PRAGATI ENGINEERING COLLEGE

(Autonomous)

1-378, ADB Road, Surampalem – 533 437, Near Peddapuram, Kakinada District, A.P.
(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada & Accredited by NBA)
(Recognized by UGC Under Sections 2(f) and 12 (B) of UGC act, 1956)
Ph: 08852 – 252233, 252234, 252235 Fax: 08852 – 252232, website: www.pragati.ac.in

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date: 13-02-2025

CIRCULAR

It is inform to all the students of B.Tech II, III & IV Year that the Student Chapter Institution of Engineers(India) Department of Electrical & Electronics Engineering is conducting "GREEN HYDROGEN IMPORTANCE IN FUTURE" on 15-02-2025. In this regard All the interested students participate actively.

Faculty coordinator: Mr.S.Nani Babu

Student Coordinators: 23A31A0202-B.Chaitanya Jyothika
23A31A0220-K.V.V.S.Anjani Kumari
23A31A0247-O.A.N.V.S.Manikanta
24A35A0205-D.Sai Venkat

Venue: MECH BLOCK –MS:12
Time: 2:00 PM

HOD-EEE

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Copy to:

1) Circulate among students and staff
2) Department Notice Board
3) Department File
4) Principal for Information

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date: 17-09-2024

REPORT
ON
GREEN HYDROGEN IMPORTANCE IN FUTURE

Green hydrogen, produced by electrolyzing water using renewable energy sources, is poised to play a crucial role in the transition to a low-carbon energy future. This report highlights the importance of green hydrogen, its benefits, and the challenges associated with its adoption.

The world is shifting towards a low-carbon economy, driven by concerns about climate change, air pollution, and energy security. Green hydrogen, a clean and sustainable energy carrier, is emerging as a key player in this transition.

Benefits of Green Hydrogen:

1. Renewable Energy Source: Green hydrogen is produced using renewable energy sources, making it a clean and sustainable energy carrier.

2. Zero Emissions: Green hydrogen produces only water vapor and heat as byproducts when used as a fuel, making it an attractive alternative to fossil fuels.

3. Energy Storage: Hydrogen can be stored for long periods of time, making it an excellent energy storage solution for intermittent renewable energy sources.

4. Transportation Fuel: Green hydrogen can be used as a clean transportation fuel for fuel cell electric vehicles (FCEVs), reducing greenhouse gas emissions and air pollution.

5. Industrial Applications: Green hydrogen can be used as a feedstock for the production of chemicals, fuels, and power.

Challenges and Opportunities:

1. High Production Costs: Green hydrogen production is currently more expensive than traditional hydrogen production methods.

2. Energy Efficiency: Green hydrogen production requires significant amounts of energy, which can lead to efficiency losses.

3. Storage and Transportation: Hydrogen storage and transportation can be challenging due to its low energy density and high reactivity.

4. Infrastructure Development: Governments and companies are investing in the development of green hydrogen infrastructure, including transportation networks and storage facilities.

5. Research and Development: Ongoing research and development are focused on improving the efficiency and cost-effectiveness of green hydrogen production.

Future Prospects:

1. Increased Adoption: Green hydrogen is expected to become more widely adopted as the technology improves and costs decrease.

2. Large-Scale Production: Large-scale green hydrogen production facilities are being planned and built around the world.

3. Infrastructure Development: Governments and companies are investing in the development of green hydrogen infrastructure, including transportation networks and storage facilities.

4. Research and Development: Ongoing research and development are focused on improving the efficiency and cost-effectiveness of green hydrogen production. In this need of the hour, Local Chapter IE (India) of EEE Department took a step to make II nd & III rd Year students familiar with the introduction to his Achievements through this lecture.

Students were participated curiously during the event. Participations will be made at MEC BLOCK MS-12.The picture of the event and glimpses of slides presented were mentioned in the report stated.

Date & Time of Event :15.02.2025 @ 2:00 PM

Venue : MEC BLOCK MS-12

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Learning is Supreme Deity

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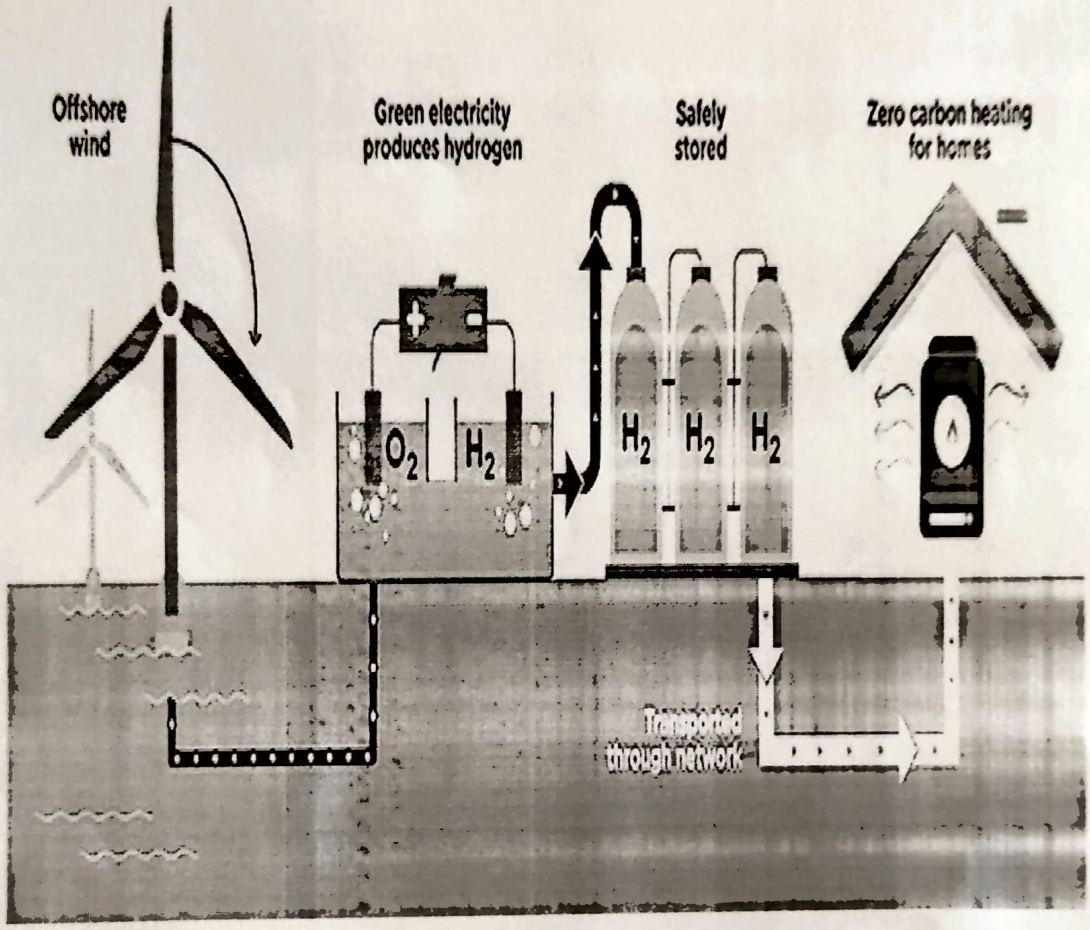

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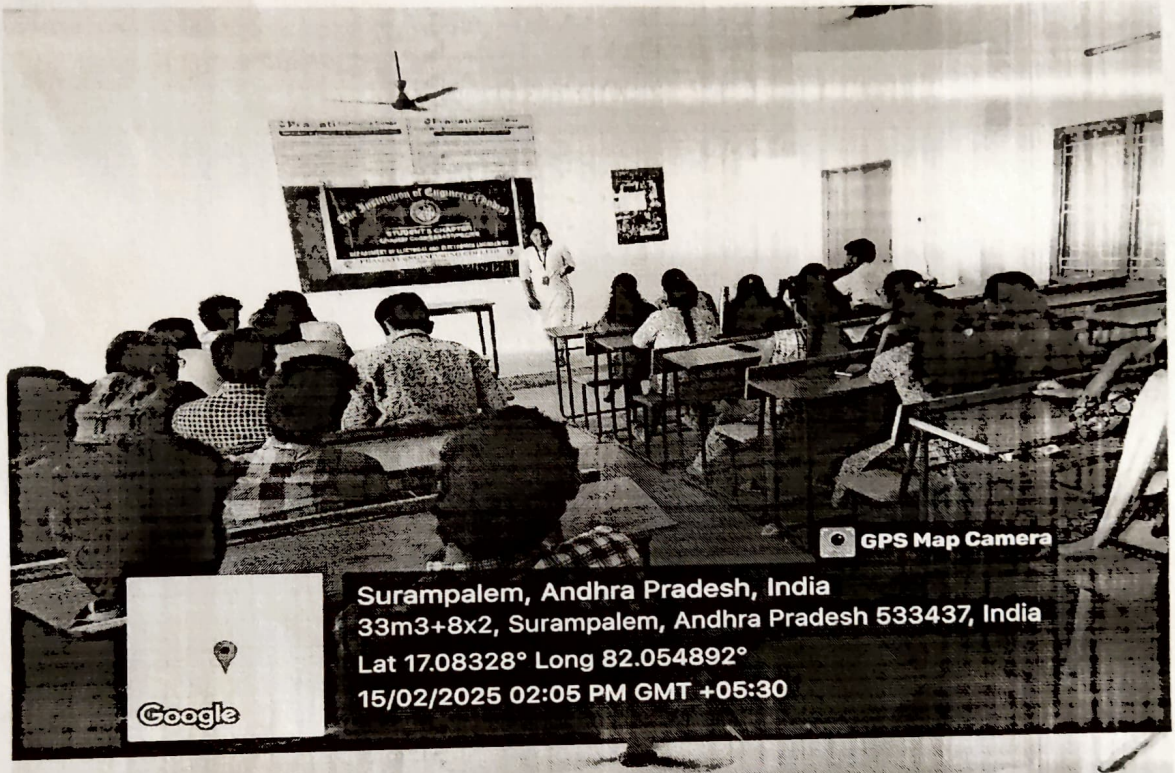

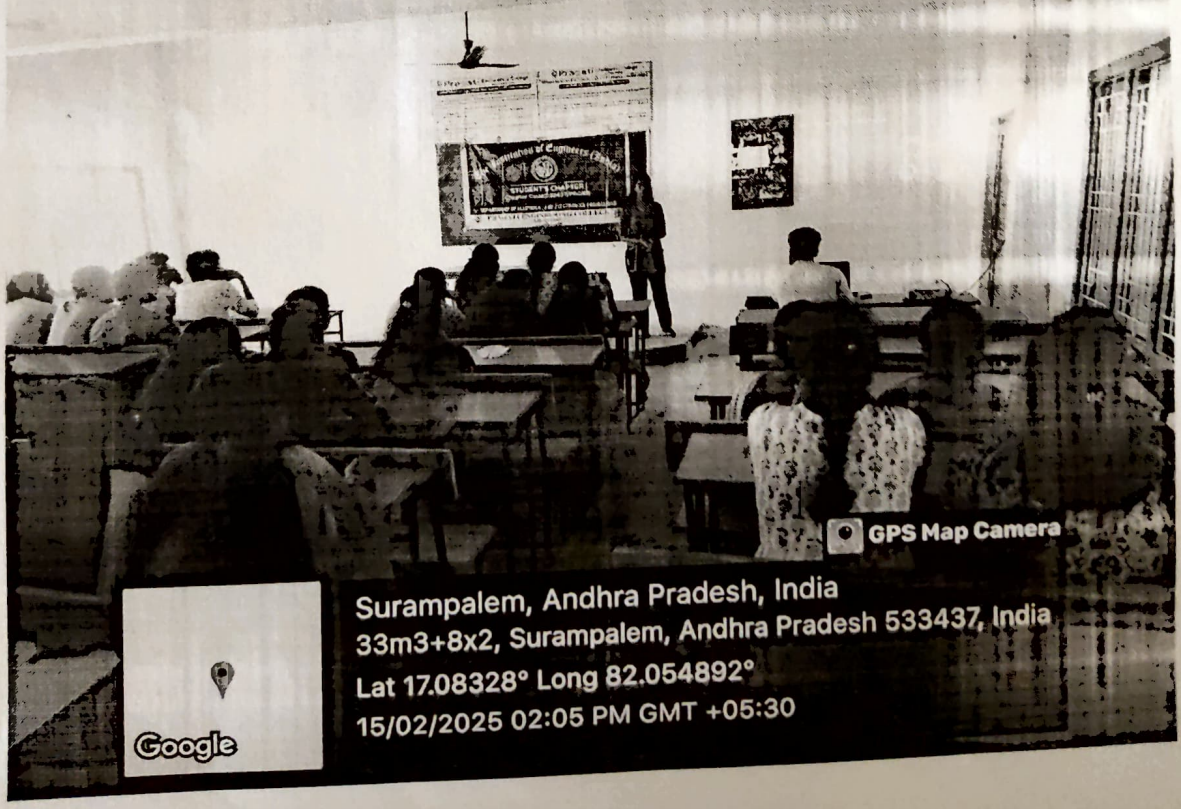

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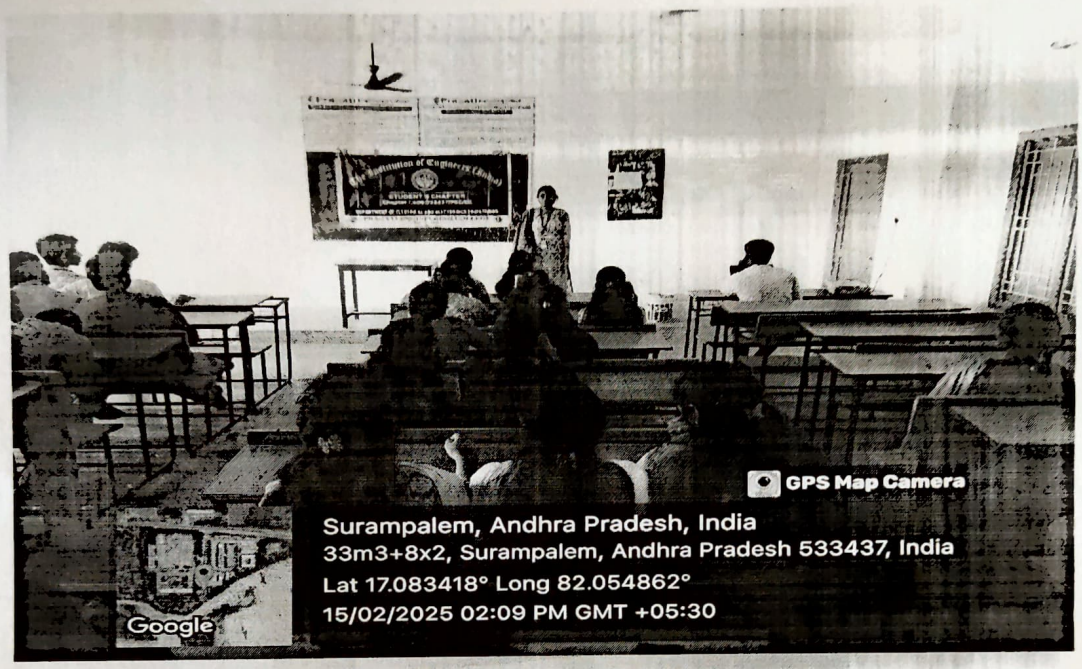

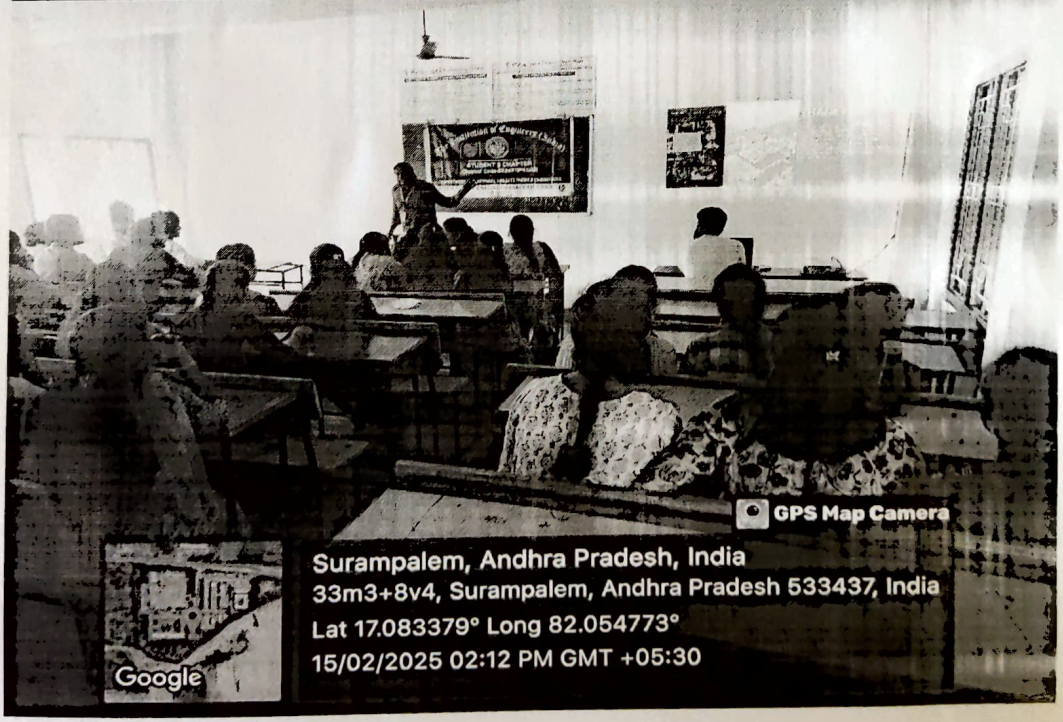

S. Nani Babu
IE(I) Coordinator

HOD/EEE

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Name of The Programme: GREEN HYDROGEN IMPORTANCE IN FUTURE

Date: 15-02-2025

S.NO	ROLL NUMBER	NAME OF THE STUDENT	SIGNATURE
1.	23A31A0201	A. Navya	A. Navya
2.	23A31A0203	G. Anusha	G. Anusha
3.	23A31A0204	G. Vasishtha	G. Vasishtha
4.	23A31A0205	K. Malleswari	K. Malleswari
5.	23A31A0206	K. Aswini	K. Aswini
6.	23A31A0208	K. Lalitha Sri	K. Lalitha
7.	23A31A0209	M. Pooja Kowsika	M. Pooja
8.	23A31A0210	M. Uma Nageswari	M. Uma
9.	23A31A0212	P. Sravani	P. Sravani
10.	23A31A0213	P. D. S. Ramya	P. D. S. Ramya
11.	23A31A0214	P. Sowmya	P. Sowmya
12.	23A31A0216	P. Chandini	P. Chandini
13.	23A31A0217	P. Jyothsna priya	P. Jyothsna priya
14	23A31A0223	Y. Trihasha	Y. Trihasha
15.	23A31A0224	B. Sridivya	B. Sridivya
16.	23A31A0225	S. Praveen Kumar	S. Praveen Kumar

17.	23A31A0229	E. Hima Vaishnavi	E. Hima
18.	23A31A0230	G. Balakrishna	G. Bala
19.	23A31A0232	K. Venkatesh	K. Venkatesh
20	23A31A0233	KETAN JAIN	Ketan Jain
21.	23A31A0235	K. Koushik	K. Koushik
22.	23A31A0236	K.V.S. Achyuth	K.V.S. Achyuth
23.	23A31A0243	M. Kiran	M. Kiran
24.	23A31A0238	M. Ram	M. Ram
25.	23A31A0240	M. Vamsi	M. Vamsi
26.	23A31A0241	M. Murali Krishna	M. Murali
27.	23A31A0258	Y. Sai Yoghnesh	Y. Sai Yoghnesh
28.	24A35A0203	V. Shalini	V. Shalini
29.	23A31A0211	M. B. Sri Vidya	M. B. Sri
30.	23A31A0221	P. Tharagini	P. Tharagini
31.	23A31A0218	R. Ch. Sahithi	R. Ch. Sahithi
32.	23A31A0245	N. Sai Yogesh	N. Sai Yogesh
33.	23A31A0246	N. Murthy	N. Murthy
34	23A31A0244	M. Sri Karthik	M. Sri Karthik
35.	24A35A0202	Sk. Shamshad	Shamshad
36.	24A35A0201	M. Ashok	M. Ashok
37.	23A31A0247	O. A.N.V. Satya Manikanta	O.A.N.V.S. Manikanta
38.	23A31A0242	M. Sivaji Kapu	M. Sivaji Kapu

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39	23A31A0250	P. Sekhar	P. Sekhar
40	24A35A0204	B Pramod	B Pramod
41	24A35A0210	K.S.S. Narendra	Narendra
42	23A31A0255	S. Teja	S. Teja
43	24A35A0205	D. Sai Venkat	Sai
44	24A35A0207	E. Shanmuka Durga Prasad	Prasad
45	24A35A0208	E. Sai Sri Kiran	Sri Kiran
46	24A35A0211	M. Dora Babu	M. Dora Babu