

Message from Desk of Editor



Dr. Rama Kant
Editor-in-Chief

We are glad to bring out the Issue 2 of Vol. 1 of our eNewsletter **TECHKNACK**. Carrying forward our agenda of information clubbed with entertainment, this issue features variety of news and soft features. This issue addresses new joining, departmental activities, faculty achievements, student achievements and new technologies that came into existence.

I really appreciate the efforts done by Er. Aman Agrawal, Asst. Professor and Mr. Govind Ram, Programmer cum Technical Assistant.

Techknack is thankful to all who contributed to this issue. We are equally open to comments, criticism and suggestions to make it more informative.

OTHER ACHIEVEMENTS

Fourth Year TOPPERS

- ▲ Atisha Sharma
- ▲ Mayank Kumar
- ▲ Kushagra Gautam

Third Year TOPPERS

- ▲ Vikas Yadav
- ▲ Ishika Panwar
- ▲ Ashish Verma

Second Year TOPPERS

- ▲ Aarzoo Ahuja
- ▲ Dimple Sharma
- ▲ Manoj Jain



Arpit Gupta
First Topper - 84.3 %
in 3rd year



Mukund Varshney
Third Topper - 79.2 %
in 3rd year



Anshum Sharma
Placement in IBM, United Health
& Newgen Technologies



Rishabh Goyal
Placement in MindTree & Infogain

FEW NOTABLE ALUMNI



Madhuri Goyal
IBM

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Kunal Mehta
IBM & INFOGAIN



Ankur Bajpai
IBM



TECHKNACK eNewsletter

GL BAJAJ GROUP OF INSTITUTIONS (AN INTEGRATED CAMPUS)

What's Inside

New Joining

Departmental Activities

Faculty Achievements

Student Achievements

Learning is a lifelong process. Education is more important affair in our life than learning or being literate. The newsletter is a good way to learn about developments and activities and let others know. I congratulate all the people who have been associated with this publication.

DR. R K Agrawal
Chairman



It is wisely said that change is the only thing that is permanent in life. So be it, for the department as well. Since this is for first time, the eNewsletter is introduced, I congratulate the editorial board, advisory board and the department for the very first step towards online publication. I hope everyone would be benefited with it.

MR. Pankaj Agrawal
Vice-Chairman



As we all know, a newsletter mirrors a college, a department, its vision and mission. It also highlights events, activities and academic prowess and achievements. I congratulate the department for its first eNewsletter. I do hope that this will encourage many more including students to use it as a platform to express their creativity.

DR. L K Tyagi
Director



Latest Trends & Technologies

- ☑ ARTIFICIAL INTELLIGENCE (AI)
- ☑ BLOCKCHAIN
- ☑ INTERNET OF THINGS (IoT)
- ☑ MACHINE LEARNING
- ☑ 5TH GENERATION NETWORK

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- New Joinings -

Four (04), two teaching and two technical staffs joined the department.

Department of CSE welcomes Er. Aman Agrawal and Er. Gopalji Varshney (joined as Assistant Professor). Department also welcomes Mr. Pankaj Kumar as Lab Technician and Mr. Govind Ram who have joined the department as Programmer cum Technical Assistant.

Aman Agrawal has done his B.Tech in Computer Science Engineering and M.Tech. in Computer Science and Engineering. His area of specialization is Digital Image Processing and Computer Vision. During his M.Tech, he has done research work on Unsupervised Activity Modelling in a Video. He qualify GATE 2018. He is having 1.5 years of teaching experience.



Gopalji Varshney is working as assistant professor in the department of CSE at G.L. Bajaj group of Institutions. He is having 7 years of teaching and 5 years of Software Industry experience. He was selected for NIC at the post of assistant scientific officer, secured 410th All India Rank in GATE, Awarded in National Project Present Competition for project title FADHS developed for D.R.D.O, and published 18 research papers in distinguish journals, international and national conferences. Assisted in 4 PhD projects, 5 M.Tech. Projects, more than 50 B.Tech. Projects and 48 web based Mini projects. Worked as principal consultant for 25 web portals and many Application Projects. He was also worked on government projects sponsored by Ministry of Culture Government

of India.

Pankaj Kumar is working as a 'Lab Assistant in G.L. Bajaj Group of Institutions, Mathura. He has done BCA from Rajiv Academy for Technology & Management, Mathura. He has 6 month experience in AIT. He worked 4 year as a computer teacher in Raj Vidhya Mandir High School. He has done Technology Business Incubator from Krishna Institute of Engineering & Technology, Ghaziabad. He also worked in 'Project Report of e-shopping & online order processing system'.



Govind Ram is working as a 'Programmer cum Technical Assistant in G.L. Bajaj Group of Institutions, Mathura from 29th September 2018. He is graduated in science from Agra University and has done AAASP from Arena Animation south ex. New Delhi. He has extensive experience of web technologies. He has 9 years of experience on www.bharatkosh.org website as a web designer & technical manager. Simultaneously he also worked for 3 years as a CMS & content manger on www.krishnakosh.org website.



- Faculty Development Program -

Faculty Development Programme (FDP) on Formal Methods & Formal Languages sponsored by DR. APJ Abdul Kalam Technical University, Lucknow (Under TEQIP - III)



Event Date: 11th June - 15th June, 2018

Coordinator: Er. Ankur Saxena

Co-coordinator: Er. Sanjiv Agrawal, Dr. Rama Kant Baghel

- Departmental Activities -

Training cum Workshop on Python

21st February 2019

The workshop started with the speech by Dr Rama Kant, Head, C S E . He welcomed Mr. Rajeev Kumar, Director, Inception Infotech. In the first session, Dr. Rama Kant spoke about the need of technical skills in current scenario and then introduced the concepts of Python language.



The second session started with the advanced concepts of Python programming. Students also implemented the real time face detection using Python. Dr. Rama Kant discussed use of Python in machine learning and deep learning. Hand-on practice was also carried out.

The workshop concluded with vote of thanks speech by Er. Praveen Kumar Rai. About 120+ students and faculty members from CSE and ECE departments participated in the workshop. The event was coordinated by Er. Praveen Kumar Rai and Er. Gopalji Varshney, Assistant Professor, Department of CSE.

Event Outcome: Students have learned the concepts of Python programming with object oriented concepts. Both students and faculty members enjoyed the sessions in one day workshop and training.

The event was successfully coordinated by Er. Praveen Kumar Rai and Er. Gopalji Varshney assistant professors from department of CSE.

Students were well acquainted with Python Programming Language concepts and practice. Both students and faculty members enjoyed the sessions in one day workshop and training.

Workshop on Android by Training Basket

11st March 2019

The workshop started with the speech by Dr Rama Kant, Head, CSE. He welcomed Mr. Shadab Khan, Business Development Manager, Training Basket and his team. Dr. Rama Kant briefly introduced the need of technical skills update in current scenario. Md. Jafar Alam introduced the concepts of Android from basics in first session of talk.



The second session was started with the advanced concepts of Android

Application development. Hand-on practice was also carried out by the students under the guidance of Md. Jafar Alam. The workshop was concluded with vote of thanks speech by Er. Aman Agrawal. Entire workshop was well supported by all the faculty & staff members of CSE department.

Students also developed the real time android application. About 45+ students and faculty members from C S E department



participated in the workshop. The event was successfully coordinated by Er. Aman Agrawal and Er. Gopalji Varshney, Assistant Professor, Department of CSE.

Event Outcome: Students have learned the concepts Web Application development in Android. Both students and faculty members enjoyed the sessions in one day workshop and training.

- Departmental Activities -

-Alumni Connect Program-

Alumni Connect Program was conducted at CSE Department on 4 Nov 2018 with 2017 passout students Er Ankur Bajpai and Er Ayush Mittal.



-Workshop on HIVE Database & 'R'-



“Workshop on HIVE Database and R” was conducted on 07th April 2018 .



- Faculty Achievements -

- Dr Rama Kant had been awarded with PhD Degree from Dr A P J Abdul Kalam Technical University, Lucknow
- Dr. Rama Kant has successfully completed the 8 weeks FDP on “Big Data Computing” from NPTEL in Elite Group (Feb. 2019- Apr. 2019).
- Er. Sanjiv Singh has successfully completed the 8 weeks FDP on “Cloud Computing” from NPTEL (Feb. 2019- Apr. 2019).



Congratulations!

- Student Achievements -

- Prototype model of Digital Mazdoor get first position in Kalam Annual Project and Poster Technical Competition (KAPPTeC) – 2019
- Ayushi Mahawar has got NPTEL Elite certificate for Database Management System with a score of 79%
- Aarzoo Ahuja has got 2nd position in T-SHIRT painting in ART and CULTURAL FEST by AKTU
- Aarzoo Ahuja has got 2nd position in DEBATE (English) in Literary, Technical and Management FEST by AKTU
- Achal Mudgal and Prafful Agrawal has got 3rd position in DEBATE (Hindi) in Literary, Technical and Management FEST by AKTU
- Following students have secured position in ZONAL LEVEL SPORTS FEST by AKTU, Lucknow (25-27 Oct.2018)



- Following students/ Team of CSE Deptt have secured position in SPORTS FEST at Institute Level

TEAM	Volleyball	1st
TEAM	Cricket	1st
Naveen Bhati	100m Race	1st
TEAM	Kabbadi	2nd
TEAM	TUG of WAR	1st
TEAM	Football	2nd
Neha Pal	100m Race	1st
Neha Pal	Shortput	3rd
Arushi Patha	Shortput	2nd

- Following students have secured position in TECHNO-SPECTRUM 2K18 at Institute Level (16 Nov. 2018)

Alisha Saifi	Bridge Making	1st
Suyash Gupta	Tempo	1st
Sarthak Shukla	Tempo	1st
Amit Mathur	Treasure Hunt	2nd
Aarzoo Ahuja	Treasure Hunt	2nd
Alisha Saifi	Treasure Hunt	2nd
Kalpana	Treasure Hunt	2nd
Aarzoo Ahuja	Debate	2nd

Anujay Singh	Table Tennis	2nd
Naveen Bhati	100m Race	2nd
Naveen Bhati	4x100m Relay Race	2nd
Deepak Ch'dhary	4x100m Relay Race	2nd



Well Done!

Congratulations!

- Faculty Achievements -

Startup and Innovation

Startup, Innovation and Incubation Cell is facilitated with 2nd Position in AKTU Colleges for the month of June-July 2018.



You did it!
Congratulations

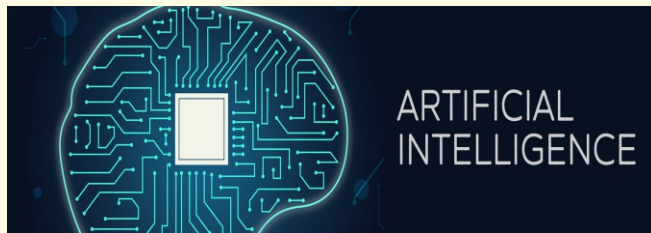
- Latest Trends & Technologies -

ARTIFICIAL INTELLIGENCE

In simple words AI is creating intelligent machines using computer science ideology. It emphasizes on giving machines access to objects, categories, properties and relations between all of them to implement knowledge engineering, in order to make the machine work and act like human beings in every aspect. Apple's Siri can be taken as an example of AI. Some of the activities computers with artificial intelligence are designed for include:

- Speech recognition
- Learning
- Planning
- Problem-solving

Forrester has predicted that all the hype of AI will begin to fade and the world will see some actual work happening. As per a report by them, 70% of the enterprises plan to



implement AI in 2018, rising up from 40% in 2016 and 51% in 2017. 20% of the enterprises will set up AI to provide some real-time instructions and make decisions e.g. Chat-bots for counselling with emotional intelligence will be developed in the next phase of AI which is all about transformation, reality and implementation.

BLOCKCHAIN

In simple words, Blockchain is a public ledger, accessible by everyone in the network.

Harvard Business Review defines it as “an



open, distributed ledger that can record transactions between two parties efficiently and in a verifiable and permanent way”. Despite its nascent nature, it has quickly become very popular in the market. Undoubtedly, it is a promising technology carrying the strength to make changes in an Internet world. It is not just limited to financial industry but has become a need of every industry involving online transactions.

INTERNET OF THINGS (IoT)

IoT looked at as “Internet of Things” is a vast network of devices connected to the Internet. Almost anything with a sensor on it – cars, machines in production plants, jet engines, oil drills, wearable devices, smartphones, tablets and more. These “things” exchange data among them and work based on certain protocols.



IoT has become the hot topic of conversation both in the workplace and outside. Currently, at a conceptual stage, it carries the potential to impact our lives and work at the same time. This concept is fascinating and looks simple to achieve but it involves lots of technical and policy-related protocols that yet to be clearly understood by the majority of the IT industry.

MACHINE LEARNING

Machine learning can be called a type of artificial intelligence (AI) allowing software applications to become better and



more accurate in predicting outcomes without being specifically programmed. In reality, Machine Learning is a current application of AI based on the idea that we should really just be able to give machines access to data and let them learn for themselves. The basic thesis behind machine learning is building algorithms that can receive input data and use statistical analysis to predict an output value within an acceptable range.

5th GENERATION NETWORK

After 4G's successful run, the latest technology going to rule the telecommunication world is 5G. World will witness the revolution coming with 5G. According to a report by Qualcomm, 5G



enabled smartphones are expected to arrive in 2019. 5G is likely to take things to a whole new level with approx. 10GB/s download speed, incredibly faster than 4G.