



NewsLetter

GOVERNMENT ENGINEERING COLLEGE IDUKKI

Volume 1 Issue 6

June 2019 - March 2020



VISION

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

MISSION

- Facilitate quality engineering education through state-of-the-art facilities and qualified vibrant teachers.
- 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.
- Accomplish a conducive learning environment to equip students for higher education and life long learning.
- To instill managerial skills and entrepreneurial capabilities.

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Principal's Message

It is a matter of great pride and satisfaction to bring out the News Letter for highlighting our achievements. The College has made enormous progress in academic and non-academic matters, and capacity building relevant to staff and students. Our college has at present boast of good infrastructural facilities for imparting quality engineering education. One of our greatest strengths is our highly qualified and dedicated faculty members and staff. Our students have demonstrated their capabilities and brilliance by securing placement and internships in highly reputed organizations, and winning prestigious competitions. Profound thanks to Dr. Indira Devi K P, Director of Technical Education, and Dr Veeraraghavan, Chairman, Board of Governors (BoG) and other esteemed members of BoG, for their fruitful and constructive suggestions. I congratulate the members of the Editorial Board of this News Letter who have played a wonderful role in accomplishing the task in record time. As the college is gearing up for the NBA accreditation, we have a herculean task ahead.

Let our motto be
 "Work Hard In Silence,
 Let Success Be Your Noise"
 - Frank Ocean

Dr. C. Sathish Kumar



Union Inauguration

Cultural activities of this academic year kicked off with the Union day, SOWETO, named after the Soweto uprising, on 9th November 2019. The event was inaugurated by Sri. M. M. Mani, the hon'ble minister for electricity.



The minister in his inaugural speech highlighted the importance of college politics and insisted that it shall be used for the betterment of the institution and the society, and shall not be considered as an opportunity to take things in hand which may hinder the day-to-day activities of the college.



Receiving a portrait of himself by the hon'ble minister from Smt. Gowri Parvathy, a third year student of IT, drawn by her as a token of gratitude of our institution.



Principal Dr. C. Sathish Kumar handing over a memento to the Idukki District Collector Sri. H. Dinesan I.A.S. as a token of gratitude.



Idukki District Collector Sri. H. Dinesan I.A.S. felicitating the Principal Investigator of the project, Dr. Mubarak A. K. Asso.Prof. in ME.



Dr. Renu Raj I.A.S, Sub Collector, Devikulam handing over a token of appreciation to Smt. Nila K George who secured overall 2nd rank in the KTU Examination held on May 2019 in Information Technology.

Felicitation of Award winners



A function was conducted on 22nd November 2019 at college Seminar hall to felicitate the B.Tech students who won the first prize of Rs. 1 lakh at the PPTIA innovation awards held on 16th and 17th November 2019 at SCMS college, Cochin. Our students competed with peers from around 200 prestigious universities and emerged as the winners. Sri.. Muhammed Azhar, Smt. Alfiya K S, Smt. Nitha Shahul (all three from first year ECE) and Sri. Jabir Mohammed (final year ME) were felicitated by Idukki District Collector Sri. H. Dineshan I.A.S.



KSEB Engineers Association conducted a state level online energy quiz in memorial of Dr. A. P. J. Abdul Kalam. The district level quiz was organized under Prashnothara club GECEI. Prize winners Sri. Ajai Narayanan, Sri. Ashik K X, Sri. Jabir H P (all three from final year ME) and Sri. Fayis V P (final year EEE) were also felicitated in the function.

സ്പെഷ്യാൽ 2020: ഇടവക്കി തവ. എൻജിനീയറിംഗ് കോളജിന് ഒന്നാം സീമാനം

പുനരാലോചന: • സ്പെഷ്യാൽ 2020 - എൻജിനീയറിംഗ് കോളജിന് ഒന്നാം സീമാനം നേടി. ഇത് കോളജിന്റെ നിലവാരം ഉയർത്തിയതിന്റെ തെളിവാണ്. കോളജിന് നേടിയ സീമാനം കോളജിന്റെ നിലവാരം ഉയർത്തിയതിന്റെ തെളിവാണ്. കോളജിന് നേടിയ സീമാനം കോളജിന്റെ നിലവാരം ഉയർത്തിയതിന്റെ തെളിവാണ്.



Short Description of the award winning project

In 2018 and 2019, there were about 5000 landslide cases in Kerala which were of small, medium and high intensity. The team developed a system for predetermining the possibility of an upcoming landslide by converting the geographical area into different zones and providing colour code based warning. They made use of soil, temperature and rainfall tracking sensors. Different terrains require different sensors. Before the landslide happens, there will be an internal movement inside the soil which will be detected using highly accurate vibration/tilt sensors. A network was designed incorporating LoRa, by utilizing the mesh network of Landslide prediction system system (nodes and gateway) which is a capsule type small device. It sends information to the District Disaster Management Agency when it crosses the threshold value which is set by taking values from the previous landslide.

Fresher's Talent Day



A stage was set where the newly joined B.Tech first year students could display their multitude of talents on 5th August 2019 at college open auditorium. Dr. Renu Raj I.A.S., Sub Collector, Devikulam inaugurated the function and all the students exhibited their talents. The chief guest was felicitated by then Principal, Dr. Jalaja.M

Onam Celebration



Staff Club and students celebrated Onam 2019 on 6th September 2019. The celebrations were inaugurated by the Principal in the presence of staff club members. The visual treat of pookkalam was followed by the customary Onasadhya.

ADVAYA



The annual technocultural fest, ADVAYA of this academic year was held on February 22, 23, 24 around the college premises. This 9th edition of ADVAYA was vibrant with many techno based events. The inaugural function was presided over by the staff coordinator Dr. Mubarak A.K. and was inaugurated by Sri. Sam Varghese the Delivery Head of TCS. Sri. Kripesh M.V was the student convener. Distinguished guests, elite teachers and students of the college attended the inaugural function. 'KUDUKKA'- A social event conducted as part of the tech-fest was the main attraction, in which 3 students from different parts of Idukki were awarded money for their higher education. Around 51 events, including 29 technical events took place during the three-day long technical fest. Delegates from different colleges along with our students participated in the events. Department-wise expo which exhibited the skills and innovative creations made the event more beneficial for the aspiring young minds. Drone shows, Robo show, KSEB exhibition, Police Arm stall were the other main attractions of the event. Food and other products by Kudumbashree units from Idukki district were sold through Expos. A live performance from the famous playback singer Sri. Harisankar K.S. lit off the Advaya Nights which made the event more cheerful and filled every GECians mind with dreams about the next edition of ADVAYA.



Robo Innovation Cell



Robovation club established on November 2019 at GECI is functioning for promoting innovation, entrepreneurship and technical activities in the campus through various programs. Actually, it's not just limited to the college campus alone, it is growing by collaborating with other colleges and with various tech companies. It's an online as well as an offline platform where any students can join at anytime and can learn new technologies. The club inauguration was done by the hon'ble District Collector of Idukki through drone logo launch on 23rd November 2019. Further information is available at www.robovation.com

Python - Git Workshop



IEEE Student Branch of GECI in association with IEEE Student Branch of RIT as part of Joint student branch Initiative (Project ZEAL) conducted a oneday workshop on "Python and Git Hub" on 20th September 2019, at IT department software lab from 9 AM to 5 PM. The class was taken by Mr. Abhijith K, chairman and Mr. Yarbash Salim, chairman of RAS, IEEE Student Branch of RIT.

STTP- Linux Administration



Department of Information Technology conducted a six-day workshop on Linux Administration during 20-25 January 2020. The program was sponsored by Department of Technical Education, Govt. of Kerala under FSDTC scheme. The program was aimed at faculty and staff members of Technical institutions under DTE and from other organizations of Kerala. The six days course was designed to provide participants with the necessary skills and abilities to work as a professional Linux system administrator. This was the first program conducted in Govt. Engineering College Idukki under FSDTC scheme in this year as said by the college level coordinator Prof. Asha Ali, AP in IT. There were 32 participants for the workshop, out of which 26 were external participants. Dr. Lakshmi J Mohan, Asso. Prof. in IT and Prof. Ratheesh T K, AP in IT were the coordinators of the event and Mr. Vijeesh Kumar Thayyil, TI in IT was in the technical support role.

Accreditation Workshops

In view of the coming NBA accreditation process, the institute accreditation committee organized two 3-days in-house workshops for faculty & staff, with the sponsorship of TEQIP. The first workshop was conducted during 22-24 January 2020 and the objective was to improve the competency level of all faculty and staff on accreditation related matters. Prof. (Dr.) A. Sukesh Kumar, retired Principal, Sreekrishnapuram and director of AA-CHA (Academic Accreditation and HRD Associates Pvt. Ltd.), Thiruvananthapuram led the training program. His brainstorming sessions on various criteria of self assessment report (SAR) was a fantastic experience for majority of the participants. The second training program conducted during 4-6 March 2020 focused on the preparation of Course Outcome (CO), Program Outcome (PO), Program Specific Outcome (PSO), CO-PO-PSO mapping and CO/PO/PSO attainment. Prof.(Dr.) Sasikumar S., an eminent academician and currently the chairman and managing director of AACHA handled the sessions on OBE (Outcome Based Education), CO-PO-PSO mapping and attainment calculations



Dart Master Workshop



Three-day workshop on Google Dart programming language (free & open-source) was conducted in the seminar hall during 24-26 September 2019.

Arduino & Raspberry Pi Workshop

Department of Electronics and Communication organized a two-day workshop on "Familiarization of Arduino board" for the fifth semester ECE students from 27-28 August 2019. It was conducted as part of Design Project course for developing additional skills for designing an electronic product. The department also held another two-day workshop on "IoT using Raspberry Pi" for the seventh semester ECE students from 18-19 November 2019 to help students in doing their final year project.

Web Development - Django Workshop



A two-day workshop on "Web Development with Django" was jointly held by IEEE Student Branch GECI and IEEE Student Branch RIT kottayam in association with Facebook Developer Circle, Kochi on 12th and 13th October 2019 at the CCF of GEC Idukki.

Inauguration of Information Technology Department Library



Principal Dr. C. Sathish Kumar inaugurated the Information Technology Department Library on 26th September 2019. Dr. Sangeetha Jose HoD-IT received the first copy from the Principal on behalf of faculty and Smt Maria Baby, M Tech scholar received the first copy from HoD on behalf of students with the help of Library Management Software developed by IT Department.



Information Technology Department Association conducted an exhibition on Network Devices on 26th September 2019.



Cafeteria Inauguration



A new cafeteria was opened near ladies hostel on 12th November 2019. As the staff and students of ECE & EEE departments had to go down to the canteen for tea and snacks earlier, this will be a huge relief for them. The timings of the cafeteria are from 11 AM to 1 PM and 3.30 PM to 5 PM.

NSS Activities



NSS volunteers actively participated in flood relief activity organized in Vimalagiri near Karimban on 20th October 2019. Panchayath member Sri. Jojo inaugurated the program. Fifty volunteers participated in the relief activity.



NSS unit of GEC Idukki in association with All Kerala Blood Donors Society, Terumo Penpol and Government Medical College Idukki conducted a blood donation camp at GEC Idukki on 10th October 2019.



Sports

Our college team emerged as champions of the KTU C-zone inter collegiate men's chess tournament 2019-2020 held at Saint Gits Engineering College Kottayam



Our college team entered quarterfinals of the KTU C-zone inter-collegiate football championship at RIT Kottayam.

Placement Training Programme



A Placement Training Programme was organised by Career Guidance & Placement Cell of GECI on 17th to 20th September 2019 for preparing the students for campus placements. Students were trained in Communication skills, Group discussion, HR interview and Technical skills by experts from M/s Insight Job Guru training academy Trivandrum.

Quiceno



IEEE student branch GECI conducted QUICENO quiz competition on 31st October 2019. Fifty four students participated in the competition. The quiz included audio visual questions that tested the logical reasoning skills of students and questions that tested their general knowledge. Sri. Achyuth K Ravidas (Second year ME) and Smt. Hiba T (Second year ECE) were selected as the winners. Prizes were handed over to the winners by Dr. Leena Mary (Dean PG

Spark Workshop



The Spark workshop was conducted by Robovation club under HRD cell powered by Robotechs. The classes were led by Dr. Mubarak A. K. Asso.Prof. in ME, Sri. Muhammed Azhar (First year ECE) and Sri. Shahir Abdulla, Co-founders of Robotechs, and the workshop was co-ordinated by Sri. Jabir Haneef (final year ME).

Flutter Workshop



Technoship cell of GECI had conducted a one-day workshop on Flutter frameworks (free and open source) on 20th October 2019 from 9.00 AM to 4.30 PM at Seminar Hall along with Networking Lab of IT Department of GECI. The program was felicitated by Prof. Dileesh (AP in CSE).

Student Project Funding

Two faculty members from the Dept. of Information Technology, Dr. Lakshmi J Mohan (Asso.Prof., IT) and Dr. Visakh R (AP, IT), received sanction for financial assistance from the Kerala State Council for Science, Technology and Environment (KSCSTE) for a total of four student projects in graduate and post-graduate programs. An amount of Rs. 10,000/- per project has been sanctioned by the Council.

Project proposal submitted by Prof. Ajini A (AP, IT) got selected for funding by KTU under CERD for student project in graduate sanctioned an amount of Rs. 13,000/-.

Topic : A GPS-GSM predicted KSRTC bus tracking system monitored in a mobile application.

Achievements



Smt. Nila K George 2015-19 IT batch student secured second rank in the KTU Examination held on may 2019 in Information Technology branch.



A Student's magazine was released by first year ECE students in digital platform.

Faculty Project Funding

Project proposal by Prof. Deepak S (AP, ECE) got selected for funding by KTU under CERD – research seed money scheme, 2019.
Sanctioned amount: 1.5 Lakhs
Research project topic: Computer-aided diagnosis & characterization of brain tumors.
Domain: Medical image processing, Deep learning, Machine learning.

Research Publications

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[3]. "Overhead Transmission Line Stability Analysis by Traveling Wave based detection in Bipolar 500 kV HVDC System", K.N. Chandra Bose, S. Poorani, Journal of Advanced Research in Dynamical and Control Systems Vol:11, No:5, April 2019

[4]. "Battery Charging of Electric Vehicle using Photovoltaic Systems", Athira R. Nair, K.N. Chandra Bose, 8th International Conference on Power Systems, Jaipur20-22 December 2019

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[11]. "Comparative Review of Feature Selection and Classification Modelling", Azhar MA and Princy Ann Thomas, International Conference on Advances in Computing, Communication and Control (ICAC3' 19)

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[14]. "Service-level agreement-aware scheduling and load balancing of tasks in cloud", Prof. K R Remesh Babu, Journal of Software: Practice and Experience, Volume 49, Issue 6., pp. 995-1012, 43617

[15]. "User Perspective Based APP Recommendation System", Prof. Praveen AN, International Journal of Modern Electronics and Communication Engineering (IJMECE), Vol. 7, Issue. 4, 4364

[16]. "Secure-MQTT: an efficient fuzzy logic-based approach to detect DoS attack in MQTT protocol for internet of things. ", Prof. Haripriya A P, EURASIP Journal on Wireless Communications and Networking, pp 1-15, Springer, 2019.

[17]. "A Data Security Scheme Using Image Steganography", Prof. Ratheesh T K, Springer 2nd International Conference on Intelligent Data Communication technologies and Internet of Things [ICICI 2019], pp.615-622, Springer, 2019.

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HoD's Corner

CSE

Technology is advancing day by day. The world that we live in now, is very much advanced from what it was 10 years ago. In the near future we will be living in a world that resembles the one portrayed in futuristic movies. We are in the process of witnessing the era of autonomous self-driving cars and flying warehouses in the near future. The role of computer engineers in shaping the future of the world is enormous. To succeed in the career as a computer engineer you should have a love for technology. Books, online tutorials, magazines and journals will help you to get updated with the developments in technology. We in computer science and Engineering department strive to align by GECI's mission statement which emphasizes on enabling students to face challenges of life with courage and conviction. For us the mission statement translates into equipping the students with qualities that the industries consider valuable for their growth and success.

Dr. Madhu K. P.

EEE

The Department of Electrical and Electronics Engineering has recorded consistent improvement in its academic and overall performance. As the college is affiliated to APJ Abdul Kalam Technological University, it offers a range of innovatively designed programs whose curricula are constantly updated (Every 5 Years) to meet the changing requirement of the industry and the needs of major stakeholders. During their period at the department, the students are invigorated to get hands-on experience in the corporate world through internship projects with reputed organizations. We also encourage our students to organize events such as Technical fest, EEE Association events, IEEE activities, NSS activities, Arts and sports events in the college and also get involved in activities of social relevance. Our students are self-motivated to participate in numerous technical events such as hackathon, paper presentation, poster presentation etc outside the college.






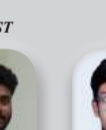













Prof. K. N. Chandra Bose

IT

The Department of Information Technology was started in the year 2000 with B.Tech course and M.Tech with specialization in Network Engineering started in the year 2013. Department functions with eminent and dedicated faculty members and supporting staffs and also equipped with well established lab facility and smart class rooms. Our Department focuses towards outcome based education which emphasizes on the placement by providing quality education. Various training programmes, remedial classes, poster presentations and GATE coaching classes are organized throughout the year. Our faculty members and students are deeply engaged in research work. Five of our student projects got approval for funding in this academic year. Congratulations to the editorial board members of this newsletter in materializing various activities of our college.

Dr. Sangeetha Jose

PLACEMENTS (B.TECH 2016-20)

 Adhil Ahamed A P CSE, TCS Infosys	 Ajesh E J CSE, Infosys 6D Technologies	 Nandu Shaji CSE KeyValue, Qburst	 Ammar Ameer CSE Qburst	 Hamitha T K CSE TCS	 Joseph Milan M D CSE QBURST	 Joseymol Sibi CSE TCS	 Dona Joseph CSE TCS, Wipro
 Jesna Thomas CSE infosys	 Neha Thadues CSE infosys	 Alfathima CSE 6D Technologies	 Anjana K S CSE TCS	 Sandra D'couth CSE Infosys	 Athul Albert CSE, UST Global 6D Tecnologies	 Sajid Muhammed CSE, TCS 6 D Technologies	 Rawoof S CSE TCS
 Anagha Thampi ECE Infosys, wipro	 Asna A S ECE Infosys	 Athuldas S ECE Infosys	 Emerson Johnson ECE UST Global	 Jithesh Balan ECE VVDN Technologies	 Sreedul Deth ECE, Infosys Quest Global	 Ammu Lekshmen EEE G10X	 Ariga P V EEE Infosys
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 Arun G IT TCS, Infosys	 Asmida Nharakodan IT UST Global	 Gokul Babu IT, Wipro 6D Technologies	 Jeffy James IT TCS	 Jijina Thomas IT Infosys	 Maneesha M R IT Quest Global	 Mehnas P B IT IBS	 Parvathy K S IT, IBS, Infosys, Wipro
 Rahul R IT UST Global	 Sana Y H IT G10X	 Sharath A IT TCS	 Silpa K S IT TCS	 Swathi T K IT Infosys	Still Counting.....		

ME

During study at the department, the students are encouraged to get hands-on experience in the corporate world through internship projects with reputed organizations. In their curriculum, they are encouraged to take up mini projects to supplement theoretical knowledge with practical experience. They also undertake projects benefiting local industries or dealing with local problems. These projects enable them to understand the relevance of working in a group and also help them to realize the finer aspects and importance of teamwork. We also encourage students to organize events such as Advaya (Inter-collegiate Management festival), participate in management events organized by other colleges and also get involved in activities of social relevance. We have designed our syllabus to strike a balance between professional knowledge and personal skills. We are confident that our current curriculum has enabled the overall development of budding managers to come up with the expectations of the corporate world. With this brief introduction, I welcome you to be a part of our journey towards being a world-class center of excellence in education, training, and research.

Prof. Abdul Jaleel. H

EC

The Department of Electronics and Communication, GEC Idukki has started functioning in the year 2000 with an intake of 60 students. Later, M.Tech with specialization in VLSI and Embedded Systems started in the year 2013. Since its inception, it has groomed several young professionals and has given them the foundation to become productive members of society. The department puts strong emphasis on imparting practical education by carefully administering proper lab work to complement their theoretical knowledge. The students are encouraged to take up challenging projects involving embedded systems, VLSI, DSP, image processing, communication, IoT and to publish their work in various conferences and journals. Department excelled in placements and the alumni are in the top positions of many industries and research institutions. I am very happy to note that a newsletter is being brought out this year which will surely encourage enthusiastic students and staff. It is our collective endeavor to strive for excellence in teaching and learning so that the students from all sections of society will be benefitted to become socially responsible and technically competent professionals.

Dr. Haris P. A.

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