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Newsletter of Electronics and Communication Engineering Department, Christ College of Engineering, Irinjalakuda

ECTA New Office Bearers

The Electronics and Communication Technocrats Association (ECTA) activities for 2022 were inaugurated on January 15th, 2022, at Christ Hall, CCE. Fr. Joy Payyappilly CMI, Joint Director of CCE Irinjalakuda, graced the occasion and officially kicked off the activities for the year.

The newly elected executive committee of ECTA assumed office during the event by taking an oath administered by Dr. Caren Babu.

The committee is comprised of Abin Vinod of S8 ECE as the Chairman, Annwin of S6 ECE as the Vice Chairman, Ashik Jose of S6 ECE as the Treasurer, Vimal of S6 ECE and Ivan of S4 ECE as Technical Head 1 and 2, Sebin of S6 ECE and Ashik C Menon as Non-Technical Head 1 and 2, and Aldrin of S6 ECE as the Media Head.

In addition to the inauguration, an online project repository was launched, providing access to the database of all student projects completed in the Department from the 2015 batch onwards. The portal was developed by Mr. Agnel John KJ, Assistant Professor, and inaugurated by Dr. V D John, Vice-Principal of CCE.

During the event, students who recently won prizes in intercollegiate events were also felicitated. Their achievements were celebrated, and they were recognized for their hard work and dedication.

The inauguration of ECTA activities for 2022 and the launch of the online project repository are significant milestones for the Department of Electronics and Communication Engineering at CCE. The new executive committee of ECTA, along with the rest of the department, are poised for a successful year ahead

INSIDE

INAUGURATION OF ECTA ACTIVITIES AND OATH TAKING

VISION

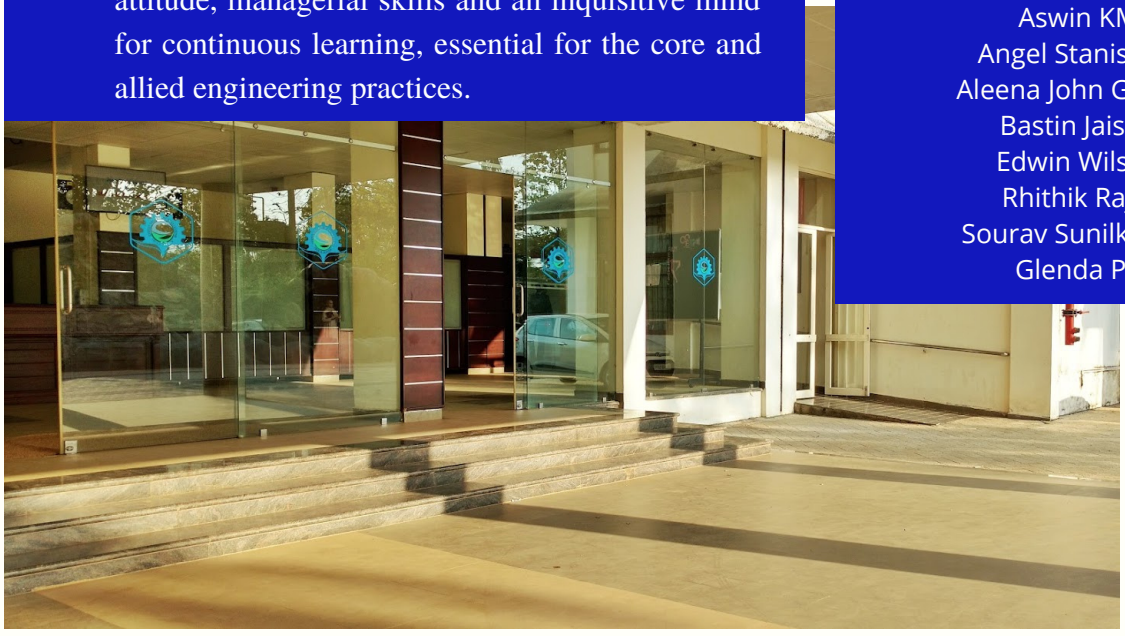
To be a premier center of education, research and innovation in Electronics and Communication Engineering that nurtures adept engineers responsive to global challenges and societal needs.

MISSION

- To enhance the teaching-learning process by implementing state-of-the-art practices suitable for a challenging technological world.
- To promote innovative research in emerging areas for the advancement of knowledge towards developing sustainable solutions for the society.
- To foster ethics, values and an urge for continuous improvement vital for professionals to emerge as responsible leaders.

PSO

- PSO1: Apply the concepts of Communication Engineering, VLSI, Embedded systems, Signal Processing and allied disciplines to analyze, design and develop engineering systems.
- PSO2: Proficiently use the latest hardware and software tools relevant to Electronics and Communication Engineering in solving real world engineering problems.
- PSO3: Foster professional ethics, adaptive attitude, managerial skills and an inquisitive mind for continuous learning, essential for the core and allied engineering practices.



PROJECT

RESYNC - RELAY SYNCHRONIZER

The Department of Electronics and Communication Engineering and the Electronics and Communication Technocrats Association (ECTA) at an institute in India have designed 'RESYNC' (Relay Synchronizer), a device to automate irrigation pumps for micro and medium scale farmlands.The RESYNC device was developed as a consultancy project for Mr. Geo Paul of the Department of Civil Engineering. The device was designed and developed by C KrishnaPrasad and Albin Joseph CR, both S7 ECE students, along with Ms. Sreelekha T, Assistant Professor, ECE, coordinating the project.

RESYNC is designed to automate the submersible water pump used for irrigation of crops on the farm. The device has a wide range of specifications, is less expensive, and affordable, making it stand out from others available in the market.

The key features of the system include two programmable timers that can control the relay that drives the water pump. RESYNC has two timers that allow the user to set different start times and duration of working of the pump. An OLED information display is provided for the user to interact with the automation system

One of the major features of RESYNC is POD (Power Off Detect), which ensures that when electrical power is cut off during working duration, the system detects the situation and resumes from that instant when power is available and completes the remaining duration. This feature guarantees that crops receive the same amount of water regularly.

Another crucial feature of RESYNC is LWC (Lower Water Cutoff), which is essential in the case of submersible water pumps. RESYNC is small in size, well-built, and is sure to impress users with its functions and performance. It is truly a game-changer and is set to capture the market.

The RESYNC device is a significant development in the field of agriculture, with the potential to improve irrigation systems in micro and medium scale farmlands. The project is a testament to the innovative work being carried out by the Department of Electronics and Communication Engineering and ECTA.

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INDUSTRY PARTNERSHIP

SYNAPSE - Spreading The Spark

A session on Arduino for school students by ECE department

Christ College of Engineering's Department of Electronics and Communication organized a one-day workshop, SYNAPSE, on "Basics to Arduino Boards" on January 7, 2022. The event took place at Government Model Girls HSS in Irinjalakuda and was led by Ms. Della Reasa Valiaveetil, an assistant professor in the ECE department, as part of the student outreach program.

The goal of the workshop was to train younger students to adapt to rapidly evolving technology and to assist them in creatively developing their projects. A total of 25 students attended the session, which provided an opportunity for them to work with young engineering students and exchange ideas on how to apply their ideas to real-life situations.

The formal inauguration ceremony marked the beginning of the workshop, followed by a session led by Anandhu U S, Abin Vinod, Jojo C Vincent, and Alan Alphonse from the S8 Electronics and Communication department. The topics covered during the workshop included arduino boards and how students could use them to create projects with simple coding.

The four-hour session concluded with a talk by the school's principal, who encouraged the students to use the knowledge gained from the workshop to develop innovative projects for their school exhibition. The participants' questions were answered, making the workshop a successful initiative.

ADD - ON PROGRAMME

'Pioneers Path'- Virtual Interaction with Alumni

The Department of Electronics and Communication Engineering recently hosted a Virtual Alumni Interaction session as part of the ECTA Alumni Interaction series, titled "PIONEERS PATH". Led by Ms. Mary Christina Joy, an alumna of the 2016-20 Batch, the session aimed to strengthen the bond between the department and alumni and bridge the gap between the students and alumni. Ms. Catherine J Nereveettil, Assistant Professor (ECE), coordinated the session.

During the interaction, the students were provided with information regarding internships and industrial opportunities, which was extremely beneficial for their future careers. The session also motivated the students to have a clear vision in life as budding engineers. Overall, the interaction was very informative and helped to create a stronger connection between the department and alumni.

'PRAKALPA' AT CHRIST COLLEGE OF ENGINEERING, IRINJALAKUDA

Christ College of Engineering, Irinjalakuda, witnessed an interdisciplinary project expo titled 'PRAKALPA' on 2nd March 2022, organized by the Semester 1 students from the Departments of Electronics and Communications Engineering, Electrical and Electronics Engineering and Mechanical Engineering.

The event was held at the Open Auditorium and was inaugurated by Ms. Anntheres Johnson, an S1 ECE student who delivered a warm welcome speech to the students, faculties, and special guests in attendance. The day was hosted by Ms. Aleena Anto and Mr. John Peter, students of S1 ECE, who welcomed everyone to the event.

The event was inaugurated by Mr. Safeer Najumudeen, the Co-founder and CEO of Talrop, who shared his different life experiences and gave a few words of encouragement to the participants. Fr. Dr. Davis Panakkal, provincial of the Devamatha province, was then invited to further felicitate the program. Ms. Jiya, a team member of Talrop and our Respected Executive Director Rev. Fr. John Paliakara CMI also addressed the gathering with their inspiring words.

The event was organized under the guidance of the Faculty Coordinators, Assistant Professor Ms. Della Reasa Velliaveetil and Assistant Professor Mr. Paul J Alengadan. Mr. Rajiv T.R. Head of ECE Department, Ms. Needhu Varghese Head of EEE Department and Dr. Sijo M.T. Head of the ME Department was also present to mentor the students.
The assigned Student Coordinators were Mr. Abhinav M S, Mr. Adithyan M S, Ms. Anntherese Johnson and Ms. Nandana Jayakrishnan. Under whose leadership, the S1 students organized the event and made this a success.

Over 35 projects were exhibited with the joint efforts of the students and their mentors. The students of other departments and semesters were also invited to interact with the participants and to inquire about the exhibits. This event was held with the motive to give students an opportunity to acquire more knowledge and to get hands-on experience on the efforts required for the research and development of a project.

finally, the event was wrapped up with a valedictory function where Ms. Nandana Jayakrishnan, S1 ME student, gave the vote of thanks to express our gratitude towards the management, teaching and non-teaching staff and Finally, to the students for making this day possible through their hard work and utmost coordination.

PROTALKS – "More knowledge in less time"

Social media initiative by ECE students to enrich online platforms with positive thoughts and essential information

'Protalks'-a sequence of info-talks from experts on various topics which is a novel initiative from S6 ECE students and gained attention on social media, mainly Instagram. Six episodes on six different topics with six different experts have been released to enrich online platforms with positive thoughts and essential information.

Dr. Reshma Jose (Taluk Hospital, Chalakudy), Varghese Benny (CEO, Rabitsquare), Veena Jaykumar (Assistant Prof., Bharat Matha College, Thrikkakara), Dev Tharakan (Independent Cyber Security Consultant, Canada) and Fr John Paliakara (Executive Director, Christ College of Engineering), Nikitha Shetty(Co-Founder of society for space education research and development(SSERD) appeared in episode one to six.

The design of an episode starts with collecting questions and doubts from students which would be answered by the resource persons through short videos which would be released through Instagram. The concept was guided by Sreelekha T, Assistant Professor.