



Message from our Leaders



We are about to surpass a significant milestone in the voyage - the silver jubilee year. It is good to have an introspection of the past at this point. Also to dream about the future. More than 5000 students graduated from our institute and they are serving various institutions around the globe.



It is both an honor and a privilege to step into the interim role of Principal at GEC Idukki. I am happy to note the remarkable progress the institute has made over the years. Our robust academic infrastructure features well-equipped buildings, state-of-the-art laboratories, and facilities.

We could build sufficient infrastructure for the institute for academic purposes and we have well equipped laboratories. However, we need to improve a lot for accommodation of students, sports facilities and other infrastructure like seminar halls and auditoriums. The academic year 2023-24 was a fruitful one for GEC Idukki. Our students secured university ranks, succeeded in the LEAP program, and won medals in university sports events. We could incubate two companies in TBI and we are about to establish a Tinkering Lab sponsored by Maker Bhavan Foundation. Our faculty members worked together with the forest and wildlife department to bring out AI based solutions to reduce man-animal conflicts and to provide better solutions for wildlife conservation. I am confident that with the experiences and expertise we have achieved during the past 25 years, we can take the institution to higher levels of standards in technical education contributing significantly to the betterment of humanity. **Best Wishes, Dr. Suresh K (former Principal.)**

In a beautiful rural area, GEC Idukki offers a unique blend of tranquility and opportunity for academic excellence. While our location presents particular challenges, it also provides a strong sense of community and a peaceful environment that fosters innovation and learning. As we look ahead, I am confident that we can raise GEC Idukki to even greater heights with the collective strength, experience, and expertise we have gained over the past 25 years. I have observed the unwavering commitment and expertise of our strong faculty and staff at GEC Idukki, whose dedication continues to shape the success and growth of our institution. Together, we will strive to set new standards in technical education and continue making meaningful contributions to our community and society. I would like to extend my heartfelt appreciation to the newsletter team for their dedicated efforts in showcasing the achievements and milestones of GEC Idukki, ensuring that our collective progress is well-documented.

Best Wishes, Dr. Baiju Sasidharan, Principal.

Vision of GEC Idukki

To be a premier technical institution imparting knowledge, to carve technically competent and research minded professionals with social responsibilities



GEC Idukki in News



യങ് ഇന്നോവേഷൻ പ്രോഗ്രാം: ജില്ലാതല ശില്പശാലയ്ക്ക് തുടക്കമായി

ഇടുക്കി: വിദ്യാർത്ഥികളിൽ പുതിയ ആശയങ്ങളും കണ്ടുപിടുത്തങ്ങളും പ്രോത്സാഹിപ്പിക്കുന്ന സംസ്ഥാന സർക്കാർ പരിപാടിയായ യങ് ഇന്നോവേഷൻ പ്രോഗ്രാമിന്റെ (ഐഐപി) ഭാഗമായി സർക്കാർ വകുപ്പുകളുടെ ശില്പശാലയ്ക്ക് ഇടുക്കി ജില്ലയിൽ തുടക്കമായി. ജില്ലാ കളക്ടർ ഷീബ ഷോർജ് ശില്പശാല ഉദ്ഘാടനം ചെയ്തു. ജില്ലാ പ്ലാനിംഗ് ഓഫീസർ ഡോ. സാബു വർഗീസ് അധ്യക്ഷത വഹിച്ച പരിപാടിയിൽ അഡീഷണൽ ഡിസ്ട്രിക്റ്റ് മജിസ്ട്രേറ്റ് ഷൈജു പി ജേക്കബ് മുഖ്യാതിഥിയായിരുന്നു. ഡോ. ജിതിൻ ജോയ്, രമേശ് ചന്ദ്, രതീഷ് ടി. കെ, ശഹീദ് എന്നിവർ സംസാരിച്ചു.

ഡെവലപ്പ്മെന്റ്, സർവ്വീസ്, ഗ്രെഗേറ്ററി എന്നിങ്ങനെ മൂന്ന് വിഭാഗങ്ങളിൽ ഉൾപ്പെടുത്തി 47 വകുപ്പുകളിൽ നിന്നുള്ള ഉദ്യോഗസ്ഥരാണ് ശില്പശാലയിൽ പങ്കെടുക്കുന്നത്. വിവിധ വകുപ്പുകളിൽ നിലവിലുള്ള യഥാർത്ഥ പ്രശ്നങ്ങൾ കണ്ടെത്തി നിർവചിക്കുകയാണ് ശില്പശാലയുടെ ലക്ഷ്യം. ശില്പശാലയിൽ നിന്ന് ശേഖരിക്കുന്ന പരിഹാര കണ്ടെത്തലുകളെ (പരിഹാര പ്രതിയ) ആശയങ്ങളിലൂടെ

M Mathrubhumi മാതൃഭൂമി

നിർമ്മിതബുദ്ധി കാടുകയറുന്നു
 സംസ്ഥാനത്തെ കാടുകളിൽ ആദ്യമായി എ.ഐ. ഉപയോഗിച്ച് ജന്തുവർഗ്ഗീകരണം

വിമൽ കോട്ടയ്ക്കൽ
 മലപ്പുറം: നിർമ്മിതബുദ്ധിയുടെ (ആർട്ടിഫിഷ്യൽ ഇൻറലിജൻസ്) സാധ്യതകൾ കാട്ടുകയറുന്നു. സംസ്ഥാനത്തെ വന്യജീവിസങ്കേതങ്ങളിൽ ആദ്യമായി ഈ വിദ്യയുപയോഗിച്ച് ജീവി വർഗ്ഗീകരണം, ഔട്ട്രെച്ചുകരണം, ആദ്യഘട്ടപരിഷ്കണം, ചിത്രശലഭങ്ങളിലാണ്. ഇടുക്കി മാതൃഭൂമി ഫോറസ്റ്റ് ഡിവിഷനിൽ പ്രാഥമികപഠനവും സർവ്വേയും നടന്നു.

നിർമ്മിതബുദ്ധിയിൽ പ്രവർത്തിക്കുന്ന പ്രത്യേക ആപ്റ്റ് നിർമ്മിച്ചാണ് ചിത്രശലഭങ്ങളെ തിരിച്ചറിയുന്നത്. കണ്ടെത്തുന്ന ചിത്രശലഭത്തിന്റെ ചിത്രം ടെലഗ്രാമിലുള്ള ഈ ആപ്റ്റിലെ നിശ്ചിതഭാഗത്ത് തൽക്ഷീയം അതിന്റെ മുഴുവൻ വിവരങ്ങളും ലഭ്യമാകും. ഇത് പൊതുജനങ്ങൾക്കും ലഭ്യമാകും. ആദ്യഘട്ടത്തിൽ ചിത്രശലഭങ്ങളാണെങ്കിലും പിന്നീട് മറ്റു ജീവികളെക്കൂടി തിരിച്ചറിയുവാനും ആപ്റ്റിനെ സജ്ജീകരിക്കുകയാണ് വിമൽകോട്ടയ്ക്കൽ പറഞ്ഞത്.

ഇടുക്കി, തൃശ്ശൂർ, തിരുവനന്തപുരം എൻജിനീയറിങ് കോളേജുകളിലെ ഡോ. എസ്. സന്തോഷ്കുമാർ, ജെ. ആശ, ആർ. വിജി, പി.സി. ജിജി എന്നിവരാണ് ആപ്റ്റ് വികസിപ്പിച്ചത്. ജീവിവർഗ്ഗീകരണ ഗവേഷണ മേഖലയിൽ വലിയൊരു മുന്നേറ്റമാണ് നിർമ്മിതബുദ്ധി കൊണ്ടുവരിക. ട്രാവൻകൂർ നേച്ചർ ഹിസ്റ്ററി സൊസൈറ്റിയാണ് മുന്നൂട്ടിവ സഹായ സർവ്വേ മാതൃകയ്ക്ക് നടത്തിയത്. 180 ഇനം ചിത്രശലഭങ്ങളെയും, 54 ഇനം തുമ്പികളെയും കണ്ടെത്തി. ഇതിൽ പലതും ഈ മേഖലയിൽ പുതിയതായി കാണപ്പെടുന്നുണ്ട്. 25 ഇനം ഉറു

ഡോ. ഡെവ പ്രീതി പകർത്തി ജേണൽ ഓൺലൈൻ പീക്കപ്പ് എന്ന ശലഭശില്പകളെയും നാലുതരം ചിവികളെയും ഗവേഷകസംഘം തിച്ഛിഞ്ഞു. അപൂർവ്വ പക്ഷികളെയും കണ്ടെത്തിയിട്ടുണ്ട്. ഡി.എഫ്.കെ. കെ.ബി. സ്വജിന്റെ നേതൃത്വത്തിൽ വരുന്ന ഉദ്യോഗസ്ഥരാണ് നേതൃത്വം നൽകിയത്. നേച്ചർ ഹിസ്റ്ററി സൊസൈറ്റിയിലെ ഗവേഷകന്മാരും കലാജ് സദാസിവാ അനിയ മണലിൽ, കെ. ബൈ എന്നിവരുടെ നേതൃത്വത്തിലും ഗവേഷക സംഘം നേതൃത്വത്തിലുമായി, കോഴിക്കോട് എന്നിവിടങ്ങളിലെ സമാപനങ്ങളും എൻ.ജി.കെ.യുടെ സർവ്വേയിൽ സജീവമായിരുന്നു.



Dr. Santhoshkumar S. and a team of faculty members developed an innovative **AI-powered wildlife monitoring system** in collaboration with the Forest Department, features 24/7 cameras with night vision capabilities that capture images and send data to the Forest Department. The public can access live updates by sending 'Nowa' to the project's Telegram group. The team, including Dr. Suresh K and faculty members Rishi Das, Viji R, Sanoj V, Gijy P G, and Asha J, aims to enhance wildlife conservation efforts through technology. In addition **an AI-based app for easy identification of butterfly species** with high accuracy, utilizing a robust image database was developed. Another project was installation of **AI-powered wildlife detection systems** at Anakulam, Mankulam, Thekkady, and Thattekad. In collaboration with the Periyar Tiger Reserve, The project is on developing a tiger detection and tracking system. This innovative project, supported by the UNDP, aims to enhance wildlife conservation by monitoring animal movements near human settlements.



Inauguration of Staff Quarters



NBA Accreditation Visit at GEC Idukki

NBA Accreditation for B.Tech Programmes in ECE, EEE, IT, ME





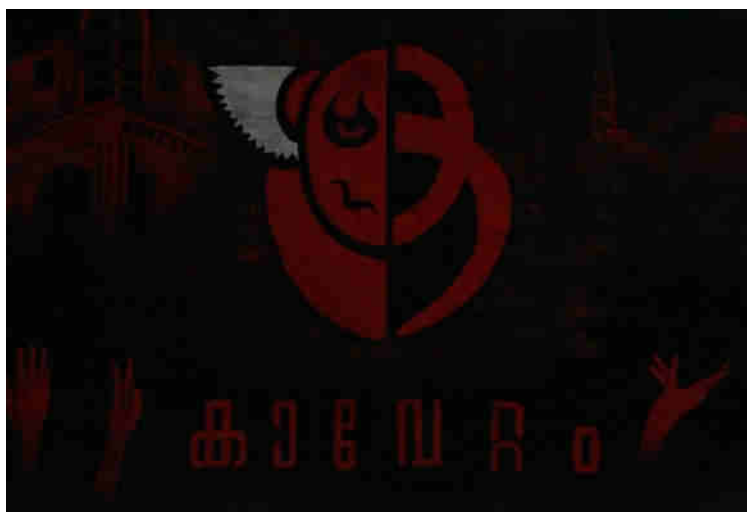
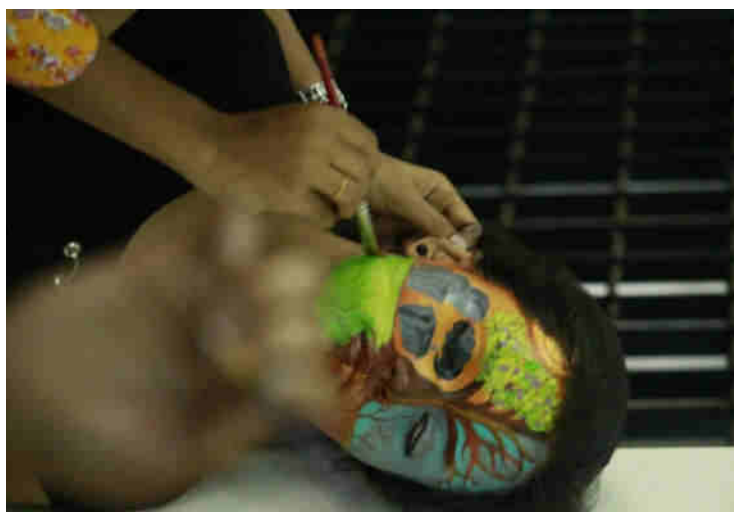
Graduation Day 2023



The Graduation Day 2023 at GEC Idukki was held on November 18, 2023, celebrating the accomplishments of the graduating class. Distinguished guests graced the event, highlighting the culmination of years of dedication and academic achievement. The ceremony featured Dr. Timothy A. Gonsalves, Professor Emeritus (Hon.), IIT Mandi, as the chief guest, and Dr. Shalij P.R., Dean (Research) of APJ Abdul Kalam Technological University, who inaugurated the event by lighting the ceremonial lamp. Dr. Suresh K., Principal of GEC Idukki, delivered the welcome address, and Dr. Reena Nair, HoD of Computer Science and Engineering, extended the vote of thanks.



Kavettam



Kavettam, the Arts Fest of GEC Idukki, was a vibrant celebration of creativity and talent. The event witnessed enthusiastic participation from students across all departments, showcasing their skills in various art forms. With a rich display of culture and entertainment, Kavettam truly captured the spirit of unity and artistic expression within the college community. The fest not only fostered a sense of camaraderie but also highlighted the diverse talents of the students, making it a memorable event for all.



Alumni Meet



The Annual Alumni Meet of GEC Idukki held on 26th Jan, 2024 was a heartwarming reunion, bringing together former students and faculty to celebrate shared memories and achievements. It served as a platform for alumni to reconnect, share experiences, and offer valuable insights to the current students. The event strengthened the bond between past and present, fostering a sense of belonging and community.

LEAP



Learn Engineering by Activity with Products (LEAP) is a collaborative project between GEC Idukki and IIT Madras Incubation Cell.



IEDC GECI



Ideathon and IOT Workshop by IEDC

IEDC Government Engineering College Idukki conducted a hybrid Ideathon event in December 2023. The panel reviewed the ideas and provided feedback on how to utilize them and turn them into a startup. In March, 2023, IEDC conducted a hands-on workshop on Introduction to IoT.

IEEE GECI



The IEEE student branch at GECI is vibrant and has organized programs in different technological domains including workshops, webinars, talk sessions, and competitions namely Pi Hack, Hour of code, CL Battle, IGNITE 1.X, Beyond Print and also organized a visit to Lower Periyar substation.



NSS GECl



NSS GECl was very active, organizing numerous programs aimed at community welfare and social awareness which included Environment Day celebrations, Independence Day events, blood donation camp, speech competition, plastic waste management, AIDS awareness activities like a marathon and a quiz, National Energy Conservation Day event. The inauguration of the Road Safety Club, a blood bank survey, and the distribution of 'pothichoru' to the underprivileged. NSS also organized a flash mob for Mental Health Day and constructed the Kuyilumala Bus Stop Shelter, Mock election & Debate etc and camps were also organised.

SHE GECl



SHE (Scheme for Her Empowerment in Engineering Education) aims to provide support and resources to women pursuing engineering education, promoting inclusivity and gender equality. SHE organised different events like Digital Arts Competition on Women's day, Intellect Quest, quiz competitions, self defense classes, coding sessions, resume building workshops etc.



Career Guidance and Placement Cell



Career Enhancement Training Programme



Major recruiters 2023-24

CGPC GEC Idukki has been at the forefront of bridging the gap between education and industry, consistently facilitating successful placements and comprehensive training programs for its students. The placements for the B.Tech 2020-2024 batch at GEC Idukki included ten companies extending 40 plus offers to our students. Companies like UST Global, ZF Friedrichshafen, Rane, 6D Technologies, Trenser, and Algomox were the major recruiters. Our comprehensive placement training included an aptitude competition that tested quantitative, verbal, and logical reasoning skills, along with the training programme "Learn With 1 Rupee" aimed at enhancing soft skills, programming abilities, and problem-solving techniques. A dedicated coding session further prepared students for tests in the software industry. CGPC GEC Idukki also emphasizes fostering industry connections and regularly organizes workshops and seminars featuring experts from various domains. This proactive approach ensures that students are well-equipped with the latest skills and knowledge to thrive in the ever-evolving professional landscape.



Project Expo



The Department of Mechanical Engineering at GEC Idukki organized a Project Expo, showcasing innovative and practical solutions developed by final-year students. Students demonstrated their technical expertise and problem-solving abilities through real-world applications, offering creative solutions to current industrial and social challenges. The expo provided a platform for students to present their work to faculty and peers.

Faculty Development Programmes



GEC Idukki places great emphasis on continuous learning and development through its various training initiatives. These programmes are designed to enhance the teaching, technical, and research capabilities of the faculty, ensuring they stay updated with the latest trends in education and industry. Regular FDPs cover a wide range of topics, including emerging technologies, pedagogical advancements, and interdisciplinary research. Through these efforts, GEC Idukki strives to maintain high standards in both education and professional development.



Technology Business Incubator GECI



The Technology Business Incubator (TBI) of GEC Idukki is proud to announce the incubation of its first start-up, MIND- Thinks and Executes. This milestone marks a significant achievement for our institution, encouraging innovation and entrepreneurship. Rubbish Revolution has also joined the incubator, driving innovative solutions to tackle plastic waste disposal, reflecting our commitment to sustainability. Together, these ventures are fostering a culture of creativity and environmental responsibility among our students.

Innovation with Purpose



Students from GEC Idukki have developed a cutting-edge Remote Water Level Monitoring System using LoRa technology. This innovative system efficiently monitors the water level of a tank located 1 km away from the monitoring station, enhancing our college's infrastructure management. This breakthrough not only demonstrates the technical prowess of our students but also sets a new benchmark for innovative solutions in campus infrastructure management.



Young Innovators Programme (YIP) GECI

GECI stands as the top college in Idukki district for submitting the most innovative ideas over the past three years in the Young Innovators Programme (YIP), with Prof. Ratheesh TK, our YIP coordinator, honored by the government and KDISC for his leadership and efforts in this achievement. Two of our student teams showcased their innovative ideas at the state level of the Young Innovators Programme (YIP) 4.0, representing Idukki district as its only finalists.



Ten GEC Idukki students lead by Prof. Ratheesh T K participated as interns in a two-day departmental workshop of K-DISC, YIP team at the Idukki District Collectorate, working with various Kerala Govt. department representatives to refine community problem statements, showcasing the college's dedication to community service and collaborative problem-solving



Muhammed Azhar & Sneha won the KSCSTE project competition with Golden Award.



Principal Dr. Suresh K. submitted a project compilation by students and staff to Idukki Sub Collector Sri Arun S. Nair for the "Idukki oru Midukki" initiative. The volunteer team was led by Prof. Ratheesh T.K.

Mission of GEC Idukki

1. Facilitate quality engineering education through state-of-the-art facilities and qualified vibrant teachers
2. Transform students to responsible professionals with ethical and social values capable of providing innovative solutions to the problems faced by the country and to enhance the quality of life of the people
3. Accomplish a conducive learning environment to equip students for higher education and life-long learning
4. Instill managerial skills and entrepreneurial capabilities

Published by: Principal, Government Engineering College Idukki

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