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Mohan Nagar, Ghaziabad

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Introduction to EJB (Enterprise Java Beans)

The Java Enterprise Edition architecture is based on Component-Container architecture. The container contains various components and supports the component in performing its functionality, by providing them an execution environment.

Java EE has 3 different types of components - EJB Components (Session bean, Message-driven bean), Web Components (Servlet, JSP, JSF) and Client Components (Application client component, Applet). The EJB components are contained by the EJB container which is a part of Java EE Application Server.

What is EJB?

- EJB stands for "Enterprise Java Beans".
- EJB is a development architecture which allows us to make component based secured, scalable and robust applications. EJB enables the development of reusable business logic components.

Types of Enterprise Java Beans

1. Session beans
2. Message-driven beans

A. Session Beans

- Session beans are Java beans which encapsulate the business logic in a centralized and reusable manner such that it can be used by a number of clients.
- Session beans are plain old Java objects which function as server-side extension performing business logic.
- As session beans are server-side extensions, they can be accessed by various types of clients, like another enterprise beans, a web component such as a Servlet, a plain Java class or a web service.
- There are 2 types of client access models for session beans - Local client access and Remote client access.
- Local clients are components residing in the same enterprise application while remote clients are components executing in a remote JVM.

There are 3 types of Session beans -

1. Stateless Session Beans (SLSB) - Provide user generic business processing and are not tied to a specific client.
2. Stateful Session Beans (SFSB) - Provide user specific business processing and are tied to a specific client.
3. Singleton Session Beans (SSB) - Provide shared data access to client and components within an application and are instantiated only once per application.

B. Message-driven Beans

- Message-driven beans are EJB beans which are driven with the help of messages.
- There are 2 types of Message-driven beans -
  o JMS (Java Messaging System) Message-driven beans
  o Non-JMS Message-driven beans

JavaBeans is an object-oriented programming interface from Sun Microsystems that lets you build re-useable applications or program building blocks called components that can be deployed in a network on any major operating system platform. Like Java applets, JavaBeans components can be used to give World Wide Web pages (or other applications) interactive capabilities such as computing interest rates or varying page content based on user or browser characteristics.

Introduction to NO SQL And Working With MongoDB

We have seen many Applications use Relational Database Management System (RDBMS) like SQL Server, Oracle, MYSQL etc. as data repositories to applications. Almost all the relational databases support:

- Huge data storage
- Support transactions (ACID)
- Provide SQL to communicate to data
- Vertical Scalability
- Security
- Fragmentation, replication , clustering etc

There are some problems in RDBMS, which many systems have experienced.

- Relational Databases need a schema; we cannot add records to a database which have not been defined in the schema earlier.
- We can't add a record which does not fit the schema; for example, we cannot insert an integer data type to a DateTime data type in SQL Server.
- We cannot add multiple items into a field.
- We need to add nulls to unused columns in a row, which gives a performance hit.
- Expensive regarding product cost, hardware, and maintenance; and there are a lot of problems with speed and availability
- The overhead of writing complex SQL queries.

To avoid all these problems, the industry has come up/is coming up with the concept of NO SQL, which has the features given below:.

- No Overhead of transactions.
- No complex SQL queries.
- No burden of upfront schema design.
- Provides easy and frequent changes to DB.
- Fast development.
- Performance improvement.
- No single point of failure.

In this Issue!

To accomplish all these features, some of the industry leaders have come up with a new NO SQL database, and some of the leading NO SQL database providers are Cassandra, Couchbase, Amazon DynamoDB, MongoDB, Oracle No SQL Database, Clustrix, memSQL etc.

There are many providers which give us more information on this available NO SQL in the market here.

These NO SQL databases differ from others due to the features. The characteristics which distinguish them is how to store the data. Some of them store the data by a document, some of them store the element by a key name, some of them store the data by graph or some of them are in the memory of NO SQL.

MongoDB is the most widely used NO SQL database because it manages high volumes of structured or non structured data and is faster in terms of processing, as well as efficient and scalable in nature.

Where NO SQL can be used
Consider an application -- when it goes to production, it works fine. After a few years down the line, the data keeps on growing and lots of performance issues come up. A lot of effort is required by the DBA and developers as to where to partition the data, rearrange the index, implement master and slave data, etc. Some portions of the system data are static (read only), and we can put in MongoDB like Master Database records. (Dropdown values in some cases).

The Product information and product catalog, which is static, can be kept in MongoDB. There are some external systems where we are not aware of what would be the nature of the data, such as XML, JSON, String, and binary information (Basically unstructured data).These record values can be kept in MongoDB.

NO SQL has not replaced RDBMS. RDBMS and NO SQL both can be used together to achieve a high performing system.

MongoDB is an open source NO SQL Database. The official website for MongoDB is here. To download MongoDB, go to the below URL and download the appropriate version of the operating system you have in your machine.

About installation steps and its working, we will be covering in our next Upcoming issue in VIBRANCE Volume 9, Issue 4(October to December, 2016)

Plantation at Pakshi Vihar by Forest Department, U. P Government on 11th July, 2016

On the World Population Day, the campaign "UP Goes Green" towards making UP a green state, was initiated by Government of UP. The Government aimed ambitiously to plant 5 Crore saplings with 80 species in a span of 24 hours, in a bit to create a new Guinness record. On this occasion 31 Students of Department of IT, Institute of Technology & Science, Mohan Nagar, Ghaziabad in association with Forest department Ghaziabad actively participated in this campaign. Two groups of Students went for the plantation at two different sites Pakshi Vihar & Vasundhara. 2500 saplings were planted at Pakshi Vihar & Vasundhara. Faculty members from Department of I.T., Prof. Saurabh Saxena, Prof. Varun Arora, Prof. Smita Kansal and Dr. Vidushi Singh lead the institution in this campaign. It was a wonderful & new experience for the students of IT to plant saplings.

Department of IT paid a Tribute to Late Dr. APJ Abdul Kalam on 27th July, 2016

 On the occasion of first Death Anniversary, Department of IT at I.T.S,, Mohan Nagar, Ghaziabad along with their faculty members & the students of MCA, assembled, remembered and paid heartfelt tribute to Past President, Scientist, Great Teacher, Leader and a great human being who was above all boundaries of Caste, Region, Religion, belief and profession - Late Dr. APJ Abdul Kalam.

Objective of this event and gathering was to remember the great contributions of Dr. Kalam Sir to the Country, Society, Humanity and Science & Technology and to commit ourselves to understand our own responsibility and to ensure our little contribution in fulfilling his dreams.
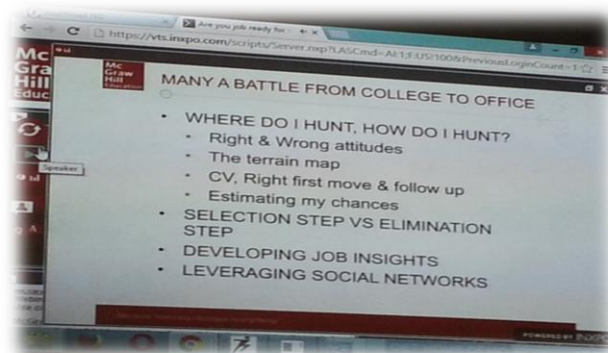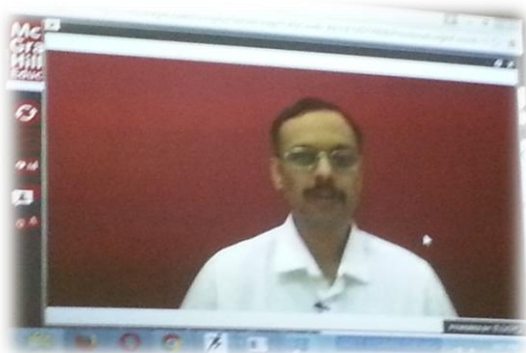
A Seminar on this occasion was organized. In this Seminar, Dr. Sunil Kr Pandey, the Director (IT) addressed the gathering and said that Dr. Kalam was among very few people who remained uncontroversial thorough out his life in spite of being in active Public life and it speaks about his integrity, commitment, a great human being and above all the trust, love and affection people have for him. His contributions have brought pride and confidence in not only the team he was leading too but also every countryman. He said that the institute believes in his philosophy of quality education for all to ensure everyone's participation and involvement. The activities Utthan and Parivartan are small effort of the Institute in this direction which focuses on Education to under-privileged kids in slum areas. The active involvement and contribution of faculty members and students have made it a successful initiative.

Earlier Prof. Puja Dhar, Coordinator – MCA Programme welcomed the audience and presented a brief discussion on the life and biography of Dr Kalam. She said that entire life of Dr Kalam is full of events that tell us how to live life with pride, dignity and satisfaction.

On this occasion Mr. V.K. Saxena, Registrar said that each of us should read his biography to understand the kind of contributions he made to the society in spite of being from a very poor family, limited options and resources. Prof. A.N. Tripathi, while speaking on this occasion said that this occasion is a reminder for all of us to relook the contributions of Dr. Kalam and own the responsibility to take forward his dream for future for which he always dreamt far and this will be real tribute to him.

On this occasion, students several students also expressed their feelings and tribute to Dr. APJ Abdul Kalam. Thereafter trees/ plants were planted in the institute by faculty members and students of MCA Programme. On this occasion all the faculty & staff members of Dept of IT and students of MCA Programme were present and participated in the event.

Webinar for MCA students on "Are you job ready for the IT industry?"

A Lecture through Webinar on "Are you job ready for the IT industry? " was organized by Department of I.T. on 28th July, 2016 at I.T.S Mohan Nagar. This webinar talk was delivered by eminent speaker Mr. R Anand, Sr. Vice President- HR, HCL Technologies, Noida.

The objective of this webinar was to provide help to students for their job preparation in the IT Industry. Mr. R Anand has discussed on Typical Gap Areas in corporate expectations and Industry, Curriculum writing, recruiters assessment criteria, how students can be ready for IT placement, working environment in College and Office.

It was good learning experience for MCA students. Students' felt very happy that our institute gave us such a great opportunity to renovate ourselves.

Webinar for MCA students on "Leading New ICT Building Smarter Cities" on 5th August, 2016

Four hour Lecture through Webinar on "Leading New ICT Building Smarter Cities" was organized by Department of I.T. on 5th August, 2016 at I.T.S Mohan Nagar.

This webinar talk was delivered by eminent speakers Dr. Samuel Kwan, Director of IT Services Center, Hong Kong University of Science and Technology, Mr. Zhang Lin, President of SEA, Enterprise Business Huawei Technologies Co., Ltd., Mr. Gerald Wang - Head of Government & Education, APIDC Government Insights, Mr. Gerrit Bahlman, Director of IT, Hongkong Polytechnic University, Dr. Raymond Poon, Director of Computer Services, University of Hongkong.

The objective of this webinar was to provide an ideal platform for global education industry experts and ICT professionals to discuss the ways to achieve equity in education, share top education resources, construct smart and safe campus, enrich teaching and learning. It was good learning experience for MCA students. Students' felt very happy that our institute gave us such a great opportunity to enrich ourselves.

Department of I.T. Celebrated "70th Independence Day –Azaadi-70" during 9th August to 23rd August, 2016

Department of IT celebrated **70th Independence Day "AZAADI 70" Zara Yaad Karo Kurbani,** with great enthusiasm and respect during 09th August to 23rd August, 2016 at ITS, Mohan Nagar, Ghaziabad. The event was inaugurated by Director-IT, Dr. Sunil Kr. Pandey, Coordinator-MCA, Prof. Puja Dhar and Registrar, Sh. V.K.Saxena.

While addressing the students, Coordinator-MCA, Prof. Puja Dhar said that we are proud to be an Indian and we should never forget the sacrifice of our freedom fighters. She also advised students to participate in the events and wished them best luck for different competitions and activities which were scheduled during Azaadi-70 week.

Director-IT, Dr. Sunil Kr. Pandey while addressing the students said that we are really privileged to be the citizen of the country like India and it is only due to the great leaders like Mahatama Gandhi, Bhagat Singh, Rajguru, Sukhdev and many more. He very nicely narrated some patriotic real stories of some of the great freedom fighters. He also encouraged students that they should take participation in the events like this so that we all give true tribute to those leaders.

On this occasion Department of IT organized various activities like Essay Writing, Online Quiz competition, Poster Making Presentation, Rangoli Designing & Singing competition.Students from MCA had participated in various activities. Each activity was judged by the faculty members of Department of IT. Theme of each activity was patriotic. Details are as follows:

Essay Writing Competition:
Competition was judged by Prof. Puja Dhar & Prof. A.N.Tripathi
Winners were: 1. Meera Rani   2. Preeti   3. Preeti Singh
Poster Making Competition:
Competition was judged by Prof. A.N. Tripathi & Dr. Vidushi Singh
Winners were: 1. Meera Rani   2. Ambika   3. Sakshi
Rangoli Making Competition:
Competition was judged by Dr. Umang Singh & Prof. Rakesh Roshan
Winners were: 1. Priya   2. Meera & Preeti   3. Naina & Deepika
Singing Competition:
Competition was judged by Prof. Puja Dhar & Prof. K.P. Singh
Winners were 1. Anandita Kaushal   2. Vishal Prashar   3. Meera Rani   4. Pummy Kumari   5.Aastha
Debate Competition:
Competition was judged by Prof. Abhay N Tripathi, Prof. K.P.Singh, Prof. Saurabh Saxena, Prof. Smita Kansal and Prof. Varun Arora
The winners were :   1. Kunal Sardana   2. Pummy Kumari   3. Nivedita
Online Quiz Competition:
Competition was judged by Prof. Rakesh Roshan
Winner were: 1. Priya Mall   2. Vijay Kumar   3. Anil Kumar

Indeed, it was a day of joy, a day to love and respect our country and make it a better place for Indians to live and experience the freedom, peace and unity in diversity. Every faculty & staff from department of I.T. was present & appreciated the effort of students to make this event a grand success.

C Club of Department of I.T. Conducted Workshop on "Placement Aptitude in C Language" on 12th August, 2016

On 12th August 2016, C Club of Department of I.T. conducted a workshop on "Placement Aptitude in C Language" . The resource persons in workshop were the coordinators of C club— Prof. Rakesh Roshan & Prof. Chandra Mani Sharma. The session started with an online quiz wherein participants took a test comprising of C aptitude questions. Result and feedback were shared with each student. The solutions of questions of quiz were discussed in later part of the workshop to reinforce better learning among participants.

Prof. Chandra Mani Sharma began the workshop with some problems on patterns in C. He discussed how to develop logic and code to print different types of simple and complex patterns. He unleashed many tricks of writing good code. Prof. Sharma further discussed output based problems in C which are asked in aptitude tests of many recruiters.

In subsequent session, Prof. Rakesh Roshan discussed some problems on array and pointers. He described how pointers can be used to write efficient code with fewer lines. During the workshop, students were given fresh problems to implement solutions in C. Students also requested to conduct some more workshop on same line in futures as well. Overall, it was a nice learning experience for participants.

Inaugural of TEDP sponsored by EDI under DST-NIMAT Project,DST on 17th August, 2016

Department of I.T. organized inaugural ceremony of Technology Based Entrepreneurship Development Programme sponsored by EDI under DST-NIMAT Project, Department of Science and Technology and Science, Govt. of India from 17th August - 28th September, 2016.

A Technology Based EDP primarily focuses on training and development need of S&T entrepreneurs in a specific technology area (for example, Leather, Plastic, Electronics & Communication, Fragrance & Flavour, Instrumentation, Sports Goods, Bio-technology, IT Computer Hardware, Food Processing, Bio-medical

Equipment, Glass & Ceramics, Jute Products, Sustainable Building Materials, Herbs & Medical Plants Processing, etc.).

The Programme was inaugurated on 17th August 2016 by Dr. A.K.Puri - Director General, I.T.S Mohan Nagar, Ghaziabad, Dr. Sunil Kumar Pandey - Director-IT, Coordinator MCA Prof. Puja Dhar & Event Coordinator Prof. Saurabh Saxena and Prof. Varun Arora.

Prof. Saurabh Saxena, Coordinator-E-cell briefed the participants about the structure, design of the programme and spelt out the expectations of the organizers from the participants. The session was devoted to an interactive session on "Introduction to Entrepreneurship and Charms of becoming an entrepreneur".

Prof. Puja Dhar, Coordinator-MCA while addressing said that department of I.T. is always trying to give various opportunities to our students to know the best possible career options which are available in the market and this is the need of our that we understand the options, opportunities & prospects available to us.

Dr. Sunil Kr. Pandey Director-IT while address the gathering touched the various dimension of entrepreneurship from raw to the actual product. He very well said when a time poses challenge is when the real entrepreneur emerges. He shared with student that in each of us an entrepreneur exists which inspire us to experiment, fail, retry & succeed in our professional & personal life.

Next Session was taken by Dr. A.K.Puri, Director-General, I.T.S Mohan Nagar, Ghaziabad. He motivated students to think differently and start their own business.

Orientation program for newly admitted batches of MCA Programme

Department of I.T organized seven days Orientation Programme of its newly, admitted XX batch of MCA III Semester (2016-18) at the Institute from 19th August, 2015 to 27th August,2016. The formal inauguration and opening ceremony for the above mentioned batch of MCA Course was on 22nd August, 2016 . Opening & Inaugural ceremony was formally inaugurated with the lamp lightning by Vice Chairman, ITS-The Education Group, Sh. Arpit Chadha, Chief Guest , Dr. M.M.Pant,Director-I.T., Dr.Sunil Kumar Pandey, Coordinator- MCA Programme Prof. Puja Dhar . This was followed by four days Orientation Program to sensitize students with MCA Program, Course requirement & structure, industry orientation through invited Industry people & our senior MCA Alumni, professional communication, Group Discussion and other basic technical skill sets which are required for their professional development.

Coordinator-MCA, Prof. Puja Dhar while welcoming the students of XX 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. 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, CEO Meet, IT-Summit, Conferences and many more.

Vice Chairman, ITS-The Education Group, Sh. Arpit Chadha welcomed all the students and wished them best luck for the new beginning of their professional career.

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. From 20th August to 24th August, 2016 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. Students had also participated in Group Discussion activities. Students had also attended 3-days workshop on Entrepreneurship in India by E-Cell. Closing Ceremony of Orientation Programme was scheduled on 27th August, 2016. The ceremony was inaugurated with the lamp lightening by the Guests Sh. Sushovon Saha, E-Governance Consultant & Smart City Expert, Sh. Rakesh Malik, Managing Director, CombineWays, Director-IT, Dr. Sunil Kr. Pandey and Coordinator-MCA, Prof. Puja Dhar. The objective of this ceremony was to have Industry & Alumni Interaction with the new admitted students of MCA.

While addressing the students Sh. Rakesh Malik, Managing Director, CombineWays discussed about the expectation from today's IT student in the corporate world. He advised students to strengthen their basic fundamentals of the subjects they study in their curriculum and simultaneously also strengthen any particular area. They were also advised to have knowledge of new technologies. Sh. Sushovon Saha, E-Governance Consultant & Smart City Expert in his address said that we all are having a dream of making our country a Digital Country and it is only possible with the help of today's youth like these newly admitted students. He also narrated many stories of some of the successful person who have contributed in making the country digitally sound. He advised students to have sound knowledge of their area but at the same time should have good communication skills. He had also shared some motivational videos with the students and involved students to interact. He said that students should come out of their shells and should interact with their colleagues.

Students were also addressed by the MCA Alumni Ms. Priyanka Saini, Director, IO Machine & MCA-2004 passout and Mr. Prateek Sharma, Aptra Pvt. Ltd. & MCA 2012 pass out. They also advised students to emphasis on the understanding of fundamental concepts of all the subjects. They should focus on the hard work, should stretch themselves and have a spirit in working in team. At the last of ceremony all the dignitaries including Director-IT, Dr. Sunil Kr. Pandey cleared the doubts of students. The Session was followed by a Hi-Tea for newly admitted students along with all the Guest , MCA Alumni, Director-IT and Faculties of IT Department. Overall the session was very interactive and informative for the students and faculties too.

3 days Entrepreneurship Awareness Programme for MCA Students

With an objective to promote and create awareness among students of MCA Programme, Three-days Entrepreneurship Awareness Camp (EAC) sponsored by Department of Science & Technology, Government of India, New Delhi was organized by Entrepreneurship Development Cell (E - Cell) of Department of IT, Institute of Technology & Science Mohan Nagar, Ghaziabad organized from 22nd – 24th August 2016.

Considering the objectives of the entrepreneurship awareness programme and the expectations of the participants, the programme contents, delivery and sequence was fine-tuned on the very first day of the programme. The participants were encouraged to challenge the concepts, ask questions and participate actively in the class-room interactions. The class room learning was supplemented by well compiled course material and handouts.

 The Camp was inaugurated on 22nd August 2016 by the Chief Guest Dr. Rishi Raj Singh Director-UPEA NIESBUD Noida, Dr. Sunil Kumar Pandey - Director-IT, Coordinator MCA Prof. Puja Dhar & Event Coordinator Prof. Saurabh Saxena. Total 75 students of MCA III Semester attended this entrepreneurship awareness camp.

Dr. Sunil Kr. Pandey Director-IT while address the gathering touched the various dimension of entrepreneurship from raw to the actual product. He very well said when a time poses challenge is when the real entrepreneur emerges. He shared with student that in each of us an entrepreneur exists which inspire us to experiment, fail, retry & succeed in our professional & personal life.

Dr. Rishi Raj Singh Director-UPEA NIESBUD Noida delivered a wonderful lecture on Idea sensing & generation. It was very interesting session where the participants were divided into groups where they were to generate new

ideas for entrepreneurship. The participants had learned and even delivered their new ideas for being an entrepreneur through presentation.

The last session on the first day was devoted to Transition from Academics to Entrepreneurship and was handled by Prof. Varun Arora. He introduced the students to entrepreneurial motivations, values and attributes with help of different exercises. He also explained how the students can think towards being an entrepreneur.

On Second day a session on "Scope of Entrepreneurship in India" was taken by Prof. A. N. Tripathi. He explained about various opportunities for entrepreneurs in India and also explained some challenges for being an entrepreneur.

Next session was taken by Prof. Puja Dhar on Skills required for entrepreneurship. In her address she explained various skills required for being a successful entrepreneur.

Next two sessions were taken by Dr. Rita Sen Gupta, who is running Udyogini NGO for women. She in her address motivated the students to be the entrepreneur and also told about the various challenges that an entrepreneurs face in the beginning. She involved students in various group activities that helped the students to work in team and also find their weakness in several fields. The students worked on their weakness and presented the work done by them.

On the third day of the event, a panel discussion was organized. The panel included experts from various domain having expertise in Entrepreneurial Mentoring.

The Panel was moderated by Dr. Sunil Kr Pandey, Director (IT). In his opening remark, he said that to be successful entrepreneur, one has to have basic understanding of the options available, how to present a conceived idea into a Project Plan which is implementable and how it can be executed in a sustainable manner. He also said there is a risk involved into it and hence until an idea has substantial convincing backing and thorough understanding of the proposed project, its implementation will always be shaky. He expressed his confidence that the panel will address all these issues to make the student understand and think accordingly.
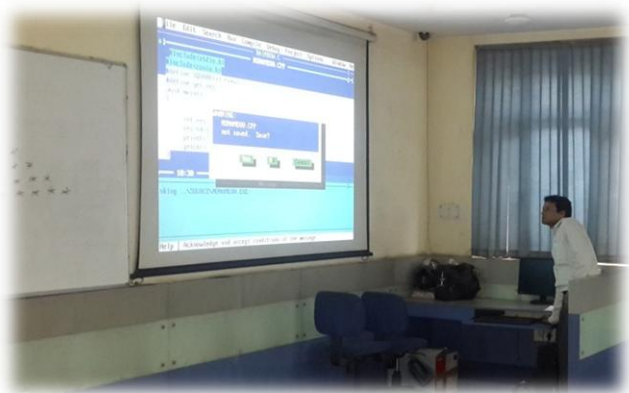
Prof Puja Dhar explained the role of education in entrepreneurship. Prof Saurabh Saxena, explained about various areas where students can think for being entrepreneur. Prof. A. N. Tripathi, explained about various legal issues that an entrepreneur has to face.

Dr. Sunil Kr Pandey – Moderator of the Panel, while summing –up the panel discussion, said that merely starting-up a new start-up does not guarantee that it will sustain in long run, as any solution propounded is being challenged everyday by many of the competitors who wish to enter in the market every day to create their own space, and thus to sustain in long run, it is very important that one has some feedback mechanism about the solution offered for users perspective and continuously work to fix bugs, if any, improve the features & functionality, addresses the issues left and more importantly does contentious assessment of his/ her creation for any additional value addition. If these things are taken care of, there is always an edge and probably the start-ups can grow & prosper

not by taking others together and ensure their prosperity. This would create employment opportunities for others as well and will be a real service to society and nation at large. All the faculty members of Department of IT & students were present in the session.

On third day of the programme, a valedictory session was organized. Director-IT Dr. Sunil Kr. Pandey congratulated the participants for completing 3Days Entrepreneurship Awareness camp & wished them very best for future end ever. Vote of thanks was proposed by E-Cell Coordinator Prof Saurabh Saxena. During this 03-days event, all the faculty members of Department of IT and students of MCA III Semesters were present

Two days workshop in Advanced C language by C-Club for MCA Students

Two day workshop on "Advanced C language " was conducted by Prof. Rakesh Roshan on 29th August 2016 and 31st August 2016 at Institute for MCA 3rd Semester students under the C-Club. The purpose of workshop was to aware the students about the Aptitude questions of C language which are generally asked by IT companies. The topics covered in the workshop are like Data types, Array, Pointers and Macros. The multiple choice questions are also discussed in the workshop with their description.

Workshop on "3D Printing Technology"

A Workshop on "3D Printing Technology" was conducted on 30th August, 2016 for students of MCA Programme. Mr. Sanjay Khanna, COO, US Institute of 3D Technology was the key resource person for this training Programme.

Objective of the Workshop was to help the student to better understand the 3D Printing Technology including the Types of 3D Printers available, Types of material choices, the functioning of 3D Printer and related 3D Design Systems. After attending this Workshop students will be able to explain the functioning of 3D Printers, Distinguish

between Types of 3D Printers and Printing Materials. He will also be able to explain basics of 3D designs and related Software Systems.

The Students from MCA Programme attended this workshop; the functioning of a 3D Printer was explained by the resource person followed by the live demonstration of the 3D Printing. The resource person created a 3D Design of a Mechanical Gear in front of students and then printed it using a 3D Printer in front of the students.
Students interacted with the resource person to get a deep insight of the technology and to clear various questions which were popping in their minds.

Dot Net Club organized a workshop on "Application Development using .Net Framework & C#"

A Workshop on Workshop on Application Development using .Net Framework & C# on 3-Sept-2016 organized by DotNet Club of Department of I.T. Prof. Abhay Kumar Ray, Prof. Saurabh Saxena and Prof. Rakesh Roshan were the resource persons. Students of MCA and BCA final year participated in the workshop.

This workshop was focused towards making the students aware & sharpening the skills about the Application Development using .NET Technologies, ADO DOT Net, ASP Dot Net, Rapid Application Development using .NET Framework and C# and Testing techniques of web applications, Manual testing of web pages and a test case writing activity was also organized at the end of the workshop to test their skills to write maximum number of valid and invalid test case in this activity Khushboo Sharma and Kriti Chhabra have written the maximum number of test cases.

Felicitation Ceremony for Meritorious Students of MCA on 3rd September, 2016

Felicitation ceremony for meritorious students of MCA 2014/15-17, on the basis of their performance in the results declared by Dr. APJ Abdul Kalam Technical University, Lucknow, was organized on Saturday, 3rd September, 2016 in Seminar Hall-II, ITS, Mohan Nagar. Objective of this event was to appreciate the efforts of the students and encourage them to improve their academic performance in a healthy competitive manner.

While addressing and motivating the students, Vice Chairman, ITS-The Education Group, Sh. Arpit Chadha expressed his happiness on the performance of students and also expressed his desire to see MCA students in University Merit List.

Director General, Dr. A.K. Puri while addressing the students, congratulated them and said that they should work had to get in the University Top-10 list.

In his address, Director-IT, Dr. Sunil Kumar Pandey greeted the recipients of awards & certificates and said that key to success is right kind of learning with right attitude and verifying it through practice He also said that figuring in a list of the toppers is difficult but it is more challenging to remain there and it requires consistent effort to maintain the level of performance. He also congratulated all the parents of the awardees and also thanked them to be the part of this ceremony.

Coordinator-MCA, Prof. Puja Dhar said that this is one of the pride moments not only for the parents but also for the faculties that their students show the significant improvement in their results. She also wished them luck for the future.

The Top-3 Students of MCA (2014/15-17) Batch result was as follows:

Ms. Sakshi Tyagi secured First Position, **Ms. Preeti Singh secured Second Position** and **Ms. Niharika Agarwal secured Third Position**. **They have received Scholarship Cheques worth Rs. 15,000/- , Rs. 10,000/- and Rs. 5000/- respectively**

The Top-10 Students of MCA(2014/15-17) Batch Semester wise result were as follows:

MCA-III Semester Toppers

Position	Name of Toppers
First	SHAKSHI TYAGI
Second	NIHARIKA AGARWAL
Third	PREETI SINGH
Fourth	PRIYA GARG
Fifth	AYASHA PANDEY
Sixth	PUMMY KUMARI
Seventh	PRIYA TYAGI
Eight	ABHISHEK GUPTA
Nineth	SHIVAM SANGAL
Tenth	GAURAV SHARMA

MCA-IV Semester Toppers

Position	Name of Toppers
First	PREETI SINGH
Second	SHAKSHI TYAGI
Third	NEHA SHARMA
Fourth	PRIYA GARG
Fifth	PREETI
Sixth	KALPNA PIHAL
Seventh	PRIYA TYAGI
Eight	SANJIV KR SINGH
Nineth	NIHARIKA AGARWAL
Tenth	NIVEDITA SINGH

Top-10 students of each MCA-III Semester & MCA-IV Semester were also identified based on their performance in External Examination of Dr. APJ Abdul Kalam Technical University, Lucknow and were awarded with Silver coins and Meritorious Award Certificates.

The Top-10 Students of MCA(2014/15-17) who had shown significant Improvement in MCA-IV Semester result over MCA-III Semester result were as follows:

Position	Name of Toppers
First	ABHISHEK SHARMA
Second	ANIL KUMAR
Third	KIRTI CHHABRA
Fourth	URVASHI BHASIN
Fifth	NEHA SHARMA
Sixth	GAURAV JAISWAL
Seventh	KHUSHBOO SHARMA
Eight	NIVEDITA SINGH
Ninth	ABHISHEK SONIK
Tenth	SANDEEP

Top-10 students with significant improvement in their recent examinations over previous semester examinations were identified and also awarded with Silver coins, Meritorious Award Certificates.

In this ceremony students of MCA who had participated in various activities in Azaadi-70, celebrated by the Department of I.T from 09th August to 23rd August, 2016 were also felicitated with Certificates. The names of the winners are as follows:

Essay Writing Competition:
Winners were: 1. Meera Rani
                      2. Preeti
                      3. Preeti Singh

Poster Making Competition:
Winners were: 1. Meera Rani
                      2. Ambika
                      3. Sakshi
Rangoli Making Competition:
Winners were: 1. Priya
                      2. Meera & Preeti
                      3. Naina & Deepika

Singing Competition:

          2. Vishal Prashar

      3. Meera Rani

        4. Pummy Kumari

        5.Aastha

Debate Competition:

The winners were :   1. Kunal Sardana

                        2. Pummy Kumari

                        3. Nivedita

Online Quiz Competition:

Competition was judged by Prof. Rakesh Roshan

Winner were: 1. Priya Mall

                 2. Vijay Kumar

                 3. Anil Kumar

Vice Chairman – I.T.S the Education Group, Sh. Aprit Chadha, Director General, DR. A.K.Puri and Director-IT, Dr. Sunil Kr. Pandey gave away the Scholarship Cheques, Certificate of Merit, and Certificate of Performance Improvement to the meritorious students and other awardees.

Department of I.T organized CXO-MEET 2016 on 17th September, 2016

Department of I.T, I.T.S, Ghaziabad organized the **second CXO Meet**, probably the first in any Academic Institute, on **Saturday, 17th September, 2016** at the institute.

The event was formally inaugurated with the Lamp Lightening before Goddess Maa Saraswati by Honorable Chairman, ITS-The Education Group, Dr. R.P. Chadha, eminent speakers of the inaugural session Dr. V. Ramgopal Rao, Director, IIT Delhi, Sh. Manoj Chugh, President (Enterprise Business), Tech Mahindra, Dr. Anupam Gupt, Jt. Secretary, Dy. Director General – Telecom Services, Min of Com & IT, GOI, Sh. KRD Srinivas, Executive Director, IBM,Dr. M.M.Pant, Chairman, PlanetEDU and Convener of CXO Meet & Director (IT) of the institute Dr. Sunil Kr Pandey.

In the beginning, Chief Administrator, I.T.S – The Education Group, Sh. Surinder Sood welcomed and introduced all the speakers of the CXO Meet-2016. While addressing the gathering, he also congratulated Director(IT), Dr. Sunil Kr. Pandey and his team for organizing such a big event.

While addressing the gathering Sh. Arpit Chadha, Vice Chairman, I.T.S – The Education Group welcomed the guests and said that students are fortunate to listen and meet the visionaries & Top Leaders of Corporate & Academia in this CXO Meet. He also congratulated the Department of I.T for the initiation and organizing such a big event.

Director General, Dr. A.K. Puri while addressing the gathering said that the vision and mission of Digital India is to transform India into a digitally empowered society and a knowledge economy. The mission symbolizes the Government of India's vision for connecting and empowering citizens. He said that this is a great opportunity for all of us to listen the Top Leaders of industry and academia.

Earlier, the Director (IT) & Convener of CXO Meet, Dr. Sunil Kr Pandey presented a brief of this CXO Meet and spoke about the objectives and need of the event I.T.S CXO Meet.

Following Guests Addressed in the Session-1 of the CXO Meet:

1. Dr. M.M. Pant, Founder Chairman, Planet EDU
2. Dr. V. Ramgopal Rao, Director, IIT Delhi
3. Sh. Manoj Chugh, President (Enterprise Business), Tech Mahindra
4. Dr. Anupam Gupt, Jt. Secretary, Dy. Director General – Telecom Services, Min of Com & IT, GOI
5. Sh. KRD Srinivas, Executive Director, IBM

Following Guests Addressed in the Session-2 on theme " Leading Innovations & Technology: Future Ahead":

1. Maj. Gen(Dr.) G.D. Bakshi
2. Sh. Sunil Ranjhan, Sr. Vice President(HR), Honda
3. Sh. Rajiv Garg, Executive Director, BHEL
4. Sh. Ashok Sharma, Associate Vice President, Amar Ujala
5. Ms. Karnika Seth, Managing Partner & Cyber Law Expert, Seth Associates
6. Sh. Pramod Panda, Principal Chief General Manager, RBI

Following Guests Addressed in the Session-3 on theme "Indian IT Industry- Driving Nation's Growth at Global Market Place":

1. Sh. Hilal Khan, Vice President & Operations Head(IT), Honda Motors
2. Sh. Ajay Mishra, Director(Technology), Ericsson
3. Mr. Rajan Agarwal, Director, Ebix
4. Dr. Kumar Padmanabh, Lead Scientist(IOT), BOSCH

On this occasion, a Souvenir printed on the occasion of this CXO Meet was also released by the eminent guests present on this occasion. The Souvenir comprised of messages from Hon'able Padhma Bushan , Dr. F.C Kohli who is regarded as father of IT Industry in India, Dr. V. Ramgopal Rao, Dr. Anupam Gupt, Dr. M.M.Pant, Sh. Manoj Chugh and other guests from India & Abroad. During the release of the Souvenir apart from the dignitaries on the stage, Sh. Arpit Chadha, Vice Chairman, ITS-The Educations Group, Sh. B.K. Arora, Secreatry, I.T.S-The Education Group, Sh. Surinder Sood, Chief Administrator, I.T.S The Education Group and other eminent speakers of the CXO Meet were also present.

At the end of the event Director (IT) & Convener of CXO Meet, Dr. Sunil Kr. Pandey presented a vote of thanks. Overall the CXO Meet ended on a success note. About 500+ delegates including guests from Industry, Academia and students attended the event.

Faculty Participation in External Events

Date	Faculty	Events
27th July, 2016	Prof. ChandraMani Sharma Prof. Abhay Kr. Ray Prof. Smita Kansal	Attended FDP on "Research and innovation in Teaching using Technology" at TCS ,Noida
28th August,2016	Dr. Sunil Kumar Pandey (Director-IT) Prof. Rakesh Roshan Prof. Smita Kansal	Attended the workshop on "Cost effective Digital Marketing for Startups" at Connaught Palace, New Delhi conducted by IMED Global
14th to 15th September, 2016	Prof. Saurabh Saxena Prof. Varun Arora	Attended two days workshop on "Amateure Radio Communication & Computing in Educational Environment" at ABES Engineering College, Ghaziabad.

We propose to dedicate our next issue of VIBRANCE on the theme "DATA SCIENCE and BUSINESS ANALYTICS" Articles/Views/Thoughts are invited from industry experts/Alumni/Faculty Members and students.

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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We wish a Happy & Prosperous Diwali to all our readers and contributors!