



Estd. 2007

Academic Session
2017-18

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VISION

- To become a front runner in transforming the individuals into competent IT professionals, to meet the needs of evolving technology and serve the humanity.

MISSION

- To impart quality education with innovative teaching learning process to develop culture of research and innovation.
- Collaborate and interact with industry professionals, academicians to provide suitable forums to exhibit the creative talent of students.
- Provide leadership and planning for effective and strategic use of information technology.



It is matter of pleasure and pride that Department of Information Technology is coming out with Departmental News Letter, which will showcase departmental activities. I am sure under the able leadership of Bipin Kumar Rai, department will ensure that students will get ample opportunities to participate in diverse co-curricular and extracurricular activities in order to prepare them as a wholesome global professional. I hope this newsletter will provide with a quick peek at all of departmental activities & developments. I wish a grand success and its editorial team.

Prof. (Dr.) Bhavesh Kumar Chauhan
Director, ABESIT



I am happy to congratulate the team that has taken the initiative for this Department Newsletter for the academic year 2017-18. This Newsletter acts as a platform for students and faculty to share the latest technical knowledge and cultivate right ways that will equip all of us to stay competent in our respective fields of study and research. IT technical club members have taken several initiative to organize technical events in the department, I congratulate all the IT technical club members for their contribution and efforts. I also congratulate and thank all the students and Faculty, specially Richa Mehra for her untiring efforts to publish this Newsletter. I hope that everyone would continue to give their full efforts to keep the momentum.

Bipin Kumar Rai,
Associate Professor
Department Incharge, IT



I feel elated to present the first issue of Department's Newsletter which highlights the activities of academic session 2017-18. This issue covers all the achievements of star performers of IT department including students and the teaching fraternity as backbone. The achievements and the activities were numerous and we have tried to cover every bit of it in a best possible way. I take this opportunity to thank the department leadership for their support and suggestions during this work. I would also like to thank all the members of editorial board as it was not possible to publish this issue without their active contribution. I have left no stone unturned to give this edition the best shape but would like to invite further suggestions to make future editions even better.

- Ms. Richa Mehra
Editor

FACULTY DEVELOPMENT PROGRAM



A Five day Faculty Development Program on “**ANDROID APP DEVELOPMENT**”, sponsored by **Dr. APJ Abdul Kalam Technical University**, was organized from **March 15 to 19, 2018**. The Chief Guest for the Inaugural ceremony was **Prof. (Dr.) H M Gupta** from **IIT Delhi**. The Speakers for the FDP were **Mr. Vijay Rastogi, Director, SISOFTECH Technologies Pvt. Ltd., Mr. Shwetank Sharma, Mobile App Developer, SISOFTECH Technologies Pvt. Ltd., Mr. Pawan Sharma, Android Expert, CETPA Infotech Pvt. Ltd., Mr. Anirudh Kumar, Android Expert, CETPA Infotech Pvt. Ltd., Mr. Rahul Pathak, Android Expert, CETPA Infotech Pvt. Ltd. and Mr. Mohit Sharma, Technical Lead, TO THE NEW.**

Faculty Development Program (FDP) was organized on **January 9, 2018** for **Artificial Intelligence, Analytics, and Business Intelligence** with **TCS experts** as **Mr. Rajit Sikka, Academic Relationship Manager** and **Mr. Pankaj Bhardwaj, Technical Architect - Data & Analytics**. Also FDP for “**Telecom Convergence**” was organized on **21st July, 2017** by **TCS Consultant, Mr Vivek Yadav**.



WORKSHOPS & EXPERT TALKS

Workshops

Various workshops and expert talks on latest technologies have been organized by the department to make the students aware of the trending technologies in which experts are from renowned industry delegates.

- **Android App Development on February 23,2018**
- **UML & Designing on November 16 ,2017**
- **Machine Learning on November 3 ,2017**
- **Web designing using PHP on 7 September,2017**
- **Cloud Computing on 25 August,2017**
- **R Language on 23 August,2017**
- **Internet of Things on 22 August,2017**
- **Python on 21 August,2017**
- **Cyber Security on 18 August ,2017**

Expert Talks

SUMMER TRAINING PROGRAM

PYTHON WITH MACHINE LEARNING



Department organized a summer training program on “**Python with Machine Learning**” of **4 weeks** from **June 11, 2018 to July 6, 2018**. This program was organized by **Prof. Faraj Chishti** with the help of trainers from **CETPA Infotech Pvt. Ltd.** Total **40 students of II & III year** were benefited from the training program. This training was carried out in two phases. Phase 1 was for Python programming language of 80 hours and 16 students were in the training. Phase 2 was for Python of 40 hours & Machine Learning for 40 hours and 25 students were in the training.

IT TECHNICAL CLUB EVENTS



A **Technical Quiz** was organized on **September 27, 2017**. **25** students of **IV Year** participated in the event. **First** position was hold by **Srajan Sahu** and **Second** position was hold by **Deepak Kandpal**.

A **Programming Challenge** was organized on **October 7, 2017**. **17** students of **II & III Year** participated in the event. **Dharmendra Gupta** (III year) was the winner for the event.



A **Group Discussion** was organized on **October 30, 2017**. **44** students of **II Year** participated in the event. **First** position was hold by **Ankit Kumar Atras** , **Second** position was hold by **Yash Kulshreshtha & Sarthak Verma** and **Third** position was hold by **Nitesh Dev & Ankita Saxena**.

A **Logo Designing** event was organized on **November 6, 2017**. **84** students of **II, III & IV Year** participated in the event. **Abhishek Kamboj** was the winner for the event.



An **Aptitude Test** was organized on **November 20, 2017** by IT Club. **40** students of **II Year** participated in the event. **First** position was hold by **Janvi Jaiswal**, **Second** position was hold by **Shubham Gupta** and **Third** position was hold by **Shivam Choudhary**.



A coding event, “**Code Unite**” was organized on **February 1, 2018** on **Hacker Rank platform**. **26** students of **II & III Year** participated in the event. **First** position was hold by **Shyam Kumar (III Year)**, **Second** position was hold by **Shiva Tiwari (II Year)** and **Third** position was hold by **Joy Joseph (III Year)**. Event was organized by **Dharmendra Gupta, Bhanu Pratap Singh and Aman Nagvanshi (III Year)**.

An **Extempore** was organized on **March 12, 2018**. **21** students of **III Year** participated in the event.. Event was judged by **Ms. Faraj Chishti** (Asst. Prof., IT). **First** position was hold by **Pulkit Garg & Yashdeep Singh**, **Second** position was hold by **Bhanu pratap Singh & Sparsh Sharma** and **Third** position was hold by **Talib Alam & Parnita Sharma**.



A **Talk on CMS** was organized on **March 26, 2018**. **21** students of **III Year** participated in the event. **Shivam Chaudhary (III Year)** used various presentations to give a wide and effective approach of CMS to the students. He had also shown the development process for a website on Wordpress.

A **Group Discussion** was organized on **April 9, 2018**. **17** students of **III Year** participated in the event. For Group 1 winner was **Sagun Saluja** and for Group 2 winners were **Pulkit Garg and Aayush Jain**. Event was judged by **Ms. Faraj Chishti** (Asst. Prof., IT). Student Coordinators for the event were **Dharmendra Gupta, Parnita Sharma, Riya Shrivastav and Aman Ngvanshi**.



STUDENT'S ACHIEVEMENTS

SMART INDIA HACKATHON 2018

ABESIT Shines at **SMART INDIA HACKATHON 2018 (SOFTWARE EDITION)** organized by **MHRD, Govt. of India**. SMART INDIA HACKATHON was promoted by the Ministry of Human Resource Development and the AICTE to tap the talent of engineering students and also to provide solutions to problems of various Ministries and Departments of the Central and State Governments. There were 12047 team submissions (1 Lac participants approximately) for the event out of which 1296 shortlisted teams participated in the Grand Finale.



8 Teams from ABESIT participated in the Grand finale at various cities like Bhopal, Indore, Mumbai, Nagar, Bhubaneswar, Guwahati, Kurnool, and Hyderabad on **March 30-31, 2018**.

Congratulations

ABESIT Team, 'Tech Amigos' received **II Rank** at Mumbai center with the

cash prize of Rs 75,000 by Ministry of Consumer Affairs, Food and Public Distribution, Govt. of India.

ABESIT Team, 'Divergents' received **III Rank** at Bhubaneswar center with the **cash prize of Rs 50,000** by Ministry of Skill Development & Entrepreneurship, Govt. of India and **Rs. 25000** by Karnataka Bank (Center Sponsor).

ABESIT Team, 'Salvatore' received Inspiration award at Hyderabad center with the **cash prize of Rs 10,000** by Ministry of Electronics and Information Technology, Govt. of India and Government of Arunachal Pradesh.



CONGRATULATIONS!

ABES Institute of Technology participated in **Agriculture Grand Challenge** organized by Government of India at **Startupindiahub.org.in**.

Parnita Sharma, student of B.Tech. (IT)-III Year participated in the Challenge under the category of problem for the **Adulteration of Crops**.

Based on her submitted idea, she got the chance to attend **Idea Farming Workshop** organized by **Startup India** at **RBCC hall, Rashtrapati Bhavan** for Festival of Innovation & Entrepreneurship on **March 20, 2018**.

This Idea Farming Workshop was regarding mentoring and funding for those who were interested to nurture their startups under the guidance of mentors and support of investors. It aims to provide great opportunities to every individual who wants to dream for the nation and is willing to contribute to the nation. She got the advantage of interacting with the experts from various fields like agriculture, geology, etc. Her idea is about to provide a low cost solution to prevent and minimize the adulteration by the development of the software for kiosk to make the solution reachable to the farmers.



STUDENT'S ACHIEVEMENTS

25 students placed out of 58 students in various prestigious companies like, **Sopra, Wipro, HCL, Amazon, Nucleus Software, QA Infotech and others.**



Shivanshu Kumar, starts his entrepreneurship with the company, as Frantic Infotech Pvt. Ltd.

Aniket Bansal for doing MBA from NIT, Warangal

ALUMNI Contribution

Our Alumni **Ashish Mishra**, Founder of Pupil Store Company took session a "Placement scope on Java" which was organized on March 29, 2018. 39 students of 3rd year raised acquaintance by the session.

Congratulations

Saloni Singhal stood in AKTU Merit list in academic session 2016-2017.

13 students published papers on upcoming technologies in various prestigious journals.

DEPARTMENT EVENTS

Tetrahedron

A 2 day inter-college technical competition, **Tetrahedron** was organized jointly by IT & CS Department, in collaboration with Computer Society of India (CSI), graced with the presence of **Mr. Saurabh Agarwal, former Chairman, CSI Ghaziabad Chapter** as the guest of honor. 283 students from different institutes of AKTU of NCR region participated in this event.



BIG DATATHON'18



Department of IT & CSE, in association with the Computer Society of India, Ghaziabad Chapter organized a three days National Level Project competition "Big DataThon'18" on April 19-21, 2018. Various events were held in the Big Datathon 2018. On third and last day, participants were awarded for their contribution and performance in Award Distribution Ceremony.

In **Big War Project Competition**, 17 teams from various colleges participated out of which **Rahul Bandhan & Team (ABESIT)** won **First Prize (Rs. 15000/-)**, **Devraj Kumar & Team (ABESIT)** won **Second Prize (Rs. 8000/-)** and **Shivam Choudhary & Team (ABESIT)** won **Third prize (Rs. 5000/-)**.

In **Quiz Competition**, 303 students participated where **First prize (Rs. 3000/-)** was won by **Prashant Sharma (ABESIT)**, **Second Prize (Rs. 2000/-)** was won by **Parichay Agarwal (ABESIT)** and **Third Prize (Rs. 1000/-)** was won by **Vishal Giri (ABESEK)**.



In **Startup Idea Competition**, 10 teams participated and the **First Prize (Rs. 3000/-)** was won by **Aakash Singhal & Team (ABESIT)**, **Second Prize (Rs. 2000/-)** was won by **Ayashkant and team (ABESIT)** and the **Third Prize (Rs. 1000/-)** was won by **Vartika Singh and team (ABESIT)**.

In **Debate Competition**, 30 students participated where **First Prize (Rs. 3000/-)** was won by **Akansha Pandey (KIET)**, **Second Prize (Rs. 2000/-)** was won by **Karan Pratap Singh (ABESIT)** and **Third Prize (Rs. 1000/-)** was won by **Pulkit Shrivastava (GNIOT)**.



STUDENT CORNER

Big data

Big data usually includes data sets with sizes beyond the ability of commonly used software tools to capture, curate, manage, and process data within a tolerable elapsed time. Big data "size" is a constantly moving target, as of 2012 ranging from a few dozen terabytes to many petabytes of data.

Factory work and Cyber-physical systems of Big data may have a 6C system:

- Connection (sensor and networks)
- Cloud (computing and data on demand)
- Cyber (model and memory)
- Content/context (meaning and correlation)
- Community (sharing and collaboration)
- Customization (personalization and value)

Big data challenges include capturing data, data storage, data analysis, search, sharing, transfer, visualization, querying, updating and information privacy. Data sets grow rapidly - in part because they are increasingly gathered by cheap and numerous information-sensing Internet of things devices such as mobile devices, aerial (remote sensing), software logs, cameras, microphones, radio-frequency identification (RFID) readers and wireless sensor networks. The world's technological per-capita capacity to store information has roughly doubled every 40 months since the 1980s.

Relational database management systems and desktop statistics- and visualization-packages often have difficulty handling big data. The work may require "massively parallel software running on tens, hundreds, or even thousands of servers". What counts as "big data" varies depending on the capabilities of the users and their tools, and expanding capabilities make big data a moving target. "For some organizations, facing hundreds of gigabytes of data for the first time may trigger a need to reconsider data management options. For others, it may take tens or hundreds of terabytes before data size becomes a significant consideration."

Benefits of Big data

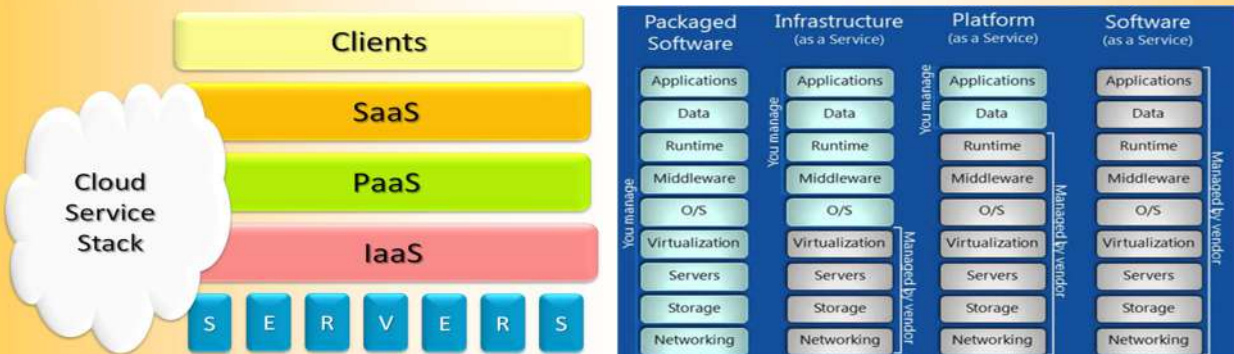
Recently big data has improved facilities in many sectors including:

- Manufacturing
- Healthcare
- Education
- Media

- Janvi Jaiswal (II Year)

Cloud Computing

Cloud computing is a computing paradigm shift where computing is moved away from personal computers or an individual application server to a "cloud" of computers. It is a service that charges based on the amount of computing resources that we use. The name comes from the use of a cloud-shaped symbol as an abstraction for the complex infrastructure it contains in system diagrams. It is a combination of three computing concepts: Grid Computing: Cluster of loosely coupled computers for a common cause; Utility Computing: Packaging of computer resources as metered service; Autonomic Computing: Capable of self-management. Deployment Models refers to the location and management of the infrastructure. There are four deployment models: Private Cloud, Community Cloud, Public Cloud and Hybrid Cloud.



- Aditi Garg (II Year)

GLIMPSES



ZONAL FEST



ALUMNI MEET



ANNUAL FEST



SMART INDIA HACKATHON



EXPERT TALK



EXPERT TALK



BIG DATATHON '18



FAREWELL—ALOHA



FDP ON ANDROID