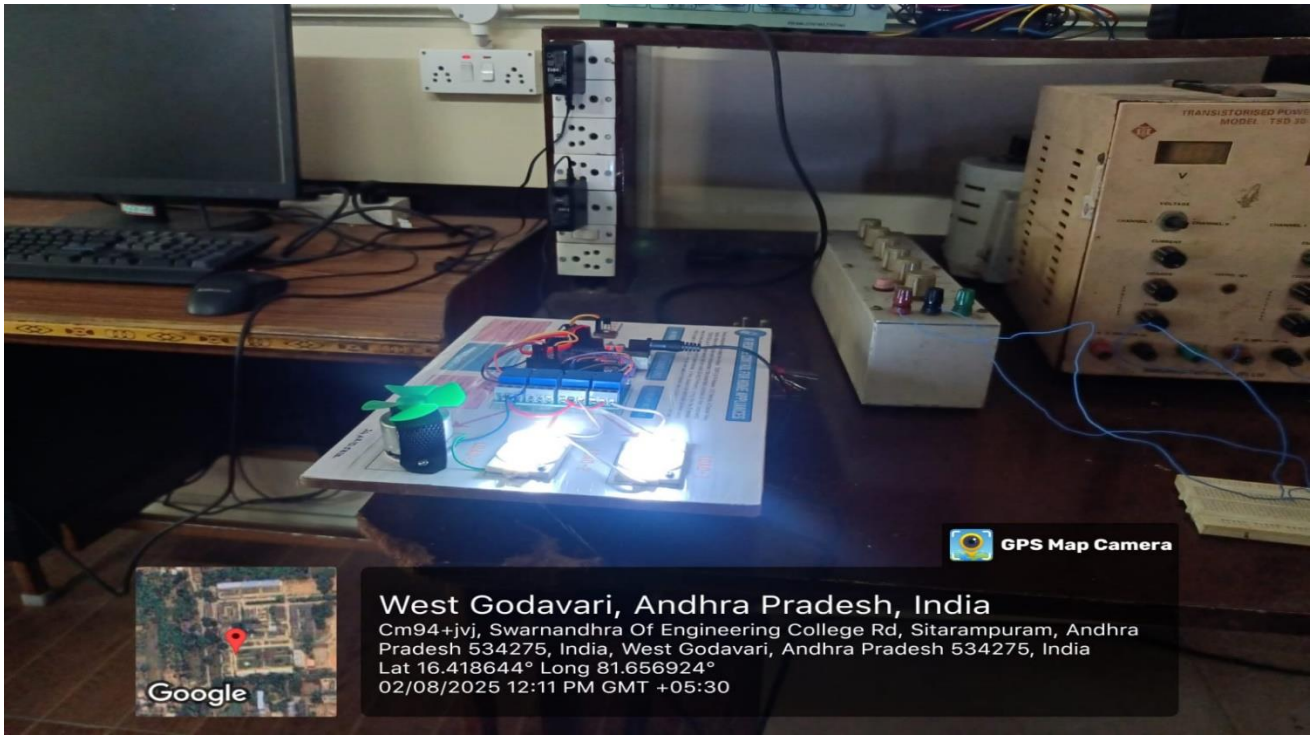

GPS Map Camera
West Godavari, Andhra Pradesh, India
Cm94+jvj, Swarnandhra Of Engineering College Rd, Sitarampuram, Andhra Pradesh 534275, India, West Godavari, Andhra Pradesh 534275, India
Lat 16.418712° Long 81.65691°
02/08/2025 12:04 PM GMT +05:30
Google


GPS Map Camera
West Godavari, Andhra Pradesh, India
Cm94+jvj, Swarnandhra Of Engineering College Rd, Sitarampuram, Andhra Pradesh 534275, India, West Godavari, Andhra Pradesh 534275, India
Lat 16.418652° Long 81.656924°
02/08/2025 12:11 PM GMT +05:30
Google


GPS Map Camera
West Godavari, Andhra Pradesh, India
Cm94+jvj, Swarnandhra Of Engineering College Rd, Sitarampuram, Andhra Pradesh 534275, India, West Godavari, Andhra Pradesh 534275, India
Lat 16.418655° Long 81.656959°
02/08/2025 11:43 AM GMT +05:30
Google


Parameters of a Choke coil
GPS Map Camera
West Godavari, Andhra Pradesh, India
Cm94+jvj, Swarnandhra Of Engineering College Rd, Sitarampuram, Andhra Pradesh 534275, India, West Godavari, Andhra Pradesh 534275, India
Lat 16.418763° Long 81.656861°
02/08/2025 12:11 PM GMT +05:30
Google


GPS Map Camera
West Godavari, Andhra Pradesh, India
Cm94+jvj, Swarnandhra Of Engineering College Rd, Sitarampuram, Andhra Pradesh 534275, India, West Godavari, Andhra Pradesh 534275, India
Lat 16.418675° Long 81.656946°
02/08/2025 12:13 PM GMT +05:30
Google


GPS Map Camera
West Godavari, Andhra Pradesh, India
Cm94+jvj, Swarnandhra Of Engineering College Rd, Sitarampuram, Andhra Pradesh 534275, India, West Godavari, Andhra Pradesh 534275, India
Lat 16.418644° Long 81.656924°
02/08/2025 12:11 PM GMT +05:30
Google

Participants List:

SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)
ACCRECATED BY NAAC & NBA
APPROVED BY AICTE, NEW DELHI & PERMANENTLY AFFILIATED TO JNTU KAKINADA, ANDHRAPRADESH
SEETHARAMPURAM, NARSAPUR, WEST GODAVARI DISTRICT, ANDHRA PRADESH - 534280.

Name of the Program: Workshop on Innovation / Prototype Validation -Converting into a Start Up

Date: 02/08/2025
Organization: Swarnandhra College of Engineering and Technology
Coordinator : Mr. B. Subrahmanyam, Assistant Professor, Dept. of EEE

ATTENDANCE

S. No	Regd. No.	Prototype Name	Name of the Faculty / Student	year /Branch	Signature
1	24A25A0211	Build and demonstrate Automatic Street light using LDR	N. Johnson	EEE - 3rd year	N.Johnson.
2	24A25A0219		V. Ramu	EEE - 3rd years	V.Ramu
3	24A25A0204		K. JNANA SHANKAR	EEE - 3rd year	K.J.Shankar.
4	24A25A0212		N. Nanda Kishore	EEE - 3rd year	
5	24A25A0220	Simulate the Arduino LED Blinking activity Tinkercad	Sisri vinay hari nava deep	EEE - 3rd year	S. Vinay.
6	24A25A0208		M. Jothin kumar	EEE - 3rd year	
7	24A25A0222		K. Harshavardhan	EEE - 3rd year	K.Harshavardhan
8	24A25A0217		T. Aravind	EEE - 3rd year	T. Aravind
9	24A25A0207	Smart home	M. Vamsi Rama Krishna	EEE - 3rd year	M. Vamsi.
10	24A25A0214		P. Yugandhar	EEE - 3rd year	P.Yugandhar.
11	23A21A0241		P. V. V. D. Sairam	EEE - 3rd Year	
12	23A21A0235		T. R. S manikanta Naidu	EEE - 3rd year	T.R.S manikanta
13	23A21A0228	Build and demonstrate an Arduino LED blinking activity using Arduino IDE	M. Kumar Sai Nagendra	EEE - 3rd year	M.K.S.Nagendra
14	23A21A0230		Lakku. Kalyan	EEE - 3rd year	L. Kalyan
15	23A21A0225		K. Satish.	EEE 3rd year	K. Satish
16	23A21A0921		M. Sai Nagendra	EEE 3rd year	M. Sai Nagendra

17	24A25A0213	Blink LED using ESP32	P. Raju	III rd, EEE	P. Raju
18	24A25A0203		J. Jagadeeswar	III rd, EEE	J. Jagadeeswar
19	24A25A0221		K. Rohan	III rd, EEE	[illegible]
20	24A25A0218		V. Sai[illegible]	III rd, EEE	V. S[illegible]
21	24A25A0202	Control an LED using mobile App	G. Rajesh	III rd / EEE	G. Rajesh
22	24A25A0209		M. Lohith	III rd EEE	M. Lohith
23	23A21A0224		K. Tarun Sai	III rd EEE	K. Tarun Sai
24	23A21A0227		V.A.K.S.K. Paradesi	III rd EEE	V. Paradesi
25	23A21A0239	Build a live soil moisture monitoring project, and monitor soil moisture levels of a remote plan in your computer dashboard.	P. Teja Narayana	III rd EEE	P. Teja Narayana
26	23A21A0240		P. Narasimhaswamy	III rd EEE	P. Narasimha
27	23A21A0210		D. Mohan Surendra	III rd EEE	D.M. Surendra
28	23A21A0250		Y. Venkata Sai	III rd EEE	Y. Venkatasai
29	23A21A0238	Demonstrate all the steps in design thinking to redesign a motor bike	P.B.D Prasad	III rd EEE	P.B.D Prasad
30	23A21A0252		M. Venkatesh	III rd EEE	M. Venkatesh
31	23A21A0216		G. Narendra	III rd EEE	G. Narendra
32	23A21A0209		D. Pavan	III rd EEE	D. Pavan
33	23A21A0222	Design and 3D print a walking Robot	K.S.S Meghana	III rd EEE	K.S.S Meghana
34	23A21A0202		A. Manikanta	III rd EEE	A. Manikanta
35	23A21A0237		P. Tulasi	III rd EEE	P. Tulasi
36	23A21A0218		G. Ramanjaneyulu	III rd EEE	G. Ramanjaneyulu
37	23A21A0205	Design and 3D print a Rocket	Ch. Baby	III rd EEE	Ch. Baby
38	23A21A0221		K. Mohan [illegible]	III rd EEE	K. Mohan [illegible]
39	23A21A0204		B. Preethi	III rd EEE	B. Preethi
40	23A21A0226		M. Hanuman Appadi	III rd EEE	M. Hanuman Appadi
41	23A21A0203	Interfacing IR sensor and servo-motor with Arduino.	B. Ganesh	III rd EEE	B. Ganesh
42	23A21A0208		D. Siva	III rd EEE	D. Siva
43	23A21A0220		K. Leela	III rd EEE	K. Leela
44	23A21A0219		I. Hanu Hanish	III rd EEE	I. Hanu Hanish

Head of the Department
HOD-EEE
Electrical & Electronics Engg.
Swarnandhra College of Engg. & Tech.
Seetharampuram, Narasapur

EEE-HOD