

Institute – Industry Interaction

- i. An industrial visit was organised for 6th semester EEE students on 22.04.2016, to "Puttenahalli 220KV/66KV/11KV Substation" by Mr. Manjunatha Babu P, Asst. Prof. Dept of EEE. The objectives are, 1. To enhance the knowledge of switch gear and protection used in power system sector. 2. To understand the working of SCADA in power systems. 3. To understand the importance of single line diagram. 4. To understand the concept of lean loading and peak loading. 5. To understand the power system distribution scheme.



Students and Faculty at Puttenahalli Substation



Asst. Engineer, KPCL explaining the stages of stepping down voltage

- ii. An industrial visit was organized for the fourth semester students of EEE department on 29th April 2016, to "Mahatma Gandhi Institute of Rural Energy & Development", Jakkur, Bengaluru. The purpose of the visit was to create awareness about the energy scenario in the present day world among the students. The entire day schedule included few talks about the renewable energy sources, interaction with students about relative merits and demerits, some current trends etc. A talk about waste management was the highlight of the session. Later in the day the students were split in groups and taken around the institute's exhibition area. The entire energy requirement is met from the rooftop solar 20kW setup. The concept of grid, net metering etc was explained. The process of extraction of oil from Jatropha seeds and instrument were also shown.



Students and Faculty at MGIRED Roof top solar panel: 20KW



Students with the MGIRED staff near Bio Diesel Plant

DETAILS OF FACULTY INTERNSHIP 2015-16:

Sl. No.	Name of the faculty	Industry Name	Internship Date	Internship Outcomes
1	Shilpa G	Doordarshan Kendra, Bangalore	04-01-2016 To 13-01-2016	1. Completed the internship successfully. 2. Understood the various stages involved in production to transmission of programs during both live and recording. 3. Visited power supply unit of Doordarshan.
2	Babu Naik G	Doordarshan Kendra, Bangalore	04-01-2016 To 13-01-2016	1. Completed the internship successfully. 2. Understood the various stages involved in production to transmission of programs during both live and recording. 3. Visited power supply unit of Doordarshan.
3	Suma Umesh	Explore Embedded Systems	04-01-2016 To 14-01-2016	The internship gave 1) An exposure to how a product is built from concept to final product at different stages. 2) New products and their relevance in the current market. 3) Marketing and online sales of embedded products.
4	Manjula B.K.	Bangalore Aircraft Industries (pvt)Ltd. R T Nagar Bangalore	29-12-2015 to 07-01-2016	1) Practically understood the open loop and closed loop servo hydraulic control system. 2) The computer control system with hardware and software for testing materials. 3) Understood the types of transducers used like LVDT and Load cell.
5	Rajnikanth	Digital instruments and control systems Pvt. Ltd. Peenya Industrial Estate Bangalore	06-01-2016 to 14-01-2016	The internship gave an exposure on 1) Circuit connection of Star-Delta Starter and DOL starter using Ton-Timer, OLR, MCB, Contactor, start and stop button. 2) Variable Frequency Drive (VFD) System. 3) PLC Control Panel.

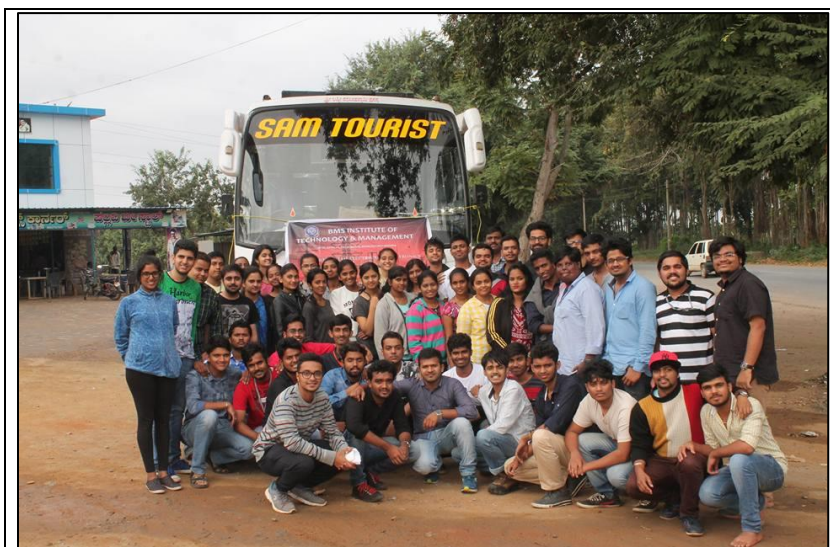
DETAILS OF FACULTY INTERNSHIP 2015-16:

Sl. No.	Name of the faculty	Industry Name	Internship Date	Internship Outcomes
1	H.D.Kattimani	Pragmatic EMBD Solutions	04-07-2016 to 15-07-2016	1. Exposure to Arduino UNO Microcontroller. 2. Control of Robots using Arduino UNO Microcontroller. 3. Exposure to different sensors like PIR, Humidity..
2	Vikram Chekuri	Vijay Technologies	06.07.2016 to 16.07.2016	1. Exposure to ALPHA-Numeric LCD Display. 2. Programming concepts of Arduino Microcontroller with various interfaces like memory & I/O devices. 3. Analyse the protocol architecture of GSM.
3	Manjunatha Babu P	Vignesh Vidyut Controls Pvt. Ltd.	11-07-2016 to 20-07-2106	1. Execute Double voltage double frequency test 2. Conduct Turns ratio test 3. Conduct dry and wet insulation winding testing 4. Conduct OC and SC test on 500KVA transformer 5. Identify different types of insulating materials used in transformer construction

				6. Select conductor type for customer requirement 7. Execute terminal connection of distribution and power transformer 8. Construct core for a given rating. 9. Explain tapping construction in transformer. 10. Conclude transformer condition based on test report.
4	Ozwin Dominic Dsouza	Vignesh Vidyut Controls Pvt. Ltd.	11-07-2016 to 20-07-2106	1. Execute Double voltage double frequency test 2. Conduct Turns ratio test 3. Conduct dry and wet insulation winding testing 4. Conduct OC and SC test on 500KVA transformer 5. Identify different types of insulating materials used in transformer construction 6. Select conductor type for customer requirement 7. Execute terminal connection of distribution and power transformer 8. Construct core for a given rating. 9. Explain tapping construction in transformer. 10. Conclude transformer condition based on test report.
5	Nagaraj D.C	Vijay Technologies	05.07.2016 to 15.07.2016	1. Exposure to ALPHA-Numeric LCD Display. 2. Programming concepts of Arduino Microcontroller with various interfaces like memory & I/O devices. 3. Analyse the protocol architecture of GSM.

September 2016

An Industrial visit was organized for V semester EEE students at Sharavathi hydal power plant Shivmogga on 24.09.2016. A total of 50 students have taken part in this visit. Students were accompanied by four faculty members from EEE department (Manjunatha Babu P, Ozwin Dominic Dsouza, Shilpa G and Babu Naik G). This visit was organized by Mr. Manjunatha Babu P, Asst. Prof, Dept. of EEE. Students were shown with the Power Plant Plan which covers the entire power station, Alternator cut sectional view, DC injection section, Pen stocks, Panel boards with monitoring and protection systems. In the switchyard, students were explained about the transmission aspects of electrical power.



5th semester EEE students at Sharavathi hydal power plant Shivmogga