K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY





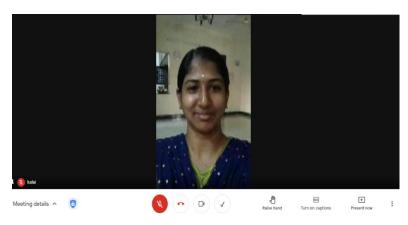
DEPARTMENT OF
ELECTRICAL AND
ELECTRONICS ENGINEERING

BEES NEWS LETTER

November 2020

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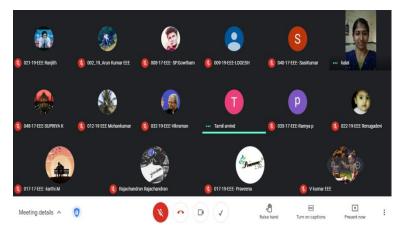
Webinar on Role of Quality Analyst in Industry



The Department of Electrical and Electronics Engineering, BEES Association K S R Institute for Engineering and Technology organised a webinar on "Role of Quality Analyst in Industry" on 03.07.2020 through Google Meet. The role of Quality Analyst is very

essential for an organization to satisfy their clients by providing high-quality products that meet all their requirements. They are being responsible to work in a variety of industries, including **customer service**, **food**, **manufacturing and technology** from planning to implementation.

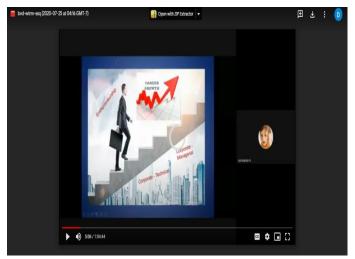
T. Kalaiselvi, Executive Leader QA, Igarasi Motors India Ltd, Chennai, delivered the students to build their ability to think in the abstract and see how small details fit into the bigger picture. She provided details about the expectations of core industry from budding engineers.



QAs must remain focused on developing a project within whatever department they work for. She also mentioned that responsibilities of quality analyst in the Industry. She also mentioned that responsibilities of quality analyst in the Industry. The well organised webinar was found more useful to students and faculty of Electrical and Electronics Engineering department. Her lecture made the students to develop their technical, interpersonal_skills and they showed intense towards their successful career.

Webinar on Opportunities for Power Engineers - An Industrial Perspective

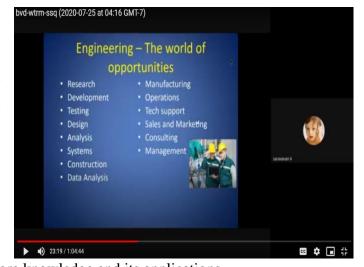
The Department of Electrical and Electronics Engineering, BEES Association K S R Institute for Engineering and Technology organised a webinar on "Opportunities for Power



Engineers- An Industrial Perspective" on 25.07.2020 through Google Meet. Unless using electricity goes out of style, power engineers will always be needed. Power Engineers apply their domain knowledge and acumen to design systems and minimize power losses during generation, transmission and distribution.

Overall employment of electrical and electronics engineers is **projected to grow 7 percent from 2020 to 2030**, about as fast as the average for all occupations. About 22,700 openings for electrical and electronics engineers are projected each year, on average, over the decade.

Mr. Sharavan Kumar A,
Technologist, Power Projects and
consulting, ABB Private Limited had a
quite interesting interaction with our
department students. He provided the
wide opportunities and technological
developments in power sector and
industrial expectations from freshers. He



also motivated the students to gain more core knowledge and its applications.

Finally he also shares the future scope of Power Engineering to the students and its new technological research and developments in power sector. His lecture made the students to develop their knowledge in power sector and they showed intense towards the topic delivered.

Webinar on Review of Feature Extraction Methods in Digital Image Processing

The BEES Association organised a webinar on "Review of Feature Extraction Methods in Digital Image Processing" on 03.08.2020 for the benefits of EEE students through Google meet. In real life, all the data we collect are in large amounts. To understand this data, we need a process. Manually, it is not possible to process them. Here's when the concept of feature extraction comes into

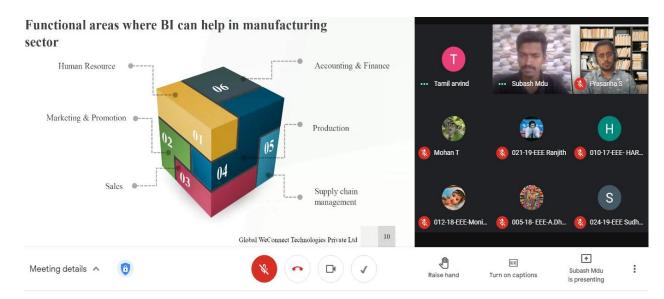
existence in Image Processing. Image processing is one of the best and most interesting domains in engineering applications.

Mr. S. Sheik Majeeth, Proprietor, Majeeth Academy, Chennai started the session with a brief introduction with what is image processing which plays an important role in real time applications. It is also very essential in terms of good storage capacity, efficiency in classification and obviously in time consumption. He mentioned the types of image processing techniques like segmentation, feature extraction etc., Before getting features, various image preprocessing techniques like binarization, thresholding, resizing, normalization etc. are applied on the sampled image. After that, feature extraction techniques are applied to get features that will be useful in classifying and recognition of images. He also added that the different mathematical transformations, algorithms for edge detection and segmentation which is used for feature extraction in Image Processing. He also shares his personal experience to the students to upgrade their technical skills for their career growth.

The students of IV year and PG students got inspired and also gained a clear knowledge of the topic delivered. The guest motivated the students to learn image processing which is helpful for their higher studies and research areas in engineering.

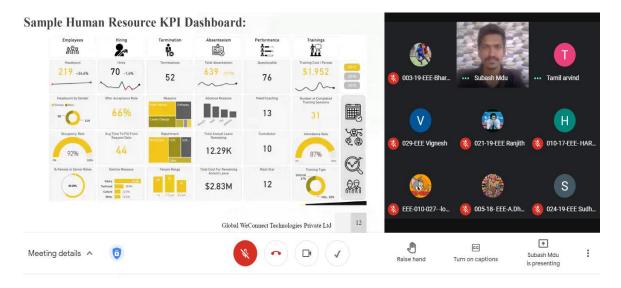
Webinar on Role of Data Analytics in Core Industry

The BEES Association organised a webinar on "Role of Data Analytics in core Industry" on 07.08.2020 for the benefits of EEE students through Google meet. The world as we know it will continue to be increasingly driven by data. From a corporate perspective, data analytics is the tool that helps business owners in this day and age both understand how their business is faring and pinpoint areas that need attention. Data analytics has found its way across



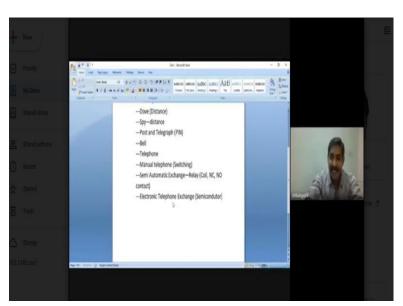
a variety of industries from banking and healthcare to technology, manufacturing, and education. Manufacturers use big data analytics in the same way as most other commercial entities except with a narrower focus. They collect huge amounts of data from smart sensors through SQL that allow them to uncover patterns that help them improve the efficiency of supply chain management.

Subash P R & Prasanna S Software Engineer, Infinite Computer Solutions, Bangalore gave their presentation started with definition of data analytics and also exploring the role of data analytics in our day to day life. They related food and milk processing industries with data processing. They enlisted the different tools used for data processing and visualization. They provided the importance and use of SQL (Sequential Query Language in data analytics. They shared the functional areas where BI can help in manufacturing sector. They showed the operation of sample Human Resource KPI Dashboard.



They insisted the students to practice programming in SQL. Students from our department understood the importance of data analytics in near future. Guest gave guidelines to the students towards job opportunities in the area of data analytics in core industry.

Webinar on Mobile Communication Technology



The Department Electrical and Electronics Engineering, BEES Association K S R Institute for Engineering and Technology organised a webinar on "Mobile Communication Technology" on 08.08.2020 through Google Meet. The term "mobile" has completely revolutionized the communication by opening innovative applications that are

limited to one's imagination. Today, mobile communication has become the backbone of the society

Mr. V. Anbalagan, Sub Divisional Engineer, BSNL-Salem covers the features. multiplexing techniques of 2G, 3G, 4G, 5G wireless communication networks mobile used in communication systems and antennas. He stated the fibre optic cables, lining and switching in telephonic exchanges. He also shares



his experience how BSNL sharing its network and customer services throughout the city. Finally, he gave the insights of job opportunities and training in BSNL, communication sector. His lecture made the students to develop their knowledge in telecom industries and they showed intense towards the topic delivered.

Webinar on Copyright and Related Rights for Digital Era

The BEES Association organised a webinar on "Copyright and Related Rights for Digital Era" on 12.08.2020 for the benefits of EEE students through Microsoft Teams. In digital era, Copyright protection is generally granted to original literary, musical, dramatic or artistic works. But the growth of new technology has given rise to new concepts like computer programs, computer database, computer layouts, various works on web, etc. So, it is very necessary to know more about copyright with regard to computer programs/software, computer databases and various work in cyber space. Copyright is a key issue in intellectual property rights in digital era.

Mr.K Karikolraj, Managing Director, ABC Infomedia Private Limited, Erode delivered the lecture about the scope and various concepts connected with Copyright. He elaborated the Copyright issues associated with digital / electronic information and protection of digital right. He mentioned the salient economic properties and need of copyrights in digital marketing. He also provided the ownership issues, rights afforded by copyright law regarding copyrights in today's scenario.

The students of IV year and PG students got inspired about the topic delivered. They also got awareness about IPR which has become essential in the digital environment because in the digital environment it is becoming difficult to prove rights violation whenever they occur.

Webinar on Opportunities for Electrical Engineers in Power Industry



The BEES
Association organised a webinar on "Opportunities for Electrical Engineers in Power Industry" on 29.08.2020 for the benefits of EEE students through Google meet. The projected growth of Indian economy largely

depends upon the performance and growth of the power sector. As estimated, India needs to augment power production to 8 lakh mega watts from the current 1.6 lakh mega watts to sustain present economic growth in next 25 years. In post reform era, Indian power sector has witnessed radical changes in terms of restructuring of the Electricity Boards. Today, along with government

companies, large numbers of private companies have taken over a significant portion of Indian power sector particularly in generation and distribution. So there is more demand to Electrical Engineers in future.

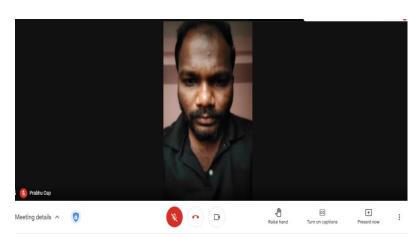
Mr.V.Manoj Kumar, Assistant Engineer, Grid Relay Testing, Trantransco his gave presentation about electric power generating installations, transmission lines and distribution centres. He details provided the about manufacturing process like design, fabrication, testing and commissioning of instruments. He also shared the



tremendous opportunities for electrical engineers like Site Manager, Data Analyst/ Diagnostic Engineer, Maintenance Manager, Control Engineer, Instrumentation Engineer etc.,

The students gained clear knowledge on real time scenarios in power sector. His lecture made the students to develop their core knowledge and they showed intense towards the topic delivered.

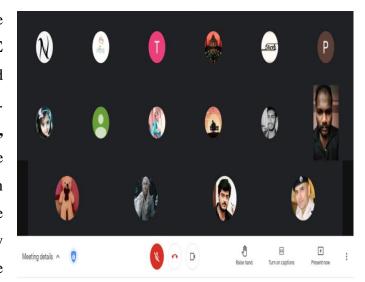
Webinar on Awareness of Python Programming in Today's Scenario



The Department of Electrical and Electronics Engineering, BEES Association K S R Institute for Engineering and Technology organised a webinar "Awareness of **Python** on **Programming** in Today's Scenario" on 05.09.2020 through Google Meet. Today, Python is

considered as one of the most dynamic as well as robust programming languages. The reason is its code readability. Python is widely used in real time applications like web applications, videogames, Data Science, Machine Learning and much more.

The Session started with welcome address by Dr.R.Jeyabharath, HOD/ EEE and followed by a chief guest was introduced Mr.S.Sibin by of IV year/EEE. Mr.V.Prabhakaran, Network Analyst, HCL Technologies, Chennai delivers the speech about the aawareness of Python Programming in Today's Scenario. He provided the different libraries which is very essential for real time applications. He



mentioned the implementation and syntax of the programming language allows the programmer to write less code as compared to other programming languages like C++, Java, and more. He also shared his experience of practicing as an engineer at the initial stages.

He also gave some suggestions and shared his view of developing the programming knowledge in IT field to the students. The session came to an end by the vote of thanks delivered by Mr.Y.Kalimuthu, Assistant Professor/EEE.

Webinar on Production of Noise Free Transformer with High Efficiency and Low Losses.

The Department of Electrical and Electronics Engineering, BEES Association organised a webinar on "Production of Noise Free Transformer with High Efficiency and Low Losses" on 11.09.2020 through Microsoft Teams. It is estimated that transformer losses in power distribution networks can exceed 3% of the total electrical power generated. In India, for an annual electricity consumption of about 500 billion kWh, this would come to around 15 billion kWh. While considering the most efficient energy transfer equipment like a transformer, concept of life cycle cost is very much relevant. The total cost of owning and operating a transformer must be evaluated, since the unit will be in service for several decades.

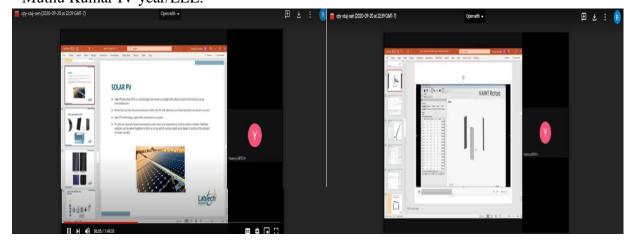
Mr.R Devaraj, Proprietor, Real Power Vision Bangalore delivered the lecture on the operation of transformer for different transformation ratios. He gives a detailed explanation of the variation of losses during operation and minimisation of losses during design stages. Nowadays, the competitive nature of the industry gives an incentive to provide low losses and noise levels in order to sustain in the market, both of which are improved by using the step-lap construction. He provided the methodologies and techniques for reducing losses in transformers. He also elaborated the application of transformers in electrical energy

production, distribution and power supplies. He also added the economic analysis of transformers manufactured in the industries.

The students of IV year and PG students understand the concept of a reflected load in a transformer and its application in impedance matching. The session was found useful to do their final year projects and also to extend their work in future.

Seminar on Recent Technologies in Renewable Energy System

The Department of Electrical and Electronics Engineering, BEES Association K S R Institute for Engineering and Technology organised a webinar on "Recent Technologies in Renewable Energy System" on 21.09.2020. Renewable energy resources are crucial for lowering carbon dioxide emissions and enabling a secure energy future. It is the fastest growing sources and alternative energy today. The emergence of renewable energy has revolutionised world markets, and renewable-driven change continues with unprecedented speed. It is expected to make up 30 percent of the world's energy by 2024, according to the International Energy Agency, and most of this is driven by solar and wind projects that continue to be rolled out at a startling pace. The seminar started with welcome address by Dr.R.Jeyabharath, HOD/ EEE, followed by Chief Guest was introduced by Mr.S. Kavin Muthu Kumar IV year/EEE.

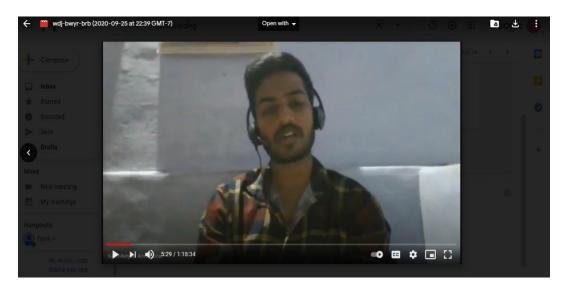


Mr.G.Yuvaraj, Director Labtech Automation, Chennai delivers his lecture on recent technologies in Renewable Energy System. He provided the different techniques, algorithms and controllers to enhance its maximum efficiency and high productivity of renewable energy systems. He also mentioned the above solutions which helps to promote sustainability through recycling, minimum resource utilization.

The Guest shares his personal and technical experience in his field. The II, III and IV Students also inspired by the topic delivered. Finally the seminar was concluded by giving vote of thanks by Mr. T. Arvind, Assistant Professor/EEE.

Webinar on Opportunities and Career growth in IT Industry

On behalf of Alumni Cell in association with **Industry**—**Institute Interaction Cell**, the Department of EEE organised a webinar on "**Opportunities and Career growth in IT Industry**" on 26.09.2020 through Google Meet. No matter where you start in IT or in which capacity, there are countless opportunities for career growth. IT provides some of the best careers for moving up the ladder and expanding professionally. The seminar started with welcome address by **Dr.R.Jeyabharath**, **HOD/EEE**, followed by Chief Guest was introduced by Ms. M. Nandhini II year/EEE.



Mr.A.Karthikeyan, System Engineer, Tata Consultancy Services (TCS), Chennai started with a brief introduction of what is information technology and different programming languages used in real time applications. He provides the various scopes and job opportunities for the students in the field of IT sector. He mentioned the roles, responsibilities and career growth after the students entering into the IT sector. He also added that students should update their knowledge related to the recent trends in their field in order to survive and achieve the best.

He also insisted the students to learn different programming languages and shared his view of developing the knowledge in this mere field to the students. Finally the seminar was concluded by giving vote of thanks by **Mr. T. Arvind**, **Assistant Professor/EEE**.

Webinar on Industry Expectations from Students

On behalf of Alumni Cell, the Department of EEE organised a webinar on "Industry Expectations from Students" on 17.10.2020 through Google Meet. The seminar started with welcome address by Dr.R.Jeyabharath, HOD/ EEE, followed by Chief Guest was introduced by Ms. M. Nandhini II year/EEE.

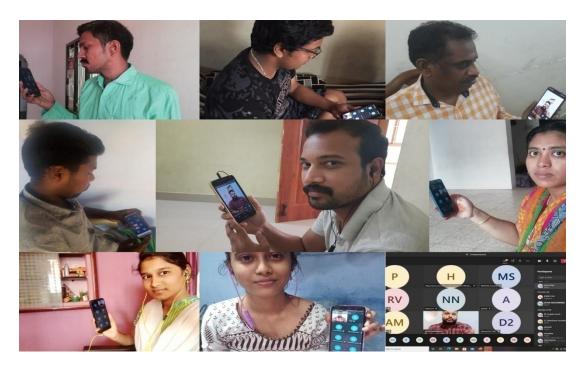


Mr.R.Naveenkumar, Project Engineer, Wipro Technologies, Hyderabad delivers his presentation about the industrial expectation to the students. He urges the students to upgrade their technical skills and recent developments in their field. He also added that the students should possess the positive approach in their work and the ability to work in teams. He motivated the students to learn soft skills including reasoning, analytical thinking, complex problem solving and critical reasoning apart from core specific skills.

The students got a clear knowledge of real expectations from industry. The students were found useful to be prepared with their problem solving, technical skills before entering into their placements. Finally the webinar was concluded by giving vote of thanks by **Mr. T. Arvind**, **Assistant Professor/EEE**.

Seminar on Entrepreneurial Culture

The Department of Electrical and Electronics Engineering in association with **Industry** – **Institute Interaction Cell** organised a webinar on "**Entrepreneurial Culture**" on 27.10.2020 through Microsoft Teams. The webinar started with welcome address by **Dr.R.Jeyabharath**, **HOD/EEE**, followed by Chief Guest was introduced by Mr. P. Gokulraj III year/EEE.



Mr. Shaik Mohammed, Administration Head, KREO DIZZARTS- Design and Interior, Bangalore started his presentation on Entrepreneurial Culture. He enquired the students those who were interested in making a product on their project ideas with their efforts and contribution towards the same. He instructed the students to build their conceptual ideas which will solely be based on the interest and requirement of the consumer. He also added that the best servicing underlie in the effort of the engineer who tries to fulfil his client's needs with simple solution.

He then insisted the students to always find the solution for the necessities in our day to life in order to simplify the living style of the society and environment. It helps our students to accomplish their goals and dreams to change into Start-up for their successful career. Finally the webinar was concluded by giving vote of thanks by Mr. C. Sivakumar, Assistant Professor/EEE.

Seminar on Start-ups and Entrepreneurship Opportunities in Abroad

The Department of Electrical and Electronics Engineering in association with Industry – Institute Interaction Cell organised a webinar on "Start-ups and Entrepreneurship Opportunities in Abroad" on 06.11.2020 through Microsoft Teams. The webinar started with welcome address by Dr.R.Jeyabharath, HOD/ EEE, followed by Chief Guest was introduced by Mr. P. Gokulraj III year/EEE.



Mr.Anbarasu Gandhimariappan, Entrepreneur, Digital Energy Group, Qatar explained about his own career experience and how much liking the business. He explained importance of perfection and timing in business and he coated to become entrepreneurship need the 2 to 3 years experience and working knowledge. He added to be stand particular position in business need dedication and uniqueness. Finally he mentioned for an Entrepreneurship need more analysis on particular business like losses, profit and success rate, customer feedback, this things are become a good entrepreneur. He enquired the students about their interest towards own business. He then asked the students those who were interested in making a product on their own ideas about their efforts and contribution towards the same.

He then insisted the students to improve standards of living and also to innovate create their skills to their problems, not only for the entrepreneurs but also for their related businesses. He motivated the students to enrich their creativity, technological knowledge, or finances to generate their own entrepreneurial skills. Finally the webinar was concluded by giving vote of thanks by Mr.Santhoskumar Final year EEE.

ACADEMIC TOPPERS						
S.NO	YEAR / SEM / SEC	NAME OF THE STUDENT	GPA	POSITION		
1	I/II	SUDHANDIRA DHIVYA K	10.0	1		
2	I/II	SWATHI R	10.0	1		
3	I/II	ANUNITHA J	9.84	2		
4	I/II	VAANMATHI.S	9.16	3		
5	II/IV	HEMALATHA S	9.36	1		
6	II/IV	MONISA B	9.36	1		
7	II/IV	GOKULRAJ P	9.08	2		

ACADEMIC TOPPERS						
S.NO	YEAR / SEM / SEC	NAME OF THE STUDENT	GPA	POSITION		
8	II/IV	JAMBUKESH I	8.80	3		
9	III/VI	MOHAN T	9.86	1		
10	III/VI	KAVINKUMAR M	9.57	2		
11	III/VI	KAVIN MUTHU KUMAR S	9.57	2		
12	III/VI	SANTHOSHKUMAR K	9.57	2		
13	III/VI	SURESH P	9.57	2		
14	III/VI	THAMIZHSELVAN R	9.57	2		
15	III/VI	PRAVEEN KUMAR A	9.43	3		
16	III/VI	RAMYA P	9.43	3		
17	III/VI	VENKATESAN M	9.43	3		
18	IV/VIII	SARANYA.P	9.40	1		
19	IV/VIII	KARTHIKA DEVI.S	9.20	2		
20	IV/VIII	MYTHILI.N	9.00	3		
21	IV/VIII	SUVETHA.T	9.00	3		
22	IV/VIII	PREETHA.E	9.00	3		
23	IV/VIII	NITHIYASRI.N	9.00	3		

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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Mr. T. Arvind

GokulRaj P III Year EEE

Assistant Professor / EEE

BEES NEWS LETTER

November 2020

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