

Insperio A Bi-annual Newsletter

Department of Computer Science & Engineering





Jan.-June, 2021 Volume 1, Issue 2

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Message from Director's Desk



Dear Readers, "Engineering education is among the key enablers of growth for transforming national as well as global economy. As we continue to strive for academic excellence in engineering education through innovative techniques, ABES Engineering College is fast approaching to become the preferred 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' environment far different from exam centric rot-

learning. We are making best efforts to keep pace with fast emerging technologies so that we are in a position to prepare our students for industry as well as entrepreneurship. Accordingly, the entire academic processes and echo system are being aligned with Outcome Based Education (OBE) system which has become the hallmark of teaching-learning platform in ABESEC. Our every action is focused in creating an ambience 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 develop in each of our faculty, staff and student, the ability and passion to work wisely, creatively and effectively for the betterment of the mankind.

Prof. (Dr.) Shailesh Tiwari

Message from HOD's Desk

It is my pleasure and honor to introduce the Department of Computer Science & Engineering at ABESEC, Ghaziabad. We have state-of-the-art infrastructure, laboratory facilities and highly qualified and experienced faculty to impart quality education. We are proud to contribute to their advancement and the society at large. This newsletter highlights the key areas of our activities, strengths, and accomplishments. With the strong support of our dynamic faculty, hardworking staff, and ambitious students, we have created an environment that fosters collaboration, a culture of accomplishment and



strong support of ethnic and intellectual diversity. I invite you to come and see for yourself. More information about our programs and activities can be found on http://www.abesec.ac.in/. "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."

Prof.(Dr.) Pradeep Singh

Message from Editorial Team



It is a matter of great pride and privilege for us to present Newsletter of CSE Department, ABESEC. This newsletter is intended to be published twice in a year which serves as a platform to highlight the literary and artistic segment of the CSE Department of ABESEC family. The essential purpose of the newsletter is to inform, engage, inspire and entertain a diverse readership -- including alumni, faculty, staff, students, parents and other friends of the institute by presenting an intimate, timely and honest portrait of the Department -- its people, its activities, its placements, its resources and its mission. In the originality of its conception, in the excellence of its

writing and visual presentation and in its commitment to accuracy, healthy discourse and editorial balance, the magazine endeavors to reflect the values and the quality of the department itself. By maintaining the respect and interest of its readers, this newsletter aspires ultimately to inform their opinion of the department and to strengthen their commitment to its welfare. We hope you enjoy reading this issue as much as we have enjoyed making it.

Happy Reading!!

Ms. Aditi Arora 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 AND GUEST LECTURES

1. Webinar on Time Management (An Occasion to salutation for 2021)

Date: 4/1/2021

Resource Person: Dr. Gopal Krishna Sharma, Sr. Asst. Professor, Dev Sanskriti Vishwavidyalaya, Haridwar, A seasonal Speaker

Objective:

- > Identify your own particular time wasters and adopt strategies for reducing them.
- > Recognize the variety of causes of procrastination and apply relevant techniques to overcome these.
- > Clarify and prioritize your objectives and goals, by creating more planning time.
- > Adopt appropriate strategies for dealing with interruptions and anything else which 'steals' your time.
- > Use practical techniques for organizing work.
- > Reduce time spent in meetings yet contribute more effectively.
- > Define assertiveness and related types of behavior.
- > Choose assertive responses to different time management situations

Participants: Faculty and Students Coordinator: Mr. Rohit Rastogi, CSE & Ms. Pooja Saharan, CSE

2. Webinar on Research Methodology

Date: 9/1/2021

Resource Person: Dr. Pinaki Chakraborty, Asst Professor, Department of Computer Engineering, Netaji Subhas University of Technology Delhi.

Objective: : The webinar is designed to impart the participants with knowledge of Research, research methods, research process, and the use of research tools and techniques, writing and presentation skills to the young researchers.

Participants: Faculty and Students Coordinator:- Ms. Mala Saraswat, CSE & Ms. Aditi Arora, CSE

3. Webinar on Intellectual Property Right on Patents, Designs, Innovation Patents & Utility Models

Date: 15/01/2021

Resource Person: Mr. Pareshkumar Dave. Founder IP Moment - Director IP Cofounder Science Finder Association.

Objective:

- Different type of Intellectual Property Rights
- What is Patent and Criteria of Patentability?
- Different type of patent applications
- Patent Filing Process
- Differences between Publishing Research Article and Patent

Participants: Faculty and Students Coordinator: - Dr. Amit K Agarwal, C SE & Ms. Amrita Jyoti, CSE

4. Webinar on Leadership Management: Demand of Time

Date: 13/02/2021

Resource Person: Prof. Manoj Sharma, Training Consultant and Coach (EX-PO BOB, EX GM - SPENTEX INDUSTRIES LTD.)

Objective:

• Identify current time management practices

- Define common time wasters
- Describe effective strategies to improve time management

Participants: Faculty and Students Coordinator:- Mr. Rohit Rastogi, CSE & Ms. Pooja Saharan, CSE

5. Webinar on Decoding Fear

Date: 10/4/2021

Resource Person: Sh. Udit Gupta, Vedanta Scholar Prashant Advait Foundation

Objective:

- To decoding the Neuroscience of Fear and Fearlessness
- To overcoming Fear: Whether to Freeze, Flee, or Fight?
- Taking a multi-pronged approach to anxiety disorders.

Participants: Faculty and Students Coordinator: - Mr. Rohit Rastogi, CSE & Ms. Pooja Saharan, CSE

6. Webinar on Ethical Hacking + Android App development + Web Development + Networking

Date: 16th, 17th and 18th May 2021

Resource Person: Mr. Santu Purkait (currently associated with BIT Mesra

Objective: This webinar focused on:

- The Webinar aims to improve the skills of students in the field of networking and ethical hacking and Android App Development
- It is an enhancement of the course Computer System Security studied by students of CSE&CEIT as a part of their syllabus.

Participants: Faculty and Students Coordinator: Mr. Akhilesh Kumar Srivastav, CSE

7. Webinar on Effective Illustrations in Research Manuscripts

Date: 01/06/2021

Resource Person: Prof. (Dr.) Vivek Sehgal, Associate Professor

Objective: To Understand

- How to draw scientific figures?
- · Best tools for scientific figures drawing.
- How to search an appropriate journal for your manuscript?
- How to adjust scientific figures for highly indexed journals like, IEEE, Springer or ACM Journals
- Open source and subscription based scientific drawing tools.

Participants: Faculty and Students Coordinator: Ms. Rashmi Mishra, CSE

8. Webinar on Cyber-Security Careers - A step towards Recession Proof Learning

Date: 15/06/2021

Resource Person: Mr. Bhupendra Varshney (Performance Engineering Manager) Capgemini.

Objective:

- Various career options in Computer Science and IT industry.
- What should be our main focus while preparing for Campus placement?

- Expectations of the Company from students.
- Main topics or subjects that student should prepare before appearing in campus placement process.
- Post selection challenges in company and how to deal with it.
- Importance of teamwork and project timeline.
- Importance of behavioral skills, professional and personal ethics.

Participants: Faculty and Students Coordinators: Mr. Gaurav Dubey, CSE

9. Webinar on A Road-Map to Product Companies: STRATEGIC PLACEMENT PREPARATION TIPS BY 2021 PASS OUTS

Date: 27/06/2021

Resource Person: Final year students

Objective:

• To help students in building their career paths

Participants: Faculty and Students
 Coordinators: - Mr. Akhilesh Kumar Srivastav & CSE Placement Team

10. Webinar on Career Options @ CISCO

Date:: 27/06/2021

Resource Person: Ms. Aayushi Mahajan, Consulting Engineer, CISCO Inc, Bengaluru

Objective:

• To help students to know about career opportunity in great product based company like CISCO

Participants: Faculty and Students Coordinators: Mr. Krishanveer Singh, CSE

FACULTY CORNER

FACULTY ACHIEVEMENTS

- Mr. Krishna Vir Singh has qualified instructor training for DevNet Associate (Exam code: 200-901) from CISCO Networking Academy. This is one of the very latest global IT industry Skill certification in the domain of DevOps. This Certification covers latest development tools and their application to develop scalable software solutions. He has achieved this credential on 5th May 2021.
- Ms. Rashmi Mishra Qualified Instructor Training for Enterprise Networking, Security & Automation (CCNAv7 Module 3) from AIIT, Noida.
- Ms. Rashmi Mishra Qualified Instructor Training for Switching, Routing & Wireless Essentials (CCNAv7 Module 2) from AIIT, Noida.
- Ms. Rashmi Mishra Qualified Instructor Training for Introduction To Networks (CCNAv7 Module 1) from AIIT, Noida.

FACULTY PUBLICATIONS

- Vikash Yadav, Mayur Rahul, Rishika Yadav, (2021) "A New Efficient Method for the Detection of Intrusion in 5G and beyond Networks using ML", Journal of Scientific and Industrial Research, NISCAIR-CSIR, India, Vol. 80(1), pp: 60-65, ISSN 0975-1084
- > Amit Gupta, Vikash Yadav, Bipin Kumar Tripathi, Vivek Srivastava, (2021) "Hybrid intelligence model on the second generation neural network", International Journal of Advanced Intelligence Paradigms, InderScience Publication, Vol. 18(3), pp: 398-416, ISSN 1755-0394
- Anil Kumar Dubey, (2021) "Optimized Hybrid Learning for Multi Disease Prediction enabled by Lion with Butterfly Optimization Algorithm", Sadhana, Indian Academy of Sciences, Vol. 46(63), pp. 1-17, ISSN 0973-7677 https://doi.org/10.1007/s12046-021-01574-8
- Pradeep Kumar Singh, (2021) "Internet of Things: Evolution, Concerns and Security Challenges", Sensors, MDPI, Vol. 21(5), pp: 1- 33, ISSN 1424-8220 https://doi.org/10.3390/s21051809

- > Deep Kumar Bangotra, Yashwant Singh, Arvind Selwal, Nagesh Kumar, Pradeep Kumar Singh, (2021) "A Trust Based Secure Intelligent Opportunistic Routing Protocol for Wireless Sensor Networks", Wireless Personal Communications, Springer, Vol.2021(),pp:1-25, ISSN 1572-834X https://doi.org/10.1007/s11277-02108564-
- Dinesh Kumar Yadav, Rati Shukla, Vikash Yadav, (2021) "An efficient collaborative recommender system for textbooks using silhouette index and K-means clustering technique", International Journal of Advanced Intelligence Paradigms, InderScience Publication, Vol. 19(2), pp: 233-242, ISSN 1755-0394 10.1504/IJAIP.2021.115251
- Gunjan Chandwani, Anil Ahlawat, Gaurav Dubey, (2021) "An approach for document retrieval using cluster-based inverted indexing", Journal of Information Science, Sage Publisher, Vol. 1-14(), pp: 1- 14, ISSN ISSN: 0165-5515 DOI: 10.1177/01655515211018401
- > Santosh Kumar, Ravi Kumar, (2021) "WDPMA: An MA-Based Model for Web Documents Prioritization", International Journal of Information Technology and Web Engineering, IGI Global, Vol. 16(2), pp: 1-24, ISSN 1554-1045 10.4018/IJITWE.2021040101
- Amit Sharma, Pradeep Kumar Singh, (2021) "Localization in Wireless Sensor Networks for Accurate Event Detection", International Journal of Healthcare Information Systems and Informatics, IGI Global, Vol. 16(3), pp: 74-88, ISSN 1555-340X 10.4018/IJHISI.20210701.oa5
- ➤ Vikash Yadav, Rati Shukla, Aprna Tripathi, Anamika Maurya, (2021) "A New Approach for Movie Recommender System using K-means Clustering and PCA", Journal of Scientific and Industrial Research, NISCAIR-CSIR, India, Vol. 80(2), pp: 159-165, ISSN 0975-1084
- Mansi Gupta, Vimal Kumar, Vikash Yadav, Rajesh Kumar Singh, Mohd Sadim, (2021) "Proposed Framework for Dealing COVID-19 Pandemic Using Blockchain Technology", Journal of Scientific and Industrial Research, NISCAIR-CSIR, India, Vol. 80(3), pp: 270-275, ISSN 0975-1084
- Sreekumar Krishnan Nair, Sathiya Kumar Chinnappan, Anil Kumar Dubey, Arjun Subburaj, Shanthi Subramaniam, Vivekanandam Balasubramaniam & Sudhakar Sengan, (2021) "Prewitt Logistic Deep Recurrent Neural Learning for Face Log Detection by Extracting Features from Images", Arbian Journal for Science and Engineering, Springer, Vol. 1(1), pp: 1- 12, ISSN 2191-4281 https://doi.org/10.1007/s13369-021-05609-4
- Garima Bakshi, Rati Shukla, Vikash Yadav, Aman Dahiya, Rohit Anand, Nidhi Sindhwani, Harinder Singh, (2021) "An Optimized Approach for Feature Extraction in Multi-Relational Statistical Learning", Journal of Scientific and Industrial Research, NISCAIR-CSIR, India, Vol. 80(6), pp: 537-542, ISSN 0975-1084
- Rohit Rastogi, Mamta Saxena, Devendra K. Chaturvedi, Mayank Gupta, Akshit Rajan Rastogi, Mukund Rastogi, Ankur Sharma, Sheelu Sagar, (2021) "Kirlian Experimental Analysis and IoT-Part1", International Journal of Reliable and Quality E-Healthcare (IJRQEH), IGI Global, Vol.10(2), pp: 29-43, ISSN 2160-9551 10.4018/IJRQEH
- Rajat Yadav, Anurag Mishra, (2021) "Identifying and sensing emotional quotient weightage in the outcome using Speech Dialogue", 1st International Conference on Computational Research and Data Analytics (ICCRDA 2020) 24th October 2020, Rajpura, India, O, India, Vol. 1022(), pp: 1- 10, :10.1088/1757-899X/1022/1/012013
- > Santosh Kumar, Ravi Kumar, Mohammad Haider, Anil Dubey, (2021) "A comparative study of classifier algorithms for Twitter's sentiment based spam detection", 1st International Conference on Computational Research and Data Analytics (ICCRDA 2020), 1, India, Vol. 1022(1), pp: 12016- 12024, https://doi.org/10.1088/1757-899X/1022/1/012016
- > Santosh Kumar, Ravi Kumar, (2021) "A Study on Different Aspects of Web Mining and Research Issues", 1st International Conference on Computational Research and Data Analytics (ICCRDA 2020), 2, India, Vol. 1022(1), pp: 12018-12018, https://doi.org/10.1088/1757-899X/1022/1/012018
- Mala Saraswat, (2021) "Emotion Distribution Profile for Movies Recommender Systems", nd International

STUDENT CORNER

SUCCESS STORY of GATE-2021

09 Students qualified GATE Exam out of 15 appeared this year, have now added colored feathers in the cap of Department. Results were declared on 20th March 2021 and 04 students of Third Year and 05 students of Final year cracked it in their first attempt. Ms. Akanksha Gupta got the highest rank in the department.

Name	Year	Marks	All India Rank	Student	
Akanksha Gupta	IVYear	40.61	3708		
Aviral Rastogi	III Year	38.04	4701		
Ajanta Maurya	IV Year	36.21	5648		
Divya	III Year	35.61	5942	(3)	
Amit Kumar Srivastava	III Year	31.81	8421		
Vaibhav Srivastava	IV Year	30.55	9651		
Divya Sharma	III Year	29.91	10299		
Krishna Sharma	IV Year	27.38	13213		
Ayush Rai	IV Year	27.07	13404		

PLACEMENTS

							LACL						
						ABES En	gineering	College (Ghaziabad				
					Depar	tment of	Compute	r Science	and Engine	ering			
	Comparitive Analysis of Placement from 2016 to 2022												
S.no	Session	No.of Students	Eligible/ Registered Students	Placed Students	% Placement	Mean Placement	Median Placement	No.of Offers	No. of Offers of 5 LPA or more	No. of Offers of 7 LPA or more	Highest Package	Company Name	Company Logo
1	2016-17	254	232	186	80.17	3.08	3.25	278	16	1	10 LPA	ADOBE	Adobe
2	2017-18	251	233	187	80.26	3.41	3.15	294	19	5	12 LPA	HSBC	HSBC
3	2018-19	252	235	202	85.96	3.84	3.61	323	45	21	10 LPA	Traveloka	traveloka*
4	2019-20	264	244	229	93.85	4.46	3.96	488	103	43	27.70 LPA	ADOBE	A Adobe
5	2020-21	199	186	182	97.79	4.86	4.5	539	162	96	35	AMAZON	amazon.com
6	2021-22	203	198	140	71.71	6.08	5.6	207	97	80	20 LPA	Goldsman Sachs	Goldmái Sachs
Note: Placement of Batch 2018-22 is still in process.													

FEW GLORIOUS PLACEMENTS Congratulations!!



Shaurya Khanna CSE

for successful placement in

Amazon

at **27.0 LPA**

amazon



HIGHER STUDIES

Ms. Divyansh Goel (2020-21)

MS in Computer Science University of Southern California, Los Angeles, USA

STUDENTS PARTICIPATION IN GLOBAL CERTIFICATION/INTERNSHIP



INDUSTRY CONNECTS

DETIALS of MOU's

1. Memorandum of Understanding (MoU) Department of Computer Science & Engineering and Atpug Plus Consulting Opc Private Limited.



Memorandum of Understanding(MoU) has been signed between ABES Engineering College, Ghaziabad, and Atpug Plus Consulting Opc Pvt. Ltd., an Indian company on 04.1.2021. The major benefits of this MoU are the enhancement of the technical skill set and knowledge of the students.

The MoU is signed under the guidance of Dr. Pradeep Singh, Professor and Head of the Department of Computer Science & Engineering.

The MoU is helpful on following points:

- a. To explore the innovative technologies for bridging the gap between the academia and industry.
- b. To develop a platform for faculties and students about industrial work culture and to understand real time research and development environment.
- c. Provide the opportunities for the students to do Internships and projects.
- d. Platform for collaborative research on various computing technologies.



▲ Carrow 2. Memorandum of Understanding (MoU) Department of Computer Science & Different Ahead Engineering and JDASS TECHNOLOGY PRIVATE LIMITED.

Memorandum of Understanding(MoU) has been signed between ABES Engineering College, Ghaziabad, and JDASS TECHNOLOGY PRIVATE LIMITED., an Indian company on 04.1.2021. The major benefit of this MoU will be in the enhancement of the skill set and knowledge the students.

The MoU is signed under the guidance of Dr. Pradeep Singh, Professor and Head of the Department of Computer Science & Engineering.

The MoU will help in following dimensions:

- 1. Provide the opportunities to the students so that they get familiar with industrial work culture and enhance their knowledge on recent trends in the industry.
- 2. The MoU opens new opportunities for placement and internships.



Yukta Anand

At the very outset, I would like to express my heartfelt thanks to The Head of Department and Placement Coordinators for relentless support and expansion in my intellectual horizon. I extend warm regards to my Faculty Members and Mentors who immensely helped me to succeed in my career and have provided me roots to follow my dreams. It was the excellent pedagogy of the teachers and the amazing help I received which helped to enhance my skill and improve my knowledge. Also, I am indebted to my parents and almighty for their blessings and constant support."





Saloni Tyagi

I'm extremely proud and grateful to be the part of ABES Engineering college. I've had a long journey from a noob coder to working as a software developer in my dream company. This would have not been possible without the constant support and guidance from Faculty members, mentors, seniors and my batchmate. I would like to thank each and everyone who has been part of my journey and who has helped it achieving my dreams.

Credits

Chief Patron

Shri Neeraj Goel President

Patrons

Shri Sachin Kumar Goel Vice President

Prof. Shailesh Tiwari Director

Chair Publication

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Assistant Professor. CSE

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ABES Engineering College

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