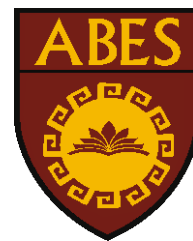


insightIT

Department of Information Technology

Bi-Annual Magazine

July.-Dec., 2019
Volume 5, Issue I



Estd. 2000

ABES
Engineering College

Message from Director

It gives me immense happiness to release vol.5, issue 1 of "Insight IT". This magazine gives a glimpse of the IT department to the public-at-large. The ultimate goal of magazine is to engage and strengthen its readers by earning and retaining their respect and faith. I hope the current issue will definitely motivate students to share their knowledge. It aims to inspire and flourish upcoming engineers bringing a revolution in the ever-evolving technological advancements. We intend to continue presenting the talent and creativity of our faculty members as well as our students through "Insight IT". I hope this magazine will bridge the gap between achievements and publicity. All the credit goes to dedicated faculty as well as head of the department who encouraged his team at all levels.



Prof. Shailesh Tiwari

Message from HOD-IT



Dr. Amit Sinha

The department of IT at ABESEC has always been thinking about its academics as well as preparing good contributors to the society and nation. It is great to find a considerable number of contributions that certainly prove that our faculty and students are effectively equipped and possess necessary skill sets to express their talent. Reading this magazine would definitely be an inspiration and motivation for all students, faculty members and alumni. Students are provided numerous opportunities to participate in different co-curricular activities. The strongest bone of the department, our faculties' hard work to ensure that students have a strong value-based education with interpersonal skills. I congratulate and thank all the students and faculty coordinators who have made untiring efforts to bring out this magazine.

Keep Going!

Message from Editor in Chief

Dear Readers,

Greetings! Being the Editor, I feel privileged to work on the current issue of our departmental magazine "Insight IT". It is designed to showcase the talents of our faculty members and students. With a sense of pride and satisfaction I would like to say that with the active support of the Management, Director, Dean, HOD, Faculty members and Students, the department magazine has been released. Current issue of "Insight IT" magazine will include the last six months' achievements and the activities, projects, publications and technical events. We welcome all valuable suggestions for continuous improvement of upcoming issues.

Happy Reading!



Mr. Ashwin Perti

Message from Managing & Creative Editor



Greetings! We are proud to bring you the current edition of our departmental Bi-Annual magazine "Insight IT". This year besides showcasing the talents of our faculty members and students, This Bi-Annual Magazine is the reflection of the Department Activities, the achievements, the spirit of all the students and teachers, the smiles and the laughter, goals and experiences and everything that is fulfilling the Vision and Mission of the Department. I'm sure you will all be happy to recall all the special and lovely moments of the Six Months gone by and feel proud with a sense of accomplishment. I take this opportunity to thank the Management, Director, HOD, Faculty members and Students for making everything possible.

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)

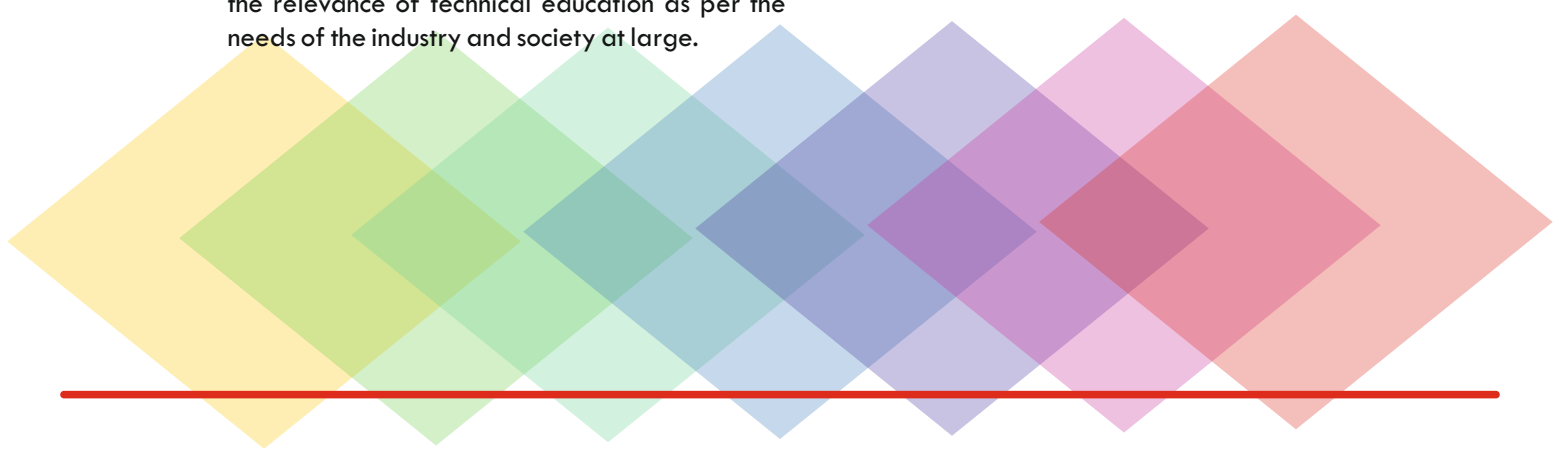
The Detailed Program Educational Objectives (PEOs) are as follows:-

- 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, Mr. Abhishek Tyagi and Ms. Priyanka Gupta:** Attended two days workshop on "Machine Learning & IOT using Python/Matlab" organized by MCA department, ABES Engineering College from 11th-12th July, 2019.



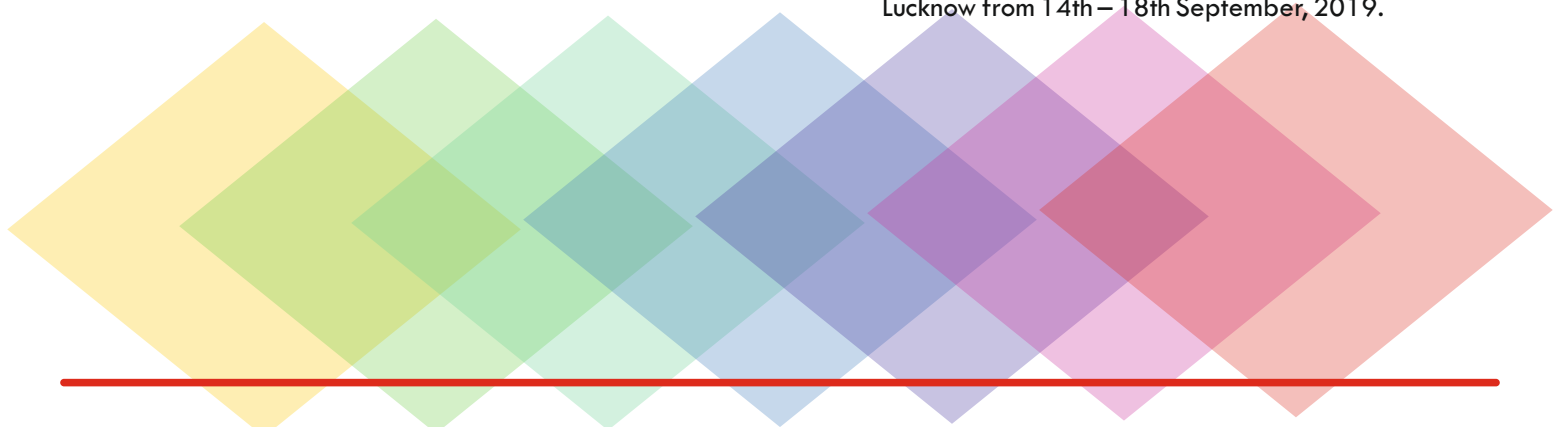
Workshop attended by IT Faculty Members on AI-ML-IOT

- **Dr. Amit Sinha, Ms. Asmita Dixit and Mr. Aatif Jamshed:** Attended one week Short Term Training Program On "Semantic Web" organized by MCA department Sponsored by NITTTR, Chandigarh from 16th-20th September, 2019.



Short Term Training Program attended by IT faculty member on "Semantic Web".

- **Mr. Ashwin Perti:** Attended five days FTP Program on "Artificial Intelligence" at IIT Kanpur which was conducted in collaboration with Dr. APJ AKTU, Lucknow from 14th – 18th September, 2019.





FTP attended by IT faculty member on "Artificial Intelligence" at IIT Kanpur.

- **Ms. Deepali Dev:** Attended five days FDP Program on "Data Science" at IIIT Allahabad with the support of ATAL academy programs from 08th – 12th November, 2019.



FDP attended by IT faculty member on "Data Science" at IIIT Allahabad

- **Dr. Harikesh Singh, Mr. Ashwin Perti and Ms. Shelley Gupta:** Attended one-week FDP/Short Course Program on "Artificial Learning and Machine Learning" at ABESEC Ghaziabad jointly organized by Electronics and ICT Academies from 23rd -27th December, 2019.
- **Mr. Ashwin Perti:** Conducted two days' workshop on Big data analytics by leadingIndia.ai of Bennett University on 12 and 13 July,2020.



Workshop on Big data analytics by leadingIndia.ai of Bennett University

Publications

- **Aatif Jamshed et.al.,** published a paper titled "Mining of High Value Item Sets with Negative Utility" in Scopus Indexed International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol 8, Issue 9, July, 2019.
- **Deepali Dev et.al.,** published a paper titled "Implementation of efficient line clipping algorithm" in Scopus Indexed International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol 8 Issue 7, May 2019.
- **Dr. Amit Sinha et.al.,** published a paper titled "ToLed: Tomato leaf disease detection using Convolution Neural Network" in Scopus (Science Direct) Indexed Journal of the International Conference on Computational intelligence and Data Science, 1877-0509, 2019
- **Dr. Harikesh Singh et.al.,** published a paper titled "Fault Tolerance Based Load Balancing Approach for Web Resources" in Scopus Indexed Journal of the Chinese Institute of Engineers, vol.42,no.7, Jul 2019.
- **Dr. Amit Sinha, Aatif Jamshed, et.al.** authored a Book "Hands on Approach to Android Developer" Amazon Asia-Pacific Holdings Private Limited ,1 edition on 26th July, 2019.
- **Dr. Amit Sinha et.al.** authored a Book Chapter "Smart Innovation, Systems and Technologies" Potato Crop Disease Classification Using Convolutional Neural Network" SSIC Springer (Book Chapter) 391-400.

- **Dr. Kanika Gupta and Ms. Nandita Goyal**, published a paper titled "Fuzzy Decision based median filter for removal of impulse noise" in Scopus Indexed Journal of International Journal of Engineering and Advanced Technology (IJEAT) Vol 9 Issue 1st October, 2019.
- **Ritin Behl et.al.**, published a paper titled "Face Identification System" in IEEE International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT), organized by KIET Group of Institutions, Vol 1, 2019.
- **Ritin Behl** published a Book on "C Handout with MCQ" By Blue Rose Publication I edition on 9th August, 2019.

Faculty Seminars

- **Dr. Parashu Ram Pal** delivered a lecture for faculty members and staff in faculty seminar on "Intellectual Property Rights, Patents, Copyrights, Trademarks and Trade secrets".



Lecture delivered by Dr. Parashu Ram Pal on "Intellectual Property Rights, Patents, Copyrights, Trademarks and Trade secrets".

- **Ms. Shelley Gupta** delivered a lecture to faculty and staff in faculty seminar on "Sentiment Analysis" on 31st August, 2019.



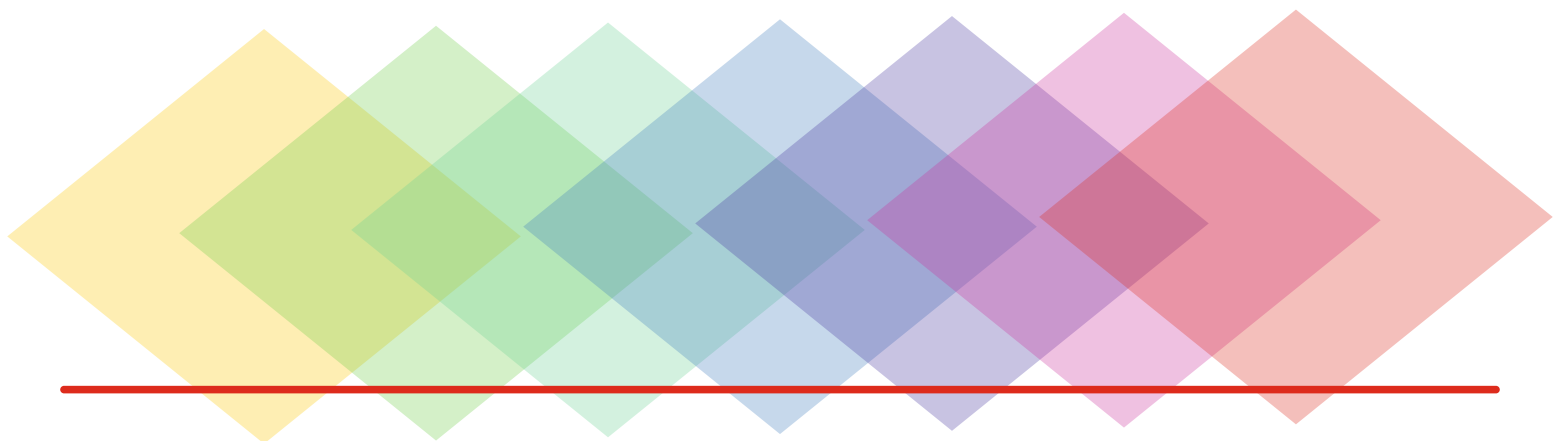
Lecture delivered by Ms. Shelley Gupta on "Sentiment Analysis".

- **Dr. Harikesh Singh** delivered a lecture to faculty and staff in faculty seminar on "How to write an effective research" on 14th September, 2019.

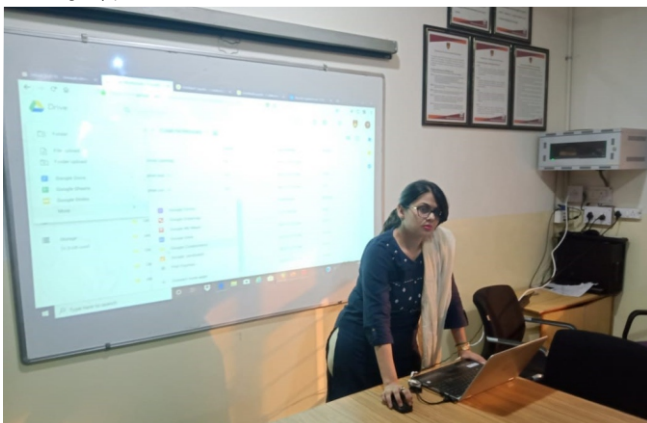


Lecture delivered by Dr. Harikesh Singh on "How to write an effective research".

- **Mr. Ashwin Perti** delivered a lecture in two days FDP on BigData Analytics, Marwadi University, Rajkot from 21st – 22nd September, 2019.
- **Mr. Ashwin Perti** delivered a lecture in two days FDP on BigData Analytics, Sri Venkateswara College of Engineering & Technology, Chittoor from October 19, 2019 to October 20, 2019.



- **Mr. Ashwin Perti** delivered two days FDP on "BigData Analytics using Hadoop", at SR Engineering College, Warangal under leadingindia.AI from 12th – 13th July, 2019.
- **Ms. Deepali Dev** delivered a lecture to faculty and staff in faculty seminar on "Data Analytics" on 16th November, 2019 October 19, 2019 to October 20, 2019.



Lecture delivered by Ms. Deepali Dev on "Data Analytics".

- **Dr. Parashu Ram Pal:** delivered a lecture to faculty and staff in faculty seminar on "Integration of Data Mining Techniques" on 28th December, 2019



Lecture delivered by Dr. Parashu Ram Pal on "Integration of Data Mining Techniques".

- **Dr. Kanika Gupta & Ms. Nandita Goyal:** delivered a lecture to faculty and staff in faculty seminar on "Cloud Forensic Frameworks based on Machine Learning Techniques" on 28th December, 2019.

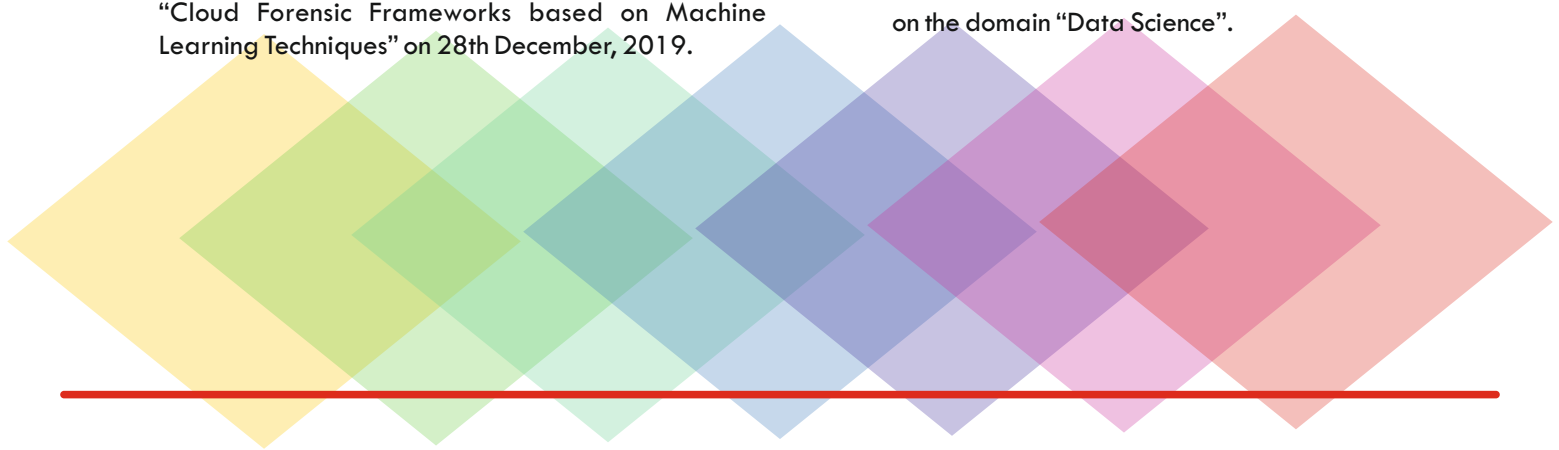
Faculty Achievements

- Mr. Yash Veer Singh submitted his Ph.D Thesis " to Department of Computer Engineering, Faculty of Technology, NSIT, University of Delhi.
- Dr. Amit Sinha attended a Leadership development program, AICTE - UKIERI for session 2019 - 2020. This LDP has 3 different programs of 5 days each and was coordinated by Dudley College, UK.



AICTE-UKIERI Leadership Program - I.

- Dr. Amit Sinha and Dr. Kanika Gupta filed a patent titled "A method and system for trash management" with application number 201911042282 in October 2019.
- Dr. Amit Sinha and Dr. Kanika Gupta received a grant of 3 Lacs under CRIP TEQIP-3 with project title "Smart Dustbin", in 2019.
- Dr. Parashu Ram Pal published a patent titled "Noise Cancelling Device" with application number 201921042041 in October 2019.
- Dr. Amit Sinha nominated as a President of Institutions Innovation Council at ABESEC
- Genero-2019 is successfully organized Genero-2019 by HOD - IT and HOD-CSE at ABESEC.
- Ms. Deepali Dev registered for Ph.D., in IP University on the domain "Data Science".



- **Mr. Ashwin Perti** attended a SPOC Felicitation at IIT Kanpur and ABES EC got AA certificate by SWAYAM NPTEL on 3rd August 2019.



Mr. Ashwin Perti, got AA certificate by Swayam NPTEL.

- **Dr. Amit Sinha** attended Leadership Development Program through UKIERI AICTE Technical Education, Jodhpur on December 2019.



AICTE-UKIERI Technical Education Program - II, at Jodhpur

NPTEL Certification

Faculty Members have successfully completed their NPTEL (National Program on Technology Enhanced Learning) Certification.

Sr.no	Name	Course	Score	Rank
1	Dr. Parashu Ram Pal	Advanced Computer Architecture	88	Elite + Silver
2	Ms. Deepali Dev	The Joy of Computing using Python	85	Elite + Silver
3	Ms. Shweta Kaushik	The Joy of Computing using Python	85	Elite + Silver
4	Dr. Amit Sinha	Accreditation and outcome-based learning	76	Elite + Silver
5	Ms. Priyanka Gupta	Python, Data Structure and	76	Elite + Silver

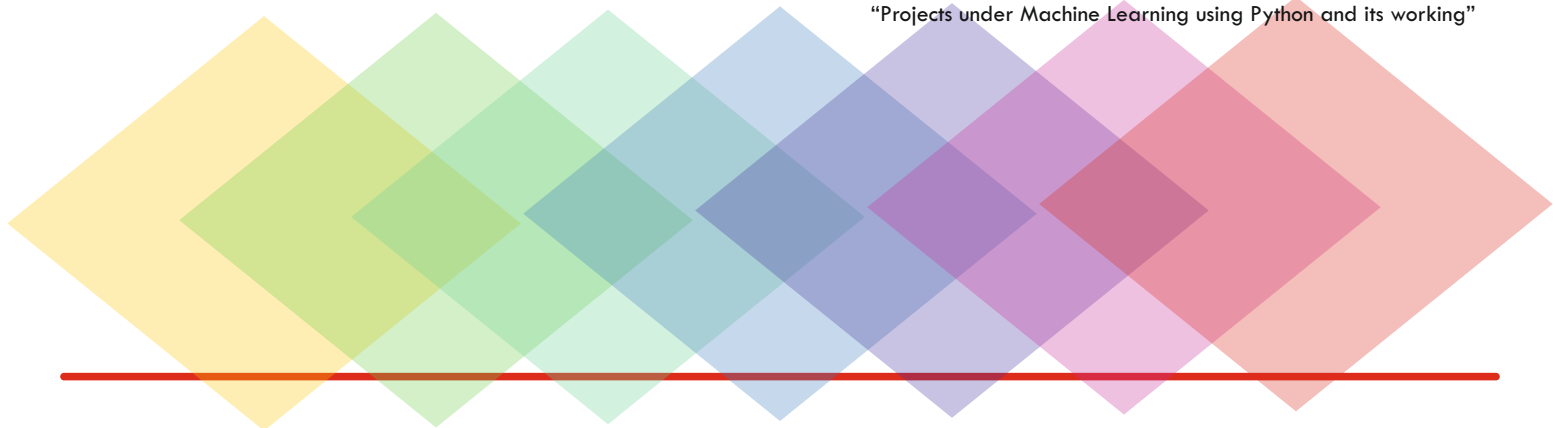
Sessions organized

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

- Mr. Mohit Uniyal (speaker), teaching Python & Machine Learning Courses at Coding Blocks delivered a guest lecture on "Machine Learning using Python" on 6th September, 2019.
- Dr. A.K. Sinha (PhD-IITD), Director-UST Technologies delivered a session on "Projects under Machine Learning using Python and its working" on 25th September, 2019.



Dr. A.K. Sinha, delivered a session on "Projects under Machine Learning using Python and its working"



- **Mr. Garvit Vaish** (Head, Strategic Initiatives at Cvent, BTech(IITD), MBA(IIM-Kolkata) delivered a guest lecture on “Employability to Deploy-ability” on 11th October 2019.

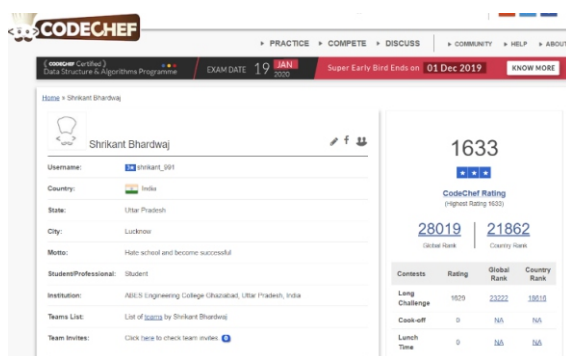


Mr. Garvit Vaish, delivered a guest lecture on “Employability to Deploy-ability”

- **Ms. Deepali Dev** has organized a workshop “Understanding Science of relationship through self-exploration” for staff members in collaboration with IQAC ABES-EC from 25th -29th, November 2019.
- **Mr. R.P. Singh** (Indian Telecom Services, DGM Network Operations, Shimla India) (speaker) delivered a guest lecture on “IPv6: Architecture & Current needs in IT Industry” on 30th December, 2019.

Student Corner

- B.Tech. (IT) 3rd year B Section student “Shrikant Bhardwaj” is a 3-star coder on international platform Code chef.



Shrikant Bhardwaj, is a 3-star coder of Code chef

- B.Tech (IT - 3rd yr Sec B) students “Vardhaman Srivastava and Neha Ahlawat” were selected for content and web development respectively in 'Innoskrit', a student-driven initiative.
- B.Tech (IT - 3rd yr Sec B) student “Madhav Bhasin” got an opportunity to work as (intern) front –end developer and manual tester for Devslane since February 2019.

Industrial Visit

The Department of Information Technology organized an industrial visit at Electronics Niketan, New Delhi on 18th September-2019 for B.Tech(IT 2nd yr) students. The Students had also attended the workshop on "Digital India Program" at Centre for e-Governance (CeG) Hall, Ministry of Electronics and Information Technology, New Delhi. The senior technical engineer addressed students and informed about what exactly Digital India is. Services such as DigiLocker, UMANG App, Payment Gateway Integration, AADHAR, etc. Also, he motivated the students to select their domain and area of interest.



Industrial Visit to Centre of E-Governance, 2019

Placements

Batch: 2016 – 2020

Top companies in terms of number of selections and packages:

Company Name	No. of selections
TCS Ninza	25
Capgemini Solutions	17
Sopra steria	7
Infosys	5
Newgen Technologies	4
QA Infotech	4
NEC	3
Global Logic	2
TCS Codevita	2
Wipro	2

Company Name	Package (LPA)
Lido Learning	10
Mavenhive	8
Power Programmer infosys	8
Hashedin	8
Hughes	7.36
TCS Digital	7.1
Centylitics	6
InfiTQ	5.5
Cyfuture	5

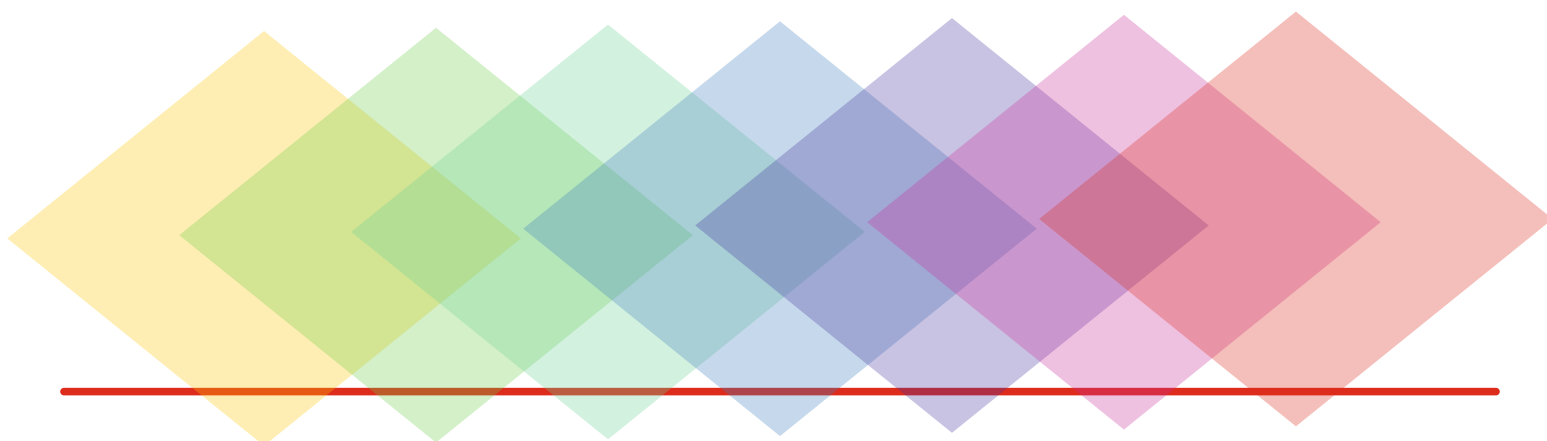
Batch: 2015 – 2019

Highest salary package of IT student was 8 LPA.

Top companies in terms of number of selections and packages:

Company Name	No. of selections
Capgemini India	29
VVDN Technologies Pvt Ltd.	15
Wipro Ltd.	14
Cognizant Technology Solutions	9
PaperByte Pvt. Ltd.	8
To The New	6
Tata Consultancy Services	5
Centylitics	4
NEC Technologies	4
AKS IT Services Pvt. Ltd.	3

Company Name	Package (LPA)
Devslane	8
Samsung R&D Institute India	7.5
HSBC Software Development (India) Pvt. Ltd.	7
Drishti Soft Solutions Pvt. Ltd.	6.15
EPAM,Eckovation Solutions Pvt. Ltd.	6
Centylitics	5.5
Robert Bosch	5
Verse Innovation Private Limited (DailyHunt)	4.5
NEC Technologies	4
SopraSteria Group	4



Industry-Alumni Interaction



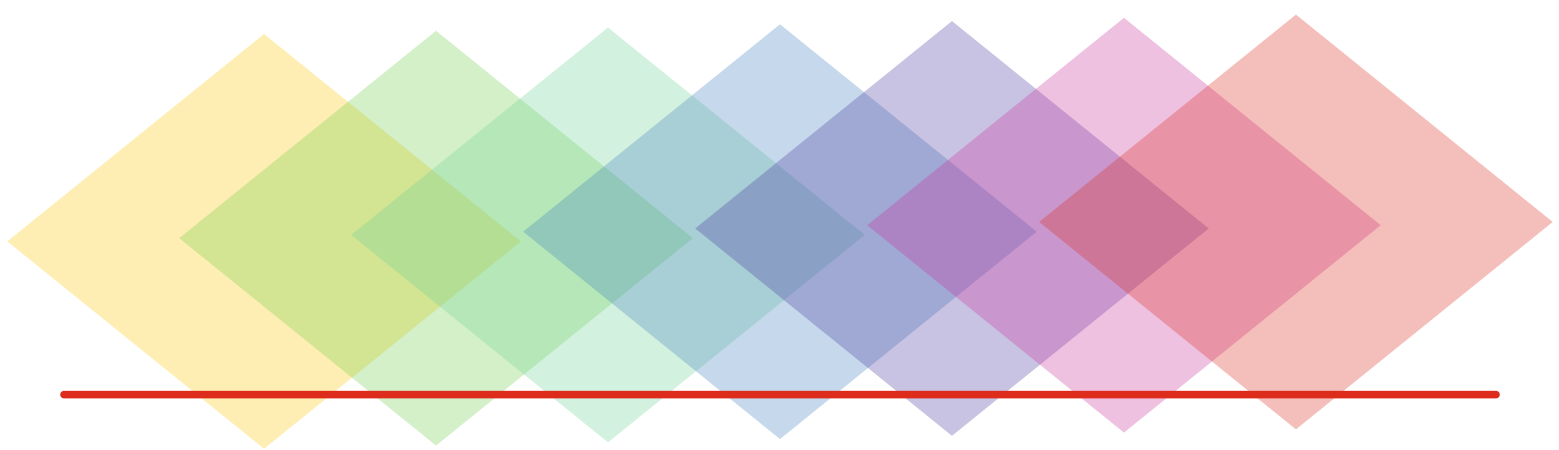
An alumni interaction with Mr. Tanay Bansal (Batch 2013-17) with Students of IT Department



An alumni interaction with Ms. Yashi Gupta (Batch 2014-18) with Dr. Amit Sinha (HOD - IT).

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

- Department of Information Technology, conducted a technical session on "Higher Studies including CAT, GATE, and other Competitive Examination" by Mr. Tanay Bansal (IT Alumni, Batch 2017) on 16th August, 2019.
- Department of Information Technology, conducted an interaction with alumni Ms. Yashi Gupta (Batch 2014-18) with Dr. Amit Sinha (HOD - IT). Ms. Yashi suggested vital points related to career for upcoming batches. She also highlighted some demanding sectors i.e. Machine Learning, Cyber Security where our students should work and do the projects during semester. etc. Link: <https://www.facebook.com/1493589300958116/posts/2358466174470420/>



Our Shining Stars

S.no	Name	Percentage	Rank	Award
1	Sweta Malik	86.42	3rd	Chairman Silver Medal 21000/-
Final Year (2018-19)				
2	Sweta Malik	86.42	1st	Director Gold Medal
3	Yukti Sharma	81.8	2nd	Director Silver Medal
Third Year (2018-19)				
4	Shreya Yadav	8.94	1st	Director Merit Certificate
5	Swati Singh	8.94	2nd	Director Merit Certificate
Second Year (2018-19)				
6	Kanika Sharma	8.92	1st	Director Merit Certificate
7	Ankit Sharma	8.75	2nd	Director Merit Certificate



Creativity

A Letter to the 90s Kids

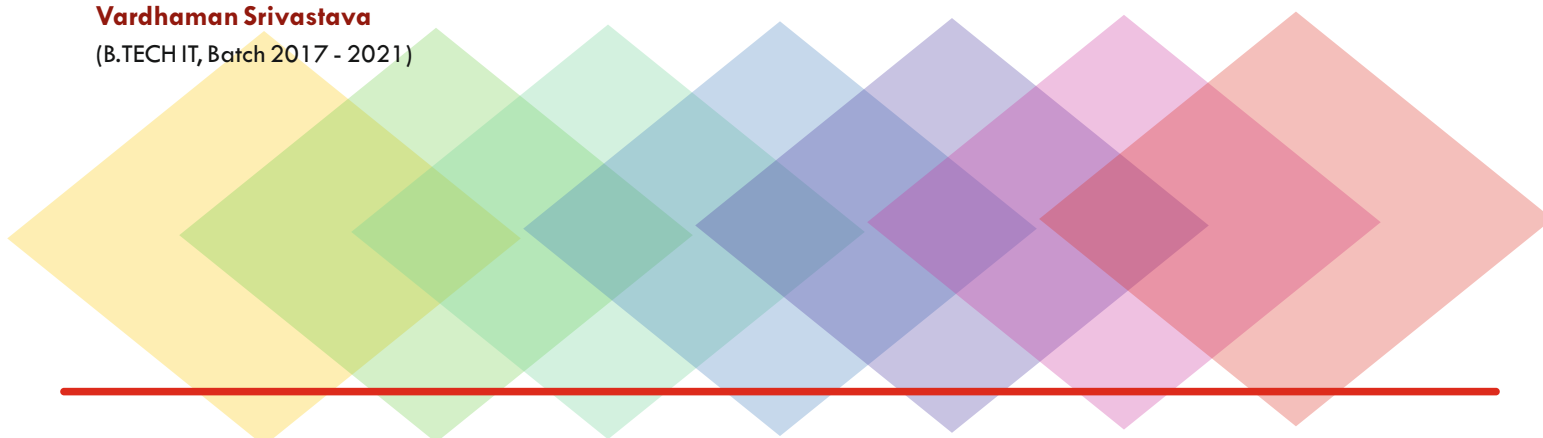
Dear 90s Kid,

I hope that my old fashioned way of me hoping that this letter finds you in good health, will make you nostalgic. Thinking of the 'good old days' I feel very happy and sad and sometimes I wish that I could turn back time. With my upcoming placements, I am writing this letter to share my worries with you. The competition is so tough and the hopes are so high that it feels like you against the world. What scares me the most are the generations coming after us are catching up to us and even surpassing us. The upcoming generation is blessed with a power, that everyone has now, at the age when we were playing in mud. The Internet gives them so much power and so much freedom of thoughts. They can instantly look up stuff, learn new things and skills and explore whatever they want to be. After talking to a few of my younger cousins I found out that their level of self-awareness and confidence is equal to me and I found out that compared to them I am socially awkward. It's great that I had the time to share my feelings and worries with you.

I hope that those memories of past hidden deep inside you and me will encourage us to keep doing our best. With lots of love and best wishes for the future,

Vardhaman Srivastava

(B.TECH IT, Batch 2017 - 2021)



Congratulations!!



**A student (batch 2016 – 2020),
an intern at Amazon, Bangalore**

amazon



**A student (batch 2015 - 2019),
rank holder in University.**

Batch 2020

Our Patrons

Chief Patrons

Sh. Neeraj Goel
President
Sh. Sachin Goel
Vice President

Patrons

Prof. Shailesh Tiwari
Director

Chairman, Publication

Dr. Amit Sinha
Head, IT Dept.

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ABES Engineering College

NAAC Accredited, NBA Accredited Branches (CSE, ECE, IT & EN) & ISO Certified
19th Km Stone, NH 09 (Formerly NH-24), Ghaziabad 201009, UP
Ph: 0120-7135112, Fax : 0120-7135115 Mobile: +91-9999889341
Email: info@abes.ac.in, Website - www.abes.ac.in