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CHAKSHU

A Bi-annual Newsletter

**Electronics &
Communication
Engineering**

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Volume 1, Issue 2

From The Desk Of Editor-in-Chief

Dear Readers,



It gives me immense happiness to release the newsletter "CHAKSHU". It was quite inspiring to watch and witness the potential of our student's achievements at various stages. We always believe that "Hard Work has no shortcuts". Here, in ABESEC, we continuously strive for excellence. We develop an ecosystem where every human being is motivated to align towards their goal. I must say that a student must be focused and alert to achieve his target. He/ She must know the "More from less" strategy to bring the most out of available resources. All the geniuses have one thing in common they are always in "Learning Mode", the same is applicable to students as well. Once the students develop an attitude of this level then even failure becomes learning to them, and they fall under the category of "bound to succeed". Best wishes and blessings to ECE Team. Congratulations to the editorial team for their determined efforts in bringing out this newsletter.

Sincerely,

Prof. (Dr.) Sanjay Kr. Singh
Director (Officiating) & HOD-ECE

From The Desk Of Editor

Hello Readers,



It is with great pride and pleasure that we present to you the next edition of the Newsletter "**CHAKSHU**" on behalf of the department of ECE. The newsletter is an impressive culmination of facts, achievements, opinions, and information surrounding our ECE department. It particularly highlights the experiences of students, staff, and alumni in curricular, co-curricular and extra-curricular walks of collegiate life. For your viewing, we have put together an array of articles spanning from interviews of our best and most successful to write-ups about the latest buzz in the tech world. We encourage our readers to scour through these pages because we truly believe there is something here for everyone! As Editors, we would be remiss if we fail to touch upon our gratitude to the faculty coordinators and the faculty in charge, whose help and care greatly contributed to the creation of this newsletter. In the same breath, we would also like to dearly thank our team including incredible writers, designers and editors who poured in their hours to make this newsletter possible. There is a saying, "**If you want to go fast, work alone. If you want to go far, work together**" So if there is one message, we wish to leave to our readers is that it is to never underestimate the power of unity in the face of adversity.

Sincerely,

Ranjeeta Yadav | Assistant Professor-ECE



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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VISION

To contribute to India and the world through excellence in education and research in the field of Electronics & Communication Engineering and serve as valuable resource for the industry and the society at large.

MISSION

To create an environment, which shall encourage the development of innovative professionals and researchers in the cutting-edge technologies of Electronics & Communication Engineering, in line with industry requirements and to impart professional ethics with a positive attitude.

Programme Educational Objectives (PEOs)

PEO1: To impart the students sound technical knowledge and skills in the core & related science & mathematics subjects of Electronics & Communication Engineering so that they graduate as professionally competent engineers, capable of applying & implementing the acquired skills.

PEO2: To inculcate in students a desire to be innovative and passionate about excelling in the field of Electronics & Communication Engineering.

PEO3: To develop managerial and soft skills so that they become confident and competent enough to take challenging responsibilities & leadership roles in the industry & corporate.

PEO4: To equip them with solid foundation in ECE engineering so that they can pursue higher studies in the subject.

PEO5: To groom the students to acquire professional ethics, moral values and devotion to duty so that they prove to be worthy citizens of India with an international outlook.

Program Outcomes (Pos)

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2. 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.

Po3. 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.

PO4. 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.

PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6. 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.

PO7. 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.

PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9. Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse exams, and in multidisciplinary settings.

PO10. 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.

PO11. 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.

PO12. 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)

PSO1: An ability to design and analyze the concepts and applications in the field of communication/ networking, signal processing, embedded systems, and semiconductor technology.

PSO2: An ability to comprehend the technological advancements in the usage of modern design tools to analyze and design subsystems/processes for a variety of applications.

PSO3: An ability to learn the courses related to Microelectronics; Signal processing, Microcomputers, Embedded and Communication Systems to develop solutions to real world problems.

PSO4: An ability to communicate in both oral and written forms, the work already done and the future plans with necessary road maps, demonstrating the practice of professional ethics and the concerns for social and environmental impact.

ABOUT THE DEPARTMENT

The Department of Electronics & Communication Engineering at ABES Engineering College Ghaziabad was established in the year 2000. The department runs a four-year full-time B.Tech program and a two-year full-time M.Tech program in Electronics & Communication Engineering with a total intake of 180 students in B.Tech and 6 students in M.Tech. The B.Tech program is accredited by the National Board of Accreditation (NBA). The department has well-qualified, experienced, and dynamic faculty members.

The Department has well-equipped labs with the necessary hardware and software to meet the curriculum and industry requirements. We have state of art Project Lab, Advanced Lab, and CoE's to harness the creative and innovative aspiring minds to put their imagination into reality.

The Department has an Employability Enhancement Cell (EEC) to develop high-quality, technically compliant students who become confident in the Electronics and Communication engineering field with a focus on research and socially responsible. The main objective is to enhance the student employability skills through in-house training, workshops, guest lectures from industry & projects based on student interest.

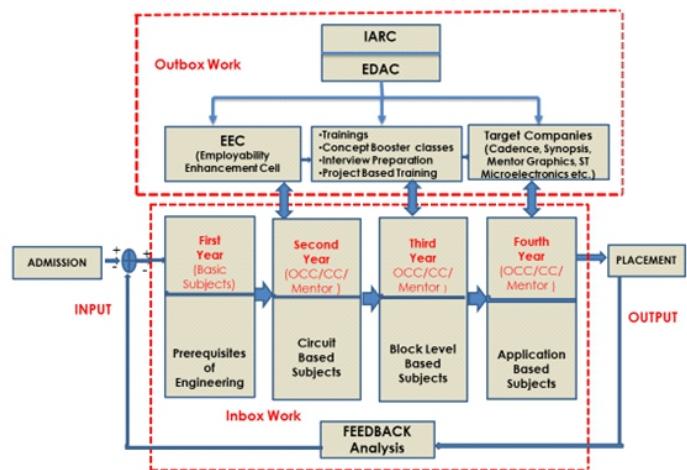
The Department also has Industry Collaboration Cell/ Industry-Academia Relationship Cell (IARC) to provide a platform for our students to develop a relevant skill set and know-how for better placement related to skill set industries.

The Department has Electronic Design and Consultancy (EDAC), the purpose is to design & develop products based on ideas received from industries and create an in-house ecosystem encouraging industrial exposure to students' product development at the college level to make them industry ready and globally competent.

Students in the Department undergo In-house industrial training to bridge the gap between Industry and Academia. Department of ECE has recently signed MoUs with Stolar Power, Systems Infra Solution Pvt. Ltd, Associated Electronics Research Foundation, The TAG Factory etc. for industry-based consultancy and projects.

ECE Department runs the research and consultancy projects funded by various government and non-government funding agencies with an aim to offer our students, the opportunity to work on real-time problems & projects.

ECE DEPARTMENT WORKING PROCESS





1.INBOX WORKING PROCESS

1.1 ACADEMICS

1.1.1 Department Academic Activities

The Initiatives are taken by the Department to improve Academic Statistics are:

- **Overall Class Coordinator (OCC):** The concept of this initiative was to have double-checked on the working of class coordinators and students. The OCC keeps close coordination between all the class coordinators of a particular year and removes any gap between them. He also works as a bridge between class coordinators and students so that any grievance or problem related to administration or academics can be sorted out. He also handles discipline issues of that year for which he/she is designated. Overall class coordinators, class coordinators and mentors take care of various aspects of co-curricular activities (Academic, Counseling and Discipline) to maintain complete decorum.
- **Mentor-Mentee Program** was introduced to counsel, motivate, and guide the mentees & encourage them to achieve their potential in terms of growth & development. To make mentees aware of the resources & opportunities available for professional development. To motivate the mentees to work in emerging areas & identify their areas of strength & concern. To encourage them to take active participation in research activities and get it published. To provide observation & feedback of mentees to the next higher level.
- **Extra classes** for short attendance and academically needy students had started from the starting of the semester.
- **Daily Attendance Monitoring:** The list of students having attendance < 75% will be posted every Friday on the departmental boards. Short Attendance letters are posted fortnightly.
- **Buddy Classes:** In the class, there are slow learners and fast learners, to handhold the slow learners this initiative is undertaken. The fast learners of the class handhold some of the slow learners in academics through notes, explaining the topics, solving numerical etc. This initiative will help slow learners to come at the same platforms as others.
- **Concept Booster Classes (CBC)** for in-depth study for core companies/PSUs/ IES. The classes are taken by senior faculty members of the department.
- **Student Research Papers**, it has been made suggested for project groups to publish two Research Paper in a Scopus / UGC indexed Journal and in an International Conference.
- **Placement Tracker** was introduced to monitor the record of the interview process held that the data may be analyzed further, and effective steps may be taken to enhance the skills of the students for the upcoming interviews.
- **Training Tracker:** The 3rd year students go for industrial training for 4 to 6 weeks in some industry of their choice. The student brings a certificate after completion of training. To understand what he /she has learned day-wise a tracker was introduced. This training tracker consists of day-wise monitoring of training like in which department and under whose guidance he/she is doing training etc. After completion of training, the student will bring the tracker for evaluation.
- **Project Tracker:** Project Tracker tracks the interaction details of the project supervisor & the team.
- **Electronics ICU:** Under this initiative, the department offers maintenance and repairs of various electronic equipment at the college level.
- **Department Level Placements:** Under this initiative, the department has developed linkages with several renowned industries for MoUs which will help in internships & placements.
- **Tie-ups with Reputed Academic Universities & Institutions for Start-ups, Intellect Transfer & Faculty Development.**
- **GATE Classes and Content Preparation for Core Field Companies.**

1.2 Research & Innovation

Research & Innovation activity of ECE department integrates Publications, Patents, Incubation and Startup. The purpose behind this is to improve upon quality as well as several publications. Every project group in the final year is advised to have at least two publications (Review & Implementation) out of their project in an academic session. Apart from this, every faculty member is required to have a maximum number of publications in reputed Nationals/Internationals journals/Conferences.

- Any innovative and novel ideas from projects are further encouraged for a patent.
- Department provides support to the students who are interested in their own startups/ business opportunities. It provides expert/resource person and helps in registration of startup etc.
- Department has initiated to set up an incubation center to develop new ideas into products.

1.2.1 Publications (Faculty)

1.2.1.1 JOURNALS/CONFERENCES: -

- **Priyanka Bhardwaj et.al “IoT Based Smart Agriculture Aid System Using Raspberry Pi”**, International Journal of Recent Technology, Vol. 10 (5), pp. 274-278, June 2021
- **Priyanka Bhardwaj et.al “Effect of Atmospheric Turbulences on BPSK”**, International Journal of Recent Technology, Vol 10 (5), pp. 353-357, June 2021
- **Priyanka Bhardwaj et.al “BER of Various Modulation Techniques Under Atmospheric Turbulences”**, International Journal of Engineering and advanced Technology, Vol 10 (5), pp. 302-307, June 2021
- **Priyanka Bhardwaj et.al “Soldier Health and Position Tracking system using IOT, GSM and GPS module”**, International Journal of Research and Analytical Reviews, Vol. 8 (2), ISSN-2349-5138, pp-959-966, June 2021
- **Priyanka Bhardwaj et.al. “IOT based Smart Agriculture Aid System”**, International Journal of Research and Analytical Reviews, Vol. 8 (2), ISSN 2349-5138, pp-562-566, June 2021
- **Priyanka Bhardwaj et.al. “Review of various modulation techniques for optical wireless communication system”**, International Journal of Research and Analytical Reviews, Vol. 8 (2), ISSN 2349-5138, pp-86-89, June 2021.
- **Shailendra Bisariya, Neelofer Afzal, “Design and implementation of CCTA for Low Power Applications: a Review”**, Recent Advances in Electrical & Electronic Engineering (benthamscience), Vol.14 (4), ISSN 2352-0973, pp.-406-414, Jan. 2021.
- **Manidipa Roy, Rehan Sharma, Mansi Chopra, Himanshu Yadav, Pratishttha Singh, “Bandwidth Enhancement Of Patch Antenna Using Defected Ground Structure”**, Zeichen Journal, Vol.7 (7), pp. 231-238, 2021
- **Manidipa Roy, Durgesh Nandini, Priya Verma, Anshu Sharma, Nishant Raghav, “Condition Monitoring Of Soil For Cultivation Of Crops”**, Zeichen Journal, Vol.7 (6), pp. 451-462, 2021
- **Manidipa Roy, Rahul Pal, Deepak Vishwakarma, Praveen Kumar Pal, Radheyshyam Maurya, “Gesture Controlled Wheelchair Along with Home Automation”**, Zeichen Journal, Vol.7 (6), pp. 298-311, 2021
- **Saini S.K., Gupta R, “Artificial Intelligence methods for analysis of Electrocardiogram Signals for Cardiac Abnormalities: state-of-the-art and Future Challenges”**, Artificial Intelligence Review Rev, <https://doi.org/10.1007/s10462-021-09999-7>, April 2021
- **Ranjeeta Yadav, Upasana Sharma, Anjana Bhardwaj “Apperence Tracking Framework Using GSM”** presented a paper in International Conference on Artificial Intelligence and Sustainable Engineering (AISE-2020), January 2021
- **Shivam Pathak, Shivam, Tarun Yadav, Ashish Gupta, “Remote Monitoring of Agriculture Sector using IOT”**, International Journal of Aquatic Science, ISSN 2008-8019, Vol 12 (2), pp. 1373-1379, 2021

- **Surekha Ghangas et al. "Detection of Temperature in Server Rooms using WSN"**, International Journal of Creative Research Thoughts, Vol. 9 (5), ISSN 2320-2882, pp- i103-i109, May 2021
- **Devvrat Tyagi, Rajesh Kumar, "Rhythm Identification and Classification for Electocardiogram Signals using Feature Cluster Framework Classifier"**, International Journal of Advanced Research in Engineering and Technology, Vol. 12(1), pp. 199-208, 2021.
- **Devvrat Tyagi, Ashish Gupta et al., "Analysis of Linear Quantization based Wavelet Decomposition Technique for Electrocardiogram Signal Compression"** International Journal of Electrical Engineering and Technology, Vol 12 (1), pp. 118-130, 2021.
- **Devvrat Tyagi, Rajesh Kumar, "Identification of QRS Segments of Electrocardiogram signals using Feature Extraction"**, International Conference for Convergence in Technology (I2CT), doi: 10.1109/I2CT51068.2021.9417869, pp. 1-5, 2021
- **Devvrat Tyagi, Sachin Kumar and Rajesh Kumar, "Multifunctional Antenna Design for Internet of Things Applications"** International Conference on Advanced Computing and Communication Systems (ICACCS), pp. 557-560, 2021
- **Ashish Gupta, Rajesh Kumar and Devvrat Tyagi, "Wireless sensor network for IoT based ECG monitoring system using NRF and LabVIEW"**, Multimodal biometric system: security and applications, CRC press, 2021
- **Geetanjali Raj, Ranjeeta Yadav, Vishal Kumar Singh, "GSM Appliance Control Prototypes for Smart Classrooms"** presented a paper in International Conference on Artificial Intelligence and Sustainable Engineering (AISE-2020), January 2021
- **Geetanjali Raj, Ranjeeta Yadav, Upasana Sharma, Anjana Bhardwaj, "Hassle free Food Ordering Superintendence"**, presented a paper in International Conference on Artificial Intelligence and Sustainable Engineering (AISE-2020) ,January 2021
- **Geetanjali Raj, Kriti Kulshrestha, Ritu Kumari, Saloni Garg, Swati Adhikari, "Charecteristics Review Of BOC Modulation Including Its Acquisition & Tracking Schemes"** presented a paper in International Conference on Advances in Applied Sciences (AASET-2021), May 2021
- **Geetanjali Raj, Shubham Malpani, Shrishti Gupta, Shreyanshi Agarwal, Mohd. Alam, "Reviewing The Pid Based Technologies Behind Two Wheel Balancing Robot"** presented a paper in International Conference on Advances in Applied Sciences (AASET-2021), May 2021
- **Rehan Sharma, Mansi Chopra, Himanshu Yadav, Pratishttha Singh, Manidipa Roy, "Review: Bandwidth Enhancement of Patch Antenna using Defected Ground Structure"**, International Journal of Research and Analytical Reviews, Vol.8 (6), May 2021
- **Radheyshyam Maurya, Deepak Vishwakarma, Praveen Kumar Pal, Rahul Pal, Manidipa Roy, "Review: Gesture controlled wheelchair with home automation"**, International Journal of Research and Analytical Reviews, Vol.8 (2), pp.607-611, May 2021
- **Durgesh Nandini, Priya Verma, Anshu Sharma, Nishant Raghav, Manidipa Roy, "Review: Condition Monitoring of Soil for Cultivation of Crops"**, International Journal of Research and Analytical Reviews, Vol.8 (6), pp. 581-594, May 2021
- **Saksham Jain, Sanya Aggarwal, Satakshi Tiwari, Siddharth Srivastava, Khushbu Bansal, Sanjay Kumar Singh, "Android Controlled Robot"** presented a paper in International Conference on Recent Trends in Parallel and Distributed Processing Techniques (RTPDP-2021), July 2021

- **Manish, Katiyar D, "Blockchain technology in management of clinical trials: A review of its applications, regulatory concerns and challenges", International Journal of Pharmaceutical Sciences and Research, Vol. 12(6), pp 2982-2994, 2021**
- **Katiyar D, Manish, "Strategies of traditional systems of medicine combating with the Current pandemic situation of Covid-19", International Journal of Pharmaceutical Sciences and Research, Vol 12(8), pp. 2982-2994, June 2021**
- **Dishi Saxena, Divyansoo Saxena, Akshit Kumar, Madhur Singh Siwal, Arpita Johri, "Automatic Billing Cart using RFID & Zigbee", International Journal of Research & Analytical Reviews, ISSN 2348-1269, Vol 8 (2), June 2021.**
- **Devesh Sharma, Aakash Sharma, Akash Tiwari, Abhishek Singh, Arpita Johri, "IoT based Home Security System", International Journal of Research & Analytical Reviews, ISSN 2348-1269, Vol 8 (2), May 2021.**
- **Harish Pratap Rana, Ankita Singhal, Muskan Mittal, Nanditi Tandon, Mudit Saxena, "Smart Highway", Gradiva Review Journal, ISSN 0363-8057, Vol 7 (5), May 2021.**
- **Aastha Yadav, Aditi, Utkarsh Yadav, Vartika Rai, Mudit Saxena, "Outdoor Navigation System for Visually Impaired", International Journal of Research & Analytical Reviews, ISSN 2349-5138, Vol 8 (2), May 2021.**
- **Aastha Yadav, Aditi, Utkarsh Yadav, Vartika Rai, Mudit Saxena, "A Novel Navigation Syetem To Assist Visually Impaired" Gradiva Review Journal, ISSN 0363-8057, Volume 7 (6), June 2021**

1.2.1.2 BOOK CHAPTERS: -

- **Upasana Sharma, Shruti Parashar, Pratham Jadoun , Piyush Katiyar , Rishabh Varshney, "Iot-Enabled Air Pollution Meter With Digital Dashboard On Smartphone" Recent Trends in Communication and Electronics, CRC Press, Taylor and Francis Group, ISBN 978-1-032-04572-6, pp. 19-23, 2021**
- **Upasana Sharma, Akash Gupta, Swati Khantwal, Vipin Kumar, Vipin Singh, "Soil Moisture Sensor Based Automatic Irrigation Water Pump Controlling System with GSM Technology" Recent Trends in Communication and Electronics, CRC Press,**
- **Pallavi Tyagi et. al, "Bandwidth & Gain Enhancement of Circular MPA Using Twin Layer Stacked Antenna" Lecture Notes in Electrical Engineering, Volume 756, pp. 605-615, ISBN 978-981-16-0749-3, May 2021.**
- **Dheeraj Singh, Tania Gupta et. al "Implementation of Audio Image Steganography-A Technique to Secure Data", Lecture Notes on Data Engineering and Communications Technologies, Vol. 62, pp. 579-590, April 2021 Taylor and Francis Group, ISBN 978-1-032-04572-6, pp. 14-18, 2021**
- **Md Shahbaz Alam, "Design of AGC Circuits for Oscillator using Current Conveyor Based Trans-Linear Loops" Taylor and Francis Group, ISBN 978-1-032-04572-6, pp. 349-354, 2021**
- **Md Shahbaz Alam, Chhavi Puri, Priyansh Tyagi,Sia Saini, Yash Kumar, "Monitoring System for Health" Taylor and Francis Group, ISBN 978-1-032-04572-6, pp. 251-255, 2021**
- **Md Shahbaz Alam, Gaurav Dwivedi, Abhinav Gangwar, Sachin Rajput, Abdullah, "Heart Detection and Monitoring by IOT" Taylor and Francis Group, ISBN 978-1-032-04572-6, pp. 88-92, 2021**

1.3 Faculty & Staff Development Activities

1.3.1 Guest Lectures

- **Dr. R.P. Pushkar** [Senior Lecturer & Chief Co-ordinator (Hon.) of ASPEUS Prayagraj,] delivered a lecture to all faculty, staff and students on “**Acupressure & color therapy to boost immunity and oxygen**” on 18th June 2021.
- **Mr. Rohit Phutela** [Manager Marketing & Technical Services, Automation Engineers. B Pvt. Ltd] delivered a lecture to students of 3rd Year and 4th year on topic “**A Revolution in Manufacturing - Industrial Automation**” on 18th March 2021.

1.3.2 Workshops

- Workshop on "Combating stress over life in this pandemic time" on 24th May 2021.
- Workshop on “Advanced Application of Antenna Design & Fabrication Using HFSS” on 11th January 2021



2. OUTBOX ACTIVITIES

2.1 EMPLOYABILITY ENHANCEMENT CELL (EEC)

The purpose of EEC is to minimize the gap between academia and industry. Provide training & guidance to students on the various aspects of building a career in the domain of ECE. Assist the students in exploring new opportunities & new technologies. Guide them in developing skills & job search strategies required to achieve their career objectives. Organize various types & levels of in-house training programs & extension programs to achieve the goals. Help the students to get placed in the core companies.

Step1:- Employability Enhancement Cell (EEC) has been formulated in the Dept. with the following objectives:

- To segregate the students, domain wise depending upon their skills and interest.
- To provide training and guidance to students on the various aspects of building successful a career by meeting the demand of the industries.
- To assist them in exploring new opportunities and new technologies.
- Guide the students in developing skills and job search strategies required to achieve their career objectives.
- To organize various types and levels of in-house training programs and extension programs to achieve the goals.

Step2:- Employability Enhancement Cell (EEC) follows the following procedure to fulfill the above objectives.

- The students get promoted to the Second Year of ECE.
- The EEC gives a presentation to introduce the objectives and procedure of EEC.
- The students fill up an EEC data form in which they write about their interests and the skill set acquired (if any).
- It is followed by counseling and interview session of students by HOD and EEC Members.
- As per their interest, the students are segregated into IT Domain & EC Domain.
- After the required training is completely up to the 3rd year, the students are allocated major projects depending upon their selected domain and it is mandatory for them to do at least one publication.

A. IT Domain:-

1. After the segregation, the students under “IT Domain” are trained in different fields (Ex- C, C++, Python etc.) during the Second year.
2. Students are promoted to Third Year and again counseling session is conducted by HOD and EEC Member to ask whether the students want to pursue the same field or want to change.
3. If the students continue to the “IT domain”, they are trained in Advance Languages (Ex- JAVA, AI, ML etc.) during the third year.
4. At the end of 3rd year, the students are required to develop a project based on acquired skills.
5. Following are the target companies like TCS, Infosys, Wipro, Capgemini, Cognizant, IBM etc. for the IT domain.

B. EC Domain:-

If the student falls under “EC Domain”, then they are further classified into the following subdomains:

1. Microelectronics Domain (SOC based software field)
2. Devices Domain
3. Communication Domain
4. Applications Domain (Embedded and IoT)
5. Sales & Service Domain
6. Operation & Maintenance Domain
7. Public sector and higher education Domain

2.1.1 In-House Trainings

S. No.	Name of the Training	Domain	Industrial Partner
1	VLSI (FrontEnd & BackEnd)	Microelectronics	Truechip, Elbrus Labs
2	NI Innovation	Signal Processing	National Instruments
3	PLC & SCADA	Automation	Automation Engineers A.B Pvt. Ltd.
4	Embedded Systems & IoT	IoT & Robotics	MindTask
5	Antenna Design & Microwave	Communication	Optimum Viking Satcom (India) Pvt. Ltd.
6	Analog and Digital Electronics for 1st year students	Analog and Digital Electronics	Truechip, System Infra Pvt. Ltd

2.2 INDUSTRY ACADEMIA RELATIONSHIP CELL (IARC)

To build the gap between Industry and academia with the help of the following fields:-

- To prepare projects that are as per recent trends and technology
- To meet the requirements of the industry (Placement Support)
- MoUs with core companies
- Consultancy Projects
- To encourage new Start-ups and Entrepreneurship.

Webinar-Series on A pathway for preparing budding Engineers to unlock corporate world options

The Industrial Collaboration Cell of Department of Electronics & Communication Engineering at ABES Engineering College, Ghaziabad organized a Webinar-series (comprising of 15-Webinars) on the topic “A pathway for preparing budding Engineers to unlock corporate world options” from 19th May 2021 to 17/07/2021.

The Webinar-series was scheduled for the students of B.Tech Third year ECE. The above program was conducted by a group of Industrial professionals from the devices field, SOC based software field, IT field etc. These professionals represented various renowned groups such as Cadence, Capgemini, Cognizant, HCL, Infosys, TCS, NTT data, Truechip, Synopsis, Cisco, Tech Mahindra etc.

The prime objective of the Webinar-series includes:

- Discussion of company profiles, criteria for selection in a specific company.
- Discussion of guidelines/required technical skillset and written test preparation techniques/format.
- Detailing students regarding various techniques for company-centric interviews.
- Discussion of various job profiles offered by various companies and their relevance for ECE students.

The target audience developed an insight into the available career options and opportunities offered by the corporate world. Furthermore, the audience precisely understood the interview techniques and cracked various written tests of various companies.

Sr. No.	Date	Resource Person	Designation /Company
1	19/05/2021	Mr. Kunal Tyagi	Software Engineer, Capgemini
2	22/05/2021	Ms. Shivangi Arora	Sr. Academic Mentor, Extramarks Education India Pvt. Ltd.
3	29/05/2021	Ms. Shruti Singh	Data Analyst, Ernst & Young Global Limited
4	29/05/2021	Mohd. Imran Khan	Design Specialist Engineer, Infosys Limited.
5	12/06/2021	Mr. Divyansh Bhatt	Senior Software Developer, NTT Data Global Delivery service.
6	12/06/2021	Mr. Sparsh Jindal	Design Engineer, Truechip.
7	19/06/2021	Ms. Akanksha Yadav	Assistant System Engineer, TCS
8	19/06/2021	Mr. Shubham Kumar	Program Analyst Trainee, Cognizant Technology Solutions
9	26/06/2021	Mr. Ayush Dixit	SoC Modelling Engineer, Circuitsutra
10	26/06/2021	Mr. Bhargav Kaushik	Software Engineer, HCL Technologies.
11	03/07/2021	Mr. Kanchit Sharma	Software Engineer, Qualcomm.
12	03/07/2021	Mr. Prabhash Tiwari	Embedded Software Engineer, VVDN Technologies Pvt. Ltd.
13	10/07/2021	Mr. Prakhar Srivastava	Senior software Developer, Fiserv.
14	10/07/2021	Mr. Satyam Malik	Layout Engineer, Elbrus Labs Pvt. Ltd.
15	17/07/2021	Mr. Akshat Aggarwal	Associate Engineer, Nagarro.



Webinar-series "A pathway for preparing budding Engineers to unlock corporate world options"

2.3 ELECTRONICS DESIGN & CONSULTANCY (EDAC)

EDAC is a budding electronic consultancy group providing customized solutions to innovative thought processes obtained from Industry. We offer consultancy in the field of electronic designing, electromechanical system design & Industrial automation & Robotics.

Objectives:

- Design and development of products based on ideas received from Industries.
- Offering commercially viable solutions best suited for Industries in terms of cost, optimization and technological edge keeping in view various quality parameters.

Projects Delivered in 2020-21 under COE Optical, Antenna and Microwave Engineering Lab

S.No	Name of the project received	Client	Consultancy fee charged	Faculty/Staff Members Involved
1	Fabrication of Antenna Array	MJP Rohilkhand University, Uttar Pradesh	944/-	Coordinator & Mentor 1.Dr. Priyanka Bhardwaj 2. Dr. Manidipa Roy Core-Members 1.Mr. Navneet Sharma 2.Ms.Rakhi Kumari Staff-members 1.Mr.Raj Kumar 2.Mr.Amit Kumar
2	Design of Multiband Resonator Antenna using Dielectric Resonator	IP University, Delhi	4000/-	
3	Design of Multiband Antenna using DRA	IP University, Delhi	5000/-	

2.4 FUNDING

The purpose of the funding cell is to fetch projects from Industries, MSME, DST, AKTU and Government-funded projects. With the help of funding, different curriculum labs are modernized like communication lab, VLSI lab etc. and new advanced labs are developed like WSN, Wireless sensor network, RF and Microwave etc.

Recently Applied Projects

PROPOSALS SUBMITTED IN 2020-21 (Jan-June)						
S.No.	Date	Title	Funding Agency	Amount (INR)	PI	Co-PI
1	13.02.21	Smart home automation control by eye blinking signals and steady state visually evoked potential	DST CSRI	4087092	Prof. (Dr.) Sanjay Kumar Singh	Dr. Priyanka Bhardwaj Dr. Manidipa Roy
2	01.03.21	Monitoring and Mitigation of hazardous waste in biosphere	SERB SRG	1238154	Dr. Priyanka Bhardwaj	NIL
3	05.03.21	Recent trends in communication and networking with hands on NS 3 and Netlist	AICTE ATAL FDP	100000	Prof. (Dr.) Sanjay Kumar Singh	NIL
4	15.03.21	Vigyan mela for under privileged/ EWS children	DST NCSTC	1443000	Prof. (Dr.) Sanjay Kumar Singh	Dr. Priyanka Bhardwaj Dr. Manidipa Roy
5	15.03.21	Constitution of children's forum for scientific research and innovation	DST NCSTC	1992000	Prof. (Dr.) Sanjay Kumar Singh	Dr. Priyanka Bhardwaj Dr. Manidipa Roy
6	24.06.21	DCR for BIPV and BAPV	SERB SUPRA	28,00,000	Prof. (Dr.) Sanjay Kumar Singh	Dr. Priyanka Bhardwaj
		Total		1,16,60,246		



3. DEPARTMENT ACHIEVEMENTS

REQUIZA CLUB

➤ **Requiza** the Technical Society of Department of Electronics & Communication Engineering in association with the **Indian Society of Technical Education (ISTE)** successfully organized “**Buzz-In-1**” a Quiz Competition on 17th, 18th, and 19th June 2021 for the students of B.Tech of all Branches.

Total 97 papers have been published, submitted, or accepted in SCOPUS indexed journal, UGC indexed journal, National & International conferences from [B.Tech Final Year Projects](#).

4. STUDENT ACHIEVEMENTS

4.1 RESULT: -

- Final year student, **Aanchal Chauhan** (Session 2020 – 2021, Odd), secured **1st** rank having **9.04** SGPA in B-Tech (ECE) at the college level.
- Final year student, **Aditi** (Session 2020 – 2021, Odd), secured **2nd** rank having **8.96** SGPA in B-Tech (ECE) at the college level.
- Third year student, **Shristi** (Session 2019-2020, Odd), secured **1st** rank having **8.73** SGPA in B-Tech (ECE) at the college level.
- Third year student, **Pratibha Singh and Sanskriti Srivastava** jointly (Session 2019-2020, Odd), secured **2nd** rank having **8.68** SGPA in B-Tech (ECE) at the college level.
- Second year student, **Sakshi Gupta** (Session 2019-2020, Odd), secured **1st** rank having **9.18** SGPA in B-Tech (ECE) at the college level.
- Second year student, **Devanshi Chauhan** (Session 2019-2020, Odd), secured **2nd** rank having **9.0** SGPA in B-Tech (ECE) at the college level.

4.2 ACHIEVERS: -

- Shivangi Aggarwal of 2018-22 batch had achieved 5 Star in Python in Hackerrank.
- Shivangi Aggarwal of 2018-22 batch has completed practical task modules in: Crack Leaked Password Database under Engineering Virtual Program of Forage from June –July 2021.
- Shivangi Aggarwal of 2018-22 batch has completed a Machine Learning Workshop from Coding Blocks.
- Shivam Srivastava of 2018-22 batch has completed a Short-Term Course on “Data Analytics and Predictive Technologies” organized by I-DAPT HUB Foundation, IIT (BHU), Varanasi during 5th to 10th July 2021.
- Shivam Srivastava of 2018-22 batch has completed practical task modules in: Crack Leaked Password Database under Engineering Virtual Program of Forage from June –July 2021.
- Utkarsh Goel of 2019-23 batch has secured 37th rank in Technical Writing Event of Geeks for Geeks.
- Aditya Saxena of 2018-22 batch has successfully completed Certification Course on Artificial Intelligence+ Machine Learning from IIT Kanpur.



5. FACULTY ACHIEVEMENTS

5.1 PhD AWARDED:-

- Dr. Manish Zadoo: Completed his Ph.D. Degree from Faculty of Engineering & Technology, Mewar University Gangrar Chittorgarh, Rajasthan. His Thesis Title is Microstrip Filter Design Using Periodic Defects in Microstrip Circuits.
- Dr. Manidipa Roy: Completed her Ph.D. Degree from Guru Gobind Singh Indraprastha University, New Delhi. Her Thesis Title is Some investigations on techniques to suppress surface wave propagation in circularly polarized microstrip patch antenna.
- Dr. Devvrat Tyagi: Completed his Ph.D. Degree from NERIST, Arunachal Pradesh. His Thesis Title is Design and Development of Classifiers for Detection and Identification of Quality ECG Signals.
- Dr. Ashish Gupta: Completed his Ph.D. Degree from NERIST, Arunachal Pradesh. His Thesis Title is A Novel Design and Performance Analysis of IoT Based Intelligent Sensor Node for Intensive Care Unit Using Labview.

5.2 CERTIFICATIONS (NPTEL, COURSERA etc.):-

- Dr. Raman Kapoor: Completed Certification course on Introduction to VHDL (Udemy) on 13th May 2021

5.3 RESOURCE PERSON:-

- Dr. Priyanka Bhardwaj: Served as a Resource Person for the FDP on Emerging Trends in Electronics and Communication Engineering at BVCOE, New Delhi from 12th to 16th July 2021.
- Dr. Raman Kapoor: Served as a Resource Person for the FDP on Analysis of CMOS Integrated Circuit organized by the Department of Electronics and Communication Engineering, Chitkara University, Punjab from 26th to 30th August 2020.

5.4 STAFF DEVELOPMENT PROGRAM (SDPS) ATTENDED: -

- Mr. Hitesh Tomar: Attended 5 days SDP on Fundamental of Corel DRAW at ME Department of ABES Engineering College from 22nd to 26th February 2021.
- Mr. Pramendra Singh: Attended 5 days SDP on Office, Excel and online so far handling from 1st to 5th February 2021.
- Mr. Pramendra Singh: Attended 4 days SDP on Circuit Theory to Practical Solution Lab with Multisim from 8th to 11th February 2021.
- Mr. Pramendra Singh: Attended 5 days SDP on Fundamental of Corel DRAW at ME Department of ABES Engineering College from 22nd to 26th February 2021.

5.5 FDPS & WORKSHOPS ATTENDED OUTSIDE ABES: -

- Mr. Deepak Garg: Attended one-week FDP on WSN & IoT at Sharda university Greater Noida from 18th to 22nd January 2021.
- Dr. Himani Garg: Attended one-week FDP on AICTE Training and Learning (ATAL) Academy Internet of Things (IoT) at Amal Jyothi College of Engineering, Koovappally, Kerala, from 11th to 15th January 2021.
- Dr. Himani Garg: Attended one-week FDP on Research confront and document Typesetting using Latex 202X at ABESIT, Ghaziabad, from 25th January to 1st February 2021.
- Dr. Priyanka Bhardwaj: Attended one-week FDP on Emerging trends and research challenges in a next-generation wireless network at Kongunadu College of Engineering and Technology, from 22nd to 27th February 2021.
- Dr. Priyanka Bhardwaj: Attended one-week FDP on Emerging trends and challenges in VLSI mixed-signal processing for fourth industrial revolution- Phase III at Kongunadu College of Engineering and Technology, Trichy from 22nd to 27th April 2021.
- Dr. Priyanka Bhardwaj: Attended one-week FDP on Emerging trends in Electronics and Communication Engineering at Bharati Vidyapeeth's College of Engineering, New Delhi from 12th to 16th July 2021.
- Dr. Manish Zadoo: Attended 5 days FDP on Green Technology & Sustainability Engineering at GBU, Greater Noida, from 19th to 23rd January 2021.
- Mr. Ajay Suri: Attended one-week FDP on Research confront and document Typesetting using Latex 202X at ABESIT, Ghaziabad, from 11th to 16th January 2021.
- Mr. Ajay Suri: Attended 5 days FDP on Green Technology & Sustainability Engineering at GBU, Greater Noida, from 19th to 23rd January 2021.
- Ms. Ranjeeta Yadav: Attended one-week FDP on AICTE Training and Learning (ATAL) Academy Online FDP on IoT and Robotics at KIET Group of Institutions, Ghaziabad, UP, India, from 21st to 25th June 2021.
- Ms. Rakhi kumari: Attended one-week FDP on AICTE Training and Learning (ATAL) Academy Internet of Things (IoT) at Amal Jyothi College of Engineering, Koovappally, Kerala, from 11th to 15th January 2021.
- Ms. Rakhi kumari: Attended one-week FDP on Research confront and document Typesetting using Latex 202X at ABESIT, Ghaziabad, from 25th January to 1st February 2021.
- Ms. Tania Gupta: Attended one-week FDP on AICTE Training and Learning (ATAL) Academy Online FDP on Internet of Things (IoT) at KLE DR. M. S. Sheshgiri College of Engineering & Technology Belagavi, from 1st to 5th February 2021.
- Ms. Tania Gupta: Attended one-week FDP on AICTE Training and Learning (ATAL) Academy Online FDP on Data Sciences at Kongunadu College of Engineering and Technology, Trichy from 25th to 29th January 2021.
- Mr. Shahbaz Alam: Attended 5 days FDP on Advances in renewable energy & smart grid integration at Amity University, Noida, from 31st May to 4th June 2021.
- Ms. Surekha: Attended one-week FDP on Wireless sensor Networks & IoT at Sharda university Greater Noida from 18th to 22nd January 2021.
- Ms. Surekha: Attended 2 days FDP on ICT tools in learning and skill development at S Polytechnic College, Udaipur, from 26th to 27th May 2021.
- Ms. Khushbu Bansal: Attended one-week FDP on Wireless sensor Networks & IoT at Sharda university Greater Noida from 18th to 22nd January 2021.

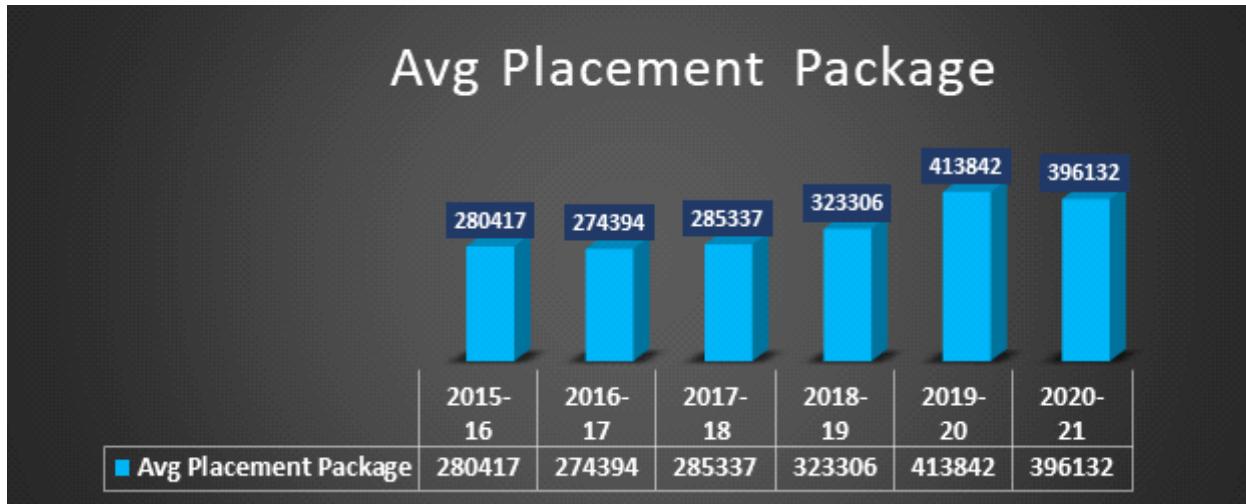
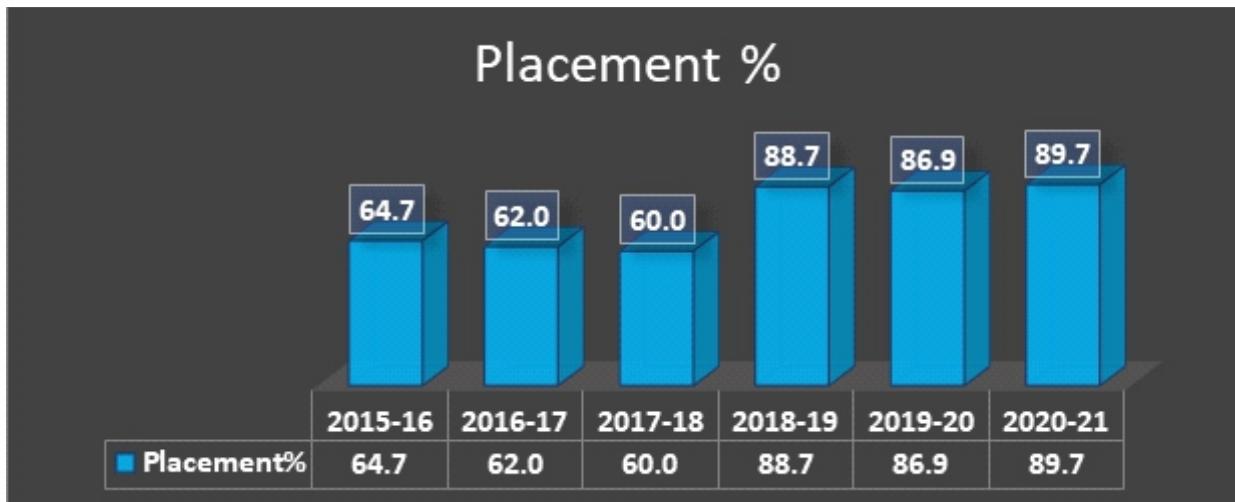
- Ms. Khushbu Bansal: Attended one-week FDP on AICTE Training and Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" at Mizoram University from 1st to 5th February 2021.
- Ms. Khushbu Bansal: Attended one-week FDP on AICTE Training and Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" at the University of Hyderabad from 8th to 12th February 2021.
- Ms. Khushbu Bansal: Attended two-week FDP on Emerging Trends and Challenges in VLSI Mixed-Signal Processing for Fourth Industrial Revolution at Kongunadu
- College of Engineering and Technology, Trichy from 8th to 20th February 2021.
- Ms. Khushbu Bansal: Attended one-week FDP on Emerging Trends and Research Challenges in Next Generation Wireless Networks at Kongunadu College of Engineering and Technology, Trichy, from 29th March to 3rd April 2021.
- Ms. Khushbu Bansal: Attended two-week FDP on FDP on System Design Methodologies for Embedded, IoT, AI, & HPC using Intel FPGA at Electronics & ICT Academy Supported by Ministry of Electronics and Information Technology (MeitY), Govt. of India Indian Institute of Technology Guwahati, from 19th to 30th April 2021.
- Dr. Ashish Gupta: Attended 5 days FDP on Internet of Things and Applications in 5G at Easwari Engineering College, Tamil Nadu, from 5th to 10th January 2021.
- Dr. Ashish Gupta: Attended one-week FDP on Research confront and document Typesetting using Latex 202X at ABESIT, Ghaziabad, from 25th January to 1st February 2021.
- Mr. Manish: Attended one-week FDP on Geoinformatics and web technologies at ATAL FDP, at Banasthali vidyapith, from 18th to 22nd May 2021.
- Mr. Manish: Attended one-week FDP on BIM Using REVIT at APSSDC, Andhra Pradesh, from 24th to 29th May 2021.
- Mr. Manish: Attended one-week FDP on IoT and Robotics at ATAL FDP, at KIET, Ghaziabad, from 21st to 26th June 2021.
- Ms. Upasana Sharma: Attended one-week e-Workshop on Advanced MATLAB and its Application (ADMAT-21) at IIIT kota, from 2nd to 7th February 2021
- Ms. Pallavie Tyagi: Attended two-week FDP on System Design Methodologies for Embedded, IoT, AI, & HPC using Intel FPGA at Electronics & ICT Academy Supported by Ministry of Electronics and Information Technology (MeitY), Govt. of India Indian Institute of Technology Guwahati from 19th to 30th April 2021.
- Ms. Pallavie Tyagi: Attended one-week FDP on Wireless Sensor Network and IoT at sharda university Greater Noida from 18th to 22nd January 2021
- Ms. Pallavie Tyagi: Attended one-week FDP on AICTE Training and Learning (ATAL) Academy Online FDP on Internet of Things (IoT) at Knowledge Institute of Technology, Tamilnadu from 1st to 5th February 2021.
- Ms. Pallavie Tyagi: Attended a two-week Workshop on Emerging Trends and Challenges in VLSI Mixed-Signal Processing for Fourth Industrial Revolution at Kongunadu College of Engineering and Technology, Trichy from 8th to 20th February 2021.
- Ms. Pallavie Tyagi: Attended 3 days' Workshop on CeNSE DBT Nano-biotechnology

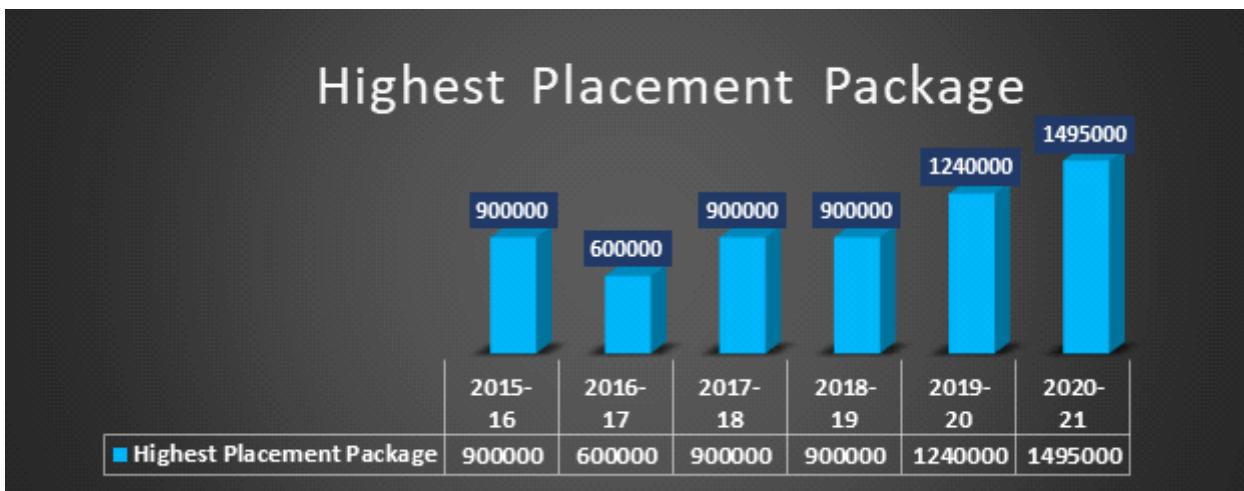


6. PLACEMENT

The Initiatives are taken by the Department to improve Placement Statistics are:

- Students are being encouraged as well as monitored by their respective mentors to submit their resumes on the “Career” options on the website of core companies of the ECE domain.
- Final year students are being encouraged to create LinkedIn accounts so that they may connect to the people of their domain.
- Motivate the students about Recruiters and educate them about the work culture, domain and skill set required for such type of company.
- Preparing, updating, and regularly tracking of students with the help of Placement Tracker, formulated and devised in the department to keep the students on track of placement and getting reviews and feedback about every drive.
- Arranging Mentor-Mentee sessions for final year students to improve the resumes and overcome their technical, verbal and communication skills.
- Arrangement of company-specific technical and aptitude training for shortlisted students in association with SEEP and CBSE.
- Interaction of pre-final year students with already placed students for motivation and briefing.





Department Placement Initiative

The Department's target is to have 100% placement but due to some reasons there remain some unplaced students. To cover this unplaced student's gap, the dept. has initiated by its own to place the unplaced students through its own linkages. This step will help the unplaced students to get the Placement.



7. TESTIMONIALS OF PLACED STUDENT

PREETI ANAND

It was a great experience studying at ABES Engineering College, a memory to cherish for a lifetime. My experience at ABES was full of learning and grooming. It gave me an opportunity to meet different kinds of people from around the world and learned many things from them. I am thankful to all the faculty, mentors, and the entire ECE department for providing us with quality education. I am also grateful to CCPD cell for organising placements in this pandemic and helping me to get placed in Contata Solutions. Overall, it was a great experience and lifetime memory at ABES. If you want to make a career in ECE I would highly recommend you join ABES Engineering College



KASHIKA GARG

I am placed in Infosys Ltd. at 3.6lpa as a System Engineer, Capgemini at 3.8lpa as a Software Engineer, Tata Consultancy Services at 3.97 LPA as a Software Engineer, HCL at 2.6lpa as a Software Engineer

Currently, I am working in Infosys as a System Engineer and I want to give a big thanks to all faculties, mentors, and all ECE departments, CCPD cell of my college for helping us a lot in placement and for guiding us. My four years journey at ABES Engineering College can't be described in some words, they were truly amazing, and I will never forget that time in my lifetime. My college helped me in each aspect to groom myself and made me believe in myself that I can achieve everything what I have dreamt for. If you want to make a career in ECE I would highly recommend you join ABES Engineering College.



NISHTHA GHAI

Placed at Infosys Ltd. at 3.6 LPA as System Engineer, Wipro at 3.5 LPA as Project Engineer, currently working as System Engineer in Infosys. It was truly a great experience of 4 years studying at ABES Engineering College, one of the most renowned colleges. It gave me several opportunities to improve myself whether it is in the field of learning or grooming. I am thankful to all the faculty, my mentors, and the entire ECE Department who helped me at each step to achieve what I have achieved today. Really thankful to our CCPD cell for the placement drives they organised, they were truly very helpful. It will be great, and I will highly recommend you start your career at ABES Engineering College.



NITIKA SHARMA

I cherish the moments spent under the guidance of eminent faculty members and my dear friends. Thank you for helping me shape my career. Despite being involved in many other activities like being a sports captain I was still able to score good marks in my academics and got placed in renowned companies this all happened due to the support of faculty members.



LEOUS GEORGE

I am so happy to be a part of an Institution that feels like a family. They have pushed me to achieve whatever I wanted to. Without people like them, my dreams would have remained dreams. I'm thankful for their love and support. I was able to get success in both academics and sports. Due to their support only, I was able to achieve medals in various football tournaments and got placed in a very renowned company.

DIVYA MISHRA

At present, I am working in Capgemini as a Software Engineer, and I am very delighted to share my experience as every day I get to learn new services and technologies which lead to an increment in my career profile graph. For this, I would like to thank the ECE department and CCPD department as my bachelor's degree at ABES Engineering College in the ECE branch consisted of much projects-based evaluation and faculty connections.

The mentors helped me to enhance my academic and interpersonal skills through various training. Also, Employability Enhancement Cell (EEC) and Industry-Academia Relationship Cell (IARC) have put in all the efforts to groom us and make us corporate professionals. It was a wonderful experience.



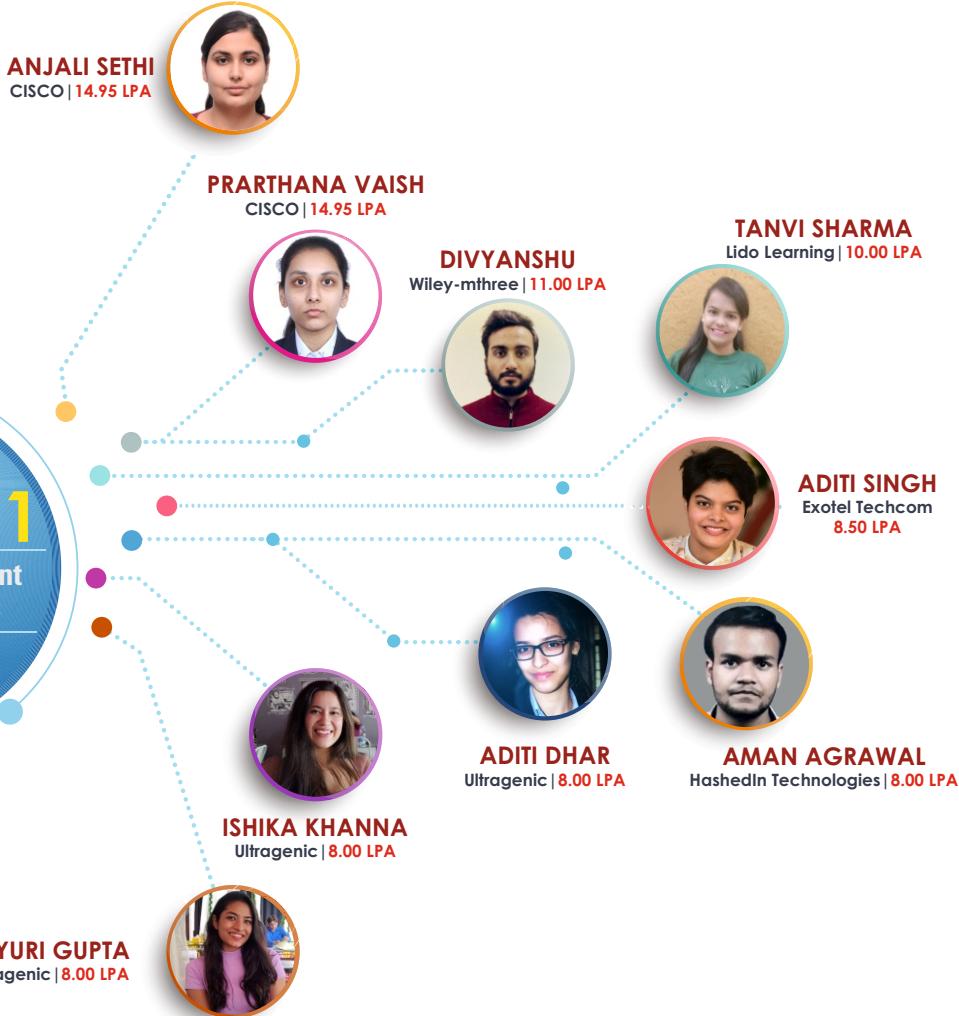
PRANAVI YADAV

(Tata Consultancy Services as Assistant System Engineer at 3.36 LPA and Fiserv as Software Engineer at 2.9LPA)

The foundation of my career was laid at ABES Engineering College. Four years of B. Tech were challenging and made me stronger as a person. The switch from a student phase to the corporate world was not easy but fun. I'm elated to be a part of this great institution. I owe my success to my hard work, my parent's constant boost, consistent efforts, and guidance of the faculties, ECE department and the placement cell.

2021

ECE Placement Highlights



TOP Recruiters



TEAM MEMBERS

Chief Patron
Sh. Neeraj Goel
President, ABESEC

Editor & Compiler
Ms. Ranjeeta Yadav
Asst. Prof., ECE Dept.

Sh. Sachin Goel
Vice President, ABESEC

Reviewer
Ms. Tania Gupta
Ms. Rakhi Kumari
Ms. Geetanjali Raj

Patrons

Prof. (Dr.) Sanjay Kumar Singh
Director (Officiating) & HOD-ECE

Student Co-ordinators
Ms. Devanshi Chauhan
Ms. Vritti Mehrotra
Ms. Shivangi Singh
Ms. Abha Tiwari

ABES Engineering College
19th Km Stone, NH-09, Ghaziabad - 201009 (UP)
Phone: 0120 713 5112 Fax: 01207135115 Mob: 9999889341
Email: info@abes.ac.in | www.abes.ac.in