

insightIT

Department of Information Technology

Bi-Annual Magazine

Jan.-June, 2019
Volume 4, Issue 2



Estd. 2000

ABES
Engineering College

Message from Director

It gives me immense happiness to release vol.4 issue 2 of "Insight IT". The magazine gives a glimpse of the IT department to the public-at-large who are one of the stakeholders of the college. My felicitation and congratulations to the editorial board for their prolific work reflected in the magazine. This is a platform where faculty members and students share their achievements and creativity. I hope the current issue will definitely motivate students to share their knowledge. It aims to inspire and flourish upcoming engineers bringing revolution in the ever evolving technological advancements. We intend to continue presenting the talent and creativity of our faculty members and students through "Insight IT".



Prof. Vijay Athavale

Message from HOD-IT



Dr. Amit Sinha

I congratulate the team that has taken the initiative for producing this magazine. It is great to find a considerable number of articles, poems etc. that certainly prove that our staff and students are adequately 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 staff. It will also encourage our faculty members and students to contribute in subsequent issues. I congratulate and thank all the students and faculty coordinators who have made untiring efforts to bring out this magazine.

Message from Editor

Dear Readers,

Greetings! Being the Editor, I feel privileged in presenting 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 new section "Creativity" for both faculty and students. We welcome all valuable suggestions for continuous improvement of upcoming issues.



Mr. Ashwin Perti

Happy Reading!

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)

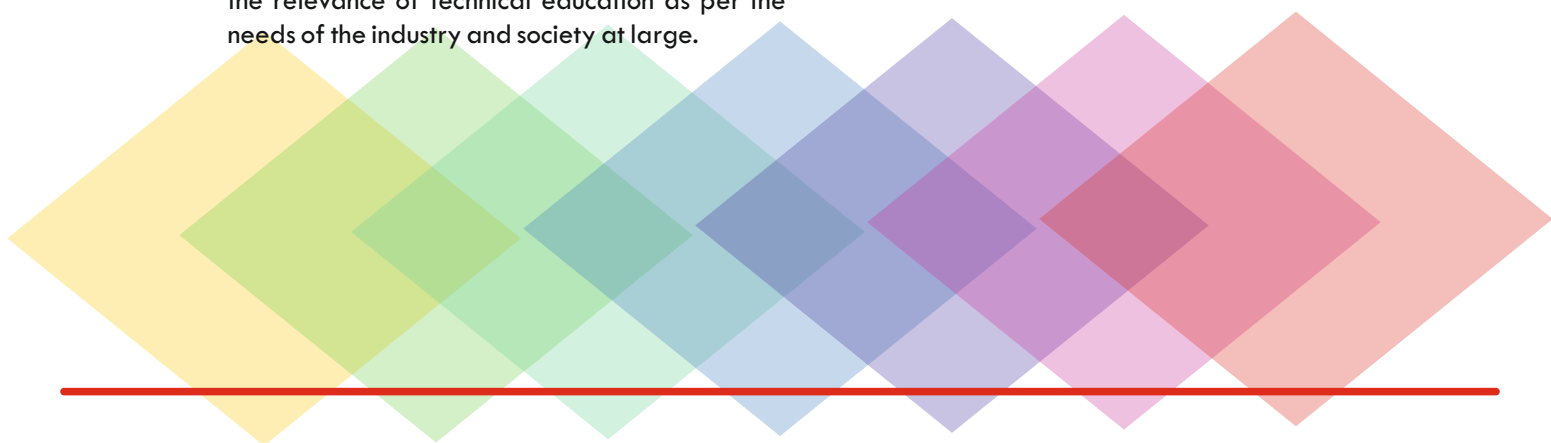
The Detailed Program Educational Objectives (PEOs) are as follows:-

- 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.

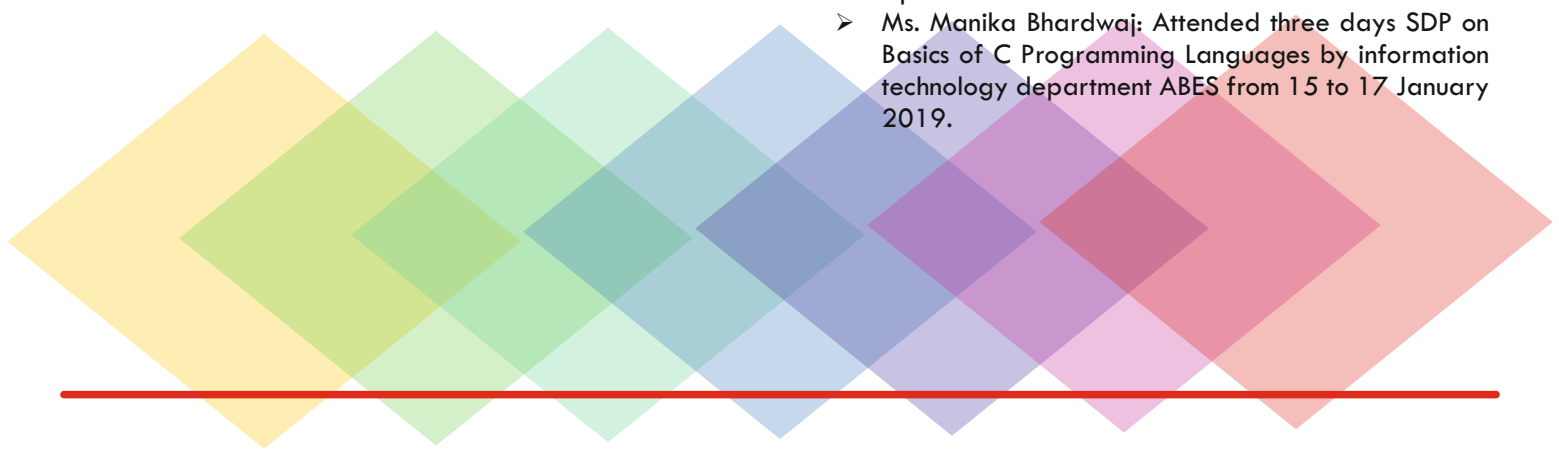
Faculty Corner

Workshop Organized

Dr. Amit Sinha has been invited for conducting a workshop on deep learning under Leadingindia.ai, an initiative of Govt. of India. This workshop was conducted at R V R & J C College of Engineering, Guntur, Andhra Pradesh in the month of Feb-2019.

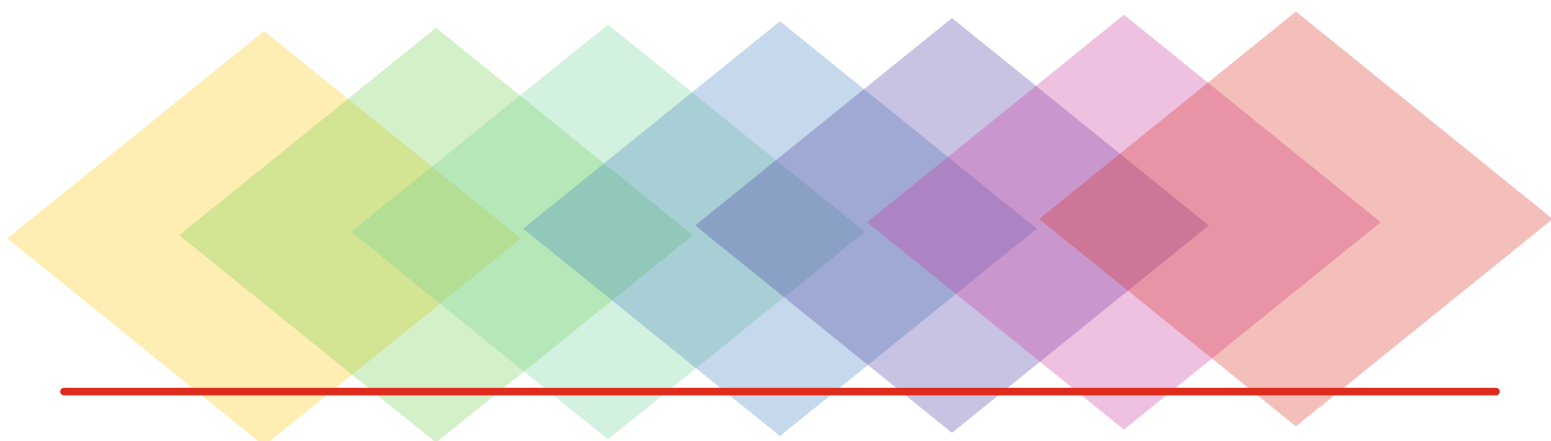
FDP Attended

- Dr. Parashu Ram Pal: Attended one week FDP on "Student Evaluation (Module III: IPD) through ICT", conducted by NITTR Chandigarh, from 07-11, January 2019.
- Dr. Parashu Ram Pal: Attended one week FDP on "Computational Intelligence", conducted by Department of CSE, ABES Engineering College, from 29 April-03 May, 2019.
- Ms. Jagreeti Kaur: Attended two days FDP on Leadership Skills for Teachers through ICT Academy, from 6th may to 7th May 2019.
- Ms. Shelley Gupta: Attended two days FDP on Leadership Skills for Teachers through ICT Academy, from 6th may to 7th May 2019.
- Ms. Nandita Goyal: Attended fifteen days FDP on 'Teaching Pedagogy' by NITTTR Kolkata, from 20th May to 31st May 2019.
- Ms. Manika Bhardwaj: Attended one week FDP on "Student Evaluation (Module III: IPD) through ICT", conducted by NITTR Chandigarh, from 07-11, January 2019.
- Mr. Manish Srivastava: Attended fifteen days FDP on 'Teaching Pedagogy' by NITTTR Kolkata, from 20th May to 31st May 2019.
- Mr. Manish Srivastava: Attended three days SDP on Basics of C Programming Languages by information technology department ABES from 15 to 17 January 2019.
- Ms. Deepali Dev: Attended one week FDP on "Outcome based Pedagogic principle for effective teaching and learning" by CSE department, ABESEC from 22nd to 26th April 2019.
- Dr. Kanika Gupta: Attended one week FDP on "Outcome based Pedagogic principle for effective teaching and learning" by Computer science & engineering department ABES from 22nd to 26th April 2019.
- Ms. Manika Bhardwaj: Attended three days SDP on Basics of C Programming Languages by information technology department ABES from 15 to 17 January 2019.



Publications

- **Dr. Amit Sinha** published a research paper “Toled: Tonata Leaf Disease Detection using Convolution Neural Network” in ICCID S-2019, available on Science Direct Procedia Computer Science, 1077-0504-2019.
- **Ms. Deepali Dev** et.al., published a paper titled “An Implementation of Efficient Line Clipping Algorithm” in Scopus Indexed International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol 8(7S) PP 295-298, May, 2019.
- **Ms. Deepali Dev** et.al., published a paper titled “Analysis of Chatbot Data Generation using LSTM” in Scopus Indexed International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol 8(6S) PP 601-603, April, 2019.C13.
- **Dr. Kanika Gupta & Ms. Nandita Goyal**, published a paper titled "Optimal Reduction of Noise in image processing using collaborative in painting filtering with K-means clustering" in Imaging Science journal, Taylor and Francis Group.
- **Dr. Kanika Gupta & Ms. Nandita Goyal**, published a paper titled " Cloud forensic frameworks based on machine learning techniques" in Scopus Indexed International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-8 Issue-8S3, June 2019.
- **Dr. Parashu Ram Pal** et.al., published a research paper “Humanitarian Impact of Drones in Healthcare and Disaster Management” in International Journal of Recent Technology and Engineering, ISSN2277-3878, vol. 7, issue 5, pages 201-205, January 2019. (Indexed in Scopus).
- **Dr. Parashu Ram Pal** et.al., published a research paper “Fifth Revolution: Applied AI & Human Intelligence with Cyber Physical Systems” in International Journal of Engineering and Advanced Technology, ISSN2249-8958, vol. 8, issue 3, pages 23-27, February-2019(Indexed in Scopus).
- **Dr. Parashu Ram Pal** et.al., published a research paper “Machine Learning Techniques for Detecting and Predicting Breast Cancer” in International Journal of Innovative Technology and Exploring Engineering, ISSN2278-3075, vol. 8, issue 7, pages 2658-2662, May2019. (Indexed in Scopus), ISSN: 2278-3075, Volume-8 Issue-6S, April 2019.
- **Mr. Ashwin Perti** et.al. published a paper titled “Security Issues with Self-Signed SSL Certificates” in Scopus Indexed International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol 8(7S) PP 2278-3075, June, 2019.
- **Ms. Manika Bhardwaj** published a paper titled " Graphical Analysis of Information and Communication Technology in Applications" in Scopus indexed International Journal of Innovative Technology and Exploring Engineering (IJITEE).
- **Mr. Yash Veer Singh** published a paper titled " A Hybrid Approach for Requirements Prioritization Using LFPP and ANN" in " I.J. Intelligent Systems and Applications,2019, 1, 13-23.
- **Mr. Yash Veer Singh**, published a paper titled " A Novel Approach of Requirements Prioritization Using Logarithmic Fuzzy Trapezoidal AHP for Enhancing Academic libray service” in IEEE Xplore Digital library.
- **Ms. Shelley Gupta** et. al., has presented a paper titled “Sentiment Analysis: Usage of Text and Emoji for Expressing Sentiments" in International Conference of ICDIS-2019, Mar 2019Dr. Amit Sinha HOD-IT during Session in FDP on Outcome Based Curriculum Design under TEQIP-III AKTU Guest Lectures Jagreeti kaur et. al. has presented a paper titled" Factors affecting psychological state of youth in India “in International Conference of ICDIS-2019, Mar 2019.



Guest Lectures

- Dr. Parashu Ram Pal delivered a session on C programming in Staff Development Program conducted on 15-17 January 2019, in ABES Engineering College, Ghaziabad.



Dr. Parashu Ram Pal during SDP Session on Basic of C Programming ABESEC.

- Mr. Ashutosh Garg delivered a lecture on How to become Entrepreneur for department of information technology 2nd year students on 9th April 2019.
- Dr. Amit Sinha delivered a lecture session on Outcome Based Curriculum Design in AKTU funded FDP invited by Department of CSE ABESEC under TEQIP-III scheme on 24th April 2019.



Dr. Amit Sinha HOD-IT during Session in FDP on Outcome Based Curriculum Design under TEQIP-III AKTU

Faculty Achievements

- Dr. Parashu Ram Pal filed a patent titled "Multifunctional Repellent Apparatus" with application number 201921003607 in march 2019.
- Ms. Manika Bhardwaj is enrolled for PhD program at Bennett University, Greater Noida in Jan-2019.
- Dr. Parashu Ram Pal: Chaired a session in an International Conference on System Modelling Simulation and Intelligent Computing (ICSMSIC-2019) held at ABES Engineering College Ghaziabad on 8-9 March, 2019.
- Ms. Manika Bhardwaj: cleared an EDX online Professional Certificate Programs on machine Learning with 87 % score.
- Mr. Manish Srivastava: cleared a RPA online certification on UIPATH with 80 % score.

Upcoming Events

Faculty Development Programme

Dr. Amit Sinha is selected for LDP. This LDP will be conducted by AICTE-UKIERI. The program will have three workshops in different months and at different locations in India.

NPTEL Certification

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

Sr.no	Name	Course	Score	Rank
1	Dr. Parashu Ram Pal	Computer Organization and Architecture	90	Elite + Gold
2	Mr. Jitendra Kumar Chauhan	The Joy of Computing Using Python	75	Elite + Silver
3	Ms. Deepali Dev	Compiler Design	66	Elite

Event organized

The Department of information technology organized an International Conference on System Modelling Simulation & Intelligent Computing (ICSMSIC 2019) on 8th & 9th March 2019 in collaboration with Department of MCA. The conference was a funded conference under TEQIP-III scheme of Dr. A.P.J. Abdul Kalam Technical University(AKTU). This conference was conducted to promote research and development in the field of modelling simulation and prevalent technologies of intelligent computing. The selected papers were sent to published in (Internal journal of engineering and advance technology (Scopus indexed journal)).

Keynote speakers:

Dr. Dipankar Das Gupta, IEEE Fellow, ACM Distinguished Speaker Director, Center for Information Assurance William Hill Professor of Computer Science. The University of Memphis, TN 38111, USA.

Dr. Mansaf Alam Associate Professor & Young Faculty Research Fellow, DietY, Govt. of India, Department of Computer Science, Jamia Millia Islamia, New Delhi, India. Mohamed Slim Alovini, King Abdullah University of Science and Technology.



Dr. Amit Sinha, Mr. Ankit Arora, Shri Raghunandan Ji, Prof. Vijay Athavale, Prof. Deepankar Das Gupta, Mr. Piyush Agarwal, Prof. Gajendra Singh and Dr. Pankaj Kumar Sharma (left to right).



Prof. Deepankar Das Gupta (Left) and Shri Shri Raghunandan Ji (Right)

Our Shining Stars

Year: 4 th Session: 2015-19		Remark
Name	%	1 st Division (Among top 10 of all the AKTU colleges)
Shweta Malik (1503213110)	86.42	
Year: 3 rd Session: 2016-20		
Name	%	3 rd year Topper
Swati Singh (1603213112)	88.4	
Year: 2 nd Session: 2017-20		
Name	%	2 nd year Topper
Kanika Sharma (1703213044)	86.7	

Creativity

Bounded by Myriads of Flower
There Is an Odd Tree
Its Leaves Are All Pitch Black
Since The Time Here I Have Been
There Is Quite a Popular Rumour
How The Leaves Were Once Auburn Red?
But The Hatred Around It Was So Great
It Was All the Tree Ever Felt
Its Rufescent Bled Away Slowly
And The Passerby Wondered Why
Although No One Heard the Silent Wails
The Tree Let Out Every Single Night
Now The Tree Comes to Me Each Night
And Convinces My Heart to Stay Auburn Red
For The Tree Understands the Pain:
The Wails of a Heart Unloved.

The Dead Tree



By: Aryan Damele
IT 3rd Year, 1703273024

Industrial Visit

The Department of Information Technology organized an industrial visit at Apron Solutions Pvt. Ltd, Noida on 1st March-2019 for B.Tech (IT) 3rd year students. The Students had been given an insight knowledge on various networking concepts such as:

- Network Topologies
- Ipv4 Addressing
- Basic Configuration of Switch
- Basic Configuration of Router
- Introduction of AWS Cloud

Cisco Certified Trainers delivered a session on live working of various devices. Students visited their Switches and Routers through their advance networking Labs and gone through different projects handled by expert in the organization.



Networking Lab, APTRON Solutions, Noida

Alumni Interaction

The Department of Information Technology Conducts 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:

ABESEC Alumni Association (AAA) organized an Alumni Meet cum Decadal Celebration on Saturday 9th February 2019. Mr.Ashwin Perti and Ms. Shelley Gupta were the coordinators from IT department. Event was great success as many students reverted in Alumni meet. Students shared their valuable experiences.

ABES Alumni Association (AAA) jointly with Department of Information Technology, conducted a technical session on the topic 5G mobile network trends on 14 September 2018. The workshop was delivered by an Alumni Mr. Satees Kumar (2008), Solution Architect at Sterlite Technologies, Ahmedabad.



Alumni Mr. Satees Kumar (2008), Solution Architect at Sterlite Technologies, Ahmedabad.

Student Corner

Hackathon-2019

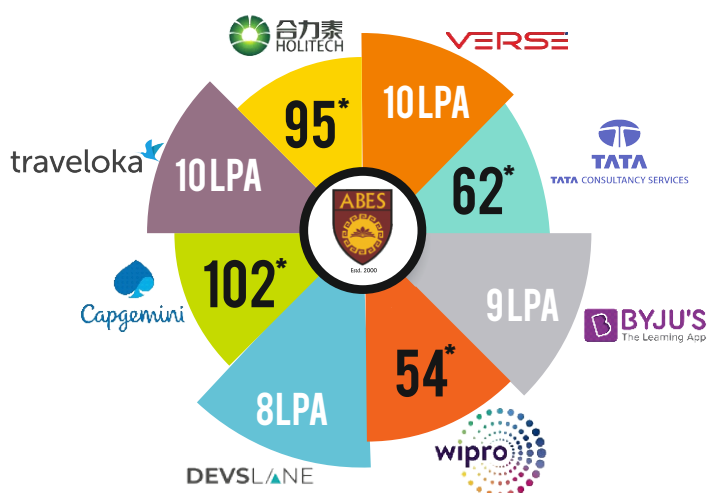
ABESEC in collaboration with Analytix Labs, Gurgaon organized Hackathon-2019 on Machine Learning on 12th March, 2019. Students of different branches participated on various topics allocated by Analytix Labs. There were two rounds and each problem had group of students along with one mentor. Department of IT has secured 1st and 3rd prize in this Hackathon-2019. Mentor for both the groups was Mr.Ashwin Perti from IT department.



Certificates distribution by Sh.Sachin Goel Vice President, Sh. Raghunandan Kansal Member Advisor, Ms Rajshree Goel, Mr. Amit Goel CTO, Dr. Amit Sinha Head-IT.

Placement

IT Department has always put its mark in placement. Highest salary package of IT Student is 8 LPA (Devslane). Around 11 companies offered more than 5 LPA to 14 students and still in process.



Top Companies in terms of selection and packages.

COMPANY	SELECTIONS
Capgemini India	29
VVDN Technologies Pvt Ltd.	15
Wipro Ltd.	14
NTT Data	7
Paper Byte Pvt. Ltd.	6
COMPANY	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
Eckovation Solutions Private Limited and EPAM	6

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President
Sh. Sachin Goel
Vice President

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Dean Academics

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Head, IT Dept.

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ABES Engineering College

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