

REPORTS OF SCIENCE FORUM ACTIVITIES DURING 2023-24

1. National Energy Conservation Day celebrations-11.12.2023
2. Two Day workshop on ExpEYES-12.01.2024 and 13.01.2024
3. National Science Day celebrations- 01.03.2024

Report on LED Christmas Star Making Workshop

Organized by the Department of History and Physics, KKTm Govt. College

In Collaboration with NSS, IQAC, and Science Forum

On the Occasion of National Energy Conservation Day on 11th December, 2023

The Department of History and Physics at KKTm Govt. College, in collaboration with NSS, IQAC, and the Science Forum, organized a workshop on making LED Christmas stars. The event took place on the occasion of the National Energy Conservation Day and aimed to impart practical skills to students while promoting energy-efficient practices. A total of 30 students from various departments actively participated in the workshop, gaining hands-on experience in creating LED Christmas stars.

The workshop was inaugurated by Dr. Bindu Sharmila T K, the Principal of KKTm Govt. College. The event was graced by the presence of Dr. Remani K K, HOD History, Dr. Lovely George, HOD Physics, and Sri. Balaji M N, NSS Coordinator, who felicitated the gathering.

The workshop was led by a team of experienced individuals, including Dr. Dhanya N P, Assistant Professor in Physics, and students from the third year BSc Applied Physics program—Ajmalsha C A, Amjith M G, Akram P S, Midhunkrishna M K.

During the workshop, participants were enlightened on various aspects related to green energy consumption, sustainable energy resources, self-employability, skill enhancement, and interdisciplinary teaching-learning approaches. The aim was to not only teach the art of creating LED Christmas stars but also to instill a sense of responsibility towards energy conservation.

The LED Christmas star making workshop proved to be a successful and enriching event, providing students with both practical skills and valuable insights into the broader concepts of energy conservation. The collaboration between the departments of History and Physics, along with the support of NSS, IQAC, and the Science Forum, contributed to the holistic learning experience of the participants.

Date: 11.12.2023

Venue: Electronics lab


KKTM GOVT. COLLEGE, PULLUT
IN CONNECTION WITH THE NATIONAL ENERGY CONSERVATION DAY
DEPARTMENTS OF HISTORY AND PHYSICS
IN ASSOCIATION WITH IQAC, NSS AND SCIENCE FORUM


Organise

A WORKSHOP
 ON LED CHRISTMAS STAR MAKING


10.00AM


11 DEC 2023




Electronics lab

Dr. Remani K.K.
 HOD History

Dr. Bindu Sharmila T.K.
 Principal

Dr. Lovely George
 HOD Physics



Thrissur, Kerala, India
 66Q6+QP8, KKT College Rd, Kerala 680663, India
 Lat N 10° 14' 21.912"
 Long E 76° 12' 42.6312"
 11/12/23 10:15 AM



Report on the Two-Day Workshop on ExpEYES

Organized by: The Department of Physics & IQAC & Science Forum, KKTU Govt. College

In Association with: Academy of Physics Teachers (APT) Kerala

(12th and 13th January 2024)

The Department of Physics at KKTU Govt. College, in association with the Academy of Physics Teachers (APT) Kerala, successfully organized a two-day workshop on ExpEYES on the 12th and 13th of January 2024. The workshop aimed to enhance the understanding of experimental physics among faculty members and students while providing hands-on experience with the home laboratory equipment, ExpEYES. The workshop saw active participation from **17 faculty members and 33 enthusiastic students from various colleges.**

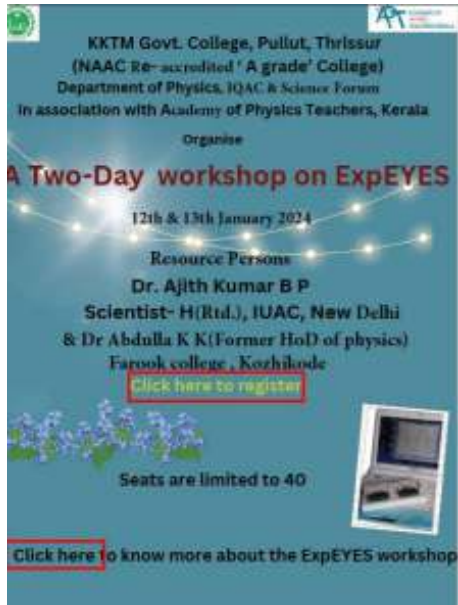
Principal Dr. Bindu Sharmila T K, Dr. Lovely George (HOD Physics & IQAC Coordinator of the College), Smt. Raga Menon (Science Forum member & Assistant Professor Botany), Sri. Arun V (Assistant Professor, Physics) & Dr. Dhanya N P (Coordinator & Assistant Professor Physics) felicitated the inaugural function.

Dr. Ajithkumar T B, Scientist H (Retired), Inter University Acceleration Centre, (IUAC) , Delhi & Dr. Abdulla K K, Former HOD of Physics, Farook College, Calicut served as the esteemed resource persons for the two-day workshop on ExpEYES organized by the Department of Physics, IQAC & Science Forum, KKTU Govt. College, in association with the Academy of Physics Teachers (APT) Kerala, held on the 12th and 13th of January 2024. Their extensive knowledge and experience greatly contributed to the success of the workshop, enriching the learning experience for all participants.

The workshop began with an introduction to ExpEYES, a versatile open-source science equipment developed for experiments in physics, electronics, and computer science. Participants were provided with their own ExpEYES kits, allowing them to engage in practical experiments immediately. Throughout the two days, participants were guided through a series of experimental sessions that covered a wide range of physics concepts. These experiments included studies in mechanics, electromagnetism, optics, and electronics, allowing attendees to gain practical insights into these fundamental areas of physics.

There was a presentation session at the end of the program in which participants showcased their projects using the ExpEYES kit. All participants were given participation certificates. An essential aspect of the workshop was encouraging students to design their experiments using ExpEYES. This hands-on approach allowed them to apply their theoretical knowledge and creativity, fostering a deeper understanding of physics concepts. The knowledge and skills acquired during the workshop are expected to have a lasting impact on the participants' academic and research endeavors. This event stands as a testament to the college's commitment to promoting excellence in the field of physics education.

Date & Venue : 12th & 13th, KKTU Govt. College



BROCHURE



INAUGURAL SESSION



Workshop



Presentation session of the participants



Valedictory session

Report of National Science Day 2024 Celebration at KKTM Govt. College on 01.03.2024

On March 1, 2024, KKTM Govt. College marked the National Science Day 2024 with great enthusiasm. The event was organized by the departments of Botany, Physics, Zoology, IQAC, and the Science Forum, in collaboration with the **Kerala Academy of Sciences**. Dr. Shaji K M, Head of the Zoology Department, warmly welcomed everyone to the gathering. Dr. Bindu Sharmila T K led the proceedings as the presiding authority.

The function was inaugurated by Dr. Raghu K G, a retired Chief Scientist from CSIR-NIIST, Thiruvananthapuram, and Vice President of the Kerala Academy of Sciences. The event saw the felicitation of notable individuals including Dr. G. Ushakumari, Vice Principal of the college and Head of the Malayalam Department, Dr. Lovely George, IQAC Coordinator and Head of the Physics Department, and Mr. Binoy Thomas MP, Head of the Botany Department. Smt. Soumya K C, the Coordinator of the program and Assistant Professor of Zoology, extended gratitude and appreciation through the vote of thanks.

The seminar, attended by 60 students and 12 teachers, proved to be a valuable opportunity for active engagement and learning. Dr. Muhammed Yousuf from Farook College, Kozhikode, shared insights into Dye Sensitized Solar Cells for ambient light harvesting, shedding light on renewable energy solutions. Additionally, Dr. Arathi Dharmarathnam, a Research Associate from NBFGR Cochin and the Indian Virological Institute, delved into the intricacies of Finfish viral diseases, expanding attendees' understanding of aquatic health concerns. Furthermore, Dr. Jomon Sebastian from CUSAT provided valuable insights into targeted therapy for effective cancer treatment, highlighting advancements in medical science aimed at combating one of society's most challenging health issues.

The seminar concluded promptly at 2:00 PM, leaving attendees enriched with valuable insights and knowledge. Overall, the National Science Day 2024 celebration at KKTM Govt. College was a resounding success, leaving a lasting impact on all those who participated and reaffirming the college's commitment to promoting scientific excellence and inquiry.

Seminar Details:

Date & Venue: 01.03.2024, Seminar Hall

DEPARTMENT OF ZOOLOGY, BOTANY AND PHYSICS, SCIENCE FORUM & IQAC
KKTM GOVERNMENT COLLEGE, PULLUT, THIRISSUR
 KERALA, INDIA, 680663
 (NAAC Reaccredited with A Grade)

NATIONAL SCIENCE DAY-2024
 (Indigenous Technology for Vikasath Bharath)

KERALA ACADEMY OF SCIENCES

On 1st of March, 2024 @ 10 AM
 Venue: Audio Visual Room

PROGRAMME SCHEDULE

Session	Topic	Speaker
Session I (10:00 AM to 11:30 AM)	Dye Sensitized Solar Cells for ambient light harvesting	Dr. Muhammed Yousuf (Farook College, Kozhikode)
Session II (11:30 AM to 12:30 PM)	Finfish viral diseases	Dr. Arathi Dharmarathnam (NBFGR Cochin and Indian Virological Institute)
Session III (12:30 PM to 2:00 PM)	Targeted therapy for effective cancer treatment	Dr. Jomon Sebastian (CUSAT)

Organizing Committee:
 Dr. Raghu K G (Inauguration), Dr. G. Ushakumari (Vice Principal), Dr. Lovely George (IQAC Coordinator), Mr. Binoy Thomas MP (Head of Botany), Smt. Soumya K C (Coordinator), Dr. Bindu Sharmila T K (Presiding Authority).



Thirissur, Kerala, India
 8806+QP8, KJTM College Rd, Kerala 880663, India
 Lat 10.239299°
 Long 76.211618°
 01/03/24 12:15 PM GMT +05:30



Thirissur, Kerala, India
 8806+QP8, KJTM College Rd, Kerala 880663, India
 Lat 10.239425°
 Long 76.212149°
 01/03/24 12:37 PM GMT +05:30



Thirissur, Kerala, India
 8806+QP8, KJTM College Rd, Kerala 880663, India
 Lat 10.239632°
 Long 76.211586°
 01/03/24 01:29 PM GMT +05:30



Thirissur, Kerala, India
 8806+QP8, KJTM College Rd, Kerala 880663, India
 Lat 10.239662°
 Long 76.211723°
 01/03/24 12:32 PM GMT +05:30

പുല്ലൂറ്റ് • കൈകെടിഎം ഗവ. കോളജിൽ ദേശീയ ശാസ്ത്ര ദിനത്തിൽ സെമിനാർ നടത്തി. കേരള അക്കാദമി ഓഫ് സയൻസസ് വൈസ് പ്രസിഡന്റ് ഡോ. കെ. ജി. രാഘു ഉദ്ഘാടനം ചെയ്തു. കോളജ് പ്രിൻസിപ്പൽ ഡോ. ടി. കെ. ബിന്ദു ശർമ്മയുടെ അധ്യക്ഷത വഹിച്ചു. സുവോളജി വിഭാഗം തലവൻ ഡോ. ഇ.എം. ഷാജി, വൈസ് പ്രിൻസിപ്പൽ ഡോ. ജി. ഉഷാകുമാരി, ഡോ. ലാലി ജോർജ്ജ്, ബോട്ടണി വിഭാഗം മേധാവി എം.പി. ബിനോയ് തോമസ്, കെ. സി. സൗമ്യ എന്നിവർ പ്രസംഗിച്ചു.

കേരളത്തിലെ 15 ചിത്രങ്ങൾ പ്രദർശിപ്പിക്കും. മുഴുവൻ സിനിമയും കാണാൻ 300 രൂപയുടെ പാസ് എടുക്കണം. നൂറു രൂപയുടെ പാസ് ഇടവേളകളിൽ പ്രദർശനം വീണ്ടും വീണ്ടും കളും സൗലഭ്യപ്പെടുത്തിയിട്ടുണ്ട്. പുതുതലമുറ നടിമാർക്ക് രാജേഷ് നാരായണനാണ് ക്യാമ്പ് ഡയറക്ടർ.

കൈകെടിഎം ഗവ. കോളജിൽ ദേശീയ ശാസ്ത്ര ദിനം

പുല്ലൂറ്റ് • കൈകെടിഎം ഗവ. കോളജിൽ ദേശീയ ശാസ്ത്ര ദിനത്തിൽ സെമിനാർ നടത്തി. കേരള അക്കാദമി ഓഫ് സയൻസസ് വൈസ് പ്രസിഡന്റ് ഡോ. കെ. ജി. രാഘു ഉദ്ഘാടനം ചെയ്തു. കോളജ് പ്രിൻസിപ്പൽ ഡോ. ടി. കെ. ബിന്ദു ശർമ്മയുടെ അധ്യക്ഷത വഹിച്ചു. സുവോളജി വിഭാഗം തലവൻ ഡോ. ഇ.എം. ഷാജി, വൈസ് പ്രിൻസിപ്പൽ ഡോ. ജി. ഉഷാകുമാരി, ഡോ. ലാലി ജോർജ്ജ്, ബോട്ടണി വിഭാഗം മേധാവി എം.പി. ബിനോയ് തോമസ്, കെ. സി. സൗമ്യ എന്നിവർ പ്രസംഗിച്ചു.

കുസാറ്റിലെ ബയോ ടെക്നോളജി വിഭാഗം അസിസ്റ്റന്റ് പ്രഫ. ഡോ. ജോമോൻ സെബാസ്റ്റ്യൻ, കോഴിക്കോട് ഫാറൂഖ് കോളജ് കെമിസ്ട്രി വിഭാഗം അസിസ്റ്റന്റ് പ്രഫ. ഡോ. മുഹമ്മദ് യൂസഫ്, ഡോ. ആരതി ധർമ്മരത്നം എന്നിവർ ക്ലോസെടുത്തു.

കോളജിലെ സുവോളജി, ഫിസിക്സ്, ബോട്ടണി വിഭാഗങ്ങൾ, സയൻസ് ഫോറം, ഐ ക്ലബ്ബ് എന്നിവിടങ്ങളിൽ കേരള അക്കാദമി ഓഫ് സയൻസസ് എന്നിവർ ചേർന്നാണ് ശാസ്ത്ര ദിനം ആചരിച്ചത്.

<https://youtu.be/SfGaW-rPkoE>