

### In this Issue!

Some tips for implementing Smart City Technology... Page 2

Sabka Saath Sabka Vikas by Shweta Chaudhary & Vineet Mosses Das, MCA-2nd Year.....Page 4

KRACK Attack by Akash Aggarwal, MCA-2nd Year...Page 6

How IoT & Smart home automation will change the way we live by Priya Singh, MCA-2nd Year...Page 8

BITCOIN – The Crypto Currency by Ankur Sharma, MCA-2nd Year

Happening @ Department of I.T during July-September, 2017... Page 10

Faculty Participation in External Events.. Page 17

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## In this Issue!

Some tips for implementing Smart City Technology... Page 2

Sabka Saath Sabka Vikas by Shweta Chaudhary & Vineet Mosses Das, MCA-2nd Year.....Page 4

KRACK Attack by Akash Aggarwal, MCA-2nd Year...Page 6

How IoT & Smart home automation will change the way we live by Priya Singh, MCA-2nd Year...Page 8

BITCOIN – The Crypto Currency by Ankur Sharma, MCA-2nd Year

Happening @ Department of I.T during July-September, 2017... Page 10

Faculty Participation in External Events.. Page 17



## Some tips for implementing Smart City Technology

The concept of smart cities was premised on integrating information, communications and Internet of Things (IoT) technologies like sensors and cameras in a secure fashion to manage a city's assets. One goal was more effective and cost-efficient management of city infrastructures and property, but equally important was responsiveness to emerging infrastructure events to help cities and their occupants.

Several years ago, cities began integrating their traffic management systems with city geographical information systems (GIS) so city planners and also city traffic managers could observe traffic flows, determine maintenance needs, and plan for future infrastructure. Initially these efforts captured static or near real-time information from sensors placed on traffic lights, at intersections, or on other stationary infrastructure assets that the city managed.

Now, big data and analytics technology can further contribute by adding data collected from sensor feeds of commercial vehicles. A fleet truck accelerometer, for instance, can measure speed increases, braking, and tire vibration. Other truck-equipped sensors can measure weather conditions such as temperature. As trucks travel, this data can be transmitted in real time to commercial fleet managers—and it can also be piped into municipal data repositories to enhance knowledge about urban road infrastructure as truck fleets pass through the area.

As more cities incorporate new data feeds into their GIS and traffic management systems from sources like commercial truck fleets, they will also improve their ability to respond and to plan. Cities that reap the greatest benefits will be characterized by the following best practices:

### 1. Top-down management commitment

There will probably be initial resistance to any new GIS-traffic management approach. Decision makers have to decide that they are going to replace older data collection and performance measurement tools and streamline existing processes. From there, it becomes a process of fostering this commitment throughout the organization and providing employees with the necessary cross-training.



**In this Issue!**

**Some tips for implementing Smart City Technology... Page 2**

**Sabka Saath Sabka Vikas by Shweta Chaudhary & Vineet Mosses Das, MCA-2nd Year.....Page 4**

**KRACK Attack by Akash Aggarwal, MCA-2nd Year...Page 6**

**How IoT & Smart home automation will change the way we live by Priya Singh, MCA-2nd Year...Page 8**

**BITCOIN – The Crypto Currency by Ankur Sharma, MCA-2nd Year**

**Happening @ Department of I.T during July-September, 2017... Page 10**

**Faculty Participation in External Events.. Page 17**

**2. Before and after metrics**

Too often, cities implement new solutions and make infrastructure changes—but neglect to do a followup to measure the results. Processes need be put in place to measure both the before and after effects of making a change based on the analytics . A good way to do this is to measure how you are doing a specific function, like reducing traffic jams, before and after you implement a technology solution. One metric could be how often a particular intersection was getting jammed before implementation of traffic monitoring technology that could alert drivers of delays, and how often the intersection was congested afterward.

**3. A focus on diagnostics**

Cities already have GIS systems in place that can perform advanced mapping functions. Now is the time to make these systems more diagnostic-oriented by equipping them with dynamic feeds from trucking fleets and other sources, analytics, and data modeling that better equip staff to diagnose infrastructure hazards and events as they happen. These diagnostics also help planners and those responsible for scheduling maintenance activities because they can see where the infrastructure problems are.

**4. A system install that includes people as well**

Too often, system installs are planned without sufficient time or resources set aside for training. A new GIS/traffic management system approach is a big change for many staffers. Cities adding enhanced analytics and IoT shouldn't underestimate this task, or the fact that many workers, used to doing their jobs for years in certain ways, can be nervous and resistant to change. Time should be set aside to help them understand the new system and how it works so they can get confident and comfortable with the new technology before it goes live.



**In this Issue!**

Some tips for implementing Smart City Technology... Page 2

Sabka Saath Sabka Vikas by Shweta Chaudhary & Vineet Mosses Das, MCA-2nd Year.....Page 4

KRACK Attack by Akash Aggarwal, MCA-2nd Year...Page 6

How IoT & Smart home automation will change the way we live by Priya Singh, MCA-2nd Year...Page 8

BITCOIN – The Crypto Currency by Ankur Sharma, MCA-2nd Year

Happening @ Department of I.T during July-September, 2017... Page 10

Faculty Participation in External Events.. Page 17

**Sabka Saath Sabka Vikas**

India is highly a diverse economy and society. We live in a world that appreciates choice and free will. Governments need to inculcate these values in governance and civic engagement. Within the contours of free wills and free speech, no one should have a live in a society with a fear of the other. The central and state governments are duty-bound to design policies with the objective of creating a peaceful society, which is essential for sustained high economic growth. Justice for all must be the cornerstone of nation building “SABKA SAATH SABKA VIKAAS” must not remain a shallow, rhetorical slogan.

Providing a level playing field and equal opportunity to all irrespective of caste and religious differences must be the essence of all policies expenditure denying a segment of the population prosperity amounts to removing consumers out of the market and will be a drag on real growth, whereas ensuring that everyone is on a level playing field creates a larger consumer base and will bring vikas to all; everyone will prosper.

The creation of independent, non partisan democratic institutions to address the ever-growing needs of a fast-growing large economy is the need of the home. Targeted discrimination with the backing of majoritarianism looks cheap and is an unnatural instinct that is best avoided. The lap of Mother India is vast enough to accommodate everyone, so there is no need for the animal instinct to eliminate those who are weak. Should majoritarianism tendencies prevail in India, all they will accomplish is to bring disgrace to the Indian ethos and to Hinduism itself.

**In this Issue!**

Some tips for implementing  
Smart City Technology...  
Page 2

Sabka Saath Sabka Vikas by  
Shweta Chaudhary & Vineet  
Moses Das, MCA-2nd  
Year.....Page 4

KRACK Attack by Akash  
Aggarwal, MCA-2nd  
Year...Page 6

How IoT & Smart home  
automation will change the  
way we live by Priya Singh,  
MCA-2nd Year...Page 8

BITCOIN – The Crypto  
Currency by Ankur Sharma,  
MCA-2nd Year

Happening @ Department of  
I.T during July-September,  
2017... Page 10

Faculty Participation in  
External Events.. Page 17



In BRICS 2017 Summit our honorable Prime Minister gave noble commitments , Creating a safer world, Creating a Greener World, Creating an Enabled World, Creating an Inclusive World, Creating a Deigital World, Creating a Skilled World, Creating a Healthier World, Creating an Equitable World, Creating a Connected World, Creating a Harmonious World.

Hence public may get some benefits about these commitments at the particular period of time. Every country has a right to help others and themselves with specific outcomes. Youth must be given opportunity to do work for their country and make their country proud forever.



**Ms. Shweta Chaudhary**  
MCA-2<sup>nd</sup> year  
Student Editor, VIBRANCE



**Mr. Vineet Moses Das**  
MCA-2<sup>nd</sup> year  
Student Editor, VIBRANCE





## KRACK ATTACK

The Krack (key reinstallation attacks) attack is a newly discovered internet security flaw. It's a bug so vicious that it can cut through secured Wi-Fi networks in homes and businesses. Concretely, attackers can use this novel attack technique to read information that was previously assumed to be safely encrypted. This can be abused to steal sensitive information such as credit card numbers, passwords, chat messages, emails, photos, and so on. The attack works against all modern protected Wi-Fi networks. Depending on the network configuration, it is also possible to inject and manipulate data. For example, an attacker might be able to inject ransomware or other malware into websites.

KRACK attack is against the 4-way handshake of the WPA2 protocol. This handshake is executed when a client wants to join a protected Wi-Fi network, and is used to confirm that both the client and access point possess the correct credentials (e.g. the pre-shared password of the network). At the same time, the 4-way handshake also negotiates a fresh encryption key that will be used to encrypt all subsequent traffic. Currently, all modern protected Wi-Fi networks use the 4-way handshake. This implies all these networks are affected by (some variant of) KRACK attack.

### How does KRACK break Wi-Fi security?

In a key reinstallation attack, the adversary tricks a victim into reinstalling an already-in-use key. This is achieved by manipulating and replaying cryptographic handshake messages. When the victim reinstalls the key, associated parameters such as the incremental transmit packet number (i.e. nonce) and receive packet number (i.e. replay counter) are reset to their initial value. Essentially, to guarantee security, a key should only be installed and KRACK targets the third step in a four-way authentication "handshake" performed when your Wi-Fi client device attempts to connect to a protected Wi-Fi network. The encryption key can be resent multiple times during step three, and if attackers collect and replay those retransmissions in particular ways, Wi-Fi security encryption can be broken and KRACK completed its job.

### What happens when Wi-Fi security is broken?

For starters, the attacker can eavesdrop on all traffic you send over the network. This can be abused to steal sensitive information such as credit card numbers, passwords, chat messages, emails, photos and so on. The impact of exploiting these vulnerabilities includes decryption, packet replay, TCP connection hijacking, HTTP content injection, and others. HTTP content injection means the attacker could sneak code into the websites you're looking at to infect your PC with ransomware or malware. From your private chats on apps to baby monitors, if the device uses Wi-Fi, it can be hacked.

### In this Issue!

**Some tips for implementing Smart City Technology...**  
Page 2

**Sabka Saath Sabka Vikas by Shweta Chaudhary & Vineet Mosses Das, MCA-2nd Year.....**Page 4

**KRACK Attack by Akash Aggarwal, MCA-2nd Year...**Page 6

**How IoT & Smart home automation will change the way we live by Priya Singh, MCA-2nd Year...**Page 8

**BITCOIN – The Crypto Currency by Ankur Sharma, MCA-2nd Year**

**Happening @ Department of I.T during July-September, 2017...** Page 10

**Faculty Participation in External Events..** Page 17

## In this Issue!

**Some tips for implementing Smart City Technology...**  
Page 2

**Sabka Saath Sabka Vikas by Shweta Chaudhary & Vineet Mosses Das, MCA-2nd Year.....**Page 4

**KRACK Attack by Akash Aggarwal, MCA-2nd Year...**Page 6

**How IoT & Smart home automation will change the way we live by Priya Singh, MCA-2nd Year...**Page 8

**BITCOIN – The Crypto Currency by Ankur Sharma, MCA-2nd Year**

**Happening @ Department of I.T during July-September, 2017...** Page 10

**Faculty Participation in External Events..** Page 17

## How to protect yourself from KRACK's Wi-Fi flaw

Keep your devices up to date. That means that your device can download an update that protects against KRACK and still communicate with unpatched hardware while being protected from the security flaw. Given the potential reach of KRACK, patches are coming quickly from many major hardware and operating system vendors.

Until those updates appear for other devices, consumers can still take steps to safeguard against KRACK. The easiest thing would be to simply use a wired ethernet connection, or stick to your cellular connection on a phone. That's not always possible though.

If you need to use a public Wi-Fi hotspot—even one that's password protected—stick to websites that use HTTPS encryption. Secure websites are still secure even with Wi-Fi security broken. The URLs of encrypted websites will start with "HTTPS," while unsecured websites are prefaced by "HTTP"

Alternatively, you can hop on a virtual private network (VPN) to hide *all* of your network traffic keep your antivirus software up to date to protect against potential code injected malware.



## What devices are affected by KRACK?

### Is my phone at risk?

KRACK is a different sort of attack than previous exploits, in that it doesn't go after devices, it goes after the information you use them to send. So while the data stored on your phone is safe from hacking, whenever you use it to send a credit card number, password, email, or message over Wi-Fi, that data could be stolen.

### Is my router vulnerable?

That's closer, but still not totally accurate. It's not the device that's at risk, it's the information, so the sites you visit that aren't HTTPS are most vulnerable.

### So are my iPhone and Mac safe?

Safer than Android, but still not entirely safe. Apple said in a statement that all current iOS, macOS, watchOS, and tvOS betas include a fix for KRACK. It will be rolling out to all devices within a few weeks.



**Akash Aggarwal**  
MCA-III Semester





**In this Issue!**

**Some tips for implementing Smart City Technology... Page 2**

**Sabka Saath Sabka Vikas by Shweta Chaudhary & Vineet Mosses Das, MCA-2nd Year.....Page 4**

**KRACK Attack by Akash Aggarwal, MCA-2nd Year...Page 6**

**How IoT & Smart home automation will change the way we live by Priya Singh, MCA-2nd Year...Page 8**

**BITCOIN – The Crypto Currency by Ankur Sharma, MCA-2nd Year**

**Happening @ Department of I.T during July-September, 2017... Page 10**

**Faculty Participation in External Events.. Page 17**

**BITCOIN – THE CRYPTO CURRENCY**

Bitcoin is a worldwide crypto-currency and digital payment system called the first decentralized digital currency, as the system works without a central repository or single administrator. It was invented by an unknown person or group of people under the name Satoshi Nakamoto and released as open-source software in 2009. The system is peer-to-peer, and transactions take place between users directly, without an intermediary. These transactions are verified by network nodes and recorded in a public distributed ledger called a blockchain.

**Bitcoin History**

Bitcoin is considered the biggest cryptocurrency. It was first introduced in 2009 and is the most widely-traded cryptocurrency. Bitcoin as an implementation of the cryptocurrency concept was described by Wei Dai in 1998 on the cipherpunks mailing list. Dai suggested a new form of money that uses cryptography to control its creation and transactions, rather than a central authority. In 2009, the Bitcoin specification and proof of concept was published in a cryptography mailing list by Satoshi Nakamoto

**Bitcoin vs Traditional Banking**

Unlike Fiat money which can be printed at will by the central banks and governments, bitcoins supply is capped at 21 million whole units which can be broken down 100 million times if needed. And unlike the traditional banking system, which can charge quite high transaction fees, bitcoin allows transactions globally with very little cost. Biggest difference is that the banking system is open to manipulation while bitcoin is pretty much tamper proof and allows the control of no one individual or corporation.

**How Bitcoin Works**

Payments are made via a Bitcoin wallet application that resides on a user's computer or mobile device, and a person only needs to enter the recipient's Bitcoin address information and payment amount before pressing send to complete payment.

**Acquiring bitcoins**

Bitcoins can be acquired in two ways - 1. buy on exchange or 2. bitcoins mining. You can buy bitcoins from either exchanges, or directly from other people via marketplaces. You can pay for them in a variety of ways, ranging from hard cash to credit and debit cards to wire transfers.

**The Future**

Bitcoin has reached to a new height of \$4839.51. Very good for long term Investing. It's price increased drastically after the hard fork which took place on August 1 2017. This hard fork resulted in creating a new coin named Bitcoin Cash (BCC). Many Bitcoin Cash holders exchanged their coins with Bitcoin Core (BTC). This resulted in rapid increase in BTC's price.



**Ankur Sharma**  
MCA-2<sup>nd</sup> year  
Student Editor, VIBRANCE

*Happening @ Department of I.T during July-September, 2017*

### Workshop on HTML5, AngularJS and Wordpress for MCA students



Web Club @ Department of I.T. in association with CSI, Students Branch @ I.T.S, Mohan Nagar Ghaziabad conducted a workshop on " HTML5, AngularJS and Wordpress" from 10<sup>th</sup> – 15<sup>th</sup> July, 2017 for MCA-V Semester Students. Prof. Smita Kansal and Prof. Varun Arora was the resource person of the workshop. The objective of this workshop was to make students aware about HTML5 & AngularJS and make them ready for placements.

### Two days Expert Sessions on “Social Media - Mobility- Analytics & Cloud” from 14<sup>th</sup> - 15<sup>th</sup> July 2017

Departmental Research Committee, Department of IT organized two days Expert Sessions on “Social Media - Mobility- Analytics & Cloud” from 14<sup>th</sup> July-15<sup>th</sup> July, 2017.



Mr. Sonik Porwal, Vice President, Oracle Alliance Tech Mahindra and Ms. Susmita Narayan, Founder, Paraangat Consultancy were the guest speakers. Mr. Sonik discussed about the Industry Inflection point: SMAC – Social Media - Mobility- Analytics & Cloud. He also discussed about the different inflection point IT industry has faced from the era of Computer invention till today. Ms. Susmita discussed about the actual need of the industry from IT students apart from the domain knowledge. She also discussed that how industry needs to train new joining through different statistics .The objective of this session

was to help faculty members to prepare their students as per the requirement of the industry.



## Mr. Kamal Dodeja, Global Sales Consulting Manager, Oracle Corp. conducted a workshop for Faculty members @ ITS, Mohan Nagar



On Saturday, 15<sup>th</sup> July, 2017, Mr. Kamal Dodeja, Global Sales Consulting Manager, Oracle Corp. conducted a Special Session-cum-Workshop on “Building Private Cloud using Open Infrastructure and Implementation” for IT Faculty Members at I.T.S, Mohan Nagar, Ghaziabad. The Session was planned with an objective of providing an in-depth discussion, Demonstration with importance, components of Clouds, Software Defined Networks (SDN), Clouds with OPENSTACK Framework and their practical implementation aspects. This was really a very informative and knowledge enriching session.

In the session, he talked about the challenging and changing roles of professionals in OEM and Service providing companies and shared his experience in Redhat, Sapiant and Oracle. He also talked about the evolution of clouds, concept and mechanism of Virtualization and how it is implemented using Hypervisors, way of implementing Load Balancing using A-A and A-P ways, the cloud based deployment models IAAS, PAAS and SAAS. Mr. Dodeja enlightened on Private Cloud and its implementation on OPENSTACK with practical implementation

## Department of I.T. paid Tribute to Late Dr. A.P.J Abdul Kalam on 27<sup>th</sup> July, 2017

Department of I.T. paid tribute to Late Dr. A.P.J Abdul Kalam on 27<sup>th</sup> July, 2017. The ceremony began with the

briefing about the life history of Late Dr. Kalam by Prof. Puja Dhar, Chairperson-MCA. While addressing the students she said that Dr. Kalam was a hardworking student who enjoyed spending hours on his studies. Director IT, Dr. Sunil Kr. Pandey while addressing the students said that despite its shortcomings and ailing poverty, India can stand up face-to-face with the rest of world powers, be it in the terms of development, science and technology, education or any other field Dr. Kalam will always be remembered mostly by the youths. Director-





Management, Dr. Ajay Kumar also shared his views about Late Dr. A.P.J Abdul Kalam. There was also an oath taking ceremony which was coordinated by registrar, Sh. V.K Saxena. Some students of MCA final year also shared their views about the life of Late Dr. A.P.J Abdul Kalam.

Department of I.T also students of MCA including Quiz-Speeches given by students of activities were also felicitated Sunil Kr. Pandey, Director-Chairperson-MCA, Prof. Puja Kansal, Registrar, Sh. department of I.T were also winners of Quiz Competition Nitesh, Abhimanyu and the Surbhi Singh, Rashmi and Richi felicitated for sharing his views about late Dr. A.P.J Abdul Kalam.



conducted some activities for the competition, Poster Making and MCA final year. Winners of these by the Former , , Director-IT, Dr. Management, Dr. Ajay Kumar, Dhar, Coordinator-MCA, Prof. Smita V.K.Saxena and other faculties of present in the whole event. The include Jay Kumar, Prashant, Anshu, winners of Poster making were Gupta. Himanshu Tyagi was also

### Workshop on "C Programming" by C-Club



On 4<sup>th</sup> August, 2017 in association with CSI Student Branch @ I.T.S, C-Club of Department of I.T. conducted a workshop on "C Programming" for MCA Students The objective of the workshop was to make students aware of various C Programming tricks & traps and to bridge the gaps for on-going placement process. Prof. Rakesh Roshan & Prof. Chandra Mani Sharma were the resource persons for the workshop.

The workshop started with a brief description of Ubuntu Linux environment, how to use it for C Program Development and a crisp overview of important commands to make the transition of students smooth from Windows to Linux platform. Subsequently, various problems on functions, pointers, scope rules and efficiency improvement of C code using code restructuring techniques (such as use of bitwise operators instead of arithmetic operators to speed-up execution) were discussed during the workshop.

The participants had a hands-on experience of C programming practice during their tussle of implementing solutions to the problems. To assess the learning of the participants, a test was conducted at the end of the workshop where they performed satisfactorily well.

## Celebration of 70<sup>th</sup> Year of Independence & 75<sup>th</sup> Year of Quit India Movement



70<sup>th</sup> Year of Independence & 75<sup>th</sup> Year of Quit India Movement was celebrated with great enthusiasm and respect during 9<sup>th</sup> -30<sup>th</sup> August 2017 at ITS, Mohan Nagar, Ghaziabad. This event comprised of Pledge taking ceremony, Invited Talk by Eminent Speakers, activities like Quiz, Poster Presentation, Debate, Rangoli Competition.

On 9<sup>th</sup> August 2017, Oath taking ceremony was conducted which was taken by Faculty Members, Staff and Students in the presence of Director-IT & Director-UG at New Seminar Hall of the Institute.

On 18<sup>th</sup> August 2017 & 24<sup>th</sup> August, various activities including Quiz, Poster Presentation, Debate, Rangoli were organized. Theme of each activity was based on "Freedom Struggle and Independence Day".

Students of MCA/MBA/BCA and BBA had participated and every event was judged by panel of judges and based on their recommendation, every winner in all the activities were identified and felicitated.

## Inaugural & Orientation Programme of newly admitted students of MCA (2017-2019/2020) Batch

Department of I.T organized seven days Orientation Programme of its newly admitted XXI batch of MCA (2017-2019/2020) at the Institute from 19<sup>th</sup> August to 25<sup>th</sup> August, 2017. The formal inauguration and opening ceremony for the above mentioned batch of MCA Course was on 22<sup>nd</sup> August, 2017. Opening & Inaugural ceremony was formally inaugurated with the lamp lightning by Director-PR, I.T.S- The Education Group, Sh. Surinder Sood, Chief Guest, Dr. M.M.Pant, Former Pro-Vice Chancellor,IGNOU and Founder & Chairman- PlanetEDU, Guest of Honor, Mr. Upkar Singh, Director Technology, FIS Global, Noida, Director-I.T., Dr.Sunil Kumar Pandey, Chairperson- MCA Programme Prof. Puja Dhar and Coordinator-MCA, Prof. Smita Kansal. This was followed by four days Orientation



Program to sensitize students with MCA Program, Course requirement & structure, industry orientation through invited Industry people and other basic technical skill sets which are required for their professional development.



Chairperson-MCA, Prof. Puja Dhar while welcoming the students of XXI Batch of MCA said that with a Vision “Creating Competent IT Professionals” the Department of I.T strives for excellence to ensure over all development of MCA students including soft skills and domain specific knowledge.

Director-PR, ITS-The Education Group, Sh. Surinder Sood welcomed all the students and wished them best luck for the new beginning of their professional career.

While addressing the students Director-IT, Dr. Sunil Kr. Pandey said that we believe in the process of learning by doing and hence the University prescribed curriculum is well supplemented with various value added Modules, continuous industry interaction, different IT Clubs, industry visits, CXO-Meet, CEO-Meet, IT-Summit, Conferences and many more.



Chief Guest of the inaugural ceremony, Dr. M.M.Pant talked about the shaping minds for the new millennium. He said that success happens when preparation meets opportunities. He also discussed about the Top 10 skills of year 20-20 and technology mega trends in the 4th Industrial revolution.

Guest of Honor, Mr. Upkar Singh discussed about the skill sets required in the corporate world. He also nicely explained about the 10 Es which are helpful in life to achieve the goal.

At the end of inaugural ceremony, MCA-Coordinator, Prof. Smita Kansal delivered the vote of thanks.

After the formal Inaugural ceremony, Chairperson-MCA, Prof. Puja Dhar briefed the students about the MCA Course and also explained the working of DBMS club. Registrar, Sh. V.K.Saxena discussed in detail about the rules &



regulations which are to be followed in the campus. He also discussed about the important documents required for the completion of University registration process. Coordinator-MCA, Prof. Smita Kansal introduced the Faculty members of IT Department. She also briefed about the CSI, Student Branch @ ITS and about the working of Web club. Prof. Varun Arora briefed about the industry collaboration with Sopra. Prof. Saurabh Saxena briefed the students about the working of E-Cell and the activities organized by it. Prof. Chandra Mani Sharma discussed about the working of C-Club. Prof. Rakesh Roshan briefed about the Skill Development Cell. Computer Centre Chairperson, Prof. Sauresh Mehrotra discussed about the infrastructure and the wi-fi facilities available for students. Dr. Vidushi Singh discussed about the introduction of NPTEL Local Chapter @ ITS, Ghaziabad. Librarian, Ms. Lalita Tyagi briefly explained the rules of Library and how it issues the books to the students. CRC coordinators, Mr. Kumar BalMukund and Prof. Abhay Ray discussed about the basic requirement from the students for the placement. They also said that SDC also organize some workshops and value added modules for all the students so that industry-academia gap is bridged. Prof. Abhay Kr. Ray and Prof. K.P.Singh also discussed about the working of Dot Net and Java Clubs.

From 20th August to 25th August, 2017 some special classes were also scheduled after the inaugural day. The objective of these classes were to make the new students aware about the basic fundamentals of some subjects like Data structure, DAA, CBOT , IJP, Operating System. Overall the session was very interactive and informative for the students and faculties too.

### **Celebration of SWACCHTA PAKHWADA during 1<sup>st</sup> -15<sup>th</sup> September, 2017**



Department of IT celebrated SWACCHTA PAKHWADA during 1<sup>st</sup> -15<sup>th</sup> September, 2017 with an objective to pledge the support of the higher educational institutions for spreading the message of cleanliness among students. Different activities had taken place including Essay Contest on “Innovative Ways for Spreading the Message of Hygiene”,



Green Campus Day was organized on 6<sup>th</sup> September, 2017 by Department IT. Director-IT, Dr. Sunil Kumar Pandey, faculty members and MCA students planted various plants at different places of I.T.S Mohan Nagar, Ghaziabad Campus.

Article Writing Contest on “Care for Surrounding Day: Study of Garbage Cleaning Systems in Public Places” was also organized on 7<sup>th</sup> September, for MCA students on the theme “Study of Garbage Cleaning Systems in Public Places”. Students were supposed to visit public places, observe garbage cleaning systems in those places and then they were asked to write the article based on their observations in this event.

Elocution Contest on “Health & Hygiene is the Real Wealth” was organized on 15<sup>th</sup> September, 2017 for MCA students on the theme “Health & Hygiene is the Real Wealth”. Director-IT, Dr. Sunil Kumar Pandey briefed about the need of healthy life which is a real wealth. He also encouraged students to participate in the elocution contests which will enhance the confidence and communication skill of the students. Students took part in the competition with great zeal and enthusiasm. Winners from each activity were also felicitated with certificate & trophy.

### **.Net Club of Department of I.T conducted a workshop on Web Application Development using .Net Technology for MCA Students**



A Workshop on “Web Application Development using .Net Technology ” on 4<sup>th</sup> Sept, 2017 organized by I.T.S-Dot Net Club in association with CSI-Student Branch at I.T.S, Mohan Nagar, Ghaziabad. Prof. Abhay Kumar Ray and Prof. Rakesh Roshan were the resource persons.

This workshop was focused towards making the students aware & sharpening the skills on ASP.Net , ADO DOT Net ,T-SQL, Writing Stored Procedure ,Writing C# code to use Stored Procedure for better placement in upcoming campus drives.



## *MCA Students secured 5<sup>th</sup> & 7<sup>th</sup> Position in University Top-10 Merit List*



**Shakshi Tyagi**  
88.03%



**Preeti Singh**  
87.43%

This is a matter of great pleasure in sharing that two Students of MCA (2015-2017) have secured **5<sup>th</sup> & 7<sup>th</sup> Positions across the state of UP in Top-10 Merit List of Dr. APJ Abdul Kalam Technical University (AKTU), Lucknow** announced on 18th October, 2017.

1. Sakshi Tyagi D/o Sh. Arun Pal Tyagi  
**(88.03%) 5th Position**

2. Preeti Singh D/o Sh. Chandra Pal Singh  
**(87.43%) 7th Position**

***Wishing both of them more success in future!!***



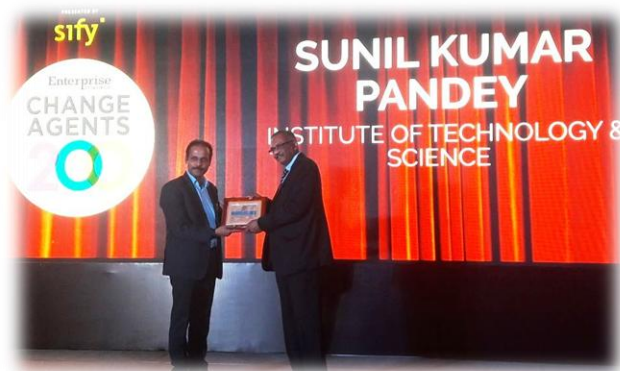
**Faculty Participation in External Events**

Date	Faculty	Events
17 <sup>th</sup> July to 23 <sup>rd</sup> July, 2017	Prof. Puja Dhar	Attended one-week Faculty Development Programme at JIMS, Ghaziabad on "Advance Research Methodology and Data Analytical Tools using SPSS and AMOS"
20 <sup>th</sup> July to 21 <sup>st</sup> July, 2017	Prof. Abhay Kr Ray & Rakesh Roshan	Invited to conducted two days National workshop on "Mobile Application Development using Android" for the students of BCA and MCA at Sachidanand Sinha College, Aurangabad, Bihar
26 <sup>th</sup> July, 2017	Dr. Umang	Invited Talk on "Research Challenges in FANETs abnd MANETs" during one Week Faculty Development Programme on "Emerging Research Trends in Computer Science & IT" at BVICAM, New Delhi
28 <sup>th</sup> August, 2017	Prof. Sauresh Mehrotra	Invited as resource person in seminar on Cyber / Information Security Organization by C-DAC Noida
9 <sup>th</sup> Sep, 2017	Prof. Chandra Mani Sharma	Attended PRSI National Quiz- 2017 at IIMC , New Delhi
11 <sup>th</sup> Sep, 2017	Dr. Sunil Kr. Pandey, Prof. Rakesh Roshan & Prof. Abhay Kr. Ray	Conducted two days workshop on "Mobile App Development using Android" at RSMT, Varanasi



**Dr. Umang Singh** has received "Young Faculty in Science (Computer Application)" award by Venus International Foundation in Contemporary Academic Meet -2017 held at Hotel Green Park, Chennai on 8<sup>th</sup> July 2017.

**Dr. Sunil Kr. Pandey, Director-IT** received "Chance Agent 200" top CIO award on 8<sup>th</sup> September, 2017 during gala award ceremony held at Hotel Crown Plaza.



## Announcement and Contact Details

VIBRANCE is an E-magazine of Department of I.T, I.T.S, Ghaziabad. We look forward to the contribution from our students, alumni, faculty members and industry experts.

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