



GEMS ARTS AND SCIENCE COLLEGE

An ISO 9001 : 2015 Certified Institution

**(A unit of Global Education and Management Studies Co-operative Ltd., No. M. 782)
(Affiliated to University of Calicut and UGC Recognized under Section 2 (f) of UGC Act 1956)
Ramapuram, Kadungapuram P.O, Malappuram Dt., Kerala. Pin - 679321, Ph : 04933-256123, 255700
www.gemsasc.ac.in, email: gemsasc@gmail.com**

7.1.2

Geotagged Photographs and Reports of Initiatives

**(Alternative sources of
energy and energy conservation)**





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ENERGY CONSERVATION

Energy conservation along with sustainable development is one of the main aim put forwarded by the institution. Along with energy conservation campus also strives to minimize the pollution by using audio speakers to classrooms and using LED bulbs and projectors. E-waste management is done for the effective waste management and preventing the contamination of the surrounding. Napkin wending machines are installed in restrooms. Energy conservation is also done by installing 4 star rating AC and low energy consumption energy saving electrical equipment. Energy conservation is stabilized by minimal usage and high energy saving equipment.




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ALTERNATE SOURCE OF ENERGY

A well maintained solar power system is established in the college which is used as an alternative source of energy consumption. The solar panels have a capacity of 20 kW .The solar panel can produce an electricity of 85 to 90 units per day. The solar panels are installed over the roofing of administrative block and main block. This alternate source of energy limits the heavy depends on hydro-electric power and fosters the energy conservation.



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LOW ENERGY CONSUMPTION LED BULBS

The college takes great strides in modernizing its lighting infrastructure, predominantly adopting LED bulbs in various key areas. This comprehensive initiative spans significant locations such as the library, laboratories, classrooms, administrative offices and numerous other spaces throughout the campus.



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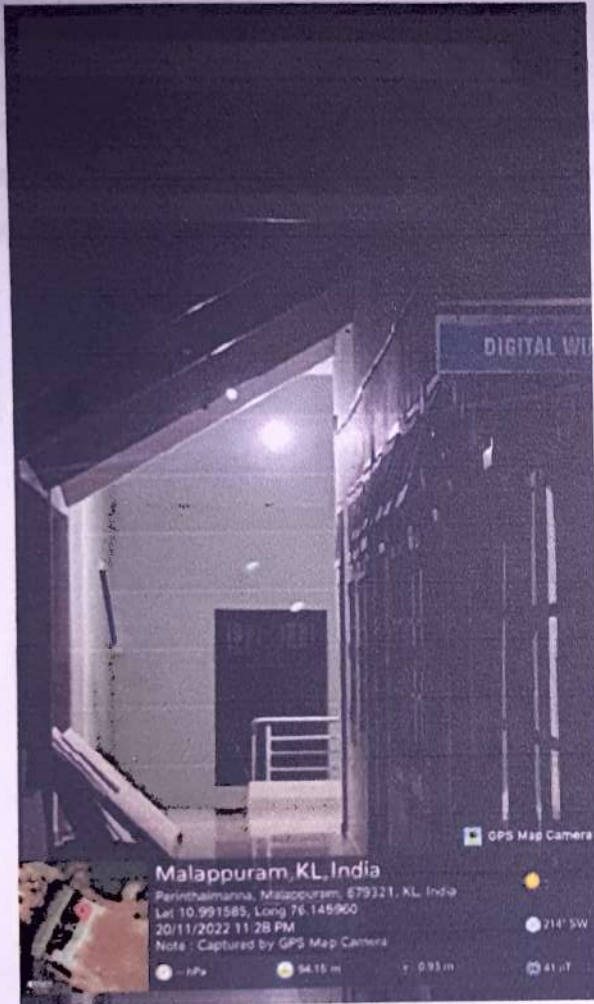
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LOW ENERGY CONSUMPTION INTERACTIVE PANEL FOR E-CONTENT PRESENTATION

Low energy consuming interactive panel is used in the Research and Innovation centre for the better presentation experience. While replacing the traditional black board it also enables an energy efficient method for the academic purposes.



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LOW ENERGY CONSUMPTION 4 STAR AC

The college has incorporated advanced 4-star rating low-energy conserving air conditioning units across the campus. This deliberate integration seeks to elevate comfort levels while prioritizing energy efficiency, fostering a contemporary and sustainable learning atmosphere. This initiative aligns with the institution's commitment to modern technologies and responsible energy consumption, ensuring an environmentally conscious approach to climate control within the campus environment.



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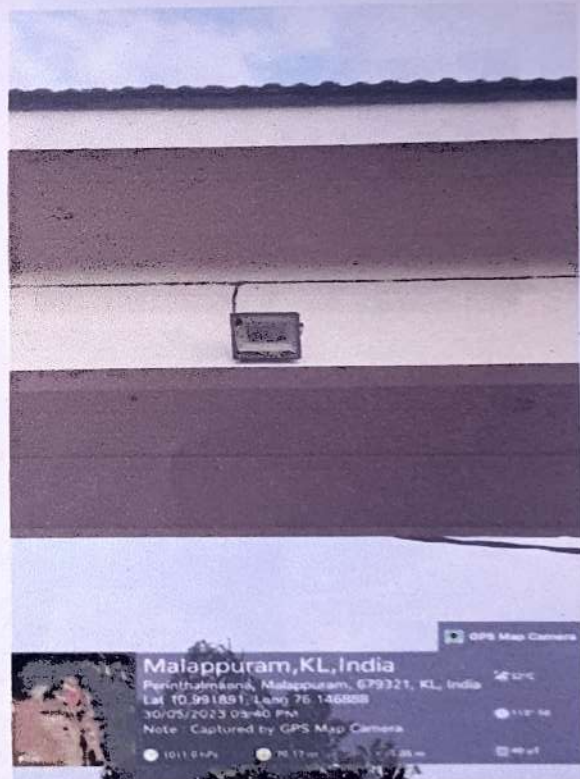
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LOW ENERGY CONSUMPTION LED FLOOD LIGHTS

The college implemented a sustainable lighting solution with the introduction of Low-Energy LED Flood Lights across the campus. This sustainable initiative not only contributes to a greener future but also offers numerous benefits to the college community.



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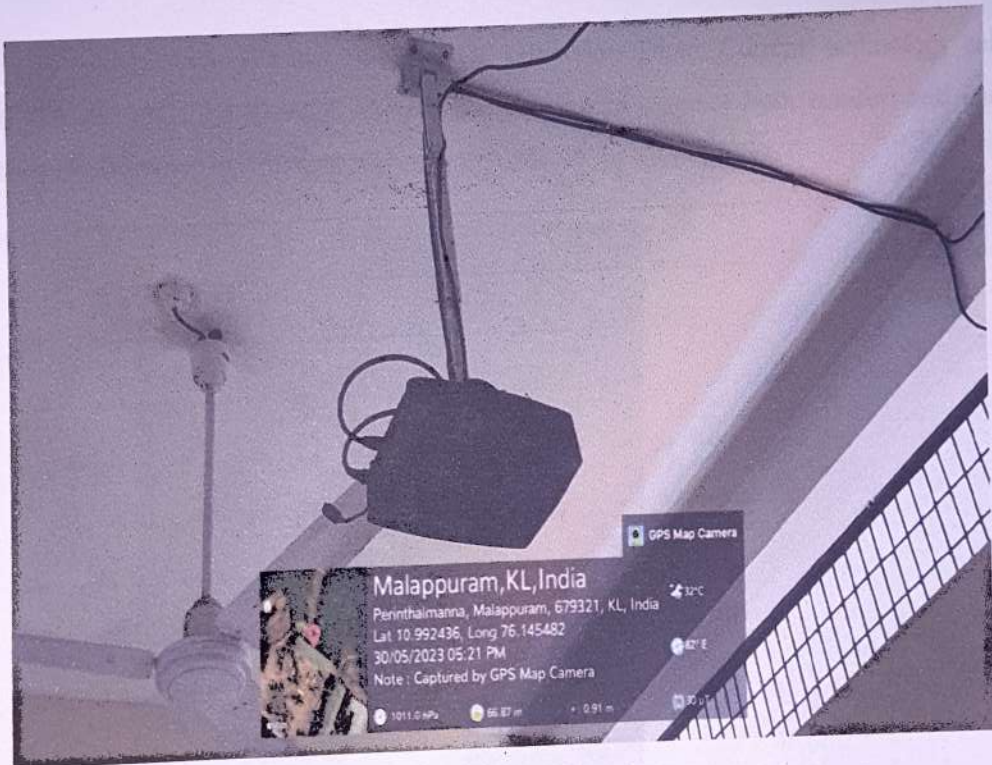
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LED PROJECTORS

The College has introduced LED projectors in classrooms, ushering in a new era of visual learning and interactive teaching methodologies. This technological advancement aims to elevate the overall educational experience for both educators and students.



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BLDC TECHNOLOGY CEILING FAN

The college adopted cutting-edge BLDC (Brushless Direct Current) technology ceiling fans in the campus. This strategic implementation aims to enhance both comfort and energy efficiency, contributing to a modern and sustainable learning environment.



Dr. NAVBEN MOHAN
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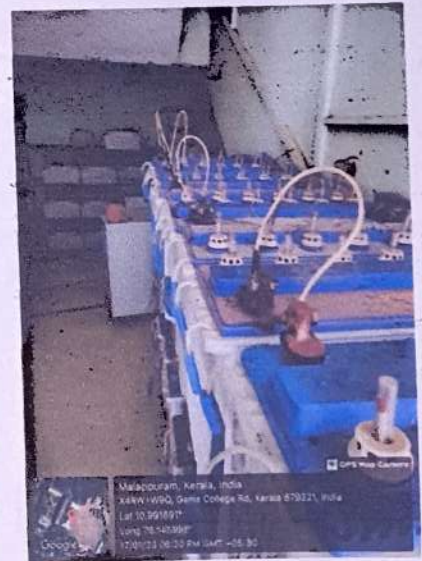
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ENERGY SAVING BATTERIES AND UPS POWER UNIT

Energy saving batteries and UPS power units optimize energy usage, ensuring efficient power supply during outages. By integrating these solutions, the college enhances sustainability, reduce electricity consumption, and safeguard critical systems. This not only aligns with eco-friendly practices but also promotes uninterrupted learning and operations, contributing to a greener and more resilient educational environment.



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PUBLIC ADDRESSING SYSTEM

In a move toward fostering clear and efficient communication on campus, GEMS College has introduced audio speakers in classrooms to streamline announcements. This initiative aims to create a more connected and informed learning environment for students, faculty, and staff.



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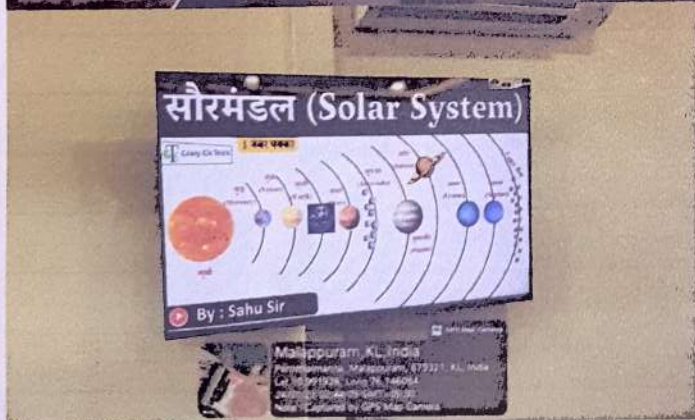
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4STAR SMART TVs

The college implemented 4 star smart TVs in its classrooms, ushering in a new era of interactive and immersive learning experiences for students. This technological upgrade aims to enhance the educational environment and engage learners in innovative ways in an energy efficient wa



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