OPEN HOUSE PROJECT EXPO

Open House Project Expo 2015

- Open House Project Expo was held on May 6th,2015.
- Mr. J Sriram presided over the function as the chief guest and Mr. Vinay Jha Pillai was the guest of honor.
- Mr.Sriram is the proprietor of Spectro-Flux Engineering Technologies Pvt. Ltd which provides technical consultancy worldwide and has offices in Singapore, Dubai and Bangalore.
- Mr. Vinay is Assistant Professor, Department of ECE in Christ University, Bangalore.
- He was authored numerous working papers like Vehicle Speed Estimation using Video-Image Processing: State of Art and challenges etc.

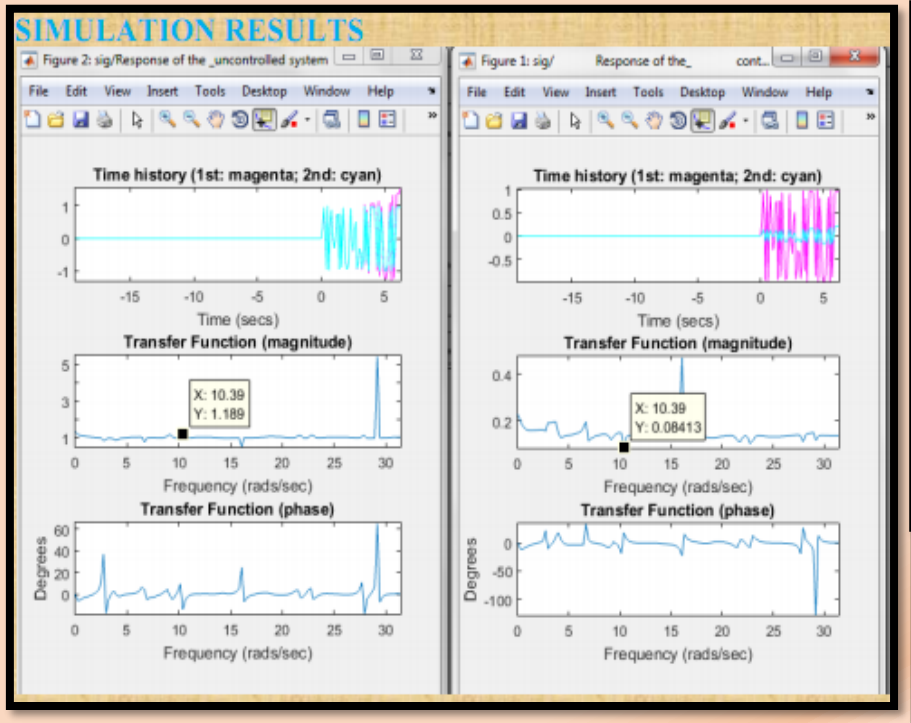
Open
House
Project
Expo 2015

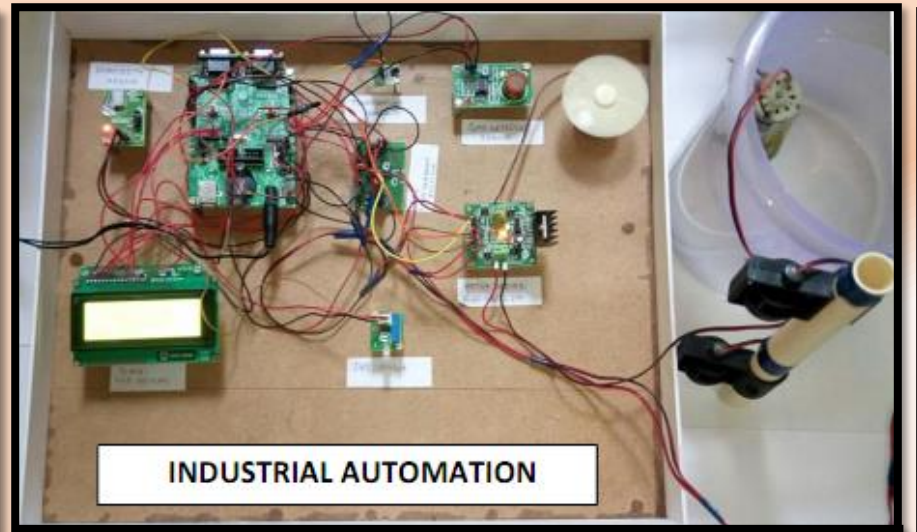
Open House Project Expo 2016

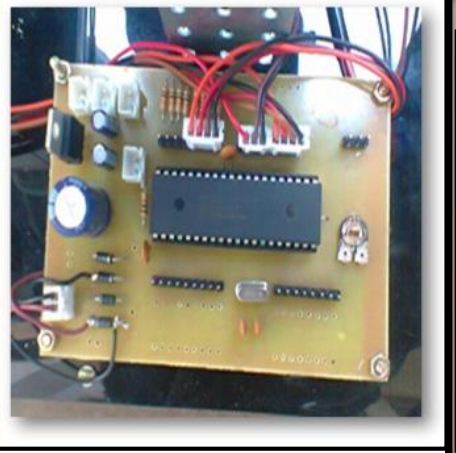
- Open House project Expo 2016 of EIE Department was held on 6th May, 2016 from 8.30 am to 4.30 pm @ the quadrangle of Academic Block III.
- Around 24 teams had presented their projects, with 18 projects from UG students and 06 projects from PG students.

Sl. no.	UG PROJECTS
1	Study on Effect of Insulation Material on Electrical Transmission Parameters in Instrumentation Cabling
2	Study And Design of Active Vibration Control.
3	Design and Optimization of an EMI Filter and Transient Suppressor Network.
4	Software Loading Kit for DVS and MCDU.
5	Automatic Detection of Diabetic Retinopathy.
6	Mental State Recognition Using EEG Signal Processing.
7	SCADA based process control.
8	Power Back Up for an Ultrasound System
9	Industrial Automation using ARM Based Microcontroller
10	Integrated Energy Management System Using CAN Protocol
11	Wireless Monitoring and Controlling of a Industrial Boiler
12	Performance Optimization of Poultry Farm by using Instrumentation with the Help Of Embedded Automation.
13	Object Recognition and Sorting Robot for Material Handling in Packaging and Logistics Industries.
14	A CAN Based Distributed Control System for Autonomous All-terrain Vehicle (ATV).
15	Image Processing Based Intelligent Traffic Control System.
16	Modernization of Indian Agriculture using Wireless Sensor Networks.
17	Hand Gesture Recognition Based Robot using 3 Axes Accelerometer Sensor.
18	Development of Automated Instrumentation Cable Design Tools.

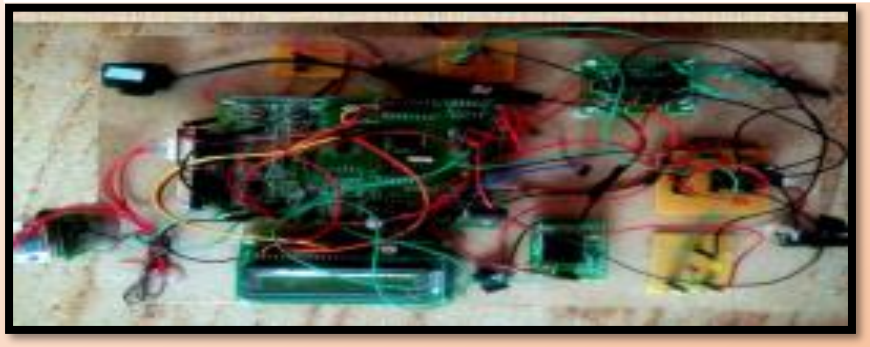
Sl.no.	Sample PG projects
1	Analysis of Power Quality Issues for Wind Energy Systems using Matrix Converter.
2	Controlling Aspects of Different Indirect Matrix Converters Topologies for Grid Connected Wind Energy System.
3	Measurement Of Total Harmonic Distortion (THD) In A Signal Using Lab-view.
4	Speech Processing To Determine The Utterance Of Vowels.
5	Identification Of Person’s Lip Movement For Vowels, Fricatives And Stops By Calculating The Area, Centroid And Standard Deviation.
6	Enhanced Temperature Control Logic for Electro Static Precipitator (ESP) Hopper Heaters.

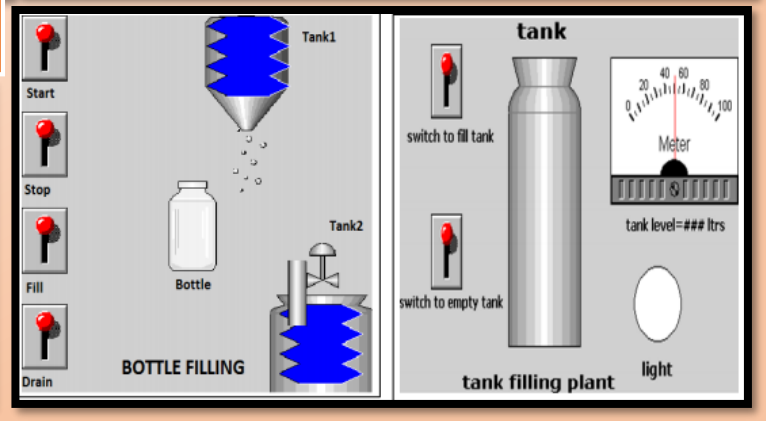






Open House Project Expo 2016





Open House Project Expo 2017

- Open House Project Expo is conducted by the Department every year which gives opportunity for the students to display their projects which benefits their learning capabilities.

- Event was held on 11.05.2017 from 10:30 am to 3:30 pm at the quadrangle of the Academic Block III. Around 26 teams had presented their projects, with 13 projects from UG students and 13 projects from PG students.

- Ms. Kalpana and Ms. Niya Jackson ECE Dept. RNSIT who had graced the occasion were invited to judge the best project.

SL.NO.	UG PROJECTS
1	Cashless Electronic Money to Avoid Quota Notes.
2	Smart Detection and Prognostication of Melanoma.
3	Load Cell Sensor Resistance Strain 50 Kg Half Bridge Sensor Body Scale.
4	Machine Learning Based Depression Level Detector.
5	Intelligent Traffic Control System.
6	Ultra- Low Noise Preamplifier for Capacitance Probe.
7	High Speed Data Acquisition Using LABView.
8	Milk Quality Analyzing and Tracking System Using ARM 7 Microcontroller.
9	An FPGA -Base Design For Joint Control And Monitoring of Permanent Magnet Synchronous Motors.
10	Cardiac Diseases Detection by Virtual Instrumentation.
11	Railway Track Crack Detection Using Microcontrollers.
12	Smart Car Solution Using LABView.
13	Home Automation using ATMEGA 328P and WLAN.

SL.NO.	PG PROJECTS
1	FPGA Realization of a Reconfigurable Multimode Interleaver
2	Architecture of algorithm Conceptualized and Reconfigurable for an Efficacious and Mutable Orthogonal Type Conjecture of DCT
3	Intelligent Monitoring unit for Electrical Distribution network
4	Brain Tumor detection Based on Integration of K-means and Fuzzy-c means Clustering algorithm
5	A Novel Approach To Discover Exudates With Morphological framework.
6	Data Analysis of Smart Electric Meter with the use of GSM and IoT.
7	Programmed Location of Veins in Retinal pictures.
8	Development and Testing of ETL Tool.
9	Extending Durability of Wireless Sensor Network Using Fault Tolerant Method
10	An Effective Level Set Frame Work to Detect Microneurysms in Retinal Effected Images
11	Design, Implementation, Analysis and Blue-Match Actuation for surface sensor using ATMEGA 2560 and LABView
12	Machine Learning Based Depression Level Predictor For Indian Farmers.
13	Image Enhancement and feature Extraction of Mammogram Images with the Aid of Fuzzy Theory and GlCM Algorithm.

Open House Project Expo 2017

Open House Project Expo 2018

- The Department of EIE conducted Open House Project Expo - 2018 on Saturday 14.05.18, from 10am to 3.30pm in the Quadrangle of Academic Block III.
- The Expo showcased 17 projects carried by the EIE students in various fields.
- Mr. Chetan Rajdev Deputy General Manager Bosch Rexroth India Ltd. who had graced the occasion was invited to judge the best 3 projects out of 17.
- The title of the three best projects are

  1) IoT based mental health stages forecaster using brain waves

  2) Card based antipiracy screening system

  3) Sign language translator.

SL.NO	UG PROJECTS
1.	Automatic Metro Train to Shuttle Between Stations with Application of IoT.
2.	Personalized Gesture Controlled Robot.
3.	Cloud Based Computing.
4	Intelligent Air Pollutant Vehicle Tracker System using Gas Sensor and GPS.
5.	IoT Based Mental Health Stages Forecaster using Brain Waves.
6.	Card Based Anti-Piracy Screening System.
7	Robbed Chain Locater and Tracker for Women Safety.
8	Intelligent Street Light Control With Motion Based Light Control GSM and GPS.
9	Arduino Based Wireless Communication.
10	Smart College Bus Tracking Management System and Its Application.
11	Li-Fi Based Patient Monitoring System.
12	GTRE(Engine Health Monitoring Aircraft).
13	Street Light And Traffic Management System Using IoT.
14	IoT Based Class Monitoring System.
15	War Field Spying Robot.
16	Car Accident Detection and Notification System using Smart Phone.
17	Finger Print Based Electronic Voting Machine.

Open House
Project Expo
2018

Open House Project Expo 2019

The Department of EIE conducted Open House Project Expo - 2019 on Saturday 11.05.19, from 10am to 3pm in the Quadrangle of Academic Block III.

The Expo showcased 19 projects (14 final year and 5 mini projects) carried out by the EIE students in various fields.

The evaluation committee/ Judges consisted of two industry experts and one internal expert as given below.

Expert	Designation	Remarks
Mr. Prakash Kaja	CEO, Saadruso Technology Ventures Pvt. Ltd., Bangalore	Industry Expert
Mr. B Vittal	Deputy General Manager, TATA Aerospace & Defence, Hyderabad	Special Invitee
Dr. B Vinay Kumar	Asst. Professor, Department of Chemistry, RNSIT	Internal Expert

Judges/ evaluation committee		Best Project
External	**Mr. Prakash Kaja** **CEO, Saadruso Technology Ventures Pvt Ltd** **Bangalore**	**INDOOR POLLUTION MONITORING AND ALERTING SYSTEM**
Internal	**Dr. B Vinay Kumar** **Asst Professor, Department of Chemistry, RNSIT**	**SMART RATION SYSTEM**

Project No.	MAIN PROJECTS
EI01	Compact Cosmic Ray Detector
EI02	Mass Fitness Monitoring Solution
EI03	An IoT Based E-Parking System for Smart Cities
EI04	Accident Sensing Smart Devices for Motor Cycles
EI05	Enhanced User Secured Ration Card System
EI06	Brain Attention Controlled Wheel Chair
EI07	Evaluation of Ballast Substructure Using Ground Penetrating Radar
EI08	Automative Agricultural Robot using Virtual Instrumentation
EI09	Pothole And Obstruction Detection System (PODS)
EI10	Indoor Pollution Monitoring and Alerting System
EI11	Astro Tracking and Digital Image Processing
EI12	Wireless Control of Robotic Arm Using Computer Vision and Grip Sensors
EI13	Implementation of Surveillance Monitoring System using Image Processing
EI14	EVM using RFID
	MINI PROJECTS
1	Smart Controlled Vehicle Based on Arduino
2	Attendance Monitoring System With Iot Interfaced With Raspberry Pi
3	Hand Gesture Control of your Laptop
4	Microcontroller Based Heart Rate Monitor
5	Curiosity Bluetooth Rover

Open House Project Expo 2019

Open House Project Expo 2019