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# COMMUNIQUE

A Bi-annual Newsletter



Estd.2000

Electrical & Electronics Engineering

## From The Editor's Desk



Once more, it is with immense pleasure that I have been given the opportunity to work on 2<sup>nd</sup> issue of volume 5th of the Departmental Newsletter.

A newsletter mirrors the department-its vision and mission. It also highlights events, activities, academic progress and achievements. In this edition, I have tried to capture all the major activities of the last six months undertaken by the department. We all know that the entire world has been going through the difficult time due to prevailing COVID-19 pandemic situation restricting mass gatherings/assemblies or physical interactions. Due to this reason, most of the events and activities conducted during this time had been online on digital platforms.

This newsletter provides an opportunity for our students to showcase their creative abilities and hidden dreams. I do hope that the newsletter encourages many more students to use it as an opportunity to express their creativity. I sincerely hope that this edition makes for an interesting read. It is expected that wide support for the mission will be provided through the reader's valuable feedback

Happy Reading!

**Vision-Mission**

**Publications**

**Outreach Activities**

**Technical Staff Development Programme**

**Guest Lectures organized under IAAA**

**FDP/Seminar/Workshop Attended**

**Achievement**

**Webinars Organized**

**Faculty Development Programs Organized**

**Student's Participation**

**Placements 2019-2020**

*Sincerely,*  
**Isha Rajput**  
**Assistant Professor (EN)**



Estd. 2000

# ABES ENGINEERING COLLEGE

20 Years of Excellence



## Communique'20

### VISION

To impart futuristic technical education and instill high patterns of discipline through our dedicated staff, who shall set global standards, making our students technologically superior and ethically strong, who in turn shall improve the quality of life of society at large.

### MISSION

- To conduct the undergraduate programs with practical exposure, creating new knowledge and skill-sets by engaging in the research-oriented approach and promoting the academic growth.
- To identify the areas of specialization needed in the industry, upon which the focus is needed
- To promote creative thinking and innovations by the students and faculty.

- To develop strong industry-academia relationship, which offer long term opportunities and benefits.
- Strive for the continuous growth of the department by upgradation of the existing facilities and experimental setup in the department.
- To develop human potential to its fullest extent so that intellectually capable and creative leaders can emerge from the department.
- To nurture students and infuse professional ethics, human values and positive attitude in the students.

### Programme Educational Objectives (PEOs)

- To provide solid foundation in electrical and electronics engineering along with good communication and entrepreneurship skills for tackling social issues.
- To impart students with good scientific and engineering knowledge in order to analyze, design and create novel products for giving practical solutions to real life problems. society.
- To create engineers with sound technical knowledge for facing all sorts of challenges in industry or in pursuance of higher studies.
- To motivate students, acquire aptitude for lifelong learning along with leadership skills, team spirit and ethical values so that they upgrade themselves with the latest trends in the field of engineering in order to serve the society.

## Programme Outcomes (POs)

- **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## Programme Specific Outcomes (PSOs)

- An ability to specify, design and analyze systems that efficiently generate, transmit, distribute and utilize electrical power.
- An ability to analyze and design electrical machinery, electrical/electronic circuits, electrical/solid state drive systems, lighting systems and deliver technological solution by assimilating advances in allied disciplines.
- An ability to specify, design, implement and test analog and embedded signal processing electronic systems using state of art components and software tools.
- An ability to analyze, design and implement the learning in electrical instrumentation, control and automation applications.

## PUBLICATIONS

- **Dr. Gajendra Singh**
  - ❖ Presented a Paper on **“Different Energy Efficiency Techniques for coal fired Thermal Power Plant”** in a 2-days Seminar on Recent Trends and Development in National and International Power Sector during 19th - 20th Feb 2020.
- **Dr. Hemant Ahuja and Dr. Vikas Singh Bhadoria**
  - ❖ Published a paper on **“Control implementation of Squirrel cage induction generator based wind energy conversion system”** in Journal of Scientific & Industrial Research in April 2020.
- **Dr. Vikas Singh Bhadoria and Dr. Amit Agarwal**
  - ❖ Published a book chapter on **“Smart Industrial Packaging and Sorting System”** in Strategic System Assurance & Business Analytics, Asset Analytics by SPRINGER, Singapore on 20th June 2020.
  - ❖ Published a paper on **“Comparative study on Particulate Matter Control Techniques: A Review”** in International Journal of Advanced Science and Technology in June 2020.
- **Dr. Vikas Singh Bhadoria**
  - ❖ Published a book chapter on **“Performance analysis of optimal placement of Multiple DGs using PSO”** in Decision Analytics Application in Industry, Asset Analytics by SPRINGER in June 2020.
- **Dr. Amit Agarwal**
  - ❖ Published a paper on **“Performance analysis of LUO converter in continuous conduction mode for Electric Vehicle”** in International Conference FlexEV-2020 during 5th-6th March 2020.

- **Ms. Pragati Shrivastava Deb, Ms. Niharika Varshney and Ms. Isha Rajput**
  - ❖ Published a paper on **“Speed control of stepper motor using MATLAB”** in International Journal of Research and Analytical Review on 22nd February 2020.
- **Ms. Pragati Shrivastava Deb**
  - ❖ Published a paper on **“Automated shopping Trolley using Raspaberry PI Device”** in International Journal of Research and Analytical Review on 3rd June 2020.
- **Mr. Shubham Tiwari**
  - ❖ Published a paper on **“Fuzzy Logic Controller based solar MPPT and battery charging for hybrid vehicle application”** in International Conference FlexEV-2020 during 5th-6th March 2020.

## OUTREACH ACTIVITIES

- **Dr. Gajendra Singh**
  - ❖ Delivered talks in 3-days Online Faculty Development Program on **“Human Values and Ethics” organized at Hi-Tech Institute of Engineering and Technology** during 23th – 25th June 2020.
  - ❖ Delivered talks in Four Online Faculty Development Programs (5-days each) on **“Incorporating Universal Human Values in Education”** organized by AICTE, May – June 2020.
- **Mr. Gurpreet Singh**
  - ❖ Contributed as a Manuscript Reviewer in 1st IEEE International Conference on **“Measurement, Instrumentation, Control and Automation (ICMICA 2020)”** organized at NIT Kurukshetra online during 24nd – 26th June 2020.
- **Mr. Ankit Tayal**
  - ❖ Delivered a lecture on **“Introduction to Electric Vehicle”** in an Online Faculty Development Program on Electric Vehicle organized by Vidya Jyothi Institute of Technology, Hyderabad on 11th June 2020.

## Technical Staff Development Programme

The Internal Quality Assurance Cell, ABESEC organized a Technical staff development program on “**Fundamentals of Multisim™ and its Applications**” in association with the Department of Electrical and Electronics Engineering, from 28th to 29th February 2020 for the lab staff members from various branches. There was very good participation of staff members from different Institutes also. The purpose of the Technical Staff development program was to provide Computer awareness, software introduction and cover the basic Knowledge on Multisim™ programming in order to enhance the Laboratory delivery of the technical staff members. The Program was well organized by **Ms. Pragati Deb (Assistant Prof.)** and **Ms. Isha Rajput (Assistant Prof.)**.



Technical staff development program on  
“Fundamentals of Multisim™ and its Applications”

## GUEST LECTURES organized under IAAA

A Guest Lecture on “**Smart Health monitoring system for Electrical Drives**” was organized for III year students of the Department on 24th February, 2020. The speaker for the lecture was Prof. D. K. Chaturvedi, Head of Dept. of Footwear Technology, Dayalbagh Educational Institute (D.E.I.) Deemed University, Dayalbagh, Agra.

Prof. D. K. Chaturvedi started his Lecture by explaining the basics of induction motor. He taught how an induction motor works and told about the faults and failures in induction motor which can lead to excessive downtimes and result large losses in terms of maintenance and revenues. He explained the similarities of health monitoring of induction motor to that of human health monitoring done by an expert by measuring various parameters with the help of different instruments. He described various faults and their impacts which occur in induction motors. He told about the traditional health monitoring methods which is used to monitor the working condition of induction motors. He explained that with the knowledge of fuzzy logic and genetic algorithm, an effective soft computing techniques can be developed to monitor the machine health. He showed a separate dedicated hardware setup and data acquisition system using LabVIEW for the health monitoring of Induction Motor (IM) which has been installed in their institute and also showed the results of successful monitoring and fault detection of the induction machines using the implemented set up of soft computing techniques. At the end, he answered all the queries of the students and faculties and motivated all the students to further work on the design and engineering of health monitoring systems of various electrical machines and systems. Ms. Niharika Varshney and Mr. Rohit Rastogi (CS Department) coordinated the overall program under the guidance of Prof. (Dr.) Hemant Ahuja, HoD EN.



## FDP/Workshop/Seminar/Webinar attended by Faculty Members

### ❖ Dr. Gajendra Singh

#### ➤ Faculty Development Programme (FDP)

- ♦ Attended an 8-days Faculty Development Program on **"Universal Human Values & Professional Ethics"** during 12th – 19th January 2020.
- ♦ Attended a 1-week Online Faculty Development Program on **"Electric Vehicles: New Trends & Technologies"** during 22th – 26th June 2020.

### ❖ Dr. HEMANT AHUJA

#### ➤ Workshop

- ♦ Attended a 2-days Workshop on **"NBA Accreditation and Outcome Based Education"** organized by UPID, AKTU Noida Campus during 29th-30th January 2020.

#### ➤ Faculty Development Programme (FDP)

- ♦ Attended a 5-days Faculty Development Program on **"Research Challenges and Innovations in Renewable Energy Technology"** organized by the Department of Electrical and Electronics Engineering in association with center for renewable energy technology-AVIT during 11th – 16th May 2020.
- ♦ Attended Skycampus: Digital Knowledge Series: Season 5 on the theme **"The Future of Skills - Education, Employment & Entrepreneurship"** during 11th -15th May 2020.

#### ➤ Webinar

- ♦ Attended a Webinar on **"AI: What College are not focusing on"** on 8th May 2020.
- ♦ Attended a Webinar on **"EV MASTERCLASS: Technology and Transition"** on 10th May 2020 at Pragyatmika.
- ♦ Attended a NASSCOM Webinar on **"AI skills: what colleges are not focusing on"** on 8th May 2020.

### ❖ Dr. VIKAS SINGH BHADORIA

#### ➤ Faculty Development Programme (FDP)

- ♦ Attended a 1-week Faculty Development Program on **"Computational tools on**

**Engineering and Research: Opportunities and challenges"** online during 1st - 6th June 2020.

#### ➤ Webinar

- ♦ Attended a Webinar on **"Response of Indian power sector during COVID-19 lockdown"** online on 23rd April 2020.
- ♦ Attended a Webinar on **"Growth of renewable power energy in India: Solar PV Technology"** online on 24th April 2020.
- ♦ Attended a Webinar on **"Wacom India"** online on 9th May 2020.
- ♦ Attended a Webinar on **"Accreditation readiness through loncudos under IQAC"** online on 21st May 2020.
- ♦ Attended a Webinar on **"Virtual Education through Microsoft team"** online on 27th May 2020.

### ❖ Ms. PRAGATI SHRIVASTAVA DEB

#### ➤ Courses

- ♦ Completed 5-weeks online course on **"Electrical Power System"** offered through Coursera on 8th May 2020.
- ♦ Completed 8-weeks online course on **"Wind Energy"** offered through Coursera on 26th May 2020.

#### ➤ Faculty Development Program (FDP)

- ♦ Attended Skycampus: Digital Knowledge Series: Season 5 on the theme **"The Future of Skills - Education, Employment & Entrepreneurship"** during 11th -15th May 2020.
- ♦ Attended 5-days Online Faculty Development Program on **"Electric vehicles: New trends and Technologies"** during 22nd- 26th June 2020 organized by ABES Engineering College, Ghaziabad.
- ♦ Attended 1-week Online Faculty Development Program on **"Computational Tools on Engineering & Research: opportunities & challenges"** during 1st – 6th June 2020 organized by RR Institute of Modern technology, Lucknow.

- ♦ Attended 1-week Online Faculty Development Program on **“Role of Energy Management in Smart City”** during 15th-19th June 2020 organized by School of Engineering and Technology, Sharda University, Greater Noida, Uttar Pradesh.
  - ♦ Attended 1-week Online Faculty Development Program on **“Integration storage & control in Hybrid energy system”** during 3rd- 8th August 2020 organized by Geetanjali College of Engineering & technology, Hyderabad.
  - ♦ Attended 1-week Online National Level Faculty Development Program on **“Electric Vehicles”** during 11th-15th June 2020 organized by Vidhya Jyothi institute of institute of Technology, Hyderabad.
  - ♦ Attended 1-week Online Faculty Development Program on **“Recent trends in Electrical Engineering”** during 8th– 12th June 2020 organized by Vishnu institute of Technology, Bhimavaram
- **Webinars**
- ♦ Attended Webinar on **“AI: What College are not focusing on”** on 8th May 2020.
  - ♦ Attended Webinar on **“Use of ICT in Good governance”** on 7th June 2020 Organized by Department of Electrical Engineering & Institution's Innovation Council, Rajkiya Engineering College Banda.
  - ♦ Attended International Webinar on **“Global Impact of COVID-19 on Higher Education”** on 22nd May 2020 organized by GL Bajaj Institute of Technology & Management, Gr. Noida (UP), India.
  - ♦ Attended Webinar on **“How to write research paper for reputed index Journal”** on 6th June 2020 organized by Raj Kumar Goel institute of Technology, Ghaziabad.
  - ♦ Attended 3 days Webinar on **“Future Tech 2020”** during 18th–20th May 2020 organized by ICT Academy.
  - ♦ Attended Webinar on **“Global panel Discussion on Education 4.0: The Revolution”** on 11th May 2020 organized by Skill Faculty of Engineering & technology.
- ♦ Attended Webinar on **“Deep Learning in Medical Image Analysis- Challenges and Applications”** on 9th June 2020 organized by CENTRE FOR ADVANCED STUDIES Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow.
  - ♦ Attended Webinar on **“Future Energy Challenges in green Technology”** on 9th June 2020 organized by Gandhi Institute for education and technology, Baniatangi Bhubaneswar.
  - ♦ Attended Webinar on **“How to Write Research Papers”** on 29th May 2020 organized by ICT Academy.
- ❖ **Mr. SANTOSH CHAURASIA**
- **Courses**
- ♦ Completed 12-weeks Online course on **“Digital Electronics”** offered through NPTEL during January to May 2020.
  - ♦ Completed 4-weeks online course on **“Big data, Artificial Intelligence and Ethics”** offered through Coursera on 14th May 2020.
  - ♦ Completed 9-weeks online course on **“Introduction to Programming with MATLAB”** offered through Coursera on 7th June 2020.
  - ♦ Completed 7-weeks online course on **“Programming for Everybody (Getting Started with Python)”** offered through Coursera on 3rd July 2020.
- **Faculty Development Programme (FDP)**
- ♦ Attended 5-days Online Faculty Development Program on **“Electric vehicles: New trends and Technologies”** during 22nd- 26th June 2020.
  - ♦ Attended a 1-week Online Faculty Development Program on **“Computational tools on Engineering and Research: Opportunities and Challenges”** during 1st- 6th June 2020.

- ♦ Attended 5-days Online Faculty Development Program on **“Recent trends in Electrical Engineering”** during 8th-12th June 2020.
- ♦ Attended 5-days Online Faculty Development Program on **“Real Time Hardware-in-the-loop(HIL) Simulation for Power Electronics and Power Systems”** during 22nd-26th June 2020.
- ♦ Attended a 1-week Online Faculty Development Program on **“Emerging Technology: Research Issues and technology”** during 1st-6th June 2020.
- **Webinars**
  - ♦ Attended a Webinar on **“Implementing digital substations 101: How to get started”** online on 11th May 2020.
  - ♦ Attended a Webinar on **“First leadership Talk with Mr. Shridhar Venkat (CEO) Akashaya Patra Foundation”** online on 20th June 2020.
  - ♦ Attended a Webinar on **“Leadership Talk with Prof. D.P Singh chairman, UGC”** online on 9th May 2020.
  - ♦ Attended a Webinar on **“Leadership talk with Dr. Pramod Chaudhari, Founder, Chairman, Praj Industries Limited”** online on 16th May 2020.
  - ♦ Attended a Webinar on **“Use of ICT tool in Good Governance”** on 6th June 2020.
  - ♦ Attended a Webinar on **“Global Impact of Covid-19 on Higher Education”** on 22nd May 2020.
  - ♦ Attended a Webinar on **“Innovation, IPR, Entrepreneurship, and Start-ups among HEIs (MHRD innovation cell)”** during 28th April – 22nd May 2020.
- ❖ **Mr. GURPREET SINGH**
  - **Faculty Development Programme (FDP)**
    - ♦ Attended 5-days Online Faculty Development Program on **“Real Time Hardware-in-the-Loop (HIL) Simulation for Power Electronics & Power Systems”** during 22nd – 26th June 2020.
    - ♦ Attended 5-days Online Faculty Development Program on **“Electric Vehicles-New Trends & Technologies”** during 22nd – 26th June 2020.
- ♦ Attended 7-days Online Faculty Development Program on **“Emerging Technologies: Research Issues and Challenges”** during 10th – 16th June 2020.
- ♦ Attended 5-days Online Faculty Development Program on **“Recent Trends in Electrical engineering”** during 8th – 12th June 2020.
- ❖ **Mr. RAHUL VIRMANI**
  - **Courses**
    - ♦ Completed 4-weeks online course on **“Electric Power System”** offered through Coursera on 6th June 2020.
    - ♦ Completed 4-weeks online course on **“Introduction to Power Electronics”** offered through Coursera on 25th May 2020.
  - **Workshop**
    - ♦ Attended a workshop on **“e-content, MOOCs (Swayam), and ARPIT, AICTE”** organized at SGBT, Khalsa College, University of Delhi.
  - **Faculty Development Programme (FDP)**
    - ♦ Attended 5-days Online Faculty Development Program on **“Electric vehicles: New trends and Technologies”** during 22nd-26th June 2020.
    - ♦ Attended 7-days Online Faculty Development Program on **“Renewable Energy Sources: A Way Ahead”** during 15th-21st May 2020.
    - ♦ Attended 5-days Online Faculty Development Program on **“Tools and Techniques for Research in Engineering and Management”** during 23rd-27th June 2020.
    - ♦ Attended 6-days online Faculty Development Program on **“Research Challenges and Innovations in Renewable Energy Systems”** during 11th - 16th May 2020.
    - ♦ Attended 5-days Online Faculty Development Program on **“MATLAB for ALL”** during 4th - 8th June 2020.
  - **Webinar**
    - ♦ Attended a Webinar on **“Virtual labs: Effective tools for Teaching and Learning”** on 10th July 2020.

#### ❖ Ms. NITIKA GHOSH

##### ➤ Courses

- ♦ Completed 8-weeks online course on **“Institutional Management and Administrative Procedures”** offered through AICTE (NITTTR) during April to June 2020.
- ♦ Completed 8-weeks online course on **“Creative Problem Solving, Innovation and Meaningful R&D”** offered through AICTE (NITTTR) during April to June 2020.
- ♦ Completed 8-weeks online course on **“Technology Enabled learning & Life Long Self Learning”** offered through AICTE (NITTTR) during April to June 2020.

##### ➤ Faculty Development Programme (fdp)

- ♦ Attended a 1-week Online Faculty Development Program on **“New trends and Technologies in Electrical Engineering”** during 14th-20th July 2020.
- ♦ Attended 5 days Online Faculty Development Program on **“Real Time Hardware-in-the-loop(HIL) Simulation for Power Electronics and Power Systems”** during 22nd-26th June 2020.

##### ➤ Webinars

- ♦ Attended a Webinar on **“Leadership talk by MHRD innovation cell”** on 27th June 2020.
- ♦ Attended a Webinar on **“Current Research trends with respect to industry 4.0”** on 17th June 2020.
- ♦ Attended a Webinar on **“Intellectual Property Rights”** on 14th May 2020.
- ♦ Attended a Webinar on **“Response of Indian Power Sector during COVID-19 lockdown”** on 23rd April 2020.
- ♦ Completed a Quiz on **“Electrical Engineering”** on 1st July 2020.

#### ❖ Dr. AMIT AGRAWAL

##### ➤ Courses

- ♦ Completed 8-weeks online course on **“Linear Circuits 1: DC Analysis”** offered through Coursera on 11th May 2020.
- ♦ Completed 8-weeks online course on **“Linear**

**Circuits 2: DC Analysis”** offered through Coursera on 18th May 2020.

##### ➤ Webinars

- ♦ Attended a Webinar on **“Education 4.0”** on 16th May 2020.
- ♦ Attended a Webinar on **“Industry 4.0”** on 17th May 2020.
- ♦ Attended a Webinar on **“Fly High: Innovations & Startups”** on 18th May 2020.
- ♦ Attended a Webinar on **“The Power of Collaboration: Research, Technology and Business”** on 19th May 2020.
- ♦ Attended a Webinar on **“MEMS design Challenges and Opportunities”** on 3rd July 2020.

#### ❖ Ms. ISHA RAJPUT

##### ➤ Courses

- ♦ Completed 4-weeks online course on **“Electric Power System”** authorized by University at Buffalo and the State university of New York and offered through Coursera on 8th May 2020.
- ♦ Completed 4-weeks online course on **“Wind Energy”** authorized by Technical University of Denmark(DTU) and offered through Coursera on 21st May 2020.

##### ➤ Faculty Development Programme (FDP)

- ♦ Attended a 1-week Faculty Development Program on **“Power System Operations and Its Control”** organized at Ajay Kumar Garg Engineering college, Ghaziabad during 13th Jan -17th Jan 2020.
- ♦ One Week Online Faculty Development Program on **“Computational Tools on Engineering & Research”** during 1st - 6th June, 2020.
- ♦ Attended Online Faculty Development program on **“Recent Trends in Electrical Engineering”** organized by EEE department and financially sponsored by VIT, Bhimavaram during 8th - 12th June 2020.

- ♦ Attended a Online Faculty Development program on **“Role of Energy Management in Smart City”** organized by the department of Electronics Engineering and Mechanical Engineering, School of Engineering and Technology, Sharda University, Greater Noida during 15th - 19th June 2020.
- ♦ Attended 5-days Online Faculty Development Program on **“Electric vehicles: New trends and Technologies”** during 22nd-26th June 2020.
- ♦ Attended 5 days online Faculty Development Program on **“Real Time Hardware-in-the-loop(HIL) Simulation for Power Electronics and Power Systems”** during 22nd-26th June 2020.
- **1-4 Day Program**
  - ♦ Attended Skycampus: Digital Knowledge Series: Season 5 on the theme **"The Future of Skills - Education, Employment & Entrepreneurship"** during 11th -15th May 2020.
  - ♦ Attended Skycampus Digital Knowledge Series 2020 - Season 6 on the theme **"Future Tech 2020"** Day 1 - 5G as an Enabler In Digital Transformation, Day 2 - Global Mega Trends, Technologies & Covid-19 Impacting Sectors, Day 3 - Building Skills in Robotic Process Automation during 18th - 20th May 2020.
- **Webinars**
  - ♦ Attended a Webinar on **"Global Panel Discussion on Education 4.0: The Revolution"** to celebrate National Technology Day on 11th May, 2020 organized by Skill Faculty of Engineering and Technology, Shri Vishwakarma Skill University, Palwal, Haryana.
  - ♦ Attended an International Webinar **“Global Impact of COVID-19 on Higher Education”** held on 22nd May 2020 organized by Department of Electrical & Electronics Engineering GL Bajaj Institute of Technology & Management, Gr. Noida (UP)
  - ♦ Attended a NASSCOM Webinar on **"AI skills: what colleges are not focusing on"** on 8th May 2020.
  - ♦ Attended a webinar on **"Future Energy Challenges in Green Technology"** organized by the department of EE & EEE, Gandhi Institute for Education & Technology, Baniatangi, Khurda, Odisha in association with IETE Student Chapter on 9th June, 2020.
  - ♦ Attended a webinar on **"Empowering Teachers for Tobacco Control"** organized by NSS Club of ABES Engineering College in association with ICanCaRe on 14th June 2020.
  - ♦ Attended a webinar on **"Sensitizing Youth against Tobacco: Impact, Effect and Prevention"** organized by NSS Club of ABES Engineering College in association with ICanCaRe on 7th June 2020.
  - ♦ Attended a webinar on **"How to write research paper for reputed indexed journals"** organized by Department of Management, RKGIT Ghaziabad on 6th June 2020.
  - ♦ Attended a Webinar on **"Research Opportunities in Power Electronics"** organized by Electrical Engineering Department of S.G.S.I.T.S., Indore on 10th June 2020.
  - ♦ Participated in the Faculty Symposium on **“Performance of the Photovoltaic-Thermoelectric Collector”** Organized by Department of Electrical and Electronics Engineering, ITS Engineering College-Greater Noida, on 2nd June 2020.
  - ♦ Attended a webinar on **"Assessment of Electric Vehicle By Big Data Analysis"** organized by Electrical Engineering Department of S.G.S.I.T.S., Indore on 9th June 2020.
  - ♦ Attended a Webinar on **"Recent Advancement in Power system Protection"** organized by Electrical Engineering Department of Raj Kumar Goel Institute of technology on 1st July 2020.
  - ♦ Attended a Webinar on **"MEMS Design Challenges and opportunities"** organized by

- ♦ Flex MEMS Research center (FMRC) of department of Electronics and Communication Engineering, Manipal University Jaipur on 3rd July 2020.

#### ❖ Mr. VIVEK KUMAR VERMA

##### ➤ Courses

- ♦ Completed 8-weeks online course on **“Programming for Everybody”** offered through Coursera on 24th April 2020.
- ♦ Completed 8-weeks online course on **“Python Data Structure”** offered through Coursera on 28th April 2020.

##### ➤ Faculty Development Program (FDP)

- ♦ Attended a 1-week online Faculty Development Program on **“Computational tools on Engineering and Research: Opportunities and challenges”** during 1st - 6th June 2020.
- ♦ Attended 5-days online Faculty Development Program on **“Electric vehicles: New trends and Technologies”** during 22nd-26th June 2020.
- ♦ Attended 5-days online Faculty Development Program on **“Deep Learning”** during 9th - 13th June 2020.

##### ➤ Webinars

- ♦ Attended a Webinar on **“Project proposal Writing”** on 6th May 2020.
- ♦ Attended a Webinar on **“Technical Solutions to build technology infrastructure for applications in smart agricultural models”** on 14th May 2020.
- ♦ Attended a Webinar on **“How to write for & get published in scientific Journals”** on 19th May 2020.
- ♦ Attended a Webinar on **“Modelling and Cloud Computing Systems by Infinite Petrinets”** on 22nd May 2020.

#### ❖ Ms. NIHARIKA VARSHNEY

##### ➤ Courses

- ♦ Completed 5-weeks online course on **“Electrical Power System”** by University of Buffalo & The state University of New York offered through Coursera during May 2020.

- ♦ Completed 8-weeks online course on **“Wind Energy”** by Technical University of Denmark (DTU) offered through Coursera during May-June 2020.

- ♦ Completed 7-weeks online course on **“Introduction to battery Management System”** by University of Colorado System offered through Coursera during May - June 2020.

##### ➤ Short Term Course

- ♦ Completed 1-week online course on **“Microgrid Opportunity: Renewable energy Resources and Buildings”** during 16th – 20th June 2020.

##### ➤ Faculty Development Program (FDP)

- ♦ Attended 5-days Online Faculty Development Program on **“Electric vehicles: New trends and Technologies”** during 22nd-26th June 2020 organized by ABES Engineering College, Ghaziabad.
- ♦ Attended 1-week Online Faculty Development Program on **“Computational Tools on Engineering & Research: Opportunities & challenges”** during 1st – 6th June 2020 organized by RR Institute of Modern technology, Lucknow.
- ♦ Attended 1-week Online National Level Faculty Development Program on **“Electric Vehicles”** during 11th -15th June 2020 organized by Vidhya Jyothi institute of institute of Technology, Hyderabad.
- ♦ Attended a 1-week Faculty Development Program on **“Power System Operations and Its Control”** organized at Ajay Kumar Garg Engineering college, Ghaziabad during 13th - 17th Jan 2020.
- ♦ Attended 5 days Online Faculty Development Program on **“Real Time Hardware-in-the-loop (HIL) Simulation for Power Electronics and Power Systems”** during 22nd-26th June 2020.
- ♦ Attended 1-week online Faculty Development Program on **“Recent trends in Electrical Engineering”** during 8th – 12th June 2020 organized by Vishnu institute of Technology, Bhimavaram

- ♦ Attended 1-week International online Faculty Development program on **“LabVIEW & Real-time Data Acquisition”** during 3rd-7th August 2020.

#### ➤ **WEBINARS**

- ♦ Attended Webinar on **“How to write research paper for reputed index Journal”** on 6th June 2020 organized by Raj Kumar Goel institute of Technology, Ghaziabad.
- ♦ Attended Webinar on **“Virtual lab Training”** on 28th April 2020 organized by Dr. APJ Abdul Kalam Technical University, Lucknow.
- ♦ Attended Webinar on **“Virtual lab Training 2”** on 6th May 2020 organized by Dr. APJ Abdul Kalam Technical University, Lucknow.
- ♦ Attended a Webinar on **“Online Teaching with Wacom”** online on 9th May 2020.
- ♦ Attended a Webinar on **“Global panel Discussion on Education 4.0: The Revolution”** on 11th May 2020 organized by Skill Faculty of Engineering & technology, Shri Vishwakarma Skill University, Palwal, Haryana.
- ♦ Attended a Webinar on **“The digital grid 101: How to get started”** on 11th May 2020 organized by ABB.
- ♦ Attended a Webinar on **“Principal Component Analysis”** on 11th May 2020.
- ♦ Attended online Webinar on **“Learning How to Learn – Master Class”** on 14th May 2020 by Dr. Barbara Ockley organized by Indian Didactics Association.
- ♦ Attended a Webinar on **“Distribution Grid Management 101: What's next”** on 17th May 2020 organized by ABB.
- ♦ Attended a Webinar on **“The digital grid 101: How to get started ”** on 11th May 2020 organized by ABB.
- ♦ Attended a Webinar on **“Remote teaching through Microsoft teams”** on 27th May 2020 organized by ABB.
- ♦ Attended a Webinar on **“Stress management and EI”** on 3rd June 2020 organized by IT Department, ABES Engineering College.
- ♦ Attended a Webinar on **“Future Energy Challenges in green Technology”** on 9th June 2020 organized by Gandhi Institute of Engineering and Technology, Bhubaneswar.
- ♦ Attended a Webinar on **“Transforming Engineering Education: Emerging Scenario”** on 16th June 2020 organized by IET Centenary.
- ♦ Attended a Webinar on **“Role of Solar Energy in India's Energy Security”** on 18th June 2020 organized by Electrical and Electronics Department, ABES Engineering College.
- ♦ Attended a Webinar on **“ICT Academy Skycampus Super Session on Future of Education”** on 22nd June 2020 hosted by ICT Academy, Dr. B Anbuthambi (Moderator), Prof D.P Singh.
- ♦ Attended a Webinar on **“Outcome based Education and Accreditation post Covid”** on 1st July 2020.
- ♦ Attended a Webinar on **“IEEE- ABET Webinar on Accreditation and Quality of Engineering Education in South Asia”** on 8th July 2020.
- ♦ Attended a Webinar on **“Entrepreneurship opportunities”** on 25th May 2020.
- ♦ Attended a International Webinar on **“Global Impact of COVID-19 on Education & Environment”** on 22nd May 2020.
- ♦ Attended a Webinar on **“Opportunities for Startups”** on 10th July 2020.
- ♦ Attended a Webinar on **“Smart Energy Solutions to Boost Power Sector economy during pandemic”** on 6th June 2020.
- ♦ Attended a Webinar on **“Electric Vehicles: New trends and Technologies”** on 14th June 2020.
- ♦ Completed a Quiz on **“Effect of COVID-19 on Education & Environment”** on 22nd May 2020.

❖ **Mr. ANKIT TAYAL**

➤ **Short Term Course**

- ♦ Completed 1-week online course on **“Microgrid Opportunity: Renewable energy Resources and Buildings”** during 16th – 20th June 2020.

➤ **Faculty Development Program (FDP)**

- ♦ Attended 5 days online Faculty Development Program on **“Real Time Hardware-in-the-loop(HIL) Simulation for Power Electronics and Power Systems”** during 22nd-26th June 2020.
- ♦ Attended 5-days online Faculty Development Program on **“Electric vehicles: New trends and Technologies”** during 22nd-26th June 2020.
- ♦ Attended 1-week International Online Faculty Development program on **“LabVIEW & Real-time Data Acquisition”** during 3rd-7th August 2020.
- ♦ Attended 1-week Online Faculty Development Program on **“Recent trends in Electrical Engineering”** organized by Vishnu institute of Technology, Bhimavaram during 8th – 12th June 2020.
- ♦ Attended 1-week Online National Level Faculty Development Program on **“Electric Vehicles”** organized by VidhyaJyothi institute of institute of Technology, Hyderabad during 11th- 15th June 2020.

➤ **Webinars**

- ♦ Attended a Webinar on **“Opportunities for Startups”** on 10th July 2020.
- ♦ Attended Webinar on **“Smart Energy Solutions to Boost Power Sector economy during pandemic”** on 6th June 2020.
- ♦ Attended a Webinar on **“Electric Vehicles: New trends and Technologies”** on 14th June 2020.
- ♦ Attended an International Webinar on **“Global Impact of COVID-19 on Education & Environment”** on 22nd May 2020.
- ♦ Attended a Webinar on **“Entrepreneurship Opportunities”** on 25th May 2020.
- ♦ Attended a Webinar on **“IEEE- ABET Webinar on Accreditation and Quality of Engineering**

**Education in South Asia”** on 8th July 2020.

- ♦ Attended a Webinar on **“Outcome based Education and Accreditation post Covid”** on 1st July 2020.
- ♦ Completed an Quiz on **“Effect of COVID-19 on Education & Environment”** on 22nd May 2020.

❖ **Ms. GEETIKA ASWANI**

➤ **Courses**

- ♦ Completed 5-weeks online course on **“Big Data Artificial Intelligence and Ethics”** offered through Coursera on 14th May 2020.
- ♦ Completed 9-weeks online course on **“Introduction to MATLAB Programming”** offered through Coursera 7th June 2020.
- ♦ Completed 7-weeks online course on **“Programming for Everybody (Getting started with Python)”** offered through Coursera on 4th July 2020.

➤ **Workshop**

- ♦ Attended a 1-day Workshop on **“Arduino”** organized by JayPee Institute of information technology, Noida on 8th February 2020.

➤ **Faculty Development Programme (FDP)**

- ♦ Attended 5-days online Faculty Development Program on **“Computational tools in Engineering & Research”** during 1st – 6th June 2020.
- ♦ Attended 5-days online Faculty Development Program on **“Recent Trends in Electrical Engineering”** during 8th – 12th June 2020.
- ♦ Attended 5-days online Faculty Development Program on **“Emerging Technology: Research Issues and Challenges”** during 10th – 16th June 2020.
- ♦ Attended 5-days Faculty Development Program on **“Electric Vehicles-New Trends & Technologies”** online during 22nd – 26th June 2020.

➤ **Webinars**

- ♦ Attended a Webinar on **“Growth of renewable energy in India : Solar PV”** on 24th April 2020.
- ♦ Attended a Webinar on **“Wacom India held on 9th May 2020”** on 9th May 2020.
- ♦ Attended a Webinar on **“Accreditation Readiness through Iocudos under IQAC”** on 21st May 2020.
- ♦ Attended a Webinar on **“Virtual Education through Microsoft Team”** on 27th May 2020.
- ♦ Attended a Webinar on **“Use of ICT in good governance”** on 7th June 2020.
- ♦ Attended a Webinar on **“Assessment of E vehicle by Big Data Analysis”** on 9th June 2020.
- ♦ Attended a Webinar on **“Future Energy challenges in Green Technology”** on 9th June 2020.
- ♦ Attended a Webinar on **“Energy Efficiency in Smart Building through integration IOT Sensors”** on 20th June 2020.

❖ **Mr. SHUBHAM TIWARI**

➤ **Course**

- ♦ Completed 5-weeks online course on **“Introduction to Battery Management Systems (Honors)”** offered through Coursera on 26th May 2020.

➤ **Faculty Development Programme (FDP)**

- ♦ Attended 5-days Faculty Development Program on **“Power System Operations and its control”** organized at AKGEC, Ghaziabad during 13th – 17th January 2020.
- ♦ Attended 5-days online Faculty Development Program on **“Real Time Hardware-in-the-loop(HIL) Simulation for Power Electronics and Power Systems”** during 22nd-26th June 2020.
- ♦ Attended 5-days online Faculty Development Program on **“Electric vehicles: New trends and Technologies”** during 22nd- 26th June 2020.
- ♦ Attended 5-days online Faculty Development Program on **“Recent trends in Electrical Engineering”** during 8th-12th June 2020.

- ♦ Attended a 1-week online Faculty Development Program on **“Machine Learning and Data Science Application”** during 5th-10th June 2020.
- ♦ Attended 5-days online Faculty Development Program on **“Electric vehicles”** during 11th - 15th June 2020.

➤ **Workshop**

- ♦ Attended a 1-day workshop on **“e-content, MOOCs(Swayam), and ARPIT, AICTE”** organized at SGBT, Khalsa College, University of Delhi.

➤ **Webinars**

- ♦ Attended a Webinar on **“Implementing digital substations 101: How to get started”** on 13th May 2020.
- ♦ Attended a Webinar on **“Distribution Grid Management 101: What's next”** on 11th May 2020.
- ♦ Attended a Webinar on **“Atmanirbhar Bharat”** organized by AKTU.

❖ **Mr. ABHISHEK KUMAR GUPTA**

➤ **Courses**

- ♦ Completed 4-weeks online course on **“Natural Gas”** offered through Coursera on 26th May 2020.
- ♦ Completed 4-weeks online course on **“Introduction to power electronics”** offered through Coursera on 12th June 2020.
- ♦ Completed 4-weeks online course on **“Energy: The Enterprise”** offered through Coursera on 31st May 2020.
- ♦ Completed 4-weeks online course on **“Safety in the Utility Industry”** offered through Coursera on 30th May 2020.
- ♦ Completed 4-weeks online course on **“Electric Power System”** offered through Coursera on 20th May 2020.

➤ **Faculty Development Programme (FDP)**

- ♦ Attended a 1-week online Faculty Development Program on **“Power Quality and Reactive Power Management”** during 6th – 10th July 2020.

- Attended 5-days online Faculty Development Program on **“Real Time Hardware-in-the-loop(HIL) Simulation for Power Electronics and Power Systems”** during 22nd-26th June 2020.
  - ♦ Attended 5-days online Faculty Development Program on **“Electric vehicles: New trends and Technologies”** during 22nd- 26th June 2020.
  - ♦ Attended 5-days online Faculty Development Program on **“Opportunities and challenges in Next-Generation Semiconductor Devices”** during 16th-20th June 2020.
  - ♦ Attended 5-days online Faculty Development Program on **“Role of Energy Management in Smart City”** during 15th-19th June 2020.
  - ♦ Attended a 1-week online Faculty Development Program on **“Perspective of Online Teaching and Learning”** during 8th-13th June 2020.
  - ♦ Attended 5-days online Faculty Development Program on **“Recent trends in Electrical Engineering”** during 8th-12th June 2020.
  - ♦ Attended a 1-week online Faculty Development Program on **“Machine Learning and Data Science Application”** during 5th-10th June 2020.
  - ♦ Attended a 1-week online Faculty Development Program on **“Computational tools on Engineering and Research: Opportunities and Challenges”** during 1st-6th June 2020.
- **Workshop**
  - ♦ Attended 2-days workshop on **“Block Chain Technology”** online during 12th-13th June 2020.
- **Webinars**
  - ♦ Attended a Webinar on **“Academic Publishing & Enhancing research Effectiveness”** on 9th June 2020.
  - ♦ Attended a Webinar on **“Utility of the future: The impact of renewables, DERs and prosumers”** on 26th May 2020.
  - ♦ Attended a Webinar on **“Taking the wind out of the next SuperStorm”** on 26th May 2020.
  - ♦ Attended a Webinar on **“Cyber and Physical Security: What's new with NERC CIP and**

**solutions supporting your compliance”** on 26th May 2020.

- ♦ Attended a Webinar on **“Modelling Approach of PV Systems and Applications”** on 25th May 2020.
- ♦ Attended a Webinar on **“Implementing digital substations 101: How to get started”** online on 13th May 2020.
- ♦ Attended a Webinar on **“Distribution Grid Management 101: What's next”** on 11th May 2020.
- ♦ Attended a Webinar on **“Introduction to MATLAB and hands on practice”** on 11th July 2020.
- ♦ Attended a Webinar on **“Role of solar Energy in clean Global Environment”** on 5th June 2020.

#### ❖ **Mr. GULSHAN DUBEY**

#### ➤ **Faculty Development Programme (FDP)**

- ♦ Attended a 1-week online Faculty Development Program on **“Applied IoT with Node MCU”** during 21th–25th July 2020.
- ♦ Attended a 9-days online Faculty Development Program on **“Machine Learning& Data Science using Python”** during 9th–14th May 2020.

#### **Achievement**

All faculties of the department got the Certificate of Appreciation for developing e-lectures and sharing with students through University portal in the month of March 2020.

## Webinars Organized

1. Department of Electrical & Electronics Engineering (EN) at ABES Engineering College organized a Webinar on **“Role of solar energy in India's Energy Security”** for the students & Faculty at google meet platform on 18th June, 2020. The speaker for the webinar was **Mr. Ashutosh Sharma, CEO at Voltrans Energy Sahibabad**. Ashutosh Sharma is a visionary Leader and an Entrepreneur.

In his session, Mr. Ashutosh Sharma discussed about the opportunities and challenges in solar energy scenario in India. He also explained about the importance of solar energy in providing energy security. Further he mentioned about economics of grid connected system in which net cost of system was calculated after considering the subsidy as per SECI. Speaker has covered the practical and financial aspects of solar power plant during his talk. Lastly he discussed in detail with the participants about the solution to improve solar market in India.

His lecture was very interesting and the content presented was very useful which provided information of upcoming career opportunities in the field of solar power. At the end, He answered all the queries raised by the students and faculty and motivated all the participants to further work in renewable energy sector.

Ms. Geetika Aswani coordinated the overall program under the guidance of Prof. (Dr.) Hemant Ahuja, HoD- EN.

2. Department of Electrical & Electronics Engineering (EN) at ABES Engineering College organized a webinar on **“Emerging trends in Robotics”** for the students & Faculty at google meet platform on 19th June, 2020. The speaker for the lecture was **Mr. Shubham Sharma, Manager Sales at ABB India Limited**.

In the session, Mr. Shubham Sharma discussed about the scenario Robot Training in which AI is making robots easier to train, which in turn makes them a more viable investment for smaller companies as it reduces the cost of installation, training and ongoing programming. Robots like Baxter and Sawyer from Rethink Robotics can be trained by simply guiding their arms a few times – it learns through demonstration and programs the correct motion itself. The easier it is to teach a robot new thing, the more it can learn. He also explained the 3D Vision as in even the simplest tasks a robot performs will depend on 3D machine vision to feed data into AI technology. Grasping an object, for example, without pre-determined locations and motions would be impossible without machine vision capable of reconstructing a 3D image, and AI to translate this visual information into a successful action on the part of the robot. He also laid

emphasis on Cloud Robotics where the deep learning using image classification and speech recognition often relies on huge datasets with millions of examples. AI requires more data than can realistically reside on most local systems. In this way, advances in cloud robotics are necessary for the advancement of AI and robotics technology. Cloud robotics allows intelligence to be shared across all robots in a connected environment.

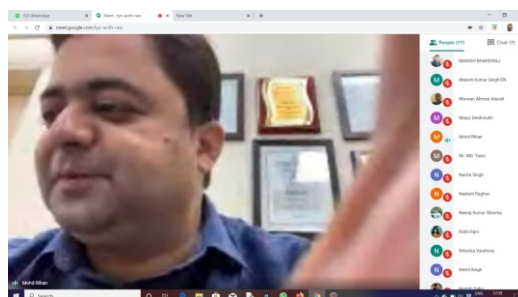
At the end, he addressed all the inquiries of the understudies and resources and propelled all the understudies

Ms. Nitika Ghash composed the overall program under the direction of Prof. (Dr.) Hemant Ahuja, HoD- EN.

3. Department of Electrical & Electronics Engineering (EN) at ABES Engineering College organized a webinar on **“Climate Conservation and Integration of Green Sources of Electricity with the GRID”** under its initiative Industry-Alumni Academia Alliance (IAAA-2020): Webinar Series-1. The webinar was delivered at the National level, by **Dr. Mohammad Rihan, Associate Professor, Aligarh Muslim University, Aligarh**, for students and faculty on 20th June 2020.

Dr. Rihan, in his talk, addressed the increasing electricity requirement as a primary source of energy and the use of Green Sources of Electricity to meet this requirement satisfying the National Sustainability Developments Goals. The research challenges arising out of the changing nature of power grid were also elaborated and the use of new technologies like Artificial Intelligence, Machine Learning, and Blockchain etc, in addressing those challenges. His lecture was very interesting and enthusiastic and also provided the information of upcoming career opportunities in the field of solar power. At the end, he answered all the queries of the students and faculties and motivated all the participants to further work on solar energy generation and installation. The webinar was conducted through Google Meet.

Ms. Niharika Varshney coordinated the overall program under the guidance of Prof. (Dr.) Hemant Ahuja, HoD EN.

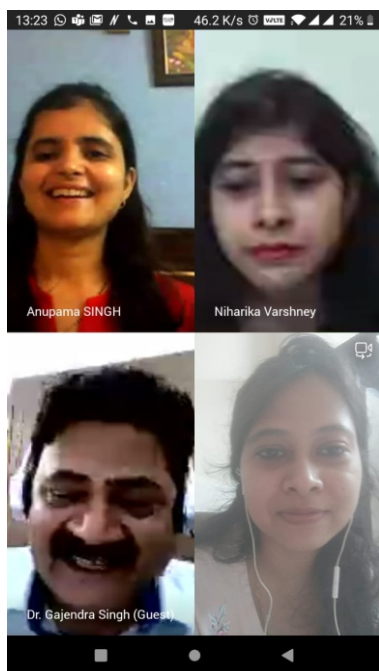


Click during the Webinar by Dr. Mohammad Rihan  
Associate Professor, Aligarh Muslim University

4. Department of Electrical & Electronics Engineering (EN) at ABES Engineering College organized a webinar on **"Industrial Application: LV Switchgear and Protection"** under its initiative Industry-Alumni Academia Alliance (IAAA-2020): Webinar Series-1. The webinar was delivered at the National level, by **Ms. Anupama Singh**, Assistant Manager: Technical Support, Legrand India Pvt. Ltd, for students and faculty on 22th June 2020.

In the webinar Ms. Anupama Singh discussed about the switch gear and some of the protection devices used in our country. She explained the working of a miniature circuit breaker (MCB) and taught some of the basic terminologies of MCB. Thereafter she discussed about some other protecting devices such as MCCBs, RCCBs, ACBs, etc. she also discussed about the advantages and disadvantages of circuit breakers. After discussing about the working and uses of protecting devices, she explained the aesthetics of the devices and also showed us various designs. Then she elucidated the index of protection of devices. She also discussed about the range of protective devices that are offered to us by Legrand India. Toward the finish of the session she responded all the questions of the students and the faculties making the session very interactive. The webinar was conducted through Microsoft Teams.

Ms. Niharika Varshney Co-ordinated the online overall webinar under the direction of Dr. Hemant Ahuja, Head of Department, EN.



Click during the Webinar by  
**Ms. Anupama Singh Assistant Manager,  
Technical Support, Legrand India Pvt. Ltd**

5. The Department of Electrical & Electronics Engineering at ABES Engineering College successfully organized an online webinar on **"Energy Audit and Energy Conservation"** under its initiative "Industry-Alumni Academia Alliance (IAAA-2020): Webinar Series-1". The webinar delivered at the National level, by **Dr. Naqui Anwer, Associate Professor, TERI School of Advanced Studies, New Delhi**, for students and faculty on 23rd June 2020.

In the webinar Dr. Naqui Anwer focused on the need of energy audit, energy conservation and energy efficiency. He explained the complete systematic process of carrying out energy audit, Preparing energy audit report and Identifying feasible energy conservation measures in prominent equipments. The webinar was conducted through Google Meet.

Ms. Isha Rajput coordinated the overall program under the guidance of Prof. (Dr.) Hemant Ahuja, HoD- EN.

6. The Department of Electrical & Electronics Engineering organized a Webinar on **"Coordination and Control of Multi-Agent Systems: Perspectives on Theory, Applications and Future Trends"** under its initiative "Industry-Alumni Academia Alliance (IAAA-2020): Webinar Series-1". The webinar was delivered at the National level, by **Dr. Anoop Jain, Assistant Professor, Electrical Engineering Department, IIT Jodhpur** for students and faculty on 24th June 2020.

The objectives of the webinar were:

- To understand multiagent system in robotics & various field
- To understand the control strategies of these system
- To understand the mathematical approach to control these system

Mr. Abhishek Gupta Co-ordinated the overall webinar under the heading of Dr. Hemant Ahuja, Head of Department, EN.

7. Department of Electrical & Electronics Engineering organized a Webinar on **"Industrial Automation-An Expert Talk"** under its initiative "Industry-Alumni Academia Alliance (IAAA-2020): Webinar Series-1". The webinar was delivered at the National level, by **Mr. Vikas Rohilla, Product Manager (VFD & SOFT STARTER), Sonepar India Pvt.** for students and faculty on 25th June 2020.

The objectives of the webinar were:

- Automation Introduction and its advantages
- PLC working & Programming Language Details
- HMI working & Designing Details
- VFD working & Features Details
- Servo working & Features Details

Mr. Vivek Verma arranged the online webinar under the direction of Dr. Hemant Ahuja, Head of Department, EN. The webinar was conducted through Google Meet.

8. The Department of Electrical & Electronics Engineering organized a Webinar on **“Application of RADAR in Aviation”** under its initiative “Industry-Alumni Academia Alliance (IAAA-2020): Webinar Series-1”. The webinar delivered at the National level, by **Mr. H N Chaudhary Assistant General Manager (CNS) Airport Authority of India, RCDU, Safdarjung Airport New Delhi,**

The objectives of the webinar were:

- Navigation through Primary RADAR
- Navigation through Secondary RADAR
- Instrument Landing System (ILS)
- Microwave Landing System

Mr. Santosh Chaurasia organized the online webinar under the advice of Dr. Hemant Ahuja, Head of Department, EN. The webinar was conducted through Google Meet.

9. Department of Electrical & Electronics Engineering (EN) at ABES Engineering College organized a webinar on **“Renewable Energy: Recent Trends & Sustainable Development”** under its initiative Industry-Alumni Academia Alliance (IAAA-2020): Webinar Series-1. The webinar was delivered at the National level, by **Dr. Preeti, Skill Assistant Professor in Electrical Engineering at Shri Vishwakarma Skill University** on 30th June 2020.

In the session, Dr. Preeti discussed about the latest trends in renewable energy. Dr. Preeti addressed the prospects and challenges of renewable energy sources for sustainable development, especially when the era of smart city and IoT technology is starting. IoT has security challenges with respect to privacy of data. Then she talked about the techniques and challenges for Grid integration with solar & wind energy. With IoT, every device demands electrical energy. So, the future prospects of meeting the electricity demands by smart city and electric vehicle charging station were also discussed. In order to meet such electricity demands, the technological challenges for installing the electric vehicle charging station and integration of smart city were discussed with case studies. The research areas in the field of renewable energy were discussed towards the end of webinar.

At the end, she answered all the queries of the students and faculties and motivated all the students to further work on the design and engineering of industrial automation and robotics.

Ms. Shilpa Sambhi coordinated the overall program under the guidance of Prof. (Dr.) Hemant Ahuja, HoD- EN.

10. Department of Electrical & Electronics Engineering (EN) at ABES Engineering College organized a webinar on **“Data Analytics and Monitoring using Big Data”** under its initiative Industry-Alumni Academia Alliance (IAAA-2020): Webinar Series-1. The webinar was delivered at the National level, by **Mr. Prateek Garg, Team Lead in Ameriprise Financial** for students and faculty on 29th June 2020.

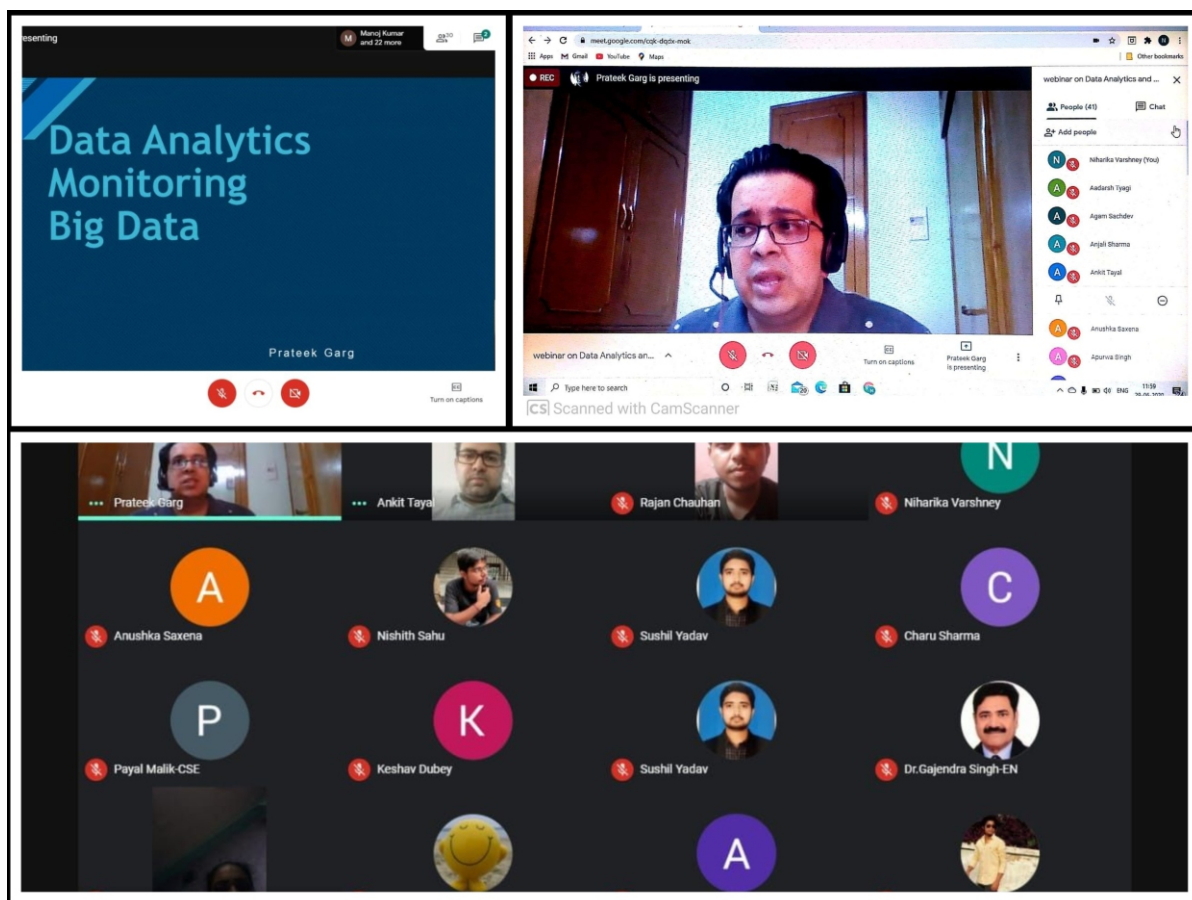
Mr. Prateek Garg is an alumnus of EN Department. He is having an rich 11 years of experience in IT industry. He has passout in 2009 from AI branch.

The objectives of the seminar were to help students build an important connection between their learning and real world, and to enhance student's educational experience by providing different perspective through an expert who have been in the industry/Academia/research organization from so long.

Mr. Prateek Garg started the session by discussing the uses of analytics. Then he explained the difference between data analytics and data analysis. After discussing about Big Data, he then informed us about Hadoop, an open source platform for distributed storage and distributed processing of very large data sets on computed clusters built from commodity hardware. In this seminar we also learnt about the use of python and R programming in data analytics. Thereafter he elucidated the applications of data analytics in finance and HR. In the end Mr.Prateek Garg discussed the challenges of cyber security of using cloud computing for financial institutions.

At the end of the session he answered all the questions of the students and the faculties making the session very interactive.

Ms. Niharika Varshney and Mr. Ankit Tayal coordinated the overall webinar under the guidance of Dr. Hemant Ahuja, Head of Department, EN.



Clicks during webinar by Mr. Prateek Garg,  
Team Lead in Ameriprise Financial

## FACULTY DEVELOPMENT PROGRAMME

Department of Electrical & Electronics Engineering has organized a one-week online Faculty Development Program on “Electric Vehicles: New trends & Technologies” during 22nd June - 26th June 2020. Prof. Hemant Ahuja (HoD-EN) inaugurated the event for which 546 participants have registered from across the country.

On the first day of event, **Dr. Arun Kumar Verma, Asst. Professor, MNIT Jaipur** provided insight on introduction, challenges and overview of Indian scenario towards electric vehicles. He also discussed about different type of batteries for EV, electric vehicle charging (Vehicle to grid and grid to vehicle) and hardware prototype with experimental results. On second day, **Prof. C. Bharatiraja from SRMIST, Chennai** conversed on wireless charging concept with its types, electromagnetics, coil design, alternative solution to PWT, compensation technologies and safety measures. On third day **Prof. Ashish Shrivastava from Manipal University Jaipur** shared his knowledge on vision India-2030 for electric vehicles. He gave idea on oil import if all fossil fueled vehicles are converted into electric vehicles by year 2030. He discussed on motor technology, challenges, reason for slow growth of EVs. He compared efficiency of IC engine vehicle and electric vehicle too in detail. On fourth day **Prof. Sanjeev Singh from MANIT Bhopal** discussed about induction motors used in EVs and their controlling techniques. On the last day of FDP **Dr. Bedatri Maulik, Asst. professor, Amity University Noida** gave a deep understanding between conventional and electric vehicles. She discussed about advanced driver assistance systems for safe and efficient driving with Electric Vehicles in detail.

Participants registered for this FDP from many states of the country from north to south. After all the sessions of FDP, E-Certificates were issued to the participants. The whole purpose of this FDP was to spread the awareness about electric vehicles and help the environment. The FDP was attended by the faculty members, research scholars and the industry persons from all over the nation. The event was well coordinated by Dr. Vikas Singh Bhadoria & Dr. Amit Agrawal.

All the sessions were conducted through google-meet and broadcast on youtube channel was also done. Links for all videos were given below:

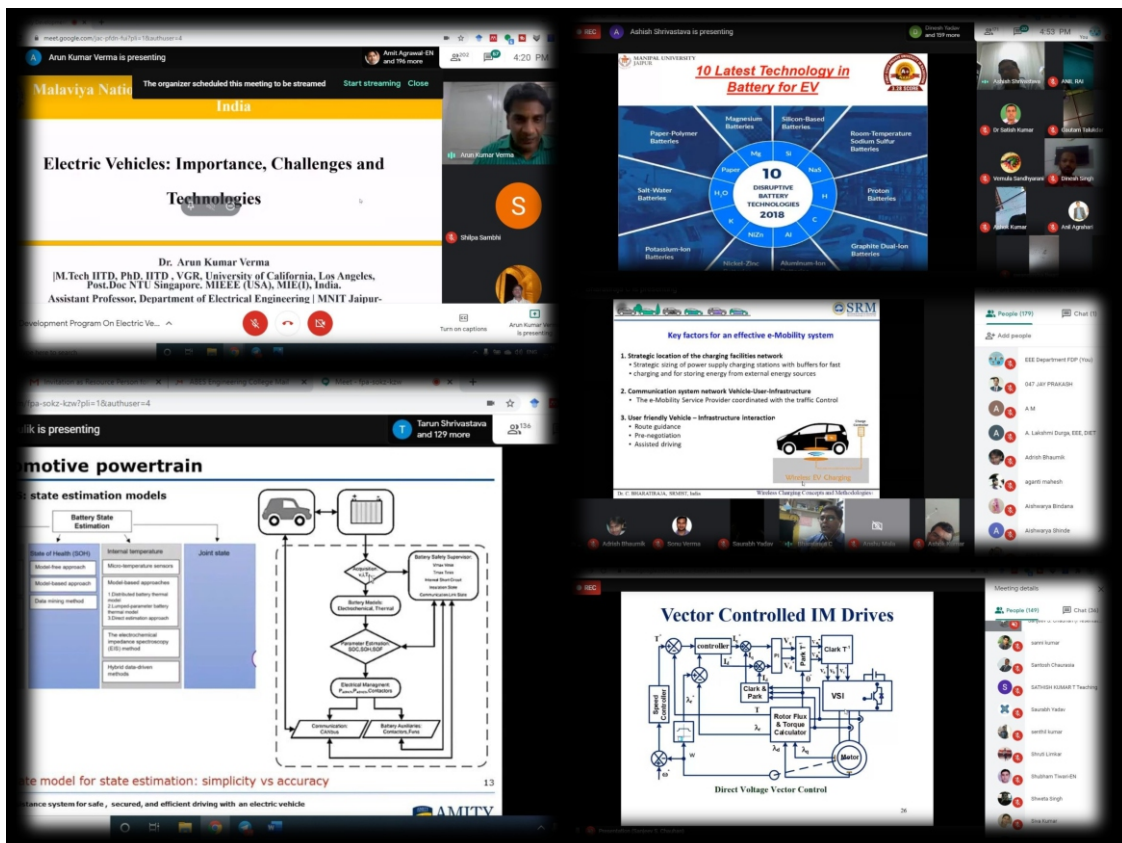
Day-1 : <https://youtu.be/UTXZkHGNNHM>

Day-2 : <https://youtu.be/1LWUqgyMp24>

Day-3 : <https://youtu.be/mYn511I2Bo>

Day-4 : <https://youtu.be/4OuLh8F9JfI>

Day-5 : <https://youtu.be/cuvDEcmMK1k>



Clicks during online FDP

## STUDENT PARTICIPATION

- **Anjali Yadav (3rd Year), Sarthak Bansal (3rd Year), Deepak Singh Tomar (3rd Year), Aashish Chaudhary (3rd Year), Varun Kumar Raghav (3rd year), Sweccha Pandey (3rd Year), Arsh Kumar (3rd year)**
  - ◆ Completed 7-weeks online course on “Python for everybody” offered through courser on 15th May 2020.
- **Sarthak Bansal (3rd Year)**
  - ◆ Completed 6-weeks online course on “Solar energy basic” offered through coursera on 16th May 2020.
  - ◆ Completed 6-weeks online course on “Intro to solar energy” offered through coursera on 3rd June 2020
  - ◆ Participated in “IIC Online Session conducted by Institution's Innovation council(IIC)” of MHRD innovation cell New Delhi from 28th April 2020 to 22nd May 2020.
  - ◆ Completed 5-weeks online course on “Arduino” offered through coursera on 3rd June 2020.
- **Utkarsh Sharma (3rd Year)**
  - ◆ Participated and secured 2nd position in Duet Dance in “Aktu Zonal cultural fest”, organized at ABES Engineering college, Ghaziabad on 7th February 2020.
  - ◆ Participated and secured 2nd position in Group Dance in “Aktu Zonal cultural fest”, organized at ABES Engineering college, Ghaziabad on 7th February 2020.
- **Yash Singh (2ndYear)**
  - ◆ Participated in “E Quiz” organized at ABES Engineering college, Ghaziabad on 21st January 2020.
- **Nishith Sahu (2ndYear), Sarthak Bansal (3rd Year)**
  - ◆ Participated in “Smart India Hackathon” organized at ABES Engineering college, Ghaziabad on 21st January 2020.
- **Anjali Singh (3rdYear), Vishavjeet Soam (3rd Year)**
  - ◆ Completed 2-weeks online course on “Digital manufacturing and design” offered through coursera on 23rd May 2020.
  - ◆ Completed 4-weeks online course on “Model based system engineering” offered through coursera on 24th May 2020.
- **Ananya Gupta (3rdYear), Aashish Chaudhary (3rd Year)**
  - ◆ Completed 7-weeks online course on “Crash course on python” offered through coursera 9th June 2020.
- **Sagar Verma & Shivangi Asthana (3rdYear)**
  - ◆ Completed 4-weeks online course on “Electric power system” offered through coursera on 21st May 2020.
- **Anjali Yadav (3rd Year)**
  - ◆ Completed 4-weeks online course on “Electric power system” offered through coursera on 13th June 2020.
- **Sarthak Bansal (3rd year)**
  - ◆ Completed 4-weeks online course on “Electric power system” offered through coursera on 5 th June 2020.
- **Vishavjeet Soam (3rd Year)**
  - ◆ Completed 4-weeks online course on “Electric power system” offered through coursera on 10 th Jul 2020
- **Arsh Kumar (3rd year)**
  - ◆ Completed 4-weeks online course on “Electric power system” offered through coursera on 1st June 2020.

➤ **Adarsh Jaiswal (2nd year)**

- ♦ Completed 22-weeks online course on “Graphics Design” offered through coursera on 24 th June 2020.
- ♦ Completed 4-weeks online course on “Electric power System” offered through coursera on 22 nd June 2020.
- ♦ Completed 6-weeks online course on “Python for everybody” offered through coursera on 10 th June 2020.
- ♦ Completed 6-weeks online course “Python Programming – A Practical Approach” the Certification Course conducted by E & ICT Academy, Indian Institute of Technology, Kanpur at 4 th June 2020.
- ♦ Participated and secured 3rd position in an online event “Code War ” organized at IMS College, Ghaziabad during 13 th February 2020.
- ♦ Participated in “Autonomous Robotics”, organized at IIT Delhi on 1st March 2020.
- ♦ Participated in “IIC Online Sessions”, conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi from 28th April to 22nd May 2020.

## Placement 2019-20\*



**Akshay Kumar**  
Placed in TCS



**Aman Kumar Kushwaha**  
Placed in Wipro



**Aman Srivastav**  
Placed in Daurala Sugar Works  
(A Unit of DCM Shriram Industries Ltd)



**Himanshu Prajapati**  
Placed in Evalueserve



**Gunjan Chaudhary**  
Placed in TCS



**Sandeep Gurjar**  
Placed in TORRENT POWER



**Saurabh Kumar Yadav**  
Placed in Infosys Ltd.



**Shailendra Singh**  
Placed in Capgemini



**SNIGDHA**  
Placed in WIPRO



**Tarang Kumar Sahu**  
Placed in WIPRO



**Varun Sachan**  
Placed in Infosys Ltd.

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*Vice President, ABESEC*

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