

DEPARTMENT OF PHYSICS ACTIVITY REPORT 2025-26

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Moon Day Celebration Report – 29th July 2025

Moon Day was celebrated at KKTm Government College, Kodungallur, with an engaging and informative session focused on lunar missions. The event was held on **29th July 2025 at 2:30 PM in the college's Audio-Visual Room**. The programme featured two esteemed resource persons: Shri K.K. Mohandas, retired Headmaster and amateur astronomer, and Shri V.S. Sreejith, Director of the Science Centre, Kodungallur.

The event was inaugurated by the Principal, Prof. (Dr.) Bindu Sharmila T. K., followed by a warm welcome address by Dr. Raghu O (HOD, Physics department). Dr. Lovely George, IQAC Coordinator, felicitated the programme. Dr. Dhanya N. P., Science Forum Coordinator, proposed the vote of thanks.

The session witnessed the enthusiastic participation of **78 students from various departments**. The event was jointly organized by the Department of Physics, Science Forum, IQAC of KKTm Government College, and the Science Centre, Kodungallur. The primary objective of the programme was to promote science education and create awareness about space science and lunar exploration among students.



Brochure



Welcome address- Dr. Raghu O (HOD, Physics)



Inauguration- Principal-Prof.(Dr.) Bindu Sharmila T K



Felicitation-Dr. Lovely Geroge(IQAC coordinator)



Sri. Sreejith V S (Director, Science centre, Kodungallur)



Talk on Lunar Mission- Sri K K Mohandas (Amateur Astronomer)



പുല്ലൂറ്റ് കെ.കെ.ടി.എം. ഗവ. കോളേജിലെ മുൻ ഡേ ആഘോഷം പ്രിൻസിപ്പാൾ ഡോ.ബിന്ദു ശർമിള ഉദ്ഘാടനം ചെയ്യുന്നു

മുൻ ഡേ ആഘോഷം

പുല്ലൂറ്റ് കെ.കെ.ടി.എം. ഗവ.കോളജ് മുൻ ഡേ ആഘോഷിച്ചു. ഫിസിക്സ് വിഭാഗം അദ്ധ്യക്ഷൻ ഡോ. റെഖാ ഒ. സ്വാഗതം ആശംസിച്ചു. പ്രിൻസിപ്പാൾ പ്രൊഫ. ബിന്ദു ശർമിള ടി.കെ. പരിപാടി ഉദ്ഘാടനം ചെയ്തു. ശാസ്ത്രബോധമുള്ള യുവതലമുറയാണ് രാജ്യത്തിന്റെ പുരോഗതിക്കാവശ്യം എന്ന് പ്രിൻസിപ്പാൾ പറഞ്ഞു. ഐക്യം.സി. കോ-ഓർഡിനേറ്റർ ഡോ. ലാലി ജോർജ് പരിപാടിയിൽ ആശംസകൾ അർപ്പിച്ചു. വിവിധ ചന്ദ്ര ദൗത്യങ്ങൾ എന്ന വിഷയത്തെ ആസ്പദമാക്കിക്കൊണ്ട് കെ.കെ. മോഹനാസ് (റിട്ട. ഹെഡ്മാസ്റ്റർ & അമേച്വർ ആസ്ത്രോണോമർ), വി.എസ്. ശ്രീജിത്ത് (സയൻസ് സെന്റർ ഡയറക്ടർ, കൊടുങ്ങല്ലൂർ) എന്നിവരാണ് ക്ലാസ് നയിച്ചത്. ഇത്തരം ശാസ്ത്ര സംരംഭങ്ങളിലേക്ക് വിദ്യാർത്ഥികളെ ആകർഷിക്കാൻ പ്രസ്തുത പരിപാടി ശ്രദ്ധയൂന്നി. സയൻസ് ഫോറം കോഓർഡിനേറ്റർ ഡോ. ധനു എൻ.പി. നന്ദി രേഖപ്പെടുത്തി. കോളേജിലെ വിവിധ വകുപ്പുകളിൽ നിന്നായി വിദ്യാർത്ഥികൾ പരിപാടിയിൽ പങ്കെടുത്തു. ഫിസിക്സ് വിഭാഗം, സയൻസ് ഫോറം, ഐക്യം എ സി എന്നിവയും സയൻസ് സെന്റർ, കൊടുങ്ങല്ലൂരും സംയുക്തമായാണ് പരിപാടി സംഘടിപ്പിച്ചത്. വിദ്യാർത്ഥികളിൽ ശാസ്ത്രബോധം വളർത്തുക എന്നതാണ് പരിപാടിയുടെ പ്രധാന ഉദ്ദേശം.

Express Daily-30.07.2025

Report on Institution Visit to CUSAT – 13th November 2025

A team of 20 students from various departments and 3 faculty members from the Department of Physics visited the Cochin University of Science and Technology (CUSAT) on 13 November 2025 as part of an institutional exposure programme. The visit aimed to provide students with hands-on understanding of modern research facilities and current advancements in physics and allied fields.

The programme began in the morning with a visit to the International School of Photonics (ISP). Students were divided into three groups and guided through five advanced research laboratories. They received detailed demonstrations and interactions from research scholars and faculty members. Major equipment and experimental setups introduced during the visit included the RF sputtering unit, thin-film coating systems, thermal lensing experimental setup, laser speckle photography unit, optical fiber design instruments for sensing applications, UV-Visible spectrometer, and photoluminescence spectrometer. Through these demonstrations, students

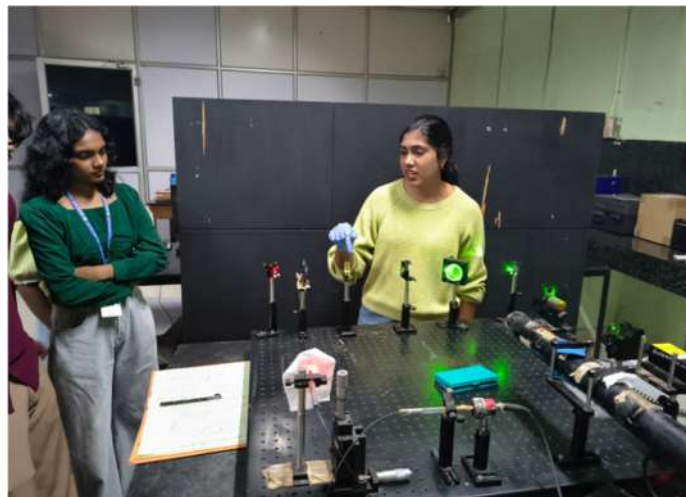
gained valuable exposure to thin-film fabrication, optical characterization techniques, laser-based measurements, and photonic sensor design.

After lunch, the team visited the Quantum Century Exhibition organized at CUSAT. The exhibition presented the historical development and evolution of quantum theory, covering major milestones, fundamental experiments, and applications. Exhibits included sections on the Raman Effect, quantum computing, quantum biology, quantum dots, and interactive models explaining various quantum phenomena. The volunteers provided engaging explanations, making complex concepts accessible and interesting.

Students particularly enjoyed the puzzle corners, where quantum-themed problem-solving stations were set up. Displays featuring early computers and pre-transistor-era devices generated curiosity about the technological evolution leading to modern electronics. The virtual reality room, offering an immersive 3D tour of CERN, was another major highlight. The “QD Shop” at the venue offered puzzles, books, souvenirs, and Quantum Year T-shirts, adding an enjoyable element to the learning experience.

Overall, the visit provided an enriching experiential learning opportunity for both students and faculty. It helped bridge theoretical knowledge with real-world applications in photonics, spectroscopy, and quantum science. The team concluded the visit and returned by 5:30 PM, carrying valuable insights and renewed enthusiasm for scientific exploration.









Study tour report on 10.02.2026 and 11.02.2026

The Department of Physics organized a study tour to the Kodaikanal Solar Observatory (KSO) with the objective of providing students with practical exposure to solar astronomy and observational research. The tour was attended by 10 students along with 2 faculty members.

During the visit, the participants were introduced to the history and research activities of the observatory. Scientists explained the functioning of the solar telescopes, spectrographs, and other instruments used to observe the Sun and study phenomena such as sunspots, solar flares, and solar activity. The students also learned about data collection, image processing, and the importance of continuous solar observations in understanding space weather.

The interaction with the scientific staff helped students gain valuable insights into modern astronomical research and career opportunities in astrophysics. Overall, the study tour was highly informative and enriched the students' understanding of solar physics by connecting classroom concepts with real-world research and advanced observational facilities.



Study tour to Solar Observatory, Kodaikanal

Report on National Science Day Celebrations – 13.02.2026

The Department of Physics, KKTU Govt. College, in association with the IQAC and Science Forum, organized an Orientation Programme on Sky Gazing Using Mobile App in collaboration with Aura Edify Global School as part of the National Science Day 2026 celebrations.

The programme was conducted at Aura Edify Global School, Chappara with the objective of creating scientific awareness and fostering curiosity about astronomy among school students. The session was formally inaugurated by Mrs. Sumeetha Sandhaosh, Principal of Aura School. In her inaugural address, she emphasized the importance of developing scientific temper and encouraging students to explore the wonders of the universe.

Dr. Raghu O, Associate Professor and, Head of the Department of Physics, KKTU Govt. College, felicitated the gathering and highlighted the significance of observing the night sky and understanding celestial objects through modern technological tools such as mobile applications.

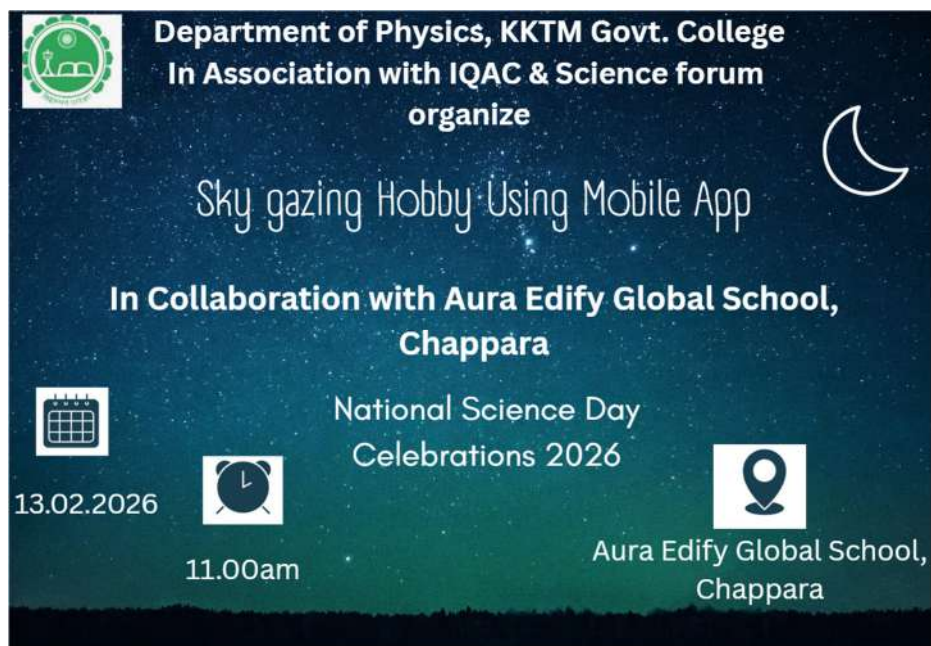
The orientation classes were led by first-year MDC students of the Department of Physics — Ashik Anwar (first year BSc. Zoology), Anandhu T S (first year BSc. Botany) Ashik V S (first year BSc. Applied Physics), and Shafla Sona (first year BSc. Botany) — under the guidance of Dr. Dhanya N P (Associate Professor of Physics and coordinator Science forum). The sessions introduced students to sky-gazing techniques using mobile applications, helping them identify stars, planets, constellations, and other celestial bodies in an interactive and engaging manner.

The programme successfully developed scientific attitude among the participants and inspired young minds to cultivate interest in science and astronomy. The initiative served as a meaningful outreach activity, strengthening the collaboration between higher education institutions and schools in promoting science education.

The event concluded with positive feedback from students and faculty, marking it as a successful component of the National Science Day 2026 celebrations.

Date: 13.02.2026

Venue: Aura Edify Global School, Chappara



Brochure

നക്ഷത്രനിരീക്ഷണ ശിത്പശാല

കൊടുങ്ങല്ലൂർ • കെകെടിഎം ഗവ. കോളജ് ഫിസിക്സ് വിഭാഗം ഓറ എഡിഫൈ ഗ്ലോബൽ സ്കൂളിൽ ദേശീയ ശാസ്ത്ര ദിനാചരണത്തിന്റെ ഭാഗമായി നക്ഷത്രനിരീക്ഷണത്തിൽ ശിൽ

പശാല നടത്തി. ഓറ എഡിഫൈ ഗ്ലോബൽ സ്കൂൾ പ്രിൻസിപ്പൽ സുമിത സന്തോഷ് ഉദ്ഘാടനം ചെയ്തു.

കെകെടിഎം ഗവ. കോളജ് ഫിസിക്സ് വിഭാഗം മേധാവി ഡോ. ഒ.രഘു, ഡോ. എൻ.പി.ധന്യ, ആഷിക് അൻവർ, ടി.എസ്.അനന്തു, ഷഫ്ല സോനാ, വി.എസ്. ആഷിക് എന്നിവർ പ്രസംഗിച്ചു.



 കെ കെ ടി എം ഗവൺമെന്റ് കോളേജ് ഫിസിക്സ് ഡിപ്പാർട്ട്മെന്റിന്റെ നേതൃത്വത്തിൽ സംഘടിപ്പിച്ച ശില്പശാല

ശില്പശാല സംഘടിപ്പിച്ചു

കൊടുങ്ങല്ലൂർ: കെ കെ ടി എം ഗവൺമെന്റ് കോളേജ് ഫിസിക്സ് ഡിപ്പാർട്ട്മെന്റിന്റെ നേതൃത്വത്തിൽ ഓറ എഡിഫൈ ഗ്ലോബൽ സ്കൂളിൽ ദേശീയ ശാസ്ത്ര ദിനാചരണത്തിന്റെ ഭാഗമായി സ്റ്റാർ ഗേസിംഗ് ഫോബി എന്ന വിഷയത്തെ ആസ്പദമാക്കി ശില്പശാല സംഘടിപ്പിച്ചു. വളർന്നുവരുന്ന വിദ്യാർത്ഥികളിൽ ശാസ്ത്രബോധം പടർത്തേണ്ടതിന്റെ ആവശ്യകത എടുത്തു പറഞ്ഞുകൊണ്ട് നടത്തിയ പ്രസ്തുത പരിപാടി രണ്ടു ക്യാമ്പസുകളിലെയും കുട്ടികൾക്ക് ഒരേപോലെ പ്രയോജനപ്രദമായി ഓറ എഡിഫൈ ഗ്ലോബൽ സ്കൂളിലെ പ്രിൻസിപ്പൽ സുമിത സന്തോഷ് ഉദ്ഘാടനം ചെയ്തു. കെ കെ ടി എം ഗവൺമെന്റ് കോളേജിലെ ഫിസിക്സ് വിഭാഗം മേധാവി ഡോ. രഘു ഒ. ആശംസകൾ അറിയിച്ചു. ഫിസിക്സ് വിഭാഗം അസോസിയേറ്റ് പ്രൊഫസർ ഡോ. ധന്യ എൻ. പി, വിദ്യാർത്ഥികളായ ആഷിക് അൻവർ, അനന്തു ടി എസ്, ഷഫ്ല സോനാ, ആഷിക് വി.എസ് എന്നിവർ ചേർന്ന് മൊബൈൽ ആപ്ലിക്കേഷൻ വഴി വാനനിരീക്ഷണം നടത്തുന്നത് എങ്ങനെ എന്ന് കുട്ടികൾക്ക് പരിചയപ്പെടുത്തി.





Report on National Science Day Celebrations – 28.02.2026

The Department of Physics, KKTU Govt. College, in collaboration with Ayurdeen Scientifica and Carmel College Autonomous, jointly organized an International Webinar titled “Science Beyond the Classroom” on 28 February 2026 in connection with National Science Day 2026. The programme was conducted in association with the Science Forum and IQAC.

The webinar commenced with a welcome address by Dr. Raghu O, who highlighted the significance of National Science Day and the importance of extending scientific learning beyond conventional classroom settings. The programme was formally inaugurated by Dr. Bindu Sharmila T K, Principal, who emphasized the need to foster scientific temper and research aptitude among students.

Dr. Safna Hussan K P delivered the keynote address on the topic Science Beyond the Classroom. In her talk, she elaborated on innovative approaches to learning science, interdisciplinary research opportunities, and the importance of experiential learning in shaping young researchers.

Felicitations were offered by Dr. Lovely George IQAC coordinator and Dr. Dhanya N P, Science Forum Coordinator, who appreciated the initiative taken by the Department of Physics to organize such an academically enriching programme. The session concluded with a vote of thanks proposed by Dr. Greatel Francis Paramel, HOD Physics, CARMEL College(Autonomous), Mala.

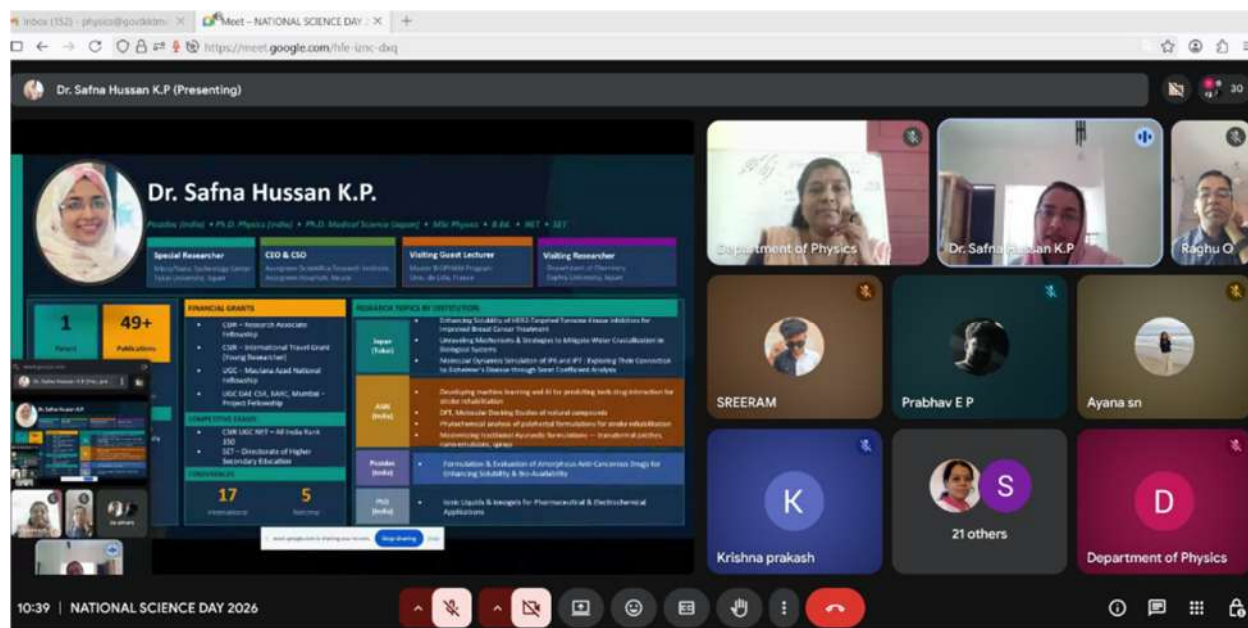
Approximately 150 students and teachers from various institutions participated in the webinar. The programme successfully achieved its objective of popularising science and inculcating a research culture among students.

Date:28.02.2026

Venue: Department of Physics, KKTm Govt. College, Pullut



Brochure



Report on 60-Hour Summer Internship Programme Organised by the Departments of Chemistry & Physics in association with IQAC, KKTU Govt. College, Pullut from 16.04.2026 to 27.04.2026

A 60-hour internship programme was successfully conducted over a period of 10 days by the Departments of Chemistry and Physics, in association with the IQAC of KKTU Govt. College. The programme focused on *Scientific Tools and Materials Science* and witnessed the active participation of 23 students from five nearby colleges.

The internship aimed to provide hands-on exposure and research-oriented learning to students. Participants were highly engaged throughout the programme and demonstrated commendable enthusiasm. As part of the academic training, students prepared individual reports and presented their work using *Beamer* and *LaTeX*, following a structured research format. This approach helped them gain familiarity with scientific documentation and presentation techniques.

The sessions were handled by faculty members from both departments, who served as resource persons. Classes and practical sessions were conducted in the Chemistry Lab, Physics Lab, and the Network Resource Centre, ensuring a comprehensive learning environment.

Based on overall performance, **Ms. Earlin Maria Milton** from PMG College, Chalakudy, and **Mr. Navaneeth S. Warriar** from Carmel College (Autonomous), Mala, were selected as the *Best Interns* and were awarded merit certificates. All participants of the internship programme were awarded certificates of completion.

Such FYUG internship initiatives play a crucial role in equipping students with the necessary skills and knowledge to meet evolving societal and academic demands. The feedback received from participants was highly encouraging, reflecting the success of the programme and highlighting the need for organizing similar initiatives in the future.




**Departments of Physics & Chemistry,
KKTU Govt. College, Pullut**



Register Here

Programme Details
Duration: 60 Hours
Dates: 16 April 2026 – 27 April 2026
Eligibility
FYUG Students from Physics / Chemistry background



**SUMMER INTERNSHIP
PROGRAMME
2026 (SIP KKTU 2026)**

- Both Physics & Chemistry FYUG students can join
- Certificate on successful completion
- Last date of joining-07.04.2026





Seats: 25 (Limited)
Last Date: 07 April 2026

Course Modules
LaTeX, Beamer, Data Analysis, Materials Science,
NMR Spectroscopy, Small Molecule Synthesis

Resource Persons
Dr. Raghu O, Dr. Lovely George, Dr. Dhanya N P, Arun V,
Dr. Vinayaree S, Dr. Suma C S,
Dr. Shine A, Dr. Dhanya S R, Sabitha P V, Midhun T R

Organizing Committee
Prof. (Dr.) Ramya R (Principal),
Dr. Raghu O (Vice Principal & HOD Physics)-99467 87187
Dr. Suma C S (HOD Chemistry)-86063 39928
Dr. Lovely George (QAC Coordinator)
Dr. Dhanya N P (Coordinator Physics)-9446145634, Dr. Shine A (Coordinator Chemistry)

Brochure



Malayalamanorama Daily 17.04.2026



