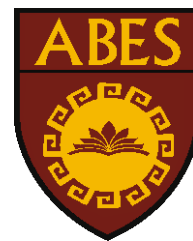


insightIT

Department of Information Technology

Bi-Annual Magazine

Jan.-June, 2020
Volume 5, Issue 2



Estd. 2000

ABES
Engineering College

Message from Director

It gives me immense happiness to release vol.5 issue 2 of "Insight IT". 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 each and 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 "More from less" strategy to bring most out of available resources. All the geniuses have one thing common that they are always in "Learning Mode", the same is applicable on student as well. Once the students develop the thinking or attitude of this level than even failure becomes learning to them and they fall under category of "bound to succeed". Best wishes and blessing to ABESEC-IT Team. Congratulations to the editorial team for their determined efforts in bringing out this magazine.



Prof. Shailesh Tiwari

Message from HOD-IT



Dr. Amit Sinha

I congratulate the team that has taken the initiative for producing this magazine. I am delighted to announce that our department is bringing out a magazine for this academic session. It is a nice platform for both the faculty and the students to exhibit their talents. I strongly believe that it would be an excellent medium through which the world can learn about the potential and achievements of ABES. I hope that this would be an ongoing process and the magazine would bring out the latent talent of everyone. I join others in appreciating and recognizing the hard work of the editors and the magazine committee in bringing out the magazine and in wishing them success in their endeavor. It is an active platform for both staff and students to showcase their academic talents and imaginations. I extend my best wishes and greetings for the release of our college magazine.

Message from Editor in Chief

We may hope that this version of magazine would provide fruitful contents and all the activities conducted during January to June 2020 related to all the students and faculty members of the Department of Information and Technology department. We have tried to cover almost most of the activities covered during the session.



Mr. Ashwin Perti

Message from Managing & Creative Editor



We the part of the Information Technology Department tried our best to provide the best part of the Information Technology Department. We hope that this Magazine would boost our students as well other department students also. I hope the magazine would also provide sufficient space for the material useful to the students, besides other activities.

Mr. Aatif Jamshed

Vision

The Department of Information Technology endeavors to be recognized globally for outstanding education and research leading to well qualified engineers, who are innovative, entrepreneurial and successful in advanced fields of IT to cater the ever changing industrial demands and social needs.

Mission

To create a healthy environment for the development of innovative professional and researchers to fulfill its commitment to research and education of the highest quality with industry requirement and social acceptance at large.

Program Educational Objectives (PEOs)

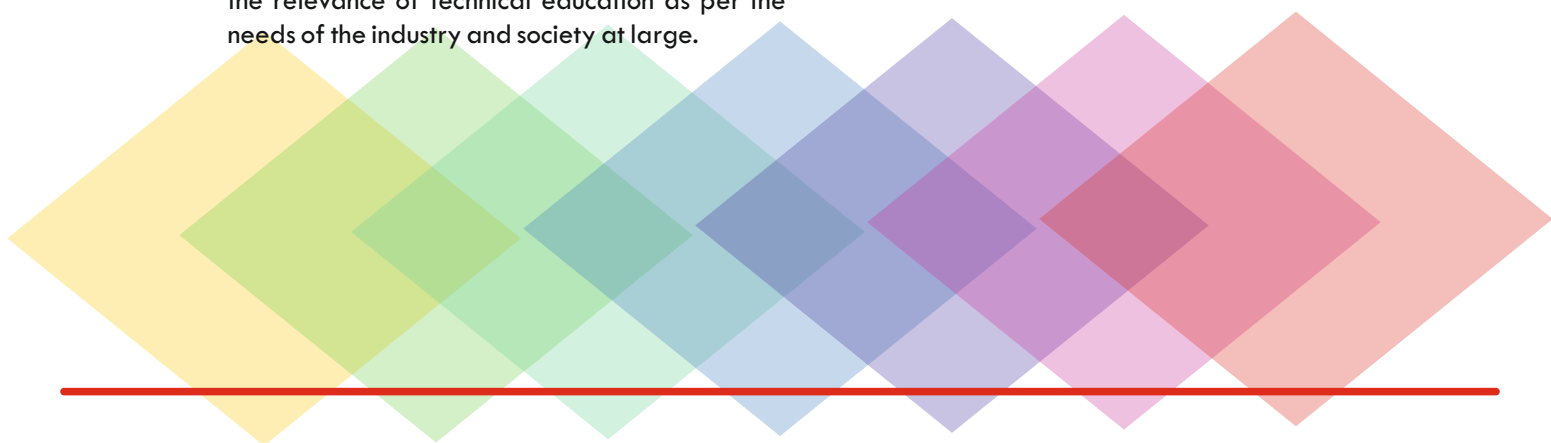
The Detailed Program Educational Objectives (PEOs) are as follows:-

- PEO-1** To impart exhaustive knowledge to the students in all the sub-domains of Information Technology and the fast evolving IT tools to:
 - a) Take up key assignments in IT and associated Industries
 - b) Undertake and excel in higher studies and research and development in IT Related fields and management.
- PEO-2** To impart solid foundation in computational intelligence, science and interdisciplinary courses.
- PEO-3** To design and develop novel products and innovative solutions for real life problems in Information Technology field and related domains.
- PEO-4** To inculcate a conviction in the students 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 provide a conducive and disciplined academic environment, quality of teaching with innovative and modern methods of pedagogy establishing the relevance of technical education as per the needs of the industry and society at large.

Program Outcomes (POs)

The detailed Program Outcomes (POs) are as follows-

- 1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 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.
- 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.
- 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
- 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.
- 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.
- 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.
- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.



- 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
- 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 environment.
- 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: An ability to specify, analyze & design a usable computing system that efficiently utilizes system software and hardware to cover current user requirement in a socially and economically acceptable form.

PSO-2: An ability to state, design and implement a secure and reliable information communication system by using concepts of computer networks, network security, information theory and parallel algorithm.

PSO-3: An ability to state, design and implement knowledge based discovery and machine based learning in computer system by using the various concepts of soft computing, neural networks, image processing, digital system design and artificial intelligence.

PSO-4: An ability to analyze and design an efficient information management system which uses the concepts & tools of databases, data mining and information coding and deliver technological solutions for the end users.

Faculty Corner

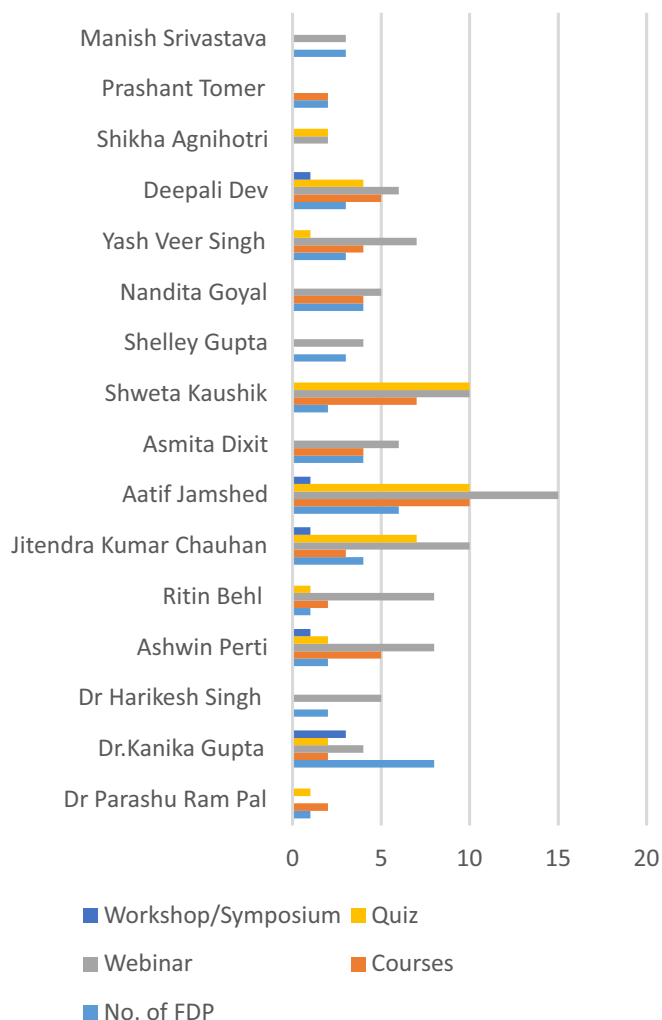
FDP /Workshop/Training Attended/Conducted

- **Mr. Aatif Jamshed, Ms. Asmita Dixit, Ms. Nandita Goel & Mr. Prashant Tomer:** Attended five days' FDP on "ICT Tools & Techniques for Teaching, Learning Process & Institutes" organized by MCA department, ABES Engineering College from 13-17 January 2020.
- **Dr. Kanika Gupta, Dr. Harikesh Singh, Dr. Parashu Ram Pal, Ms. Nandita Goel, Ms. Deepali Dev and Mr. Ashwin Perti:** Attended five days' FDP on Machine Learning and Data Analytics using Python sponsored by IIT, Roorkee in collaboration with ABES Engineering College from 13-17 January 2020.
- **Dr. Kanika Gupta, Mr. Ashwin Perti:** Attended five days' FDP on Artificial Neural Network and its application sponsored by NITTTR, Chandigarh conducted by ECE Department at ABES Engineering College from 27-31st January 2020.
- **Dr. Harikesh Singh, Mr. Ritin Behl:** Attended five days FDP on Artificial Intelligence and Machine Learning sponsored by IIT Rorkee at ABESEC from 23-27 Dec 2019.
- **Ms. Deepali Dev:** Attended two days workshop on Data Science - Research Issues & Applications at IGDTUW, Delhi on 10th – 11th January, 2020.



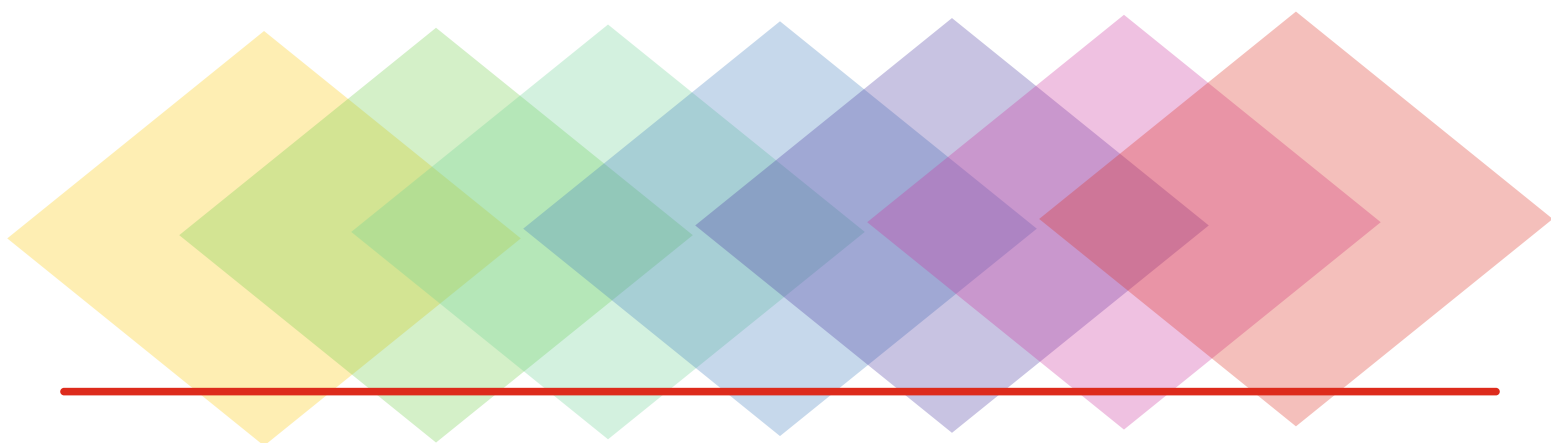
Workshop attended by Ms. Deepali Dev at IGDTUW, Delhi

No. of FDP / Courses / NPTEL /Courera Courses done during the period of OCT 2019 - June 2020



Publications

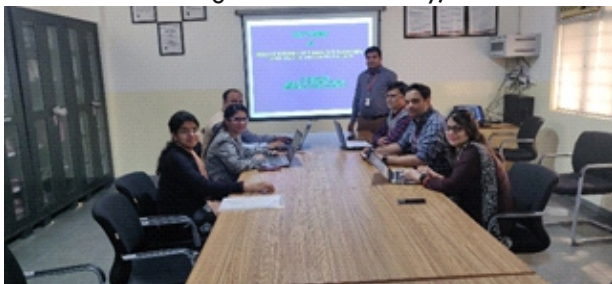
- **Dr. Amit Sinha**, Published a paper titled "Toled: Tomato leaf disease detection using in CNN" in Scopus (Science Direct) Indexed Journal of the International Conference on Computational intelligence and Data Science, 1877-0509@2020
- **Dr. Amit Sinha**, published a book chapter titled "Smart Innovation, Systems and Technologies" Potato Crop Disease Classification Using Convolutional Neural Network" SSIC Springer 391-400, 2020.
- **Dr. Harikesh Singh**, published a paper titled "Fault Tolerance Based Load Balancing Approach for Web Resources in Cloud Environment", International Arab Journal of Information Technology (IAJIT), vol.17, no.2, ISSN: 1683-3198 (SCIE), Mar 2020.
- **Mr. Ashwin Perti**, presented & published a paper titled "Security Implementation in IoT using Digital Signature", in ICEEE-2020 (Springer International Conference), Feb-29-2020.
- **Dr. Parashu Ram Pal**, published a paper titled "Ontology learning system for cross language plagiarism detection", in International Journal of Scientific and Technology Research, Scopus Indexed: Volume 9, Issue 03, March 2020
- **Dr. Amit Sinha**, Aatif Jamshed & Asmita Dixit: Authored a Book " Guido van Rossum's Python-A guide to success "with ISBN 978-620-2-51784-3 by LAP LAMBERT Academic Publishing on 27th March 2020.
- **Dr. Kanika Gupta**, published a book chapter "Systematic Literature Review of Block Chain, IoT and Google Cloud Platform" in "Security and Trust Issues in Internet of Things: Block chain to the Rescue" by CRC Press, Taylor and Francis.
- **Ms. Shweta Kaushik, Dr. Amit Sinha**: Submitted a book chapter titled" Data security and privacy function in fog computing for Healthcare" in book titled "Fog computing for Healthcare 4.0 Environment".



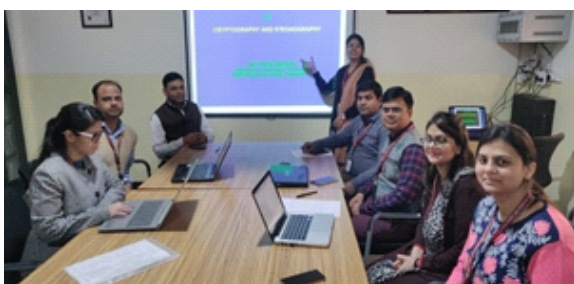
- **Ms. Shweta Kaushik:** Published a book chapter, "Security for the Cloud", in book titled "Cloud Computing Applications and Techniques" for E-commerce.
- **Ms. Shelley Gupta:** Published a book chapter, "Sentiment Analysis: Usage of Text and Emoji for Expressing Sentiments. In: Kolhe M., Tiwari S., Trivedi M., Mishra K. (eds) Advances in Data and Information Sciences. Lecture Notes in Networks and Systems, vol 94. Springer, 2020.
- **Ms. Asmita Dixit, Mr. Aatif Jamshed:** Published a paper titled "Heart Disease Risk Predictor System using Data Mining Learning Techniques" in International Journal of Computer Applications (IJCA) May 2020 Edition.

Guest Lecture Delivered

- **Dr. Harikesh Singh:** delivered a lecture to faculty and staff in faculty seminar on "Difference between Journals Indexing" on 29th February, 2020.



- **Ms. Shikha Agnihotri:** delivered a lecture to faculty and staff in faculty seminar on "Cryptography: Study of for secure communication" on 29th February, 2020.



Faculty Achievements

- **Mr. Aatif Jamshed:** published a patent titled "Cybernetic Plant" with application number 202041009615 on 05/03/2020.
- **Dr. Parashu Ram Pal,** taken ACM Professional Membership on January 21, 2020 (Membership Number: 8836097).

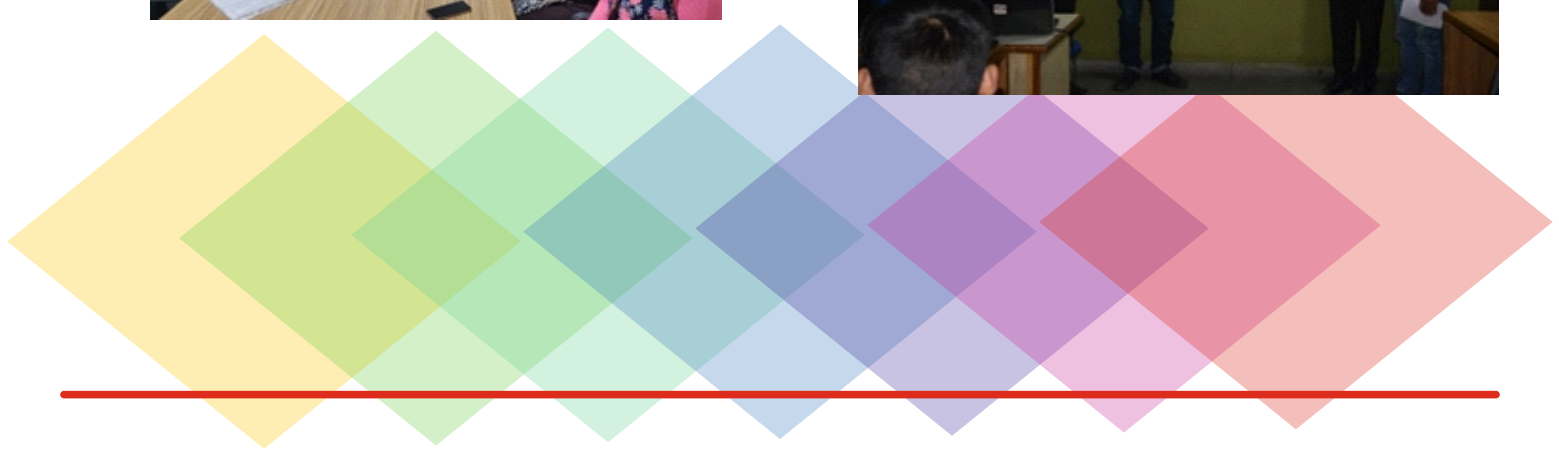
Sessions organized

The Department of information technology organized various lecture sessions throughout the semester. Glimpse of all are below:

- **Dr. Anju Chawla Coach,** Author, Assessor, Trainer (Emotional Intelligence (EI) expert) delivered a lecture on "Power Seminar on Emotional Intelligence" on 17th January, 2020.



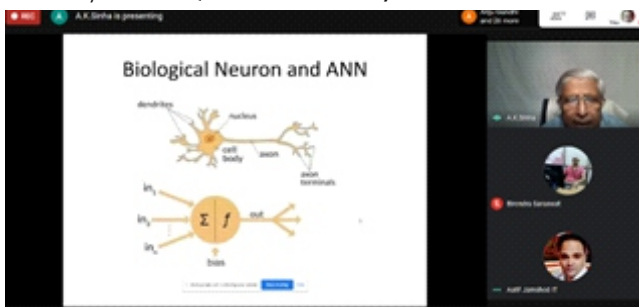
- Department of Information Technology celebrated VITA DAY 2020, VMware Technology in a Day (An awareness program on latest demand of the Industry: -Virtualization) in collaboration with ICT Academy, India and NDG on 24th January, 2020.



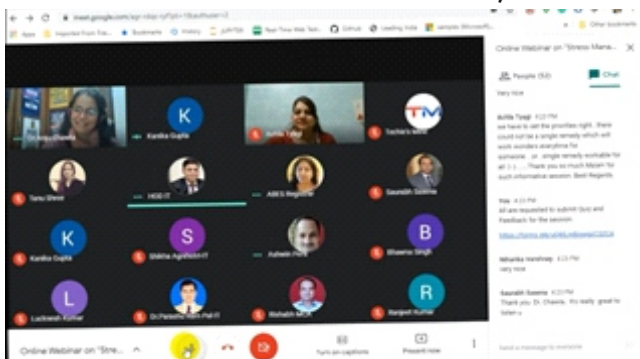
- **Mr. Santu Purkait** MBA from IIM Kolkata delivered a lecture in seminar especially for B.Tech.-IT 2nd Year students. on “on “Network Management & Ethical Hacking” on 24th February, 2020.



- The Department of IT, ABES Engineering College, Ghaziabad successfully organized a Three-day Webinar-cum-FDP Series on “AI & Applications using Python” Dr. Ashok Kumar Sinha, Adjunct Professor, ABSEC delivered a lecture especially for B.Tech.-CSE/IT on 4th, 6th and 8th May 2020.



- The Department of Information Technology at ABES Engineering College successfully organized an online webinar on "Stress Management and EI" by emotional intelligence expert Dr. Anju Chawla for students, faculties and staff members on 3rd June, 2020.



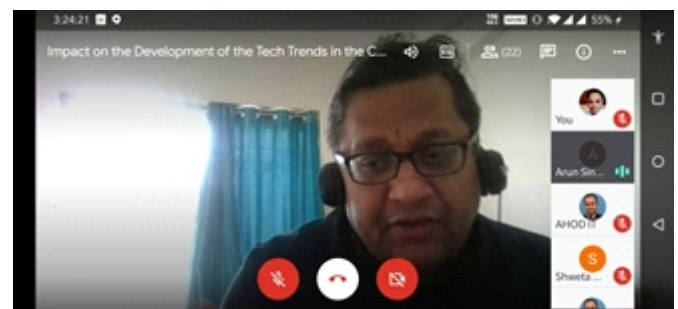
- The Department of Information Technology at ABES Engineering College successfully organized an online webinar on “Skills Gap between graduating engineers & Information Technology industries requirements” and "Next Generation Model of Software Engineering" by the experts Mr. Ajit Maya, CEO and Mr. Rinkoo Kushwah respectively for students, faculties and staff members on 4th June, 2020.

- The Department of Information Technology at ABES Engineering College successfully organized an online webinar on “Sharding in MongoDB” by the expert Dr. Nilesh kumar R Patel for students, faculties and staff members on 5th June, 2020.

- The Department of Information Technology with CSE has organized an expert lecture on “No-Code, Enterprise Solution Consulting”. Mr. Bhasker Das delivered a lecture especially for B.Tech.-CSE/IT students on March, 2020.



- The Department of Information Technology with CSE has organized an online webinar on “Impact on the Development of the Tech Trends in the Current Situation” by the expert Mr. Arun Singh, Director, Union Bank of Switzerland, Pune, India for students, faculties and staff members on 20th June, 2020.



Partnership and MoU's

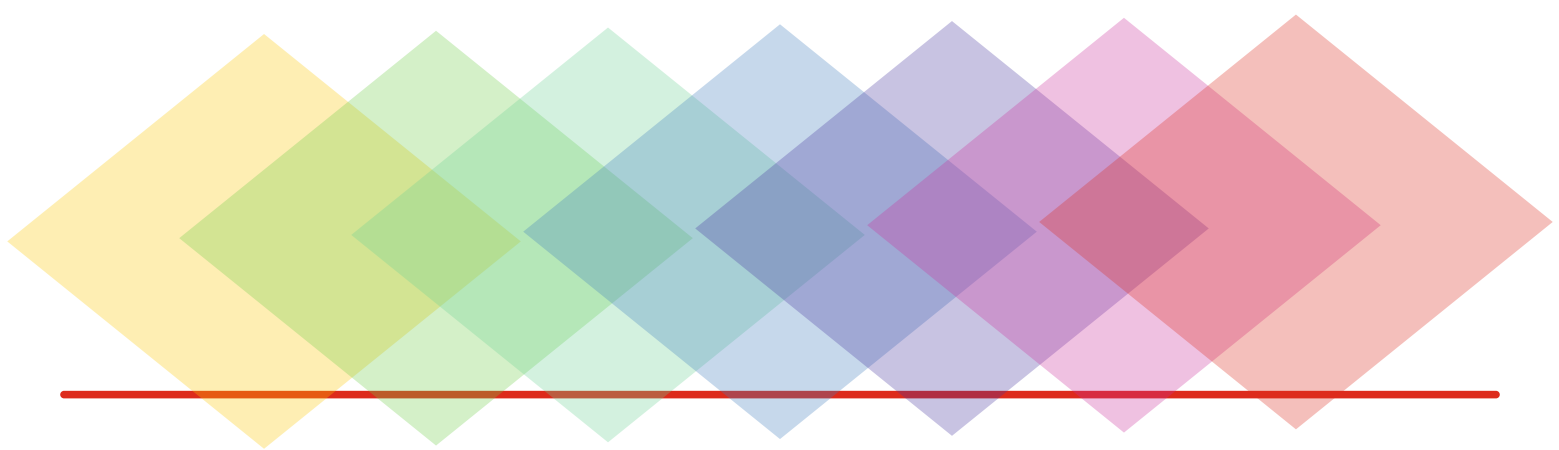
The Department of Information Technology has signed MOU and is an institutional member of:

1. ICT Academy, Government of India
2. Palo Alto Networks.
3. Lead zonal partner of leadingindia.ai.
4. Oracle Academy



➤ Industrial Visit

The Department of Information Technology along with Incubator cell organized an industrial visit at BimTech Noida on 17th March 2020..



Our Shining Stars



Academic:

- **Shweta Malik** (Batch 2015 – 2019), secured Bronze medal, 3rd rank in B.Tech (IT) across all engineering colleges in AKTU. She has been awarded medal by honourable Governor Ms. Anandiben and V.C. Prof. Vinay Kumar Pathak.



Ms. Shweta Malik

Placement:

- **Akash Yadav** (Batch 2016 – 2020), got selected in Amazon at 27 LPA.
- **Vaibhav Jain** (Batch 2016-20) and Sourav Rawat (Batch 2016-20) got selected in the business unit of Directi, Bengaluru at 14 LPA
- **Shreya Yadav** (Batch 2016 – 2020), got selected in Extramarks at 12.45 LPA.
- **Aditya Kumar** (Batch 2016-20) got selected in Traveloka, Bengaluru at 10 LPA
- **Devarishi Khanna** (Batch 2016-20) got selected in Geeks for Geeks internship as a technical content engineer with a stipend of Rs.25000/-.



Akash Yadav



Mr. Vaibhav Jain



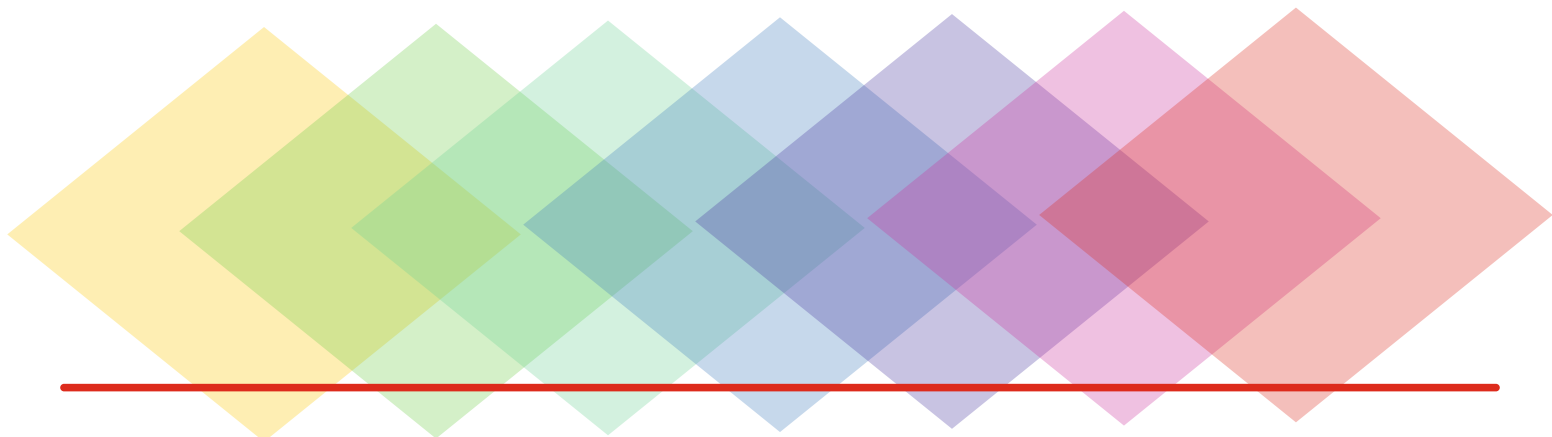
Shreya Yadav



Aditya Kumar



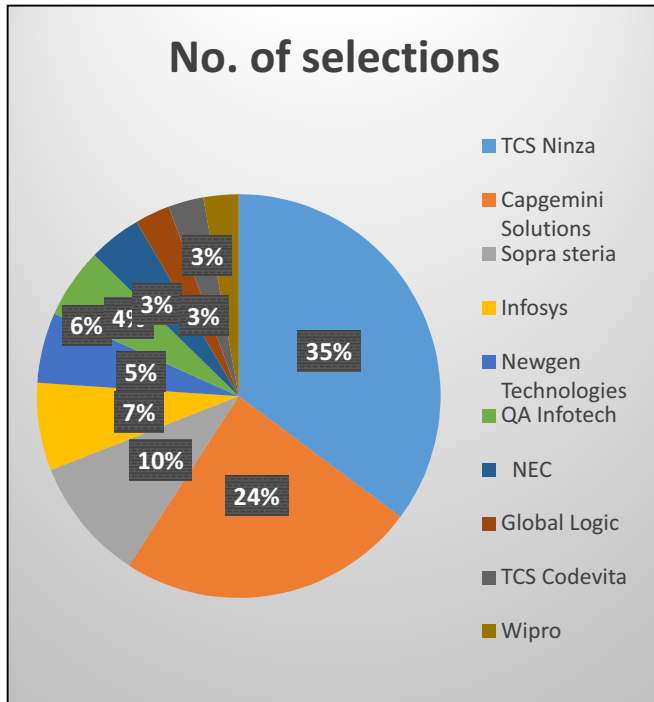
Devarishi Khanna



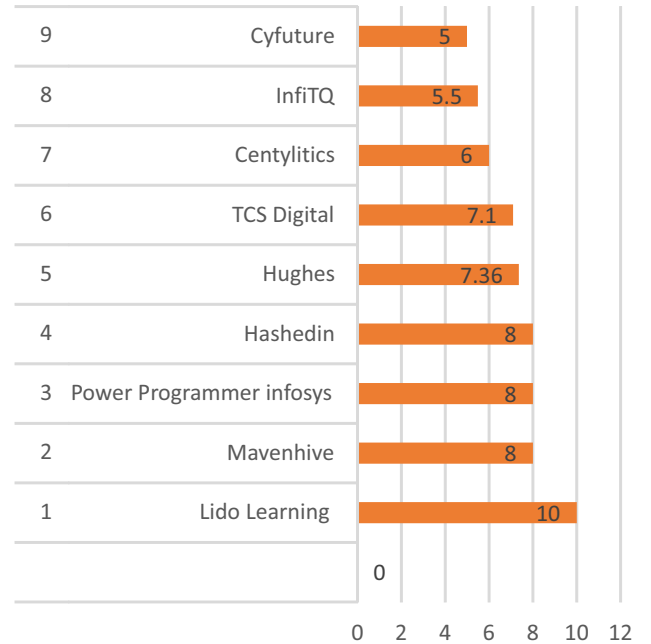
Placements

Placement in terms of top 10 number selections packages:

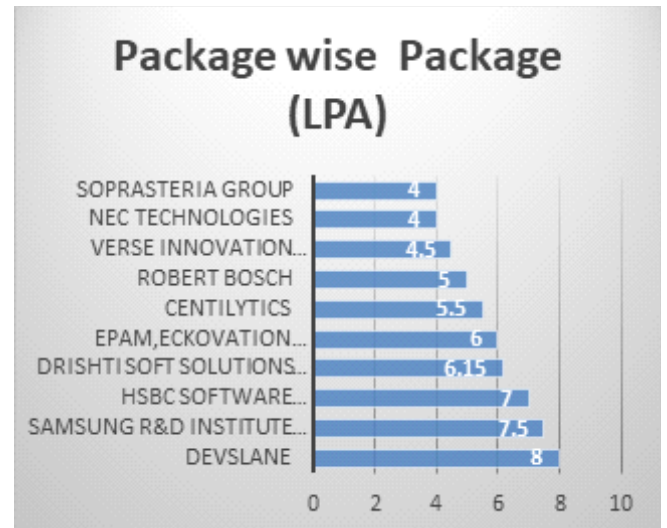
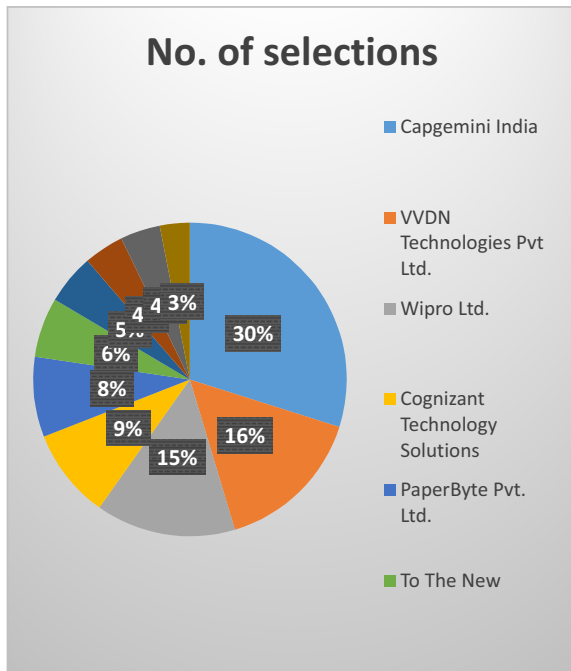
Batch: 2016 - 2020



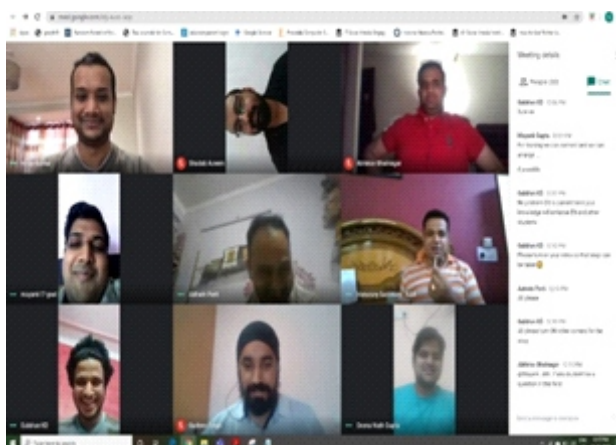
Package wise Package (LPA)



Batch: 2015 - 2019

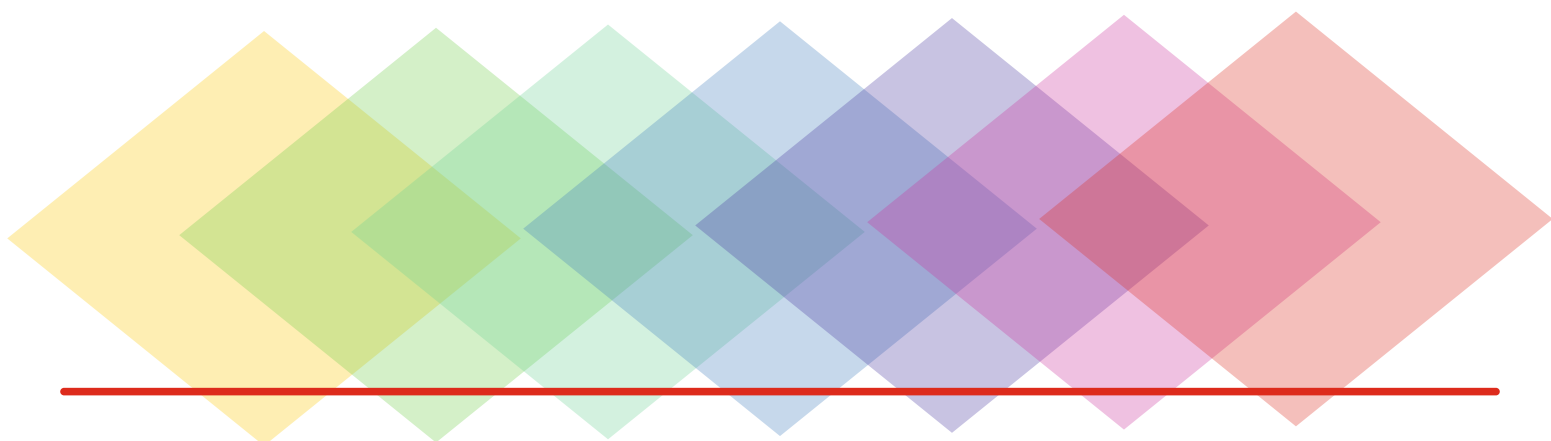


Industry-Alumni Interaction



The Department of Information Technology Conducted an Alumni interaction program in each semester. This helps our students to pace with industry and learn from their seniors. Some of such interaction are mentioned below:

- ABES-EC has organized SIH-2020 (Internal) under the guidance of MHRD-IIC. Mr. Shubham Rawat (Batch 2014-18) a IT department Alumni had an interactive session with students and also he also judged few hardware categories groups in SIH Internal from 21-22 January 2020.
- ABES Alumni Association has organized online panel discussion on "Covid, Caries & Transformation", panel had 5 IT Alumini among all & event was coordinated by Mr.Ashwin Perti-IT on 6 June,2020.



Extra-Curricular

- **Radhika Mehrotra** (Batch 2017 – 2021) won Gold Medal in Table Tennis Girls in Zonal Sports Fest held at Vishveshwarya Group of Institutions in 2019 – 2020.
- **Vidhi Mittal** (Batch 2018 – 2022) won Gold Medal in 4x100 Relay Girls in Zonal Sports Fest held at Vishveshwarya Group of Institutions in 2019 – 2020.
- **Ashutosh Shishodia** (Batch 2017-21) as a member of Battle of bands, won Gold medal -State level, held at Dr. Abdul Kalam Arts and Cultural Fest, IET Lucknow, held in 2019 - 2020.
- **Ashutosh Shishodia** (Batch 2017-21) as a member of Battle of bands, won Gold medal - Zonal level, at Dr. Abdul Kalam Arts and Cultural Fest held at ABESEC, Ghaziabad, held in 2019 – 2020.
- **Ajay Anand**, team captain, (Batch 2016-20) won Silver medal in cricket tournament, RANN-2020, held at KIET (National level Sports fest) in 2019 – 2020.
- **Ajay Anand**, team captain, (Batch 2016-20) won cricket tournament in sports fest AAGAZ 2020, held at HBTU Kanpur in 2019 - 2020.



Radhika Mehrotra



Vidhi Mittal



Ashutosh Shishodia



Ajay Anand, Team Captain





Department of Information Technology

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Chief Patrons

Sh. Neeraj Goel
President

Patrons

Sh. Sachin Goel
Vice President
Prof. Shailesh Tiwari
Director

Chairman, Publication

Dr. Amit Sinha
Head, IT Dept.

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Assistant Professor

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ABES Engineering College

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