

ABES INSTITUTE OF TECHNOLOGY



e-Newsletter

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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About The Department

Department of Electronics and Communication Engineering was established in the year 2007 with the vision of imparting quality education to the students with practical orientation. The department is well-equipped with the state-of-art laboratories. The undergraduates from this department have become professional engineers, employed



both in core and software companies. The department consistently organizes Faculty Development Programs, Industrial Tours, Workshops/Seminars, Expert talks to improve teaching learning process. The department runs interdisciplinary and dedicated Center of Excellence for Analog and Embedded Systems and Center of Excellence for Power Electronics and Drives.

Vision

To impart in depth knowledge to the students of Electronics & Communication Engineering for achieving academic excellence, professional attitude and ethical values, inculcating research culture to meet the challenges of global industrial demands.

Mission

- M1** Impart quality and value based education, with practical orientation to transform students into the skilled, trained and competent individuals.
- M2** Infusing research culture among students and faculty so that the Department be recognized as Center of Excellence in various domains.
- M3** Inculcating team work, leadership qualities, professional ethics and social responsibilities.
- M4** Prepare graduates for working in multicultural and multidisciplinary environment.

Program Educational Objectives (PEOs)

- PEO1:** Graduates of the program will be able to identify and apply domain specific knowledge to have a successful career in real world applications by keeping abreast of the technological changes.
- PEO2:** Graduates of the program will continue to learn and adapt in a world of constantly evolving technology through advanced degrees, professional courses and/or research.
- PEO3:** Graduates of the program will be committed to acquire professional ethics, moral values and devotion to duty so that they prove to be worthy citizen of India with International outlook.

Program Specific Outcomes (PSOs)

- PSO1:** Analyze and apply the acquired knowledge in designing application in the field of VLSI and Embedded System.
- PSO2:** Should possess the skills to develop, analyze and synthesize various functional elements of communication system and signal processing.
- PSO3:** Proficiency in specialized cutting-edge software packages and computer programming useful for the analysis/design of electronic engineering systems.

From HOD's Desk

The Department of Electronics and Communication Engineering, established in 2007, is one of the most dynamic departments of ABES Institute of Technology. Since, its inception, the department has been the hub of academic excellence, giving more emphasis on the overall development and improvement of its students and faculty members. This Newsletter is thought to be a focus on the academic activities, students and faculty achievement as well as initiatives and innovation occurring in the department. It is the intent of the department to make it bi-annual publication to keep in touch with the departmental activities and achievements. This newsletter will serve as a window for the readers to know about the departmental activities. I wish best of luck to all the team members for publication of newsletter.

Best Wishes!



Dr. Sapna Katiyar
HOD, ECE

From Editor's Desk



Mrs. Sugandh Gupta
Assistant Professor, ECE

Dear Readers,

It is indeed a great honour to be the Newsletter Editor for the Department of electronics and communication engineering of our Institute and it is an immense pleasure to launch this first edition for 2018.

In this issue, we will recount the various activities like expert talks, faculty development programs, Industrial visits, training programs, sport events, technical events in which the department members were actively involved from January 2018 to June 2018. The Newsletter has also published the student's achievements in various events at zonal and college level.

The editorial board would sincerely thank the department for their immense support. Special thanks to honorable Advisor of our Institute- Prof. (Dr.) Vipin Garg, director- Prof(Dr.) Bhavesh Kumar Chauhan, Head of the Department- Dr. Sapna Katiyar for their torch bearing guidance..



CONGRATULATIONS !!
Prashant Tomar for Qualifying
GATE with score of 448

PLACEMENTS

The Students of Electronics and Communication Engineering secured a good number of placements. Prominent recruiters for the students of Electronics and Communication Engineering are:

Amazon

Hestabit

Genpact

Collabera

Cognizant

Eninov Systems

Alight Solutions

Nucleus Software

Asahi India Glass

HCL Technologies

Invecas Technologies

CoCubes Technologies

Signity Solutions Pvt Ltd

Smalt and Beryl Pvt. Ltd.

Aurelius Corporate Solutions

NIMBUS ADCOM Pvt Ltd..

NewAge Instruments & Materials Pvt Ltd.

Student's Achievements

Technex'18 organized by IIT (BHU), Varanasi from 16th Feb to 18th Feb, 2018

- **Abhishek Shukla, 3rd Year ECE secured 1st Position in Management Event named "SAMPANN" .**

AKTU Zonal ART and Cultural Fest held at KEC, Ghaziabad from 23rd & 24th Feb, 2018

- **Neeraj Singh, 3rd Year ECE secured 2nd position in Face Painting and 3rd position in Collage Making.**
- **Anmol, 2nd Year ECE secured 2nd position in Poster Making.**
- **Priya Gautam and Vishal Verma, 4th Year ECE secured 3rd Position in Group dance .**
- **Neeraj and Chandani Jaiswal, 3rd Year ECE secured 3rd Position in Rangoli Competition**
- **Prateek Khandelwal, 4th Year ECE and group secured 3rd Prize in War of Bands Competition.**



AKTU Zonal, Technical, Literary and Management Events 22nd to 24th March, 2018 at IPEC, Ghaziabad.

- **S. V. V. Srinivas & Gargi Sinha, 3rd Year ECE secured 1st Position in the event Robo War at Zonal Level among all affiliated Institutes of DR. APJ AKTU, Lucknow.**



Smart India Hackathon-2018 (Hardware edition) organized by AICTE, Gov. of India

- **S V VENUGOPALA SRINIVAS, 3rd Year ECE and his team under the name "SPEROTECH" was shortlisted at the national level for Grand Finale of Smart India Hackathon, 2018**



Department Events

Expert Talks

- An Expert Talk on “**Internet of Things**” by *Ms. Shivani Agarwal, Principal Security Engineer, HSC Gurgaon* was organized for 3rd and 4th Year ECE students on 7th March , 2018. She briefed the students about basics of IOT and security aspects related to it, along with different security protocols that are being used and refined to provide better security for IoT devices .



- An Expert Talk on “**5G**” by *Mr. Anshul Singhal, Network Planning & Optimization Specialist, Nokia Network Pvt. Ltd., Noida* was organized for 3rd year and 4th Year students of ECE on 13th March, 2018.



- An Expert Talk on “**Latest Development in Nanotechnology**” by *Dr. Risal Singh, Ex-scientist, DRDO* was organized for 4th year ECE students on 4th April, 2018. The speaker briefed the students about the latest development in Nanotechnology & it's scope in the future.



Training Programs

- A 30 hours training program on “**Embedded Systems &IoT**” under the banner of COE Analog and Embedded Systems Lab was conducted from 3rd February, 2018 to 4th April 2018. 34 students from ECE & EEE participated in this program. It was project based training, where students learnt about basics of C, Proteus, Keil, Code Composer Studio and Energia software tools and Internet of Things. They learnt about MSP430 Micro-controller which is designed by Texas Instruments. Trainers for the programs were: *Prof. Rachit Patel and Prof. Aviral Malay* (ECE Department).



Industrial Visits

- A visit to **C & S Electric Ltd., Noida** for the students of 3rd and 4th Year ECE & EEE was organized on 19th Feb 2018. The purpose of the visit was to see the various stages involved in manufacturing of contactors and to learn about them. Mr. Amit (Engineer, C&S Noida), showed moulding section to students.

In the second phase of this visit, students were guided by Mr. Sunil (Engineer, C&S Noida) in assembly area of the company. In this section, students got an opportunity to see changeovers of different current rating and HRC fuse used in it.



- A visit to **Huawei Network Academy, Noida** on “New Era of Communication & Cloud Services” for the students of 3rd Year ECE was organized on 27th March, 2018 where 52 students interacted with Huawei Experts.



- A visit to **Moserbaer India Ltd., Greater Noida**, Uttar Pradesh for the students of 3rd and 4th Year ECE was organized on 3rd April, 2018.



Faculty Development Program

A Faculty Development Program on "**Artificial Intelligence & Machine Learning: Interdisciplinary Approach for Applications**", sponsored by **Dr. APJ AKTU, Lucknow U.P.** was organized from 12th -16th June, 2018. The FDP was attended by 56 Faculties from different colleges. The Speakers of the FDP were;

- Dr. B.K. Panigrahi from IIT, Delhi who focussed on PSO (Particle Swarm Optimization) algorithm which optimizes a problem iteratively.
- Dr. Ela Kumar, HOD,CSE Department, IGDTUW, Delhi. She focussed on Artificial Intelligence along with Swarm Intelligence and Evolutionary Intelligence like Ant Colonization.
- Dr. Anil Singh Parihar, focused on basic concepts of Machine Learning.
- Dr.Rishav Singh from Bennett University, Greater Noida, discussed Clustering and Regression analysis techniques used in Machine Learning.
- Mr. Ankit Agarwal, Senior Data Scientist in Mobileum, Gurgaon focused on the concepts of Python.



ABESIT Annual Fest 2018 (Festin-O-Beats 9.0)

The Annual Fest of ABESIT, Gahziabad, “Festin-O-Beats 9.0” was organized from 8th to 9th February 2018. The Fest included the events like cultural, literary, technical, fine arts, photography etc. Students from different institutes participated in these events. Following is the list of students of the department who secured various positions in their respective events:

S.No.	Event	Student's Name	Year	Position
1.	Group Dance	Vishal Verma	4 th	1 st
		Km. Priya Gautam	4 th	
2.	Rangoli	Chandni Jaiswal	3 rd	2 nd
3.	Sketching	Anmol	2 nd	1 st
4.	Mehndi	Pragati Tiwari	1 st	2 nd
5.	Cook without Fire	Riya Sharma	2 nd	1 st
6.	Salad Carving/ Decoration	Riya Sharma	2 nd	1 st
7.	Talkative Cartoon	Pratyush Priyansh	1 st	2 nd
8.	Mosaic	Raghav Gautam	3 rd	2 nd
9.	Nail Art	Riya Sharma	2 nd	1 st
10.	Hair Styling	Chandni Jaiswal	3 rd	3 rd
11.	Clay Art	Subhadra Bharti	4 th	2 nd
12.	Movie Making	Veral Agrawal	1 st	2 nd
13.	Hobby Collection	Neeraj Singh	3 rd	1 st
14.	General Quiz	Prachi Bharadwaj	3 rd	2 nd
15.	Technical Quiz	Prafful Garg	2 nd	1 st
16.	Circuit Debugging	Manu Yadav	3 rd	1 st
		Anshuman Singh	2 nd	2 nd
17.	Cash of Clans	Asar Ahmad	1 st	2 nd



Research Publications

Congratulations!!

- Jaya Madan *et al.*, “Temperature Associated Reliability Issues of Heterogeneous Gate Dielectric – Gate All Around-Tunnel FET”, *IEEE Transaction on Nanotechnology*, Vol. 17, No.1, Jan. 2018. DOI: 10.1109/TNANO.2017.2650209.

Come and Join Us..... !!

iB Hubs (Recognized Incubator of Govt. of India and recognized Incubator partner of Govt. of UP) is conducting

“World Class IoT Bootcamp-2018”

now in DELHI-NCR at ABESIT, Ghaziabad

(An initiative of NITI Aayog)

Dates: 16th-20th July, 2018

ABESIT hosts a AKTU Sponsored Workshop on “Role of Technology in Innovation” and Startup Pitch Competition.

Date: 3rd July, 2018

ABESIT has set up Center of Excellence for “Internet of Things (IOT)” in association with Entuple Technologies which is going to be Inaugurated on

11th, August 2018