



Department of
ELECTRICAL &
ELECTRONICS
ENGINEERING



LUMINANCE'23



ABOUT THE DEPARTMENT

Vision of the department

To be a place of center of excellence by imparting quality teaching and innovative research, promoting technology development and consulting service in the frontier areas of Electrical and Electronics Engineering.

Mission of the department

To empower students with start of art technologies to meet the growing challenges of the industry. To educate the students with strong foundations to enable them for continuing education. And to promote research through constant interactions with R&D organisations and industry.

National level technical Symposium “PROCYON’2k23”

Our alumni **Mrs.D.Padmavathy, Assistant engineer at TNEB, Thoraipakkam** was honoured as chief guest for our PROCYON’2k23 a convention themed **“National level technical Symposium “PROCYON’2k23”** for engineering students has been organized by our EEE department of Anand Institute of Higher Technology on **06-05-2023** and the souvenir was released by her. Students from many engineering colleges have actively participated in various events like Paper/Multimedia/oral presentation, Circuit debugging, Project display, and Technical quiz. Some of the non technical events like treasure hunt, food challenge, carrom and chess were also conducted.

The cash prize was given for the winners and runners of the each event.



ONE DAY WORKSHOP ON ELECTRICAL VEHICLE & CAR TRANSMISSION

A One day workshop on “**ELECTRICAL VEHICLE & CAR TRANSMISSION**” has been arranged by our department and was conducted on **21-09-2022** . First day of the workshop was conducted by **MR.P. Xavier jaganathan**, Chief executive officer, **GOODWIN MOTORS**– Chennai.

. About 55 students from the department actively participated in the workshop.



INDUSTRIAL VISIT :







Our third year students were taken for A one day industrial visit to “Robonetics Automation solutions LLP” on **may 12 2023**. The students were actively learned about the robotic arms.







Around 25 students along with one faculty was sent to this IV



PLACEMENT PROGRESS IN FEB'23

The following students have got placed during the month of February 2023

S.No	Name of the student	photo	CompanyPlaced (only in February)
1.	B.Ajay		PERFECT GEARS, , K-LITE INDUSTRIES PVT LTD
2.	S.Arunachalam		PERFECT GEARS, , K-LITE INDUSTRIES PVT LTD
3.	Harish.M		PERFECT GEARS, , K-LITE INDUSTRIES PVT LTD
4.	T.Jayabaskar		PERFECT GEARS
5.	R.Prabhakaran		, PERFECT GEARS
6	M.Madhavan		PERFECT GEARS

7.	G .Shiyam saravanan		CSSCORP
8.	J.Reehan		CSSCORP
9.	M.Tajudeen		PERFECT GEARS
10.	V.Shalini		PERFECT GEARS, K-LITE INDUSTRIES PVT LTD
11.	Nandhini prasad		AvaSoft
12.	B. shyam		CSS CORP

SUSTAINABILITY HACKATHON CHALLENGE 2023

Our student **Mr.Pradeep.K** of third year EEE has participated and presented a paper in the **Grand finale** of sustainability hackathon challenge 2023 organised by **Enterprenuership development institute of India, Ahmedabad** on April 28th -29th .

Our college has provided travel allowance in order to encourage and motivate him.



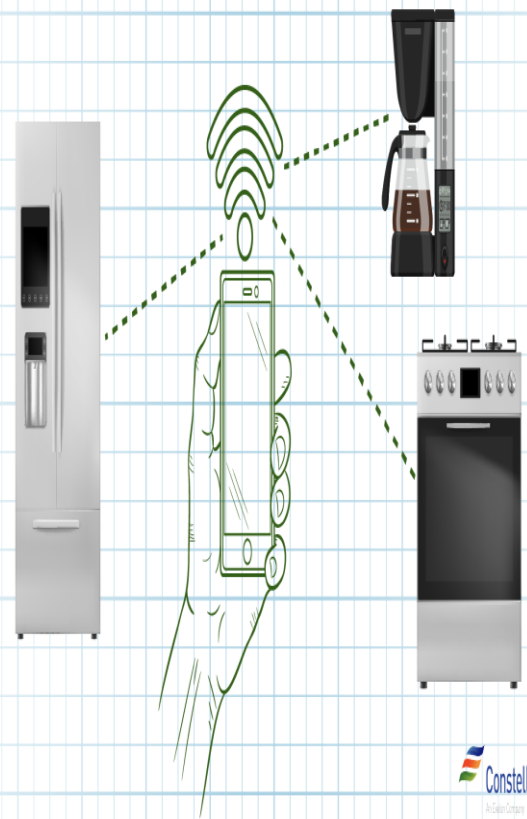
The 10 best energy saving home technologies

1. **Smart home hubs:** Ideal for tracking and controlling your energy usage, [smart home hubs](#) offer both energy savings and convenience. Connect virtually every energy-using device in your home to automate and optimize. Schedule your HVAC to power down to low during the day when you're at work, then crank it back up just before you return. Set your dishwasher to run at night when energy is cheaper. Program your television to turn off when it's been idle for a certain time. [Smart-home energy-saving strategies](#) include automating and customizing the operation of your devices for efficiency, convenience and comfort.

2. **Internet-connected appliances:** Connecting and automating kitchen appliances can save time, money and energy. Today's [smart kitchen gadgets](#) connect to your home automation system for convenience and savings. You can command your coffee maker to be ready with a hot beverage when you wake up. Preheat your oven on the way home from work so it's ready for making dinner. Optimize your refrigerator and freezer temperatures to minimize energy use.

Generally, [smart home devices that are worth it](#) tend to be in the kitchen, since that's where most energy is used in your

Connecting and automating kitchen appliances can save time, money and energy.



home. Many smart kitchen devices are also ENERGY STAR® rated for even more savings.

3. LED lights: The humble light bulb is an area where energy saving innovations have had a massive effect. [LED vs CFL bulbs](#) differ in technology. Instead of heating a filament until it glows, LED lights produce light from semiconductors. [LED lights](#) use 85% less energy and last 25 times longer than traditional bulbs.

To put that number in perspective, by the time most homes have switched to LED technology in 2035, over 569 TWh will be saved every year. This is equal to the energy output of ninety-two 1,000 MW power generating plants.

4. Smart thermostats: A smart thermostat connects to your smart hub and phone so you can program it according to your personal preferences and control it remotely. Higher-end [smart thermostats](#) use machine learning to detect patterns in your home and optimize how your heater or air conditioner runs, truly fine-tuning your climate control system to save energy. These devices record data you can use to determine your heating and air conditioning power usage patterns.

5. Energy-efficient insulation: Another new energy saving technology [area of innovation](#) is with



insulation. Some new options include products made with recycled materials like denim and automotive glass. Others focus on renewable sources like bamboo and sheeps wool.

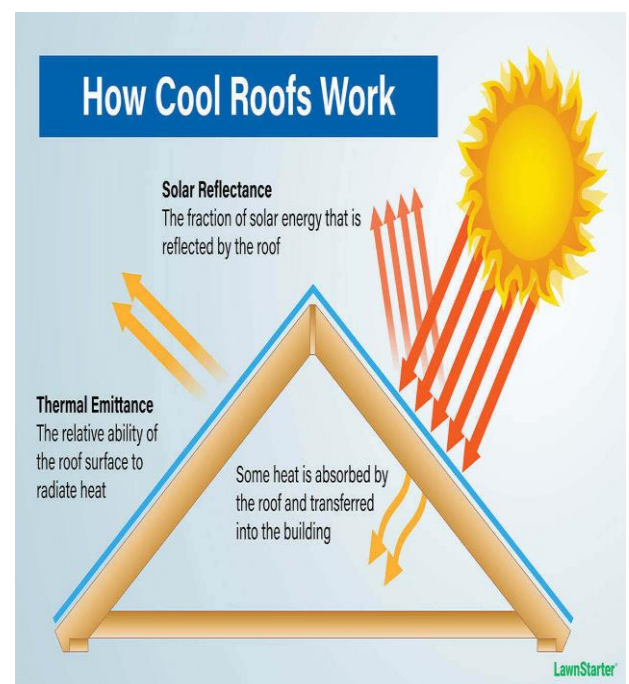
Another area of insulation innovation is in achieving high insulation value with lower manufacturing inputs. The value of insulation is both its cost and its ability to keep your home at an optimal temperature. Energy saving inventions in the area of insulation are steadily [improving heating efficiency](#)—and cooling, too.



6. Smart plugs and power strips:

When making a list of energy saving devices, you would have to include some low-tech items like [smart plugs](#) and smart power strips. These devices make any device plugged into them “smart.” That means any lamp, stereo, or household appliance can be remotely controlled, voice activated and programmed. You can use smart plugs to disconnect devices from power, putting an end to wasted energy when devices aren’t in use.

7. Cool roofs: The materials and color of your roof have a dramatic effect on the inside temperature of your home. [Cool roofs](#) are made with material that reflects heat. They are often painted or covered in a light-colored material that does not absorb heat.



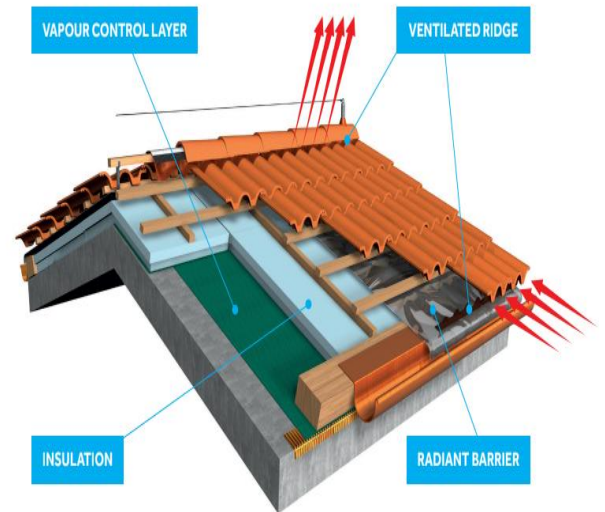
A roof covered in dark asphalt shingles can reach temperatures above 150°F in the hot

summer sun. A cool roof is worth considering if you live in southern climates. In the north, however, a dark roof that absorbs heat can help keep your home warmer in the winter.

8. Smart motion sensors: [Smart motion sensors](#) are a convenience that save energy around your home. They turn on lights and other appliances when you walk into a room, then turn them off when they no longer sense movement. You save money by not leaving lights and other devices on when not in use.

9. High-efficiency heat pumps: An energy-efficient alternative for heating and cooling your home, [high-efficiency heat pumps](#) work by transferring heat. In winter months, they move heat into your home. During the summer, they remove heat from your interior.

Transferring heat consumes much less energy than generating it or using a compressor to cool air. Newer heat pumps have more efficient fans and use a variety of energy sources, including geothermal. Because they're more efficient, running them will lower your power bill.



10. Smart HVAC vents

Smart vent systems give you the power to control the climate in your home, room by room. A smart thermostat only regulates your heat and air conditioning systems, not the temperature in any specific room.

You may have a room that gets direct morning sun, and thus is warm in the morning. A smart vent system can sense the temperature, and slow or stop heat from flowing into the room. In the afternoon, after the sun has moved to the other side of your house, that same room might get chilly. The smart vent can open to pour in the heat.

You can also adjust the temperature in any given room to suit your own needs. You might be working out in a room in the evening and prefer to blast the air conditioner in that room for an hour. Room-by-room fine tuning creates greater comfort while trimming your power bill.





“ Like every other viable environmental policy, The search for clean and green energy begins at home”



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