Technical Clubs of ECE Dept., KLEF

(1)   NI LabVIEW Centre of Excellence (KLEF NI COE)

Faculty In-charge: Dr. M. Sujatha, Professor, ECE Dept.

NI LabVIEW Centre of Excellence (KLEF NI COE) in the Department of Electronics and Communication Engineering, is equipped with one crore worth NI hardware that includes application-based measurement specific modules (myDAQ, cDAQ, myRIO, cRIO), protocol support, FPGA-enabled **hardware**, and options for industrial and rugged locations, campus licensed LabVIEW software and data acquisition with real time sensors for automation. **Our KLEF NI COE has been awarded as the Best Graphical system Design.** More than 300 faculty and 5000 students have been trained and certified in LabVIEW.
KLEF NI COE runs a NI Technical Club which organizes various training for students and faculty such as CLAD, CLD, NI hardware, State and National level Project Competitions, Workshops and other technical events.

(2)   SENSE

Faculty In-charge: Mr. K. Uday Kiran, Assistant Professor, ECE Dept.

SENSE (Social Empowerment by Novel and Smart Engineering) is a technical body of Department of Electronics and Communication Engineering. It has taken up the initiative to motivate and train the students and faculty of the KLEF to flourish themselves in the path of technological developments. The club involves the people who can thrive to find technical solutions which will help our nations development in various aspects. It is an amalgamation of faculties and students from various departments, to come together and work with innovative and smart ideas for the societal welfare. Teams are working on various projects which are real time implementable and taking the projects to urban community and majorly concentrating on rural area to strengthen our country. The major technical domains of this club are Embedded, IOT, Machine Learning, Signal Processing, GPS.

(3)   KREATIVE EZEE

Faculty In-charge: Dr. Aswin Kumer SV, Associate Professor, ECE Dept.

As a part of this club, students are motivated to design analog circuits using the fundamental electronic components resistors, capacitors, inductors, diodes, transistors, and operational amplifiers are all inherently analog. Create the circuits with a combination of solely these components to create elegant designs. Also, the circuits made by the combination of logic gates and Flip flops which are interfacing with microcontrollers or other computing chips to create the Digital Circuit design, And the Mixture of analog and digital components in a circuit to implement hybrid designs. Interface Microcontroller with those hybrid designs to control sensors, actuators, etc.

(4)   IoT Visistatha

Faculty In-charge: Mr. L S P Sairam Nadipalli, Assistant Professor, ECE Dept.

IoT Visistatha is a technical body of Department of Electronics and Communication Engineering. Internet of Things (IoT) is another worldview that has changed the conventional method of living into an innovative way of life. Smart city, smart homes, contamination control, energy saving, keen transportation, brilliant enterprises are such changes because of IoT. A ton of critical exploration studies and examinations have been done to improve the innovation through IoT. Notwithstanding, there are still a ton of difficulties and issues that should be addressed to accomplish the maximum capacity of IoT. These difficulties and issues should be considered from different parts of IoT like applications, challenges, empowering advancements, social and natural effects and so on. This is the objective of the club. Here in this club different IoT solutions are solved with group work giving a particular task according to application. This club welcomes every person whether a faculty or Students are welcome. The work you have learned here will enhance your future. The solutions are covering using Advanced Microcontrollers like 32bit,16bit and 8bit with internet Connectivity.

(5)   SILICON MANTRA

Faculty In-charge: Mr. P. Kanakaraja, Assistant Professor, ECE Dept.

This Club is a group that aims to teach and help students understand the seemingly incomprehensible electronic gadgets in the world today and assists students in developing their own devices. In the club, we are going to implement Descriptive projects using analog and Digital IC's. so, the student can be familiar with different analog & Digital IC's (CMOS & TTL), various Transistors, Sensors, and Actuators to Develop the Core Designs Without programming. This will be the prerequisite for Embedded & IoT Projects. Team registrations are still open and limited to 50 Students with different disciplines.