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COMMUNIQUE

A bi-annual newsletter of EN Department
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Editor's Message



Isha Rajput
Sr. Asst. Prof., EN Dept.

I am immensely honoured to write the first issue of volume 3rd of the Departmental Newsletter. In this edition, I tried to capture all the major activities (events and workshops) conducted by the department during last six months. I feel delighted to see the students, faculty and staff members participating in different events and delivering their best. The hard work shown by the students in such events and workshops is portrayed effectively by the Departmental Newsletter. I do hope that the newsletter encourages many more students to use this as a platform of expressing their creativity. I hope that this edition makes for an interesting read.

Message from Director



Prof. M.K. Jha

Congratulations to Department of Electrical & Electronics Engineering for successfully unveiling this first issue of volume 3rd of Communique. The department has to play a vital role in producing high quality engineers to meet today's standards. I am glad that lab facilities are upgraded regularly to provide adequate opportunities for students and faculty members. Electrical & Electronics Engineering Department remains in forefront in organizing various events, faculty development programs, Quiz Competition and Guest Lectures. Interaction with industries through industrial visits depicts our commitment towards building a strong Industry-Institute Interface. I congratulate the department got accredited from NBA with effect from July 2017.

I wish all the success to the Team EN. I hope this newsletter would motivate other team members to bring best of them.

Message from HOD



Prof. (Dr.) Hemant Ahuja

Our department has a long valued tradition of striving for excellence in whatever we do. The department believes that the overall development of each student depends vastly on the faculty strength and quality, hence programs for the development of faculty members are encouraged. The faculty development programs attended, organized and delivered by our faculty members is a sign of zeal among faculty members to outshine. Following the student centric approach, various activities for students learning through Industry-Academia connect are organized so that the students do not feel deprived of the latest trends and challenges in the field. We are committed to providing not only the technical education to our students but also the leadership qualities through which they can create employment to others. Department focuses on holistic development of the students by a combination of both curricular and extracurricular activities. Skill & knowledge relevant to real world problem are inculcated to produce dynamic, socially conscious, sensitive human beings. Students at our department are excelling and their achievements are the part of our newsletter. Even beyond all these endeavors, there is a long way to go. I am sure, with the dynamic involvement of all the stakeholders, we will be able to fulfill the vision & mission of our department.

At last I would like to Congratulate and appreciate all my faculty members, staff members and students for their untiring efforts they made to get the programme accredited by NBA for three years with effect from July 2017.

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 analyse, design and create novel products for giving practical solutions to real life problems.
- 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)

- An ability to apply knowledge of mathematics, science, and engineering to the solution of complex engineering problems.
- An ability to identify, formulate and analyze engineering problems.
- An ability to design a system, component or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health & safety, manufacturability, and sustainability.
- An ability to design and conduct experiments as well as analyze and interpret data.
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
- An ability to apply reasoning to assess societal, health, safety, legal & cultural issues & consequent responsibilities relevant to professional engineering practice.
- An ability to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- An understanding of professional and ethical responsibility.
- An ability to function on multi-disciplinary teams.
- An ability to communicate effectively.
- An ability to demonstrate and apply knowledge and understanding of the engineering and management principles to manage projects and in multidisciplinary environments.
- Recognition of the need for and an ability to engage in life-long learning.

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 the state of the art components and software tools.
- An ability to analyze, design and implement the learning in electrical instrumentation, control and automation applications.

Feather in our cap –Accreditation by NBA

Department got accredited from NBA for three years with effect from July 2017. The visit of peer team was held during 18th-20th November 2017.

The peer team reviewed the entire team functioning process of the department. The team appreciated the enthusiastic faculty members along with young & dynamic leadership.

Accreditation by NBA is actually a quality seal of imparting technical educations. Department has always and will ever be committed to produce engineers with technical acumen with strong professional ethics.

Faculty Member Academic Pursuits

- Mr. Rahul Virmani got selected in Ph.D Programme at Centre for Energy Studies IIT, Delhi.

Publications by Faculty Members

- Mr. Saurabh Kumar Rajput presented a paper on **“Reduction in CO₂ emission through photovoltaic system: A case study”** in IEEE International Conference (NANO FILM 2017) organized at Gautam Buddha University, Greater Noida during 15th -17th November, 2017.
- Dr. Preeti presented a paper on **“Automatic generation control of multi-source interconnected power system including DFIG wind turbine and FACTS devices”** in International Conference on Emerging Trends in Engineering Innovations and Technology Management (ICET:EITM-2017) organized at National Institute of Technology, Hamirpur, Himachal Pradesh during 16th - 18th December 2017.
- Dr. Preeti published a paper on **“Colliding bodies optimization algorithm for optimal power flow problem of power system ”** in International Journal of Electronics, Electrical and Computational System (IJEECS), Volume 6, Issue 12, pp. 419-425, December 2017.

Faculty Member as Resource Person

Dr. Hemant Ahuja was invited as a **Judge** in **“TECHNOVATION-2017”** Technical Fest & Exhibition IMS Engineering College, Ghaziabad during 6th-7th October, 2017.

Industrial Visits

- An industrial visit for final year students of the Department was organized on 12th & 13th September 2017 to **Legrand India Pvt. Ltd., New Delhi.**



Industrial Visit to Legrand India Pvt. Ltd., New Delhi

- An industrial visit for 2nd year students of the Department was organized on 24th & 25th August 2017 to **Deki Electronics, Noida.**



Industrial Visit to Deki Electronics, Noida



Industrial Visit to Deki Electronics, Noida

- An industrial visit for 3rd year students of the Department was organized on 11th & 12th August 2017 to **BHEL, Haridwar**.



Industrial Visit to Bharat Heavy Electricals limited (BHEL), Haridwar

Guest Lectures

- A Guest Lecture on “**Traction Systems - Emphasis on Protection and Supply Systems**” was organized for III year students of the Department on 14th September 2017. The resource person for the lecture was **Prof. R. P. Maheshwari**, Director, RKGIT Ghaziabad.



Guest Lecture by Prof. R. P. Maheshwari, Director, RKGIT Ghaziabad

- A Guest Lectures on “**Isolated DC-DC Converters**” & “**Converters for Renewable Energy**” was organized for III year students of the Department on 15th November 2017. The resource person for the Lectures was Dr. Bhuvaneshwari, Professor, Department of Electrical Engineering, IIT Delhi.



Guest Lecture by Dr. Bhuvaneshwari, Professor IIT Delhi

Events Organized

ABHIGYAAN'17

The Department celebrated IEEE Day on 3rd October 2017 by organising an event “**ABHIGYAAN'17**” Technical paper presentation competition. Event was inaugurated by Dr. M. Rihan, Joint Secretary, IEEE UP Section & Associate Professor, Electrical Engineering Department, Aligarh Muslim University, Aligarh.

Total 24 papers were selected and presented in the event. The event was coordinated by Dr. Mohit Bansal and Ms. Pragati Deb from EN Department.

Winners from 2nd year were:

S.No.	Name	Branch	Year	Section	Topic	Winners	Cash Prize
1.	Vaibhav Kumar & Srishti Gupta	EN	2 nd Yr	B	Artificial intelligence	1 st Prize	1000/-
2.	Anjali Sharma & Gunjan Choudhary	ECE	2 nd Yr	B	Image processing	2 nd Prize	500/-

Winners from 3rd year were:

S.No	Name	Branch	Year	Section	Topic	Winners	Cash Prize
1.	Sameer Tripathi	EN	3 rd Yr	B	Spintronics	1 st Prize	1000/-
2.	Vasudha Surendra	EN	3 rd Yr	B	Wireless power transmission	2 nd Prize	500/-



ABHIGYAAN'17 - Technical paper presentation competition



ABHIGYAAN'17 - Technical paper presentation competition

- Ms. Anshika Kumar (II Year), Ms. Amrita (II Year), Ms. Divya Agrawal (III Year), Mr. Shivam Attrey (III Year) and Ms. Sakshi Jadon (III Year) participated in **"ABHIGYAAN'17"** Technical Paper Presentation Competition organized by the Department on 3rd October 2017.



Technovironment

The Department has organized an event "Technovironment" Technical Poster Making Competition in collaboration with IEEE Student Branch, ABSEC for the students of EN on 1st November 2017. Total 25 students were participated. Winners of this event were:

S.No.	Name	Branch	Year	Section	Theme	Winners	Cash Prize
1.	Divya Agrawal Ayan Mondal	EN	3 rd Yr	A	4R's of waste management	1 st Prize	800/-
2.	Vasudha Surendra	EN	3 rd Yr	B		2 nd Prize	500/-
3.	Anjali Mayank Chauhan	EN	3 rd Yr	B		3 rd Prize	200/-



Technovironment - Technical Poster Making competition



Technovironment - Technical Poster Making competition

Ms. Anshika Kumar (II Year) participated & Ms. Amrita Soni (II Year) contributed as a Volunteer in **"TECHNOVIRONMENT"** Technical Poster Making Competition organized by the Department on 1st November 2017.

Workshop

One day Workshop on “**Internet of things**” (IOT) was organized by APTRON INDIA Pvt Ltd. for EN (III year) students on 17th August 2017 at ABESEC. The workshop was attended by more than 100 students and during the workshop the students were made familiar to practical aspects of Internet of Things (IOT). The workshop was well organized by Dr. Javed Dhillon and Mr. Rahul Virmani.

Badminton and Table Tennis Championship'2017

Badminton and Table Tennis Championship for ABES EC family was successfully held on 5th December 2017. Approximately 80 faculty and staff members participated. Professor M.K. Jha, Director of Academics, Shri Sachin Kumar Goel, Vice-President and Heads of various departments tried their hands in Badminton and TT during the event which itself was a motivation for the participants.

It was a proud moment when **Ms. Pooja Rani** faculty member of Department of Electrical and Electronics Engineering secured Second position in **Badminton Tournament (Women)**.



Badminton and Table Tennis Championship'2017



Badminton and Table Tennis Championship'2017

Intra Departmental Chess and Carrom Tournament

The department organized a Intra Departmental Chess and Carrom Tournament on 13th September 2017. More than 50 Students Participated in this Tournament. The Tournament was well organized by Mr. Rahul Virmani and Mr. Gurpreet Singh. Winners of Tournament were:

Name of Event	Name	Year	Section
Carrom Tournament	Mohd. Kamram	2 nd year	A
	Aman Kushwaha	2 nd year	A
Chess Tournament	Arpit	2 nd year	A

New Facility Created

Electrical workshop has been set up in the department as per the new curriculum proposed by AKTU. This lab aligns totally to the departmental motto "Learning by Doing".

The motive behind setting up this entire lab is to familiarize the students with the practical aspects of electrical engineering used in day to day life in form of domestic and commercial wiring, winding of the electrical machines and transformer with standard specifications using the same tools and techniques, as being used in the industry. The lab also has the winding facility for small machines & transformers along with latest soldering & desoldering equipments.

Electrical Workshop



Electrical Workshop

Student Participation

- Ms. Sakshi Jadon (III Year) attended **“THREE DAYS ENTREPRENEURSHIP AWARENESS CAMP”** organized by ABESEC Startups Lab (ASL), ABES Engineering college, Ghaziabad during 13th - 15th September 2017.
- Ms. Amrita Soni (II Year) attended **“THREE DAYS ENTREPRENEURSHIP AWARENESS CAMP”** organized by ABESEC Startups Lab (ASL), ABES Engineering college, Ghaziabad during 13th - 15th September 2017.
- Mr. Ritik Kaushal (III Year) participated in ATHLETICS during **“UDGHOSH”** Technical Paper Presentation Competition organized at IIT Kanpur from 12th - 15th October 2017.
- Ms. Amrita Soni (II Year) participated in **Road Rash** during **“GENERO'17”** the Techno-Cultural Fest organized at ABES Engineering college, Ghaziabad on 1st - 3rd November 2017.
- Ms. Sakshi Jadon (III Year) participated in **Robo Race** during **“GENERO'17”** the Techno-Cultural Fest organized at ABES Engineering college, Ghaziabad on 1st - 3rd November 2017.
- Ms. Anshika Kumar (II Year) contributed as a **Volunteer** in **“GENERO'17”** the Techno-Cultural Fest organized at ABES Engineering college, Ghaziabad on 1st - 3rd November 2017.
- Ms. Amrita Soni (II Year) contributed as a **Volunteer** in **“ROTARY NOIDA BLOOD BANK”** organized at ABES Engineering college, Ghaziabad on 10th November 2017.

Sessional Toppers

Students are awarded with a cash prize for scoring highest marks in ST1, ST2 & PUE. Following students were awarded with a cash prize:

Sessional Toppers			
II Year-A	I503221015	ANUPAM MISHRA	Rs. 1000/-
	I503221012	ANJALI	Rs. 2500/-
II Year-B	I503221056	RAVI KHANDELWAL	Rs. 3500/-
III Year-A	I403221010	AKASH GANGWAR	Rs. 1000/-
	I403221004	ABHISHEK KR SINGH	Rs. 1000/-
	I403221041	HARSHIT SINHA	Rs. 1500/-
III Year-B	I403221112	VIJAY KUMAR	Rs. 2500/-
	I403221107	TARUN KUMAR VARSHNEY	Rs. 1000/-
IV Year-A	I303221061	MOHD IMRAN	Rs. 1000/-
	I303221039	GAURAV MALIK	Rs. 1000/-
	I303221018	ANJALI PANDEY	Rs. 1500/-
IV Year-B	I303221086	SAJAL SINGH PAL	Rs. 2500/-
	I303221080	RISHAB SHARMA	Rs. 1000/-
TOTAL			Rs. 21000/-



Prize distribution for scoring highest marks



Prize distribution for scoring highest marks

CREDITS

CHIEF PATRON

Shri Neeraj Goel
President

PATRONS

Shri Sachin Kumar Goel
Vice President

Prof. M.K. Jha
Director

CHAIR, PUBLICATION

Prof. (Dr.) Hemant Ahuja
Head, EN Dept.
hoden@abes.ac.in

EDITORIAL

Editor & Compiler

Ms. Isha Rajput
Sr. Asst. Prof., EN Dept.
isha.rajput@abes.ac.in

Reviewer

Dr. Mohit Bansal
Asso. Prof., EN Dept.
mohit.bansal@abes.ac.in

Student Co-ordinator

Mr. Ashwarya Pratap Singh
Ms. Sakshi Jadon
Mr. Ujjwal Mathur

ABES Engineering College

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Approved by AICTE, Affiliated to Dr. A.P.J. Abdul Kalam Technical University U.P. Lucknow

19th km stone, NH-24, Ghaziabad U.P. , India - 201009

Ph: 0120-7135112 Fax No.: +91-120-7135115, Website: abes.ac.in, Email: info@abes.ac.in

INDIA RANKINGS 2017
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