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ABES
Engineering College
College Code 032

INSPERIA
A Bi-annual Newsletter

Department of Computer Science & Engineering



AUG. 2023 – JAN. 2024
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Message from Director's Desk



“Our every action is focused on creating an ambiance suitable for fostering quality education”.

Engineering and professional education are among the key enablers of growth for transforming the national as well as the global economy. As we continue to strive for academic excellence in engineering and management education, through innovative techniques, ABES Engineering College is being preferred as the destination for students from across the country.

Equipped with many '**Centers of Excellence**', the college encourages its students to participate in a creative exploration of knowledge involving hands-on activities, which provide 'learning by doing', an environment far different from exam-centric rote learning. We are making our best efforts to keep in pace with fast-emerging technologies so that we are in a position to prepare our students for the industry as well as for entrepreneurship. Accordingly, the entire academic processes and echo system are being aligned with the outcome-based education (OBE) system which has become the hallmark of the teaching-learning platform in ABESec.

Each of our action is meticulously planned and is focused on creating an ambiance suitable for fostering quality education along with research & development activities. The testimony to this is the quality certification of the college by NAAC, NBA, and ranking by NIRF.

We are looking forward to developing in each of our faculty, staff, and student, the ability and passion to work wisely, creatively and, effectively for the betterment of mankind.

Prof. (Dr.) Sanjay Kr. Singh

Message from HOD's Desk

“Today's cutting-edge technology becomes a legacy solution in a couple of years in the current technological environment. The only way out conundrum is a persistent endeavour to upgrade one skill set and domain expertise. In this passion for achieving excellence, the CSE department is determined to empower students to become invaluable assets for any organization.”

A warm and affectionate welcome from Computer Science & Engineering Department!!!

Established in the year 2000, CSE Department has been growing in all dimensions. The department has excellent and diverse faculty with research and education expertise in the traditional and emerging computer science and engineering fields. Taking academics on priority, the blended learning environment is established through which students are engaged in a continuous learning environment.

Examination and assessments are the parameters through which the learning can be tested, and it has been on top among all the affiliated institutions of Dr. APJ AKTU. Students are offered various training programs along with academics that enable them to be industry-ready. Students are given the environment to excel in their competitive Coding skills through various societies and competitions. Students are active learners of various coding platforms like Code chef, Code forces, Leet Code, interview bit, Geeks for Geeks, etc. Huge numbers of students do take part in reputed Coding competitions across the globe such ACM ICPC, Google Code Jam, Google Kick Start, Hack with Infy, TCS Codevita, etc.



Prof. (Dr.) Divya Mishra

Message from Editorial Team



Ms. Aditi
Arora



Ms. Shweta
Roy



Ms. Babli
Kumari

Readers of the newsletter include alumni, faculty, staff, students, parents, and other friends of the institute. The uniqueness of its idea, the caliber of its writing and visuals, its dedication to authenticity, civil conversation and editorial balance. This issue covers the prominent activities of our CSE department.

Here again, the CSE Department Newsletter of ABESec comes in versatile colors. The goal of this newsletter is to share with you all the literary and artistic side of the CSE Department of the ABESec family. It is being published twice a year. The main goal of the newsletter is to provide an intimate, current, and honest portrait of the Department, including its people, activities, placements, resources, and mission.

Assistant Professor, CSE

VISION

The Department of Computer Science & Engineering will strive to become an excellent center for research and innovation in various knowledge domains within computer science and between computer science and other disciplines with focus on empowering human potential to deliver service to science and society.

MISSION

To nurture an excellent learning environment and creating opportunities for an individual to emerge as a technocrat who will be able to analyze complex engineering problems in society and provide innovative and fair solutions applying the knowledge of contemporary technologies and tools for the ease of its social acceptance at large.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO 1: To impart strong foundation in basic sciences, mathematics and engineering fundamentals, knowledge and capability.

PEO 2: To be able to comprehend, understand and analyze Computer Science and Engineering problems and relate them with real life.

PEO 3: To provide in depth knowledge to design and develop novel products and innovative solution for real life problems in Computer Science and Engineering field and related domains.

PEO 4: To inculcate a conviction to believe in self, impart professional and ethical attitude, nurture to be an effective team member, infuse leadership qualities, build proficiency in soft skills and the abilities to relate engineering with the social issues.

PEO 5: To impart exhaustive knowledge of Computer Science & Engineering to take up key assignments in industry, undertake and excel in higher studies and Research & Development in computer science, related engineering fields and management.

PROGRAM OUTCOMES (POS)

Engineering Graduates will be able to:

PO 1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2: 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.

PO 3: 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.

PO 4: 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.

PO 5: 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.

PO 6: 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.

PO 7: 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.

PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: 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.

PO 11: 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.

PO 12: 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.

PROGRAM SPECIFIC OUTCOMES (PSOS)

PSO 1: The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.

PSO 2: The ability to understand the evolutionary changes in computing, apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success, real world problems and meet the challenges of the future.

PSO 3: The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, lifelong learning and a zest for higher studies and also to act as a good citizen by inculcating in them moral values & ethics.

WORKSHOPS & GUEST LECTURES

"HackHaven: A 12-hour hackathon"

Date: 8 July 2023

Participants: CSE+ Google Developer Student Clubs ABESEC

Coordinators: Ms. Malvika Gupta and Ms. Babli Kumari, Assistant Professors, CSE

TSDP-2023

Date: 13 July 2023-19 July 2023

Speaker's Name: Ms. Riya Ranjan (Cloud Engineer, Software Developer in ShapeMySkills)

Coordinators: Event Coordinator: Dr. Anil Kumar Dubey, Dr. Rohit Rastogi; Associate Professors, CSE. Event

Coordinator Team Member: Ms. Ayushi Agarwal, Assistant Professor, CSE

Session on "Angel Investment/VC Funding Opportunity for Early-Stage Entrepreneurs"

Date: 24 Aug 2023

Speaker's Name: Ms. Anika Raja, AVP at We Founder Circle, along with Mr. Mahendra K. Gupta, CEO of Innure Incubation Foundation (INIF)

Participants: CSE+ IIC

Coordinators: Dr. Anil Kumar Dubey, Prog. Coordinator along with Dr. Kadambari Agarwal, Ms. Sandhya Awasthi and Ms. Babli Kumari (CSE)

Session for awareness about "the ACM ICPC Contest"

Date: 27 Sep 2023

Speaker's Name: Mr. Rachit Chaudhary (B.Tech 4th Year CSE, Contestant of Asia Pacific Continent Round of ICPC), Mr. Milind Gupta (Alumni CSE, Contestant of Asia Pacific Continent Round of ICPC)

Participants: CSE Students

Coordinators: Mr. Akhilesh Kumar Srivastava

Tech Talk "Innovare(Tech Connect)"

Date: 5 Dec 2023

Speaker's Name: Piyush Khurana (Software Engineer at Rapipay), Nitin Kumar (Software Engineer & Entrepreneur, Co-founder Zealot Games), Prashant Rai (Co-founder of Technocrats, mentor for NASA Space Apps Challenge 2023, and MERN Stack Web Developer)

Participants: GDSC Club of CSE Dept. ABESEC X Technocrats

Coordinators: Ms. Malvika and Ms. Shweta

Alumni Interaction "Exploring Global Horizons:Navigating the Landscape of International Admissions Studies

Date: 23 Jan 2024

Speaker's Name: Naman Kumar (Alumni, Batch 2019-2023)

Coordinators: Mr. Devendra Kumar Mishra, Assistant Professor, Event Co-Coordinator: Dr. Anil Kr. Dubey, Associate Professor, CSE

Women Entrepreneurship Development Program" in Online Mode

Date: 5-22 Feb 2024

Sponsored By: NSTEDB, Department of Science & Technology, Govt. of India.

Participants: INurture Incubation Foundation & CSE

Coordinators: Mr. Mahendra Kumar Gupta, CEO INurture Incubation Foundation, Prof. (Dr.) Divya Mishra, HOD- CSE

FACULTY CORNER

Faculty Publications & Patents

CSE Faculty has been excelling in publishing quality research work. Brief summary is provided below:

No of patents published: 13

No of Scopus /SCI papers accepted and published only: 2

Student paper Accepted/Published: 20

Book Chapter (Scopus): 11

Books (Scopus): 4

Research Excellence Award Felicitation Ceremony

On 6th December, 2023, Faculty members of CSE Dept. got felicitated for their excellence in research on the occasion of "Research Excellence Award Felicitation Ceremony", in the auspicious presence of the core dignitaries of ABES EC: Honourable Vice President, ABESEC, Sh. Sachin Goel ji, Honorable Joint Secretary, ABESEC and Director INIF, Sh. Shashwat Goel ji, Director Prof. (Dr.) Sanjay Kumar Singh ji.



Felicitations of Training Team CSE

CSE Faculty members : Dr. Ayushi Prakash, Dr. Anil Dubey, Mr. Akhilesh Kumar Srivastava, Mr. Ravi Kumar, Ms. Medha Malik, Ms. Indu Malik, Ms. Malvika Gupta, Ms. Shanu Sharma, Dr. Shruti Gupta, Ms. Babli Baliyan, Ms. Shweta Singh, Ms. Ayushi Agarwal were felicitated by Honorable HOD ma'am for demonstrating exceptional commitment and proficiency in providing training to students for better placement opportunities and motivating other faculty members to be the part of training team.



CSE Faculty as Session Chairs in ICSEIET 2023

HoD-CSE, Prof. (Dr.) Divya Mishra along with Sr. Faculty members of Dept. Of CSE, Dr. Rohit Rastogi, Dr. Anil Kumar Dubey, and Dr. Kadambri Agarwal acted as Session Chairs and were honored in different Tracks in 1st International Conference on Sustainable Emerging Innovations in Engineering and Technology (ICSEIET 2023) held on 14 and 15 Sept. 2023 organized by Dept. Of Electronics & Communication Engineering at ABES Engineering College, Ghaziabad.



Samsung Training Program, Phase 1 Batch-2

Computer Science and Engineering Department have successfully completed the Samsung Training Program, Phase 1 Batch-2 (Duration: Aug. 2023 to Dec 2023) under Industry Outreach Program (as we have signed the MoU with Samsung Display, Noida).

This training program is the outcome of the MOU signed between ABES Engineering College, GZB and Samsung Display, Noida in November 2022.

The Objective of this MOU was to create industrial readiness and encourage growth in upcoming discoveries and applications. These industry outreach programs connect and works in collaboration with leaders in academia and industry.

For the ceremony, participants from Samsung Display, Noida, Honorable Vice President, ABESEC, Shri. Sachin Goel sir, Respected HOD-CSE and SPOC for this training program Prof. (Dr.) Divya Mishra Ma'am, Respected HOD-CS, Prof. (Dr.) Pankaj Kr. Sharma sir and Respected Dean training & HOD-IT Prof. (Dr.) Amit Sinha sir graced the occasion with their august presence and presented certificated to all the participants from Samsung Display, Noida. Assistant Professor, Senior Scale, Mr. Dhaneshwar Kumar sir from Computer Science Department also graced the event, with his presence as he is the resource person for this training phase for providing sessions on C-Sharp.

Ms. Ayushi Agarwal and Ms. Harsiddhi Singhdev, Assistant Professors, CSE; had coordinated the event. Roopit Aryaman and Utkarshi Yadav, Students from CSE 2nd Year, had contributed as student volunteers.



ATAL FDP on “Healthcare Data Analysis using python and R Language”

Computer Science & Engineering Department of ABESEC had successfully organized the ATAL FDP program on “Healthcare Data Analysis using python and R Language” from 09th October, 2023 to 13th October, 2023.

As any knowledge is incomplete with the practical implementation, So to visualize this by viewing the practical working of theory, the Department had organized a official visit to the AICTE Idea Lab of ABESEC, at Vishwakarma Block first floor, which is the incubator center of ABESEC. There Mr. Mahendra and his team gave us the tour of AICTE Idea Lab. With this, the five days knowledge sharing sessions came to its final closing with a Industrial visit.



Funding For patent from AICTE under KAPILA scheme

Ms. Indu Malik, Assistant Professor, CSE have received funding from AICTE under KAPILA scheme for the following two patents with a vision of strengthening our IPR.

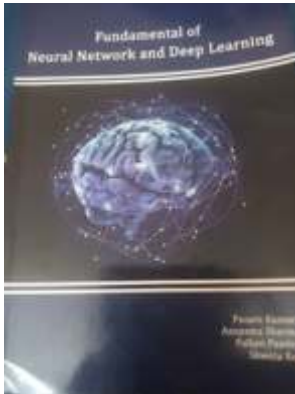
1. A SMART BUTTON TO ASSIST THE SOLDIER DURING A SNOW BLIZZARD (KAPILA-IN6084) of CSE department. Ms. INDU MALIK

2. INTELLIGENT HIGHWAY SPLITTER WITH AIR PRESSURE TO AVOID ACCIDENTS (KAPILA-IN6087) of CSE department. Ms. INDU MALIK and Md. Owaish (CSE Second year student).



Teachers' Excellence Award from Government of NCT

Ms. Madhavi Gaur, Assistant Professor, CSE, ABSEEC, is awarded with Teachers' Excellence Award from Government of NCT.



Book Publication

Ms. Shweta Roy, Senior Assistant Professor, CSE, has successfully achieved the publishing of a book on the topic, " Fundamental of Neural Network and Deep Learning " under Book Rivers (We Create Readers) Publishers.

UBA Proposal

UBA proposal is accepted from our CSE Dept. submitted by Ms. Shivani Trivedi, Assistant Professor, CSE, ABES EC.

From ABES EC 15 proposals were submitted from different departments and in various domains.

In Agriculture domain, Hundreds of Proposal were submitted under UBA Sustainable Agriculture Systems. From all over the India 42 Projects Proposal were selected.

Ms. Shivani proposal "Empowering Farmers with Voice Driven Agriculture", is only selected out of all proposal submitted from ABES EC at National level for presentation to grant for fund at IARI-Delhi, An UBA -SEG for IIT-Delhi.

Under Guidance of:

Coordinator and UBA Nodal officer, Dr. Rohit Rastogi & HoD-CSE, Prof. (Dr.) Divya Mishra



Appreciation Award

Faculty member of CSE Department, Mr. Akhilesh Kumar Srivastava, has received an Appreciation Award by Ghaziabad Chitragupta Sabha, for providing free education through You Tube. Sir has created total 445 Videos on You Tube on various topics related to Computer Science Engineering till now.



STUDENT CORNER

CSE Alumni student from the Batch (2019- 2023), Mr. Kaushlendra Gupta, (AKTU ROLL NO- 1900320100074), got placement in Bharat Electronics Limited, as 'Trainee Engineer-I' for Central Research Laboratory (CRL Ghaziabad).



CodeChef Event

CodeChef Chapter of ABESEC successfully organized an efficacious event called Clash of Coders 2.0 on December 21, 2023, a team coding contest that provides a platform for the participants to test their coding knowledge, problem-solving skills, and teamwork abilities in a competitive environment. The target audience of this event were first, second- and third-year students of all branches.

Winners of Clash of Coders 2.0

1st Year: Utkarsh Saxena, Ashish Singh, Vidhan Gandhi, Vidhi Gandhi

2nd Year: Sanjeev Kumar Singh, Suyash Singh, Shivam, Ayush Negi

3rd Year: Himanshu Singh, Muhammad Shahjahan, Lakshya Somvanshi, Harsh Pandey



Tech extravaganza, "PULL 'N' MERGE"

Tech extravaganza, "PULL 'N' MERGE" was organized by The Department of Computer Science and Engineering in collaboration with CodeChef ABESEC Chapter and GeeksforGeeks ABESEC Chapter on October 10, 2023, at Seminar Hall 1, Raman Block.

Objective:

The mission was to unravel the mysteries of GitHub and Git while riding the wave of the legendary 'Hacktoberfest.' This initiative was designed to kindle the passion for open-source contributions of the students.

About the Speakers:

The lesson was initiated with a captivating presentation on OPEN-SOURCE PLATFORMS, which was delivered by Amrit Anand (Content Lead @CodeChef ABESEC). Students were given a quick Git setup tutorial and provided with a hands-on experience, allowing Git repositories and projects to be tinkered with.

The event was graced by the presence of our keynote speaker, Vandit Singh (GSOC Contributor @Jenkins & President of GFG ABESEC). Vandit effortlessly demystified Git and GitHub, covering everything from the basics to the most advanced Git commands. The presentation was spiced with tech humor, leaving all of us feeling inspired.

Attendee Demographics : Approximately 150+ participants attended the event.



Smart India Hackathon 2023

CSE Students participated in Smart India Hackathon 2023 held on 19th and 20th December, 2023 at Shobhit University, Meerut. A total of 32 teams from all over India participated. Punjab government gave a problem statement. The student did continuous coding for 36 hours. Our team name **"Knowledge Crafters"** with Team Lead **Somya Gupta** along with team members: **Shivansh Srivastava, Shashank Mishra, Saurabh Tiwari, Shivam Jha, Sandeep Yadav** got prize of 10,000 under the mentorship of Ms. Shweta Roy, Assistant Professor, CSE.



Innovare (Tech Connect)

The GDSC Club of CSE Dept. ABESEC X Technocrats successfully conducted Innovare (Tech Connect), an enlightening tech talk designed to elevate your skills and knowledge in the world of technology!, held at the ABES Auditorium on December 5th, 2023.

SPEAKERS:

Piyush Khurana (Software Engineer at Rapipay), Nitin Kumar (Software Engineer & Entrepreneur, Co-founder Zealot Games), Prashant Rai (Co-founder of Technocrats, mentor for NASA Space Apps Challenge 2023, and MERN Stack Web Developer)

TOPICS:

- Web Dev, Android Dev, Product Development, Job Opportunities
- AR/VR, Game Development, Entrepreneurship
- Community Relations, Hackathons, Web Dev, and Internships

The event offered invaluable insights, fostering connections among tech enthusiasts.



Participated in Idea Manthan 2.0

Our third-year students, Prabhinav Mishra (CSE III year) and Mohd Zaid Quamar (CSE III year) had participated in Idea Manthan 2.0 in Chandigarh, under the Mentorship of Dr. Rohit Rastogi sir and the guidance of Prof. (Dr.) Divya Mishra, ma'am HOD-CSE.



Placements

Parameters	Session 2022-23
Placement Percentage	100%
Highest Salary	52,00,000.00
Median Salary	5,00,000.00
Average Salary	6,67,701.00

Top Recruiters



Industry Connects

Details of MOU's

Memorandum of Understanding (MoU) has been signed between Dept. of CSE of ABES Engineering College, Ghaziabad, and ISDC (International Skill Development Corporation)", Bengaluru, Karnataka - 560052 ("ISDC") on 20-11-2023.

The MoU was signed and delivered on behalf of ABES Engineering College by Prof. (Dr.) Divya Mishra, HoD-CSE in the presence of Ms. Babli Balyan, Coordinator of MoU, Department of Computer Science & Engineering with Ms. Babita Poojary, Zonal Sales Manager and Mr. Abhishek Paliwal, Business Development Manager, North Zone, ISDC, Bengaluru.





Testimonials



Sagar Varshney (2019-23)

My college journey was an exhilarating adventure, brimming with growth, friendships, and invaluable experiences. From day one, I felt a profound sense of belonging, buoyed by educators who transcended their roles to become cherished mentors, guiding me through challenges and igniting my thirst for knowledge. Beyond the confines of academia, college life was a tapestry of vibrant clubs and events, where I forged enduring bonds and created memories to last a lifetime.

As I fondly reminisce about my time, having graduated and secured a position at Nucleus Software, where I am currently thriving and finding genuine fulfillment in my role, I am profoundly grateful for the unwavering support and encouragement from the entire college community. With boundless gratitude and an optimistic outlook, I eagerly embrace the next chapter of my journey, knowing that the values instilled in me by my alma mater will continue to guide my path.

Priyanshu Kashyap (CSE 4th Year)

Reflecting on my college odyssey, I'm transported to a realm where every challenge was an opportunity, every class a revelation, and every friendship a treasure trove of shared dreams. From the moment I stepped onto campus, I knew I had found my tribe—a community of scholars and mentors who fuelled my passion for learning and pushed me to exceed my own expectations.

In the mosaic of college life, I didn't just find my path; I sculpted it with the hands of determination and the heart of resilience. But beyond the lecture halls and textbooks lay a universe of possibilities—a canvas where I painted memories with the strokes of late-night debates, campus festivals, and spontaneous adventure.

Now, as I embark on a new chapter at Nucleus Software, I carry with me the indelible imprint of my alma mater—a beacon of wisdom, a bastion of integrity, and a sanctuary of boundless potential. To my professors, peers, and every unsung hero behind the scenes, I offer my deepest gratitude—for it is your guidance, your belief in me, that has sculpted not just a graduate, but a visionary ready to shape tomorrow's landscape.





**CICTN-2023:
1st International Conference on Computational Intelligence,
Communication Technology and Networking**

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Sh. Neeraj Goel
Chairman

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Sh. Sachin Kumar Goel
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Prof. (Dr.) Sanjay Kr Singh
Director (Officiating)

Chair Publication

Prof. (Dr.) Divya Mishra
Head, CSE Dept.
hodcse@abes.ac.in

Editorial

Editor & Compiler

Ms. Shweta Roy,
Ms. Aditi Arora,
Ms. Babli Baliyan
Faculty, CSE

Reviewer

Ms. Sandhya Awasthi
Assistant Professor, CSE

Student Co-coordinators

Ms. Anukriti (3rd yr)
Ms. Ayuska (3rd yr)

ABES Engineering College

NAAC Accredited with Grade "A" & NBA Accredited Branches (CSE, ECE, EN, & IT)
Approved by AICTE, Affiliated to Dr. A.P.J. Abdul Kalam Technical University U.P. Lucknow

19th Km Stone, NH 09, Ghaziabad 201009, UP

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