

# K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY



DEPARTMENT OF  
ELECTRICAL AND  
ELECTRONICS ENGINEERING

## BEES NEWS LETTER

April 2018



## PCB DESIGN

EEE department organised a valued added courses on PCB Design in association with IEI Students Chapter (EEE) on 22.12.2017 & 23.12.2017 for our department. PCB (Printed Circuit Board) designing is an integral part of each electronics products. The students looking forward to making their career get to learn introduction to PCB and circuit design, types of PCBs, PCB printing, etching, and others.



**Mr. S. Keerthivasan, Application Engineer, C Cube Technologies, Erode**, handled the hands on practice in PCB design and fabrication. This courses covered disgn of circuit in PCB lelvel and fabricated it practically. The student's involvement was good and the session was very much interactive because of hands on training given to the students.

## COMMUNICATION SKILLS FOR BETTER RESULTS IN BUSINESS

Guest Lecture on Communication Skills for Better Results in Business was organised by EEE Department on 24.01.2018. Success as an entrepreneur is determined in large part by your ability to communicate. You can be the best at what you do, but if you're not communicating effectively with clients, staff and the market, then you're missing opportunities.



Developing communication skills can help many aspects of our life, from our professional career, to social gatherings, to our family life. In today's hectic world, we rely heavily on sharing information, resulting in greater emphasis being placed on having good communication skills. Good verbal and written communication skills are essential in order to deliver and understand information quickly and accurately.

**S.Matheswaran, Managing Director from Shakthi Sharran Chemicals**, delivered guest lecture on Communication Skills for Better Results in Business. The guest lecture aimed at providing in-depth knowledge for the students about communication skills for better results in business.

The students from third year gained clear knowledge on real time problems on communication skills in business. His lecture made the students to develop their communication skills and they showed intense towards the topic delivered.

## PRESENT SCENARIO IN ENTREPRENEURSHIP



On Behalf IEI Students Chapter (EEE) organised a guest lecture in the topic of Present Scenario in Entrepreneurship on 12.02.2018. A strong entrepreneurial sector can significantly boost economic growth of a country. India ranks among the top five countries in the world in terms of number of startups founded. The Startup-

ecosystem in India has seen a very slow growth last year. However, introduction of GST and Make In India initiatives, have given a momentum for change.

Recent reports from NASSCOM indicate that the start-ups and entrepreneurs in are multiplying. India is said to be third largest host for startup-ecosystems globally. It is measured that India houses around 4200 start-ups, creating more than 85000 employment opportunities. It is projected that the number of Start-Ups in India will increase to more than 11,500 by 2020, with job creation from these entrepreneurs reaching 250-300k by 2020.

**S.Jaisankar, Entrepreneurship Advisor, ThozilMunaivor Allosanai Mattrum Payirchi Maiyam** delivered guest lecture on Present Scenario in Entrepreneurship. This lecture aimed at providing in-depth knowledge for the students in the areas of Entrepreneurship. The students from third year gained knowledge on current scenario in entrepreneurship. The growths of entrepreneurship were clearly explained by the resource person. His lecture made the students to get some ideas on entrepreneurship and they showed intense towards the topic delivered.

## SOLID STATE DRIVES

BEES Association organised a seminar on “Solid State Drives” in association with IEI Students Chapter on 09.03.2018 for the benefits of EEE students. Whenever the term electric motor or electrical generator is used, we tend to think that the speed of rotation of these machines is totally controlled only by the applied voltage and frequency of the source current. But the speed of rotation of an electrical machine can be controlled precisely also by implementing the concept



of drive. In very simple words, the systems which control the motion of the electrical machines are known as electrical drives. This drive system is widely used in large number of industrial and domestic applications like factories, transportation systems, textile mills, fans, pumps, motors, robots etc.

**Dr.S.Paramasivam, Assistant General Manager (R&D) – ESAB Engineering Services Limited** from Chennai delivered guest lecture on Solid State Drives. This lecture aimed at providing in-depth knowledge for the students in the areas of electric drives in various applications. The students from third year gained awareness on the several applications of electrical drives and control methods for various motors. The various classifications of electrical drives were clearly explained by the resource person. His delivery attracted the students.

### MULTISIM WORKSHOP

A national level workshop on Multisim was organised by BEES Association on 03.02.2018. Multisim is widely used in academia and industry for circuits education, electronic schematic design and SPICE simulation. NI Multisim (formerly MultiSIM) is an electronic schematic capture and simulation program which is part of a suite of circuit design programs, along with NI Ultiboard. Multisim is one of the few circuit design programs to employ the original Berkeley SPICE based software simulation.



**Dr.T.Srihari, Professor/EEE, and Mr.A.Murugesan, ASP/EEE of our institution** conducted the hands on session for Multisim. The workshop proved to be very informative, giving the students deep insights about basic elements of circuit design flow: capture, simulation, prototyping and test. Through the exercise, students were familiarized with the NI Multisim environment, they will place and wire schematic components, simulate a completed circuit, and prototype and test. More than 100 students from various engineering colleges were participated and successfully completed the workshop.

### ACADEMIC TOPPERS

S.NO	YEAR / SEM / SEC	NAME OF THE STUDENT	GPA	POSITION
1	I / I	KAVIN MUTHU KUMAR S	8.68	1
2	I / I	MOHAN T	8.52	2
3	I / I	GUGANESH R	8.40	3
4	II / III	SARANYA.P	8.54	1
5	II / III	NITHIYASRI.R	7.81	2
6	II / III	BHARATHI KANNAN.M.R	7.73	3
7	III / V / A	ARUNKUMAR C	8.58	1
8	III / V / A	KOWSALYA K	8.15	2
9	III / V / A	JASMINE B	8.08	3
10	III / V / B	SRINIVASAN R	8.69	1
11	III / V / B	YOGAPRIYA S	8.00	2
12	III / V / B	PAVITHRA M	7.88	3

**ACADEMIC TOPPERS**

S.NO	YEAR / SEM / SEC	NAME OF THE STUDENT	GPA	POSITION
13	III / V / B	SWATHI R	7.88	3
14	IV / VII / A	ANITHA M	8.71	1
15	IV / VII / A	DIVYABHARATHI S	8.14	2
16	IV / VII / A	DIYANA S	8.14	2
17	IV / VII / A	KANAGA PRIYA R	8.14	2
18	IV / VII / A	KARTHICK B	8.00	3
19	IV / VII / B	THIYAGARAJAN S	7.86	1
20	IV / VII / B	NAGAMANI E	7.86	1
21	IV / VII / B	MYTHILI B	7.57	2
22	IV / VII / B	NANDHINI T	7.43	3
23	IV / VII / B	VINOTH KUMAR R	7.43	3

**STUDENT'S PARTICIPATION**

S. No	Name of the Student	Year / Sem	Name of the Event	Date	Organised By
1	Ranjith Kumar N	III/VI	Paper Presentation	13/02/2018	Gnanamani College of Tech
2	Praveen Kumar S	III/VI	Paper Presentation	13/02/2018	The Kavery Engineering College
3	Kavinkumar K	III/VI	Paper Presentation	16/02/2018	Muthayammal College of Engineering
4	Gokul N R	III/VI			
5	Gobi Krishnan R	III/VI			
6	Dinaharan S	III/VI			
7	Anand Kumar N	III/VI	Paper Presentation	21/02/2018 22/02/2018	Builders Engineering College
8	Dinaharan S	III/VI			
9	Gokul N R	III/VI			
10	Shankar NarayanM	II/IV	Workshop on Hybrid and Electric Vehicle	06/01/2018	Madras Institute of Technology / Automobile Engineering Engineering
11	Saravanan.V	II/IV			
12	Bharathi Kannan.M.R	II/IV			
13	SibinS	II/IV			
14	Mugesh M	II/IV			
15	Vivek V	II/IV			
16	Rajasekar P V	III/VI	Workshop on Internet of Things	19/01/2018	Kongu Engineering College/CSE
17	Manojkumar.R	III/VI			
18	Ravi A	III/VI	Workshop on Internet of Things	09/02/2018 10/02/2018	Bannari Amman Institute of Technology/EEE
19	Tamil Selvan M	III/VI			
20	Ramesh S R	III/VI			
21	Sekar S	III/VI			
22	Thiyagarajan S	IV/VIII	Project Presentation Hand Gesture Recognition for Physically Challenged people	27.02.18	Mahendra Engineering College, in association with IEEE
23	Praveen Kumar B	IV/VIII			
24	Soundara Kumar C	IV/VIII			

### Program Outcomes (POs)

<b>PO1</b>	<b>Engineering Knowledge:</b> Apply the knowledge of mathematics, science, and engineering fundamentals to solve the complex electrical engineering problems.
<b>PO2</b>	<b>Problem Analysis:</b> Identify, formulate, review research literature, and analyze complex Electrical and Electronics Engineering problems enabling attainment of conclusions using first principles of mathematics, natural sciences, and engineering sciences.
<b>PO3</b>	<b>Design/Development of Solutions:</b> Design solutions, components or process for complex Electrical Engineering problems to meet the specified needs considering public health, safety and environmental considerations.
<b>PO4</b>	<b>Conduct Investigations of complex problems:</b> Exercise research knowledge and technical methodology for design, analysis and interpretation of data to converge to a suitable solution.
<b>PO5</b>	<b>Modern Tool Usage:</b> Use modern engineering tools, softwares and equipments to predict, analyze and model engineering problems.
<b>PO6</b>	<b>The Engineer &amp; Society:</b> Apply reasoning skills to assess societal, health, safety, legal and cultural issues relevant to the professional engineering practice and take consequent responsibilities in the society
<b>PO7</b>	<b>Environment and Sustainability:</b> Realize the impact of the professional engineering solutions and demonstrate the knowledge for sustainable development in environmental context
<b>PO8</b>	<b>Ethics:</b> Apply and realize the professional ethics and responsibilities in Electrical engineering practice.
<b>PO9</b>	<b>Individual and Team Work:</b> Exhibit Individuality, Leadership and Team spirit in multidisciplinary settings.
<b>PO10</b>	<b>Communication:</b> Communicate, comprehend, write reports, design documentation and presentation effectively on complex engineering activities
<b>PO11</b>	<b>Project Management &amp; Finance:</b> Demonstrate the Electrical engineering and management principles adhering to financial strategies to manage projects as a member or leader in a team
<b>PO12</b>	<b>Life Long Learning:</b> Inculcate independent and life-long learning in the broadest context of technological change.

### Program Specific Outcomes (PSOs)

**PSO 1: Electrical drives and control:** Graduates will Analyze, design and provide Engineering solutions in the field of Power Electronics and Drives

**PSO 2: Embedded system:** Graduates will Simulate, experiment and solve complex problems in Embedded System.

# **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.

---

## **Editorial Board**

### **Student Incharges**

Anitha M IV year EEE

Elanchezhiyan P III Year

### **Faculty Incharge**

Mr. P.Krishnakumar

Assistant Professor / EEE

# **BEES NEWS LETTER**

April 2018