K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

BEES NEWS LETTER

April 2016

ELECTRIC DRIVES & APPLICATION

BEES Association organised a seminar in "Electric Drives & Application" on 09.01.16 for the benefits of EEE students. drive system is widely used in large number of industrial and domestic applications like factories, transportation systems, textile mills, fans, pumps, motors, robots etc. Drives are employed as prime movers for diesel or petrol engines, gas or steam turbines, hydraulic motors and electric motors.

Dr.N.Selvaganesan, Department of Avionics, Indian Institute of Space Science and Technology, Trivandrum delivered a Seminar on "Electric Drives for Aerospace Applications". In this seminar he discussed about the power electronic converters and electrical machines critical role in modern aircraft. He also explored the development of high performance integrated starter/generator (S/G) is the key component of the electrical system which provides the necessary starting functions for the main engine and deliver high quality electrical power to aircraft loads. By end of this seminar students got keen knowledge in the development of electrical drives.

ADVANCEMENT IN BOILER TECHNOLOGY

Guest Lecture on Advancement in boiler technology was organised by BEES association on 22.01.2016. Boiler is an essential part of thermal power plant. Boiler is basically a closed vessel into which water is heated until the water is converted into steam at required pressure. The boiler is essentially a closed vessel inside which water is stored. Fuel (generally coal) is bunt in a furnace and hot gasses are produced. Boiler maintenance is an important role in thermal power plant

Mr. G Baburajendiran, SE, MTPS – Mettur thermal power station delivered lecture about basic working principle of boiler and different types of boilers. His lecture provided the information of parameters which were to be monitored and controlled in boiler. He also explained the technology (PLC) for boiler maintenance in thermal power plant. Students got clear view about boiler from basics to recent advancements. They also had good interaction with guest.

EXPLORING C

Although numerous computer languages are used for writing computer applications, the computer programming language, C, is the most popular language worldwide. Everything from microcontrollers to operating systems is written in C since it's very flexible and versatile, allowing maximum control with minimal commands. For the electrical engineering student career it is important to learn programming, in that wise choice is learning the C programming language. In this regard, Workshop for Exploring C was organised by EEE Association (BEES) on 06.02.2016 to motivate our department students for developing their programming skills.

Dr. P.Veena, Mr. T Srihari, and Mr. S.SuryaPrakash faculty members form our EEE department gave hands on practice in C programming. C basics with logical thinking also explained in this workshop. Faculty members insisted the importance of C programming for their placement. Soundly around 40 students got benefitted by this workshop.

ETAP

BEES Association organised a seminar on "Load Scheduling and Dispatch Using ETAP" in association on 23.02.16. ETAP is the most comprehensive analysis platform for the design, simulation, operation, and automation of generation, distribution, and industrial power systems. ETAP is developed under an established quality assurance program and is used worldwide as a high impact software. ETAP is completely localized in four languages with translated output reports in six languages. As a fully integrated enterprise solution, ETAP extends to a Real-Time Intelligent Power Management System to monitor, control, automate, simulate, and optimize the operation of power systems.

Mr. A Saravanan, Power System Engineer, GE Energy, Chennai delivered the lecture and he aimed at providing in-depth knowledge for the students in the areas of Load Scheduling And Dispatch Using ETAP software. The students gained the knowledge in the utilisation of ETAP software for solving various problems in power systems. Students got more involvement in this seminar because of the practical approach in guest presentation.

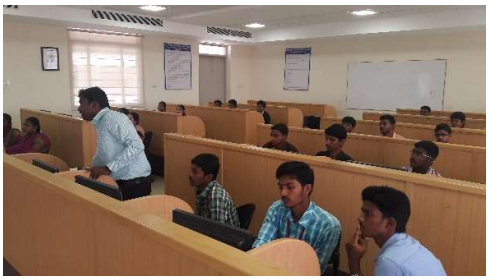
ADVANCEMENTS IN POWER SECTOR AUTOMATION

Guest Lecture in the topic of "Advancements in Power Sector Automation" was organised by BEES Association on 25.02.16. Automation has become an integral part in power sector thanks to the growing concern about enhancing plant performance through dependable and predictable operations. Power plant automation solutions help in automating turbine control, boiler control, boiler protection, the balance of the plant, and integration of third-party systems with the help of predictive maintenance and connectivity through the Internet.

Ms. Nithya Priya, Design Engineer, GE Energy, Chennai delivered the lecture about advancements in Power Sector Automation. Various automation schemes like PLC, SCADA were covered in her lecture. She also extended the lecture about placement opportunities in power sector. Students got an awareness of recent developments in power sector automation field.

ANDROID DEVELOPMENT

Hands on Workshop of Android Development Studio was organised by BEES Association on 26.02.2016. Android Studio is the official integrated development environment (IDE) for Google's Android operating system, built on JetBrains IntelliJ IDEA software and designed specifically for Android development. Android Studio was announced on May 16, 2013 at the Google I/O conference. It was in early access preview stage starting from version 0.1 in May 2013, then entered beta stage starting from version 0.8 which was released in June 2014.



Mr. S. Rajakumar, AP/IT, Mr. T Srihari /EEE, Mr.S.SuryaPrakash/EEE facuty team gave the hand on practices in Android Development Studio. Step by Step procedure were clearely gave to students from installation of Android Development Studio to the level of simple application development in android. By end of this Students were able to develop own android application.

EMBEDDED SYSTEM DESIGN

BEES Association organised a seminar in “Embedded System Design” on 09.03.16 for the benefits of EEE students. An embedded system is nearly any computing system other than a desktop computer. An embedded system is a dedicated system which performs the desired function upon power up, repeatedly. Embedded systems are found in a variety of common electronic devices such as consumer electronics ex. Cell phones, pagers, digital cameras, VCD players, portable Video games, calculators, etc.,

Mr. Manjunath, Electro System Associates, Bangalore delivered the seminar and he discussed various factors to be considered for embedded system design. Embedded systems had real time constraints, basic issues of real time operating systems were discussed. Synthesis if hardware and software along with a few of the optimization techniques were presented in this lecture. He ended with a brief overview of design verification methods that are adopted for embedded system design. Students were motivated towards to do project in embedded system by this seminar.

SMART GRID

Guest Lecture on the topic of Introduction to Smart Grid was organised by EEE Association (BEES) on 10.03.16. The Smart Grid represents an unprecedented opportunity to move the energy industry into a new era of reliability, availability, and efficiency that will contribute to our economic and environmental health. During the transition period, it will be critical to carry out testing, technology improvements, consumer education, development of standards and regulations, and information sharing between projects to ensure that the benefits.

Mr. A Saravanan, Power System Engineer, GE Energy, Chennai delivered a Guest lecture in smart grid technology. He explained the basic terminologies of smart grid system and also the benefits associated with the Smart Grid like More efficient transmission of electricity, quicker restoration of electricity after power disturbances. He also covered the need of smart grid to avoid the threats due to frequent power cuts. Students got interaction with guest and clarified their doubts in this topic.

ACADEMIC TOPPERS

S.NO	YEAR / SEM / SEC	NAME OF THE STUDENT	GPA	POSITION
1	I / I / A	ARUNKUMAR C	8.31	**1**
2	I / I / A	JANANI R	7.81	**2**
3	I / I / A	KOWSALYA K	7.73	**3**
4	I / I / B	YOGAPRIYA S	8.08	**1**
5	I / I / B	SRINIVASAN R	8.00	**2**
6	I / I / B	SWATHI S	7.88	**3**
7	II / III / A	ANITHA M	8.15	**1**
8	II / III / A	LAVANYA G	8.12	**2**
9	II / III / A	KARTHICK B	7.73	**3**
10	II / III / B	NAGAMANI E	7.46	**1**
11	II / III / B	NANDHINI T	7.46	**1**
12	II / III / B	ROKESH KUMAR R	7.42	**2**
14	II / III / B	SOMA SUNDARAM R	7.42	**2**
15	II / III / B	PRIYANKA M	7.38	**3**
16	III / V / A	NAVEEN KUMAR R	8.27	**1**
17	III / V / A	GAYATHRI A M	7.96	**2**
18	III / V / A	INDHU C	7.92	**3**
19	III / V / B	SHOBANA K	8.62	**1**
20	III / V / B	VENSIKA A	8.38	**2**
21	III / V/ B	SHEEBHA E	8.00	**3**
22	IV / VII / A	HEMA PRIYA C	8.71	**1**
23	IV / VII / A	KALAISELVI T	7.86	**2**
24	IV / VII / A	KEERTHANA K	7.86	**2**
25	IV / VII / A	ASHOK KUMAR M	7.71	**3**
26	IV / VII / A	VANITHA N	7.71	**3**
27	IV / VII / B	PAVITHRA V	7.71	**3**

STUDENTS PARTICIPATION					
S. No	**Name of the Student**	**Year / Sem**	**Name of the Event**	**Date**	**Organised By**
1.	Lavanya G	II/IV	Paper Presentation	17.02.16	Muthayammal Engineering College/EEE
2.	Kanagapriya R	II/IV			
3.	Harini K	II/IV			
4.	Diyana S	II/IV			
5.	Dhivya Bharathi S	II/IV			
6.	Bawadharani S	II/IV			
7.	Nagamani E	II/IV			
8.	Noornihar A	II/IV			
9.	Nandhini T	II/IV	Paper Presentation	20.02.16	Knowledge Institue of Technology/EEE.
10.	Sangavi K	II/IV			
11.	Nagamani E	II/IV			
12.	Noornihar A	II/IV			
13.	Jothibasu K	II/IV	Paper Presentation	23.02.16	Bannari Amman Institute of Technology/EEE
14.	Dhivagar A	II/IV			
15.	Lavanya G	II/IV	Paper Presentation	20.02.16	M.P.Nachimuthu M.Jaganathan Engineering College/EEE
16.	Kanagapriya R	II/IV			
17.	Gomathi PK	II/IV			
18.	Keerthana A	II/IV			
19.	Jeeva V	II/IV			
20.	Jayanthi R	II-M.E/IV	Paper Presentation	11.03.16	Ranganathan Engineering College
21.	Ramya A	II-M.E/IV			
22.	Krishna Kumar P	II-M.E/IV			
23.	Ravi A	II-M.E/IV			
24.	Ramya A	II-M.E/IV	Paper Presentation	24.03.16	Surya Engineering College
25.	Jayanthi R	II-M.E/IV			
26.	Krishna Kumar P	II-M.E/IV			
27.	Ravi A	II-M.E/IV			
28.	Ravi A	II-M.E/IV	Paper Presentation	17.03.16 18.03.16	Karpagam College of Engineering

STUDENTS PARTICIPATION					
S. No	**Name of the Student**	**Year / Sem**	**Name of the Event**	**Date**	**Organised By**
29.	Arun Kumar C	I/II	Paper Presentation	05.03.16	Sengunthar Engineering College
30.	Elanchezhiyan P	I/II			
31.	Keerthana S	II/IV			
32.	Jeeva V	II/IV			
33.	Elanchezhiyan P	I/II			
34.	Arun Kumar C	I/II			
35.	Arumugam A	III/VI	Workshop	06.02.16	National Institute Technology, Trichy
36.	Bhuvana Kumar N	III/VI			
37.	Naveen Kumar R	III/VI			
38.	Bharath Kumar S	III/VI			
39.	Ramadas K	III/VI	Workshop	19.02.16 20.02.16	National Institute Technology, Trichy
40.	Ramadas K	III/VI			
41.	Soundappan V	III/VI			
42.	Soundappan V	III/VI			
43.	Sivashankar N	III/VI			
44.	Yuvaraj SS	III/VI			
45.	Tamilselvan R	III/VI			
46.	Samuel S	III/VI			
47.	Saran Kumar RR	III/VI			
48.	Ranjith Kumar S	II/IV			
49.	Venkateswaran M	II/IV			
50.	Vijayan N	II/IV			
51.	Vijay R	II/IV			
52.	Sivaguru U	II/IV			
53.	Sabareeshwaran A	II/IV			
54.	Ranjith Kumar S	II/IV			
55.	Vijay R	II/IV			
56.	Manikandan S	III/VI	Workshop	23.02.16	Bannari Amman Institute of Technology, Sathyamangalam
57.	Balamanikandan G	III/VI			
58.	Mohanraj A	III/VI			

STUDENTS PARTICIPATION					
S. No	**Name of the Student**	**Year / Sem**	**Name of the Event**	**Date**	**Organised By**
59.	Pavithran L	III/VI			
60.	Ponkavin T	III/VI			
61.	Mahendiran D	III/VI			
62.	Mahendiren S	III/VI			
63.	Aravinthan A	II/IV	Workshop	24.02.16	Karpagam College of Engineering, Coimbatore
64.	Anitha M	II/IV			
65.	Harini K	II/IV			
66.	Jeeva V	II/IV	Workshop	21.02.2016	International Science and Research Organization
67.	Jasmine B	I/II	Workshop	02.03.16	M. Kumarasamy College of Engineering, Karur

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY

VISION

To become a globally recognized Institution in Engineering Education, Research and Entrepreneurship.

MISSION

- Accomplish quality education through improved teaching learning process.
- Enrich technical skills with state of the art laboratories and facilities.
- Enhance research and entrepreneurship activities to meet the industrial and societal needs.

Department of EEE

VISION

To produce world class Electrical and Electronics Technocrats and Entrepreneurs with social responsibilities.

MISSION

- Impart quality education in the field of Electrical and Electronics Engineering through state of the art learning ambience.
- Enrich interdisciplinary skills and promote research through continuous learning.
- Enhance professional ethics, entrepreneurship skills and social responsibilities to serve the nation.

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