SREE AYYAPPA COLLEGE

ERAMALLIKKARA, CHENGANNUR, ALAPPUZHA DISTRICT
KERALA

(GOVT. AIDED COLLEGE AFFILIATED TO THE UNIVERSITY OF KERALA)
NAAC Accredited



SSR (Cycle II)

Criterion – VII
INSTITUTIONAL VALUES AND BEST PRACTICES

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ENERGY CONSERVATION INITIATIVES

Sree Ayyappa College has initiated several energy conservation initiatives within and beyond the campus. The Department of Electronics, National Service Scheme and Unnath Bharath Abhiyan plays a major role in making the students and community conscious about conserving energy for a sustainable development.

Various activities undertaken by the institution are:

- **Student Solar Ambassador Project**
- **PCB Design and making Unit**
- **LED Bulb Assembling Unit**
- **Workshop on Energy Conservation Practices & LED Christmas Star Making**
- **Workshop on Energy Conservation Principles and Practices & hands own training in Energy Efficient Lighting**
- **One day workshop- "Energica"-oorjolsavam-2019**
- **Workshop on "Energy conservation practices"**
- **Urjakiran Project**

Student Solar Ambassador Project (SSA-2019)

On October 2, 2019, the Department of Electronics, in association with Unnath Bharath Abhiyan and National Service Scheme, organized a Student Solar Ambassador Workshop. Fifty students participated in the one-day workshop, which received technical support from IIT Bombay. The program was formally inaugurated by Dr. Shreekrishnakumar, Director of School of Technology and Applied Sciences, Mahatma Gandhi University. At the end of the day, participants lit up 50 solar lamps and took an energy conservation oath. The workshop was led by Dr. Suresh S. and supported by other faculty members and student trainers.





PCB Design and making Unit

The Department of Electronics organized workshops on PCB design and making on August 8 and August 21, 2019. Led by Mr. Ramesh Kumar, Research Scholar, Mahatma Gandhi University, the workshops saw active student participation. Following the successful completion of the workshops, the department established a PCB Design and Making unit equipped with a UV lamp assembly, etchant, developer, remover, and laminator. This unit now serves as a valuable resource for students to carry out academic and research activities.





LED Bulb Assembling Unit

Department of Electronics organized an LED bulb assembling unit in association with Centre for outreach Society activities. The unit has LED bulb punching machine, LED heat sink pressing machine, soldering station and tool set. The aims of this unit are,

1. Train the students to assemble quality LED bulbs.
2. Providing support to students for earning money through making and selling LED bulbs

3. Providing bulb assembling training for school & college students and interested public including Kudumbasree members.



One day workshop- Energy Conservation Practices & LED Christmas Star Making

On November 20, 2019 Department of Electronics conducted a workshop for school students regarding energy conservation and LED star assembling. In this workshop, talks were given on the topics “Energy Conservation Principles and Practice” and “Need for Energy Conservation”. Hands own training was given to students for assembling multi colour LED stars. More than 60 students from various schools had participated on the workshop and shared their experience.







One day workshop- Energy Conservation Practices & LED X'mus star making

On November 23, 2019, the department of Electronics, SAC, in association with Student Police Cadet (SPC) and Scouts, SN trust HSS, Cheriyanad conducted a one-day workshop at SN Trust HSS on Energy conservation practices and LED Star assembling. The programme was inaugurated by Dr. Anilkumar K.S., Principal, SAC Eramallikkara. About 50 students attended the programme and 36 students assembled their own LED stars.





വിദ്യാർഥികൾക്ക്
നക്ഷത്ര നിർമാണ പരിശീലനം

ചെങ്ങന്നൂർ: എസ്.എൻ ട്രസ്റ്റ് ഹയർ സെക്കൻഡറി സ്കൂളിൽ ക്രിസ്മസിനെ വരവേൽക്കാൻ വിദ്യാർഥികൾക്ക് എൽ.ഇ.ഡി സ്റ്റാർ നിർമാണ പരിശീലനം നൽകി. തിരുവിതാംകൂർ ദേവസ്വം ബോർഡിന്റെ അധീനതയിലുള്ള തിരുവൻവണ്ടൂർ ഇരമല്ലിക്കര ശ്രീഅയ്യപ്പ കോളജ് ഇലക്ട്രോണിക്സ് വിഭാഗമാണ് പരിശീലനം നൽകിയത്. പരിശീലന പരിപാടി കോളജ് പ്രിൻസിപ്പൽ ഡോ. കെ.എസ്. അനിൽകുമാർ ഉദ്ഘാടനം ചെയ്തു.

ഇൻകുബേഷൻ സെന്റർ കോ ഓഡിനേറ്റർ ഡോ. ആനന്ദകുമാർ, ഇലക്ട്രോണിക്സ് അധ്യാപകൻ അനന്ദിത് കൃഷ്ണൻ, വിപിൻ സി. നായർ, ഇലക്ട്രോണിക്സ് വിഭാഗം വിദ്യാർഥികൾ എന്നിവർ പരിശീലനത്തിന് മേൽനോട്ടം നൽകി. എസ്.പി.സി, സ്കൗട്ട് ആൻഡ് ഗൈഡ്, എൻ.എസ്.എസ് യൂനിറ്റുകളുടെ ആഭിമുഖ്യത്തിലാണ് പരിപാടി ശ്രദ്ധീകരിച്ചത്.

എൽ.ഇ.ഡി സ്റ്റാർ നിർമാണ പരിശീലനത്തിൽ പങ്കെടുത്തവർ



എൽഇഡിയിൽ ക്രിസ്മസ് നക്ഷത്രം തിളങ്ങും

One day workshop- Energy Conservation Practices & LED X'mus star making

On November 27, 2019, the Department of Electronics, SAC in association with National Service Scheme, Metropolitan HSS conducted a one-day workshop on importance of energy conservation and hands own training in LED star making. About 50 students attended the programme. The workshop was organized by the NSS members of Metropolitan HSS, Puthencavu, Chengannur who participated in the workshop conducted in SAC on 20 Nov 2019. The programme was a big success

thanks to the active participation of staffs, PTA members and students of Metropolittan HSS.






One day workshop- Energy Conservation Principles and Practices & hands own training in Energy Efficient Lighting

Department of Electronics, SAC in association with Energy and Environment Conservation Club, SG College, Kottarakkara conducted a one-day workshop on Energy conservation practices and hands own training in LED bulb and LED star assembling on December 10, 2019 at SG College, Kottarakkara. The workshop was inaugurated by Prof. Ushakumary KL, Head, Dept. of EL, SAC. The programme was sponsored by IQAC, SG College. In the academic section, the concept of energy conservation, its need, the different ways for conserving energy were discussed. Later, hands own training was given to students of SG college in assembling LED bulb and LED star.

One day workshop- "Energica"-oorjolsavam-2019

Venue: Malabar College of advanced Studies, Vengara,
Malappuram. Date: 14-December-2019.

On December 14, 2019, Department of Electronics, SAC in association with Electronics Association of Malabar College of Advanced Studies, Vengara conducted a one-day workshop "Energica"-Oorjolsavam-2019, which aims in conveying the energy conservation theme to the rural women. The workshop which took place in Malabar College of Advanced Studies, Vengara included academic sessions which handles the need for energy conservation, how to conserve energy using energy efficient devices and the working of different photo-electric and photo-voltaic

devices. Many students, Kudumbasree members and public attended the workshop. The participants were given training to build their own LED star and bulbs. The programme was supported by the District Panchayath, Malappuram.




One day workshop- "Energy Conservation Practices".

On December 22, 2019, Department of Electronics, Sree Ayyappa College Eramallikkara conducted a one-day workshop on Energy conservation practices in connection with the National Service Scheme camp of Swami Vivekananda Higher Secondary School, Pandanadu. The workshop consisted an academic section, which demonstrated the role of LED in energy conservation. Also, the need for energy conservation in the current scenario were discussed in detail. A technical section was also conducted and the participants were trained to assemble 9W LED bulbs. 50 bulbs were assembled in this section.




One day workshop- "Energy Conservation Practices"

Department of Electronics, Sree Ayyappa College, Eramallikkara conducted a one-day workshop on Energy conservation practices in connection with the National

Service Scheme camp of Koppareth HSS on December 22, 2019 at Govt. LPS, Puthiyavila Kayamkulam. The workshop consisted of an academic section, which demonstrated the role of LED in energy conservation. The need for energy conservation in the current scenario were discussed in detail. A technical section was also conducted and the participants were trained to assemble 9W LED bulbs. 25 bulbs were assembled in this section.




One day workshop- "Energy Conservation Practices"

On December 25, 2019, Department of Electronics, Sree Ayyappa College, Eramallikkara conducted a one-day workshop on Energy conservation practices in connection with the National Service Scheme camp of Metropolitan HSS, Puthencavu at Govt. JBS, Kezcherimel, Chengannur . The workshop consisted an academic section, which demonstrated the role of LED in energy conservation. Also, the need for energy conservation in the current scenario were discussed in detail. A technical section was also conducted and the participants were trained to assemble 9W LED bulbs. 50 bulbs were assembled in this section.




URJA KIRAN PROJECT-PHASE 1

Urja Kiran is an **Energy Conservation Awareness** Campaign led by the Energy Management Centre – Kerala (EMC) with the concurrence of Ministry of Power, Govt. of India. The Centre is devoted to the improvement of energy efficiency in the State, promotion of energy conservation and encouraging development of technologies related to energy through research, training, demonstration programs and awareness. The college has implemented some of these programs to raise this energy conservation awareness. The project was inaugurated by Sri. Saji Cherian, Honourable Minister of Fisheries and Culture on December 02, 2021 at Municipal Town Hall, Chengannur.



Honourable Minister of Fisheries and Culture Sri. Saji Cherian addressing the public after inaugural ceremony



Sri. Saji Cherian participating in the Signature Campaign to conserve energy



Chengannur Municipal Secretary Mr. Narayanan flags off the rally





NSS Program Officer distributing LED bulbs to local people



NSS Program Officer taking energy conservation class to Kudumbasree members

URJA KIRAN PROJECT-PHASE II

On December 26, 2022, Sri. Sajan PV, President, Thiruvanvandoor Panchayath inaugurated Urja kiran project Phase II was held at Thivanvandoor Higher Secondary School.



Inauguration of Urjakiran Project





Energy conservation rally



Urjakiran Project - Signature campaign