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VIBRANCE

October-December 2020,Vol.13, Issue 3

Quarterly E-Newsletter of Dept. of I.T, I.T.S, Mohan Nagar, Ghaziabad

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Institute of Technology & Science

Mohan Nagar, Ghaziabad

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Director-IT's Message

I.T.S - The Education Group established its first campus at Mohan Nagar, Ghaziabad in 1995 is a NAAC Accredited "A" Grade Institute. The Group is committed to its vision to provide quality value based education with a focus on excellence in academics, offering 20-Under Graduate, Post Graduate and Doctoral programs in the field of Information Technology, Management, Engineering, Dental, Pharmacy and Bio-Technology through its 04 campuses at Mohan Nagar, Murad Nagar and Greater Noida, 08 institutes with a strong base of over 800+ committed faculty and more than 8,000 future professionals. Department of I.T believes in creating Competent IT Professional. The mission of our department is to further knowledge of, and develop professional skills in, Information Technology with Professional Ethics.

The objectives of our MCA Programme is to adopt Learner-centric Approach rather than Teacher-centric Approach by ensuring students' participation in class room and create ideal learning environment. We provide knowledge & skills in-depth in domain areas. Department of I.T. act as an interface to bridge the gap between academia and industry through organizing Value Added Modules on Technical & Soft Skills. Providing maximum opportunities for all round development of each learner as per their interest & strength to increase their employability. Department helps in creating a pool of resources for various domains through Workshops/ Training to increase the Placement prospects of students and Facilitating in improving communication skills, presentation skills, positive attitude, confidence & technical skills through practical implementation of learnt concepts and interactive approach.

Our alumni have got laurels to the institution and continue to make us proud for their accomplishments. We motivate our students to contribute towards the society by enriching them with our core values. Our students actively participate in social activities with great zeal and fervor, with an objective to serve and respect the society as responsible citizens.
We welcome you the journey of learning and development at I.T.S.

Dr. Sunil Kr. Pandey
Director-IT

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Art of Problem Solving

Many of real life problems are categorized as decision problems and optimization problems. An optimization problem is the problem of finding the best solution from all feasible solutions. Many challenging applications in science and industry can be formulated as optimization problems. Optimization occurs in the minimization of time, cost, and risk or the maximization of profit, quality, and efficiency.

Formally the optimization problem is defined as:
Given a set X of feasible solutions and an objective function f which is defined on X. The objective is to find a feasible solution x* which maximizes (minimizes) f on X . For example, Travelling Salesman problem, Knapsack problem, etc.

There are three types of problems:

1. **Deterministic Algorithms (P Class Problem):**
   A deterministic algorithm is an algorithm that solves the problem deterministically in polynomial time. In these algorithms, the result of every operation is uniquely defined.

2. **Nondeterministic Algorithms(NP Class Problem):**
   Some algorithms contain operations whose outcome is not uniquely defined but there are limited sets of results out of which a solution can be found. The Machine executing such algorithms are free to choose one solution. Such algorithms are called Non-deterministic algorithms.
   For these algorithms, there are three functions defined:
   a. Choice(S):
      It chooses one of the elements of a finite set S.
   b. Success:
      It signifies a successful completion.
   c. Failure: It signifies an unsuccessful completion

A non-deterministic machine is a fictive machine that executes nondeterministic algorithms in the following way. If there is a sequence of choices that leads to a success signal, then the machine should follow this sequence to terminate the algorithm successfully. The algorithm terminates unsuccessfully if there is no sequence of choices leading to success.

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The running time of a non-deterministic algorithm is the minimum number of steps required to reach the successful completion. If no solution leads to successful completion the running time is the largest number of steps. Such algorithms are called the NP class of algorithms.

3. NP-Hard and NP-Complete Problems :

Reducibility:

A problem P1 reduces to a problem P2 (also written P1 α P2) if and only if there is a way to solve P1 by a deterministic polynomial-time algorithm using a deterministic algorithm that solves P2 in polynomial time. If we have a polynomial-time algorithm that solves P2 we can solve P1 in polynomial time.

A decision problem A ∈ NP is NP-complete if all other problems of class NP are reduced to problem A in polynomial time. NP-hard problems are those optimization problems whose associated decision problems are NP-complete.

It is very difficult to solve the NP Hard Problems by using conventional methods. As if there is a combinatorial problem, it will be very difficult to find the solution of such problems in polynomial time.

So the researchers have found various ways to find the approximate results of such algorithms. In our day to day life we face several problems which are NP hard in Nature and the research is going on to tackle such problems in a reasonable amount of time.

Prof. Varun Arora
Department of I.T.

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A New Normal

Will 2021 be the same as 2020? Will we going to feel the same vibe on this New Year Eve as we did last time? Will our lifestyle be the same? A BIG NO, Let's face it COVID 19 has made us all value our health and wellness more than ever. Each one of us is affected by this pandemic slightly or more. But one of the shields against COVID-19, and other against diseases in the future is to get the patients to build good immunity levels so as to be able to fight the infection better. So as we go back to work it is in our best interests to plan a smart wellness strategy.

So, let's take a resolution for this New Year to lookout for our Mental and Physical health, adapt new and good habits as we say "*health is wealth*".

Wake up its food o'clock

- Start your day with a fruit
- Eat home-cooked meals as often as possible, with your family will be more fun.
- Add ghee to every meal. It is a fat that breaks down other fats, is excellent for digestion, keeps joints healthy and the skin glowing. Ghee also reduces sweet cravings.
- And, Eat your meals without your phone next to you.

Movement is life

- Moving your body, can help you move towards a good mood.
- No matter how strict or disciplined we are about our eating habits and exercising, it is all worthless if we are not active and constantly moving.
- If you're not active, you are more prone to risks of heart diseases.
- Being active is the key to stay fit and healthy.
- Start by standing for 3 minutes for every 30 minutes of sitting.
- Walk for 15 minutes post Dinner.

Did You Know? Sitting at one place for too long can make you gain belly fat. So Move!

Exercise is a celebration of what your body can do

Exercise is different from physical activity. Exercise is actually taking this activity a few notches up, making it more challenging in terms of strength, stamina, flexibility or stability. Make sure to get a balance of different kinds of exercises – Cardio, Strength Training, yoga. It is important to ensure rest days are active as well – on those days play a sport, go for a walk.

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Sleep is the best meditation

Sleep is also an important determinant of health. To practice good sleep hygiene:

- Keep a gap of 2 to 3 hours between your meal and the time you go to bed.
- Avoid using any gadget at least 1 hour before bedtime.
- For good sleep and strong immunity, have a glass of turmeric milk at night.
- Sleep in a well-ventilated room that's quiet and dark.
- Read the book before going to bed or pray or meditate.

Stress Management

Stress in the right quantity pushes us to excel, but when the stress gets negative it can keep you away from performing your best mentally, physically and emotionally. But no one's life is completely stress-free. It's important to know how to manage the stress in your life.

- Meditate or Practice Yoga.
- Turn on some chill music or an inspirational podcast to help you on your way back from work.
- Doing things, you enjoy is a natural way to relieve stress and find your happy place

Chitra Maurya
Student Editor-VIBRANCE
MCA-1st Year

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What is an Emerging technology ?

Emerging technology is a term generally used to describe a new technology, but it may also refer to the continuing development of an existing technology; it can have slightly different meaning when used in different areas, such as media, business, science, or education. The term commonly refers to technologies that are currently developing, or that are expected to be available within the next five to ten years, and is usually reserved for technologies that are creating, or are expected to create, significant social or economic effects.

Importance of emerging technology as students

Technology is increasingly becoming commonplace in the recent educational scenario. Leveraging technology in the classroom enhances teaching and learning and it adds a new dimension to the overall learning experience. Learning has already progressed from the traditional textbook-based approach toward a more technology-driven one. An estimated $13.2 billion are currently being spent by educational institutes on Ed-Tech each year. The widespread access to technology and the internet through smartphones and computers has transformed the way conventional education system functions.

How emerging technology help in improved education ?

Every year, we see emerging technology trends that are geared towards making our lives easier, better and faster. Education is one such field that has been influenced by the introduction of technology, with Smart Boards becoming more common and block-chain technology allowing the possibility for educators to record information, develop new training methods and track the cost of education using information gathered about their students

Enhanced teaching

Then move on to the next subject with ease, knowing that all learners are on the same page and have the same understanding. Teaching and lecturing are two of the most important aspects of education. Technological innovations have been improving the abilities and resources available to teachers.

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Science teachers can use digital simulators to show scientific processes, and assessments will become easier with the help of technology with the use of emerging technology trends, testing the level of the student's understanding can be done in real-time, allowing teachers to use this information to help weaker learners understand the subject better.

Global learning via video conferences

For lecturers who teach foreign languages, being able to connect with native language speakers can enhance and improve the skills of their students. New platforms have emerged, such as glovico ,zoom, google meet which allow students to set up language lessons with a native speaker, via video conferencing

What are the benefits of technology for educators?

Despite technology being used more and more in classrooms, the role of a teacher will never become obsolete. Artificial intelligence may come with new and exciting innovations, but it will never replace the intuition and caring that a teacher or lecturer provides. Using technology in the classroom will help to improve engagement with the students, as well as knowledge retention. It can also help to encourage individual learning and allow learners to grow at their own pace. Using interactive technology encourages collaboration between students, making the classroom or lecture hall a more inclusive place. Emerging technology trends can make enrolling in schools and contacting university admin easier and more efficient.

Arshad Raja
MCA-1st Year
Student Editor-VIBRANCE

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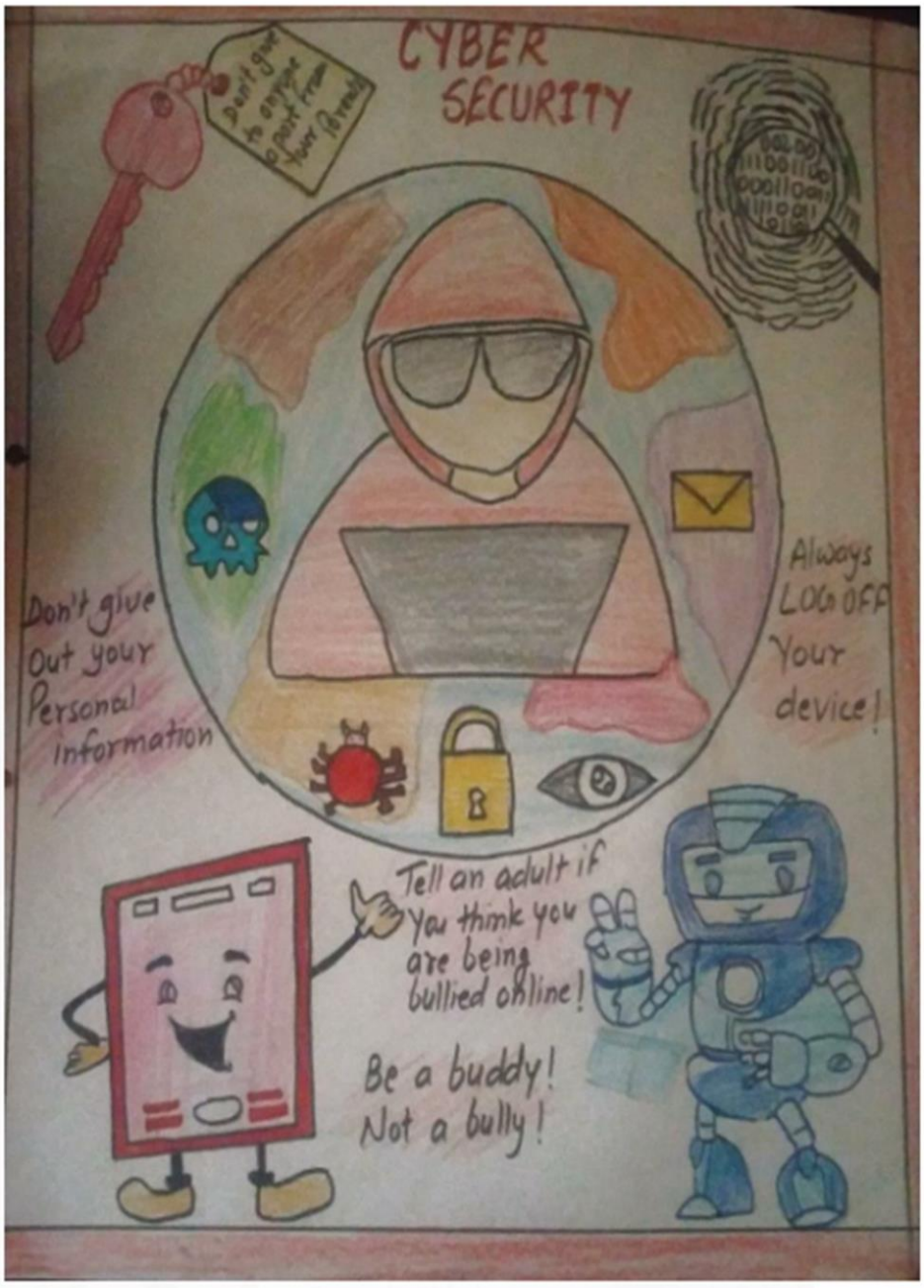

Neha Goel
MCA-1st Year

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IT-Poem- "You are a field in my class"

"You are a field in my class. You will always be protected."

"Are you an exception? Let me catch you."

"I think you're my compiler. My life wouldn't start without you."

"You are my semicolon; always present in everything I do."

"You are the JDK (Java Development Kit) in my life. I won't compile without you."

"If I were a method, you must be my parameter, because I will always need you."

"You are my superclass: you define what I can do."

"My friendship for you is a constant variable: unupdatable and unchangeable."

"You are my loop condition. I keep coming back to you."

"You are my methods. I am nothing without you."

"You are my API. I want to know everything about you."

"My friendship for you comes with no strings attached."

"My friendship for you cannot be measured with an int, not with a long, and not even with an array. It is out of bounds and infinite…. "

Shailja Verma
MCA-1st Year

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How to get a job in a Product Based Companies?

Google, Amazon, Facebook and Microsoft, getting into these product-based companies might be your dream job if you are a passionate programmer and you might be aware of the perks, pay (20,30,40 lacks per annum), and prestige of these companies. Landing a job as a software engineer in these product-based companies will be just like a cakewalk for you if you follow the right approach. You need to go through two steps in order to get into these companies.

We know that for most of the students or professionals this is a difficult step for them. You might be from any top engineering college, some private engineering college or a working professional. We need to clearly mention here that mostly these big product based companies hire freshers from top colleges like IITs or NITs and they visit in these top colleges for campus recruitment, they prefer to visit those colleges where they can find some good students to hire In normal engineering colleges most of the time they filter everyone and do not find any suitable candidate. So if you are from these top colleges then you are lucky and you won't face any problem in the first step.

If we talk about the students from some private engineering colleges then we need to say you may have to work hard and put some extra effort to get the call from these companies but don't be disappointed, if you follow some tips and right approach then you can get the interview calls.

We must specify here that these companies are not very much interested in your English communication skills, nor they want a excellent communicator, if you can speak and able to make the interviewer understand clearly what you are trying to convey than it is more than enough. What you need is the Programming skills and problem solving skills.

Your resume is the first thing that plays a crucial role in getting the call for the interviews. It should be short and precise so try to summarize everything in just one page because recruiters spend only 10-15 seconds scanning a resume so make sure that every single line you write in your resume(especially on the top) should answer a question of the recruiter "Why should we hire this person?".

Start using LinkedIn. Make connections there as much as you can. Approach recruiters or try to get a referral from employees working in these companies because chances are higher for interview call if you get some referral.

Some of these websites where you can participate or practice for your coding skills are GeeksforGeeks, HackerRank ,CodeChef, Leetcode etc. Mention your coding profile in your resume as well.

Make some side projects(It shows recruiters that you are passionate about programming) or contribute to some open source project to showcase it in your resume if you have no experience.

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Apply for some internships during your college and get hands-on experience working in the industries also mention that in your resume.

Your GATE score can also help you in getting the call from these product-based companies so if you have a good score in your GATE then mention it in your resume because it shows you have good command on core Computer Science subjects.

CRACKING THE OPPORTUNITY

Mainly there are 3 steps before you grab the dream placement :-

- WRITTEN ROUND
- TECHNICAL INTERVIEW
- HR INTERVIEW

1. **Written Round**
   This round consist of Aptitude and Logical reasoning questions to filter the bunch of candidate and select the most appropriate candidate for the further rounds. Another section of this round consist of Coding question which you need to solve on paper or on some competitive coding platforms. Generally there are 2 coding questions one is medium and one is Hard level of difficulty.

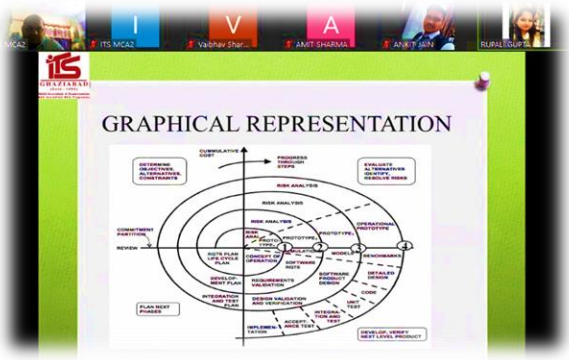
2. **Technical Interview**
   "Can you code" Yes this is the main concern of the interviewers in this round. When you are shortlisted for the interview of these companies you might have to give a telephonic round or online coding round first or they can call you face to face round directly. Now here is the need to focus on the data structures and algorithms part because the specifically ask you to solve the coding problems which based on the Data structures and algorithms in all the technical round so prepare the data structures and algorithms very well. You should know when to apply what data structure and what would be the time complexity of the code and the algorithms. In 2nd or 3rd round of technical interview they will ask you about your projects and system design fundamentals so you have to have deep knowledge about your projects. If you haven't done any project start prepare for data structure and algorithms and them work on your projects.
3. **HR Round**
   This one is the final round of these companies where they will be checking the cultural fit in the candidate. Dealing with pressure ,co-ordination with co-workers , life of college, your projects, your short term and long term goals , why you want to join the organization and where do you see yourself in next 5 or 10 years. I want to specify here that communication skills is very much different from speaking English.

Piyush Gupta
MCA 1st Year

Happening @ Department of I.T during October-December, 2020

Presentation Contest for MCA students on 1st October, 2020

Department of IT, I.T.S, Mohan Nagar, Ghaziabad in association with Institution's Innovation Council organized a Presentation Contest for MCA-3rd year Students on 1st October, 2020. As these students are already studying Software Engineering as one of the subjects in their 5th Semester. To create more interest in the subject understanding this activity was planned during their Software Engineering Class. Keeping this in mind, the topic of Presentation was kept as " Design Concepts and Principles in Software Engineering".



Students displayed full enthusiasm while participating in this contest. Students of MCA-3rd year presented their topic on various Software engineering sub topics like How to use Data Flow Diagrams, How to prepare a good design?, Different models used in developing Software and many more. These presentations were judged by Prof. Varun Arora and Prof. Abhay Kr. Ray of Department of I.T. At the end of all presentations three winners were also declared. The First three winners of this contest were Vaibhav Sharma, Ankit Jain and Rupali Gupta. Winners were also awarded with online Certificate of Merit to encourage them for participation in other upcoming contests.

Technical Sessions on the theme "Data Analytics, Predictive Modelling on Live Projects and Management" for Students by Tech Next Club on 10th October, 2020

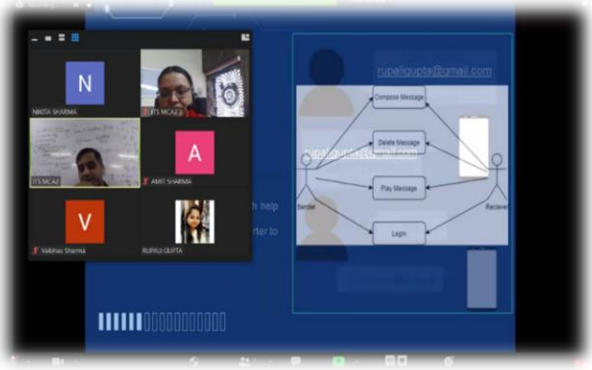
To strengthen knowledge and up gradation in technical skills as a continuous learning process, Tech Next Club, Department of IT, I.T.S organized technical sessions on 10th October 2020 for understanding the concepts of Data Analytics and how it is conceptualized in today's scenario. Further, there is also need to understand what the

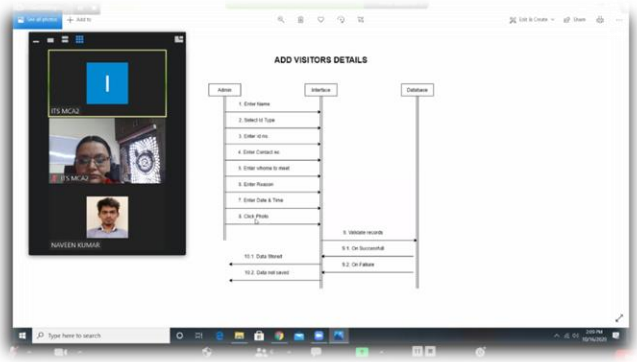
types of Data Analytics are and how it is implemented. For these sessions, resource persons Dr. T. Lalitha, Renowned Data Analyst & Professor, Shri Sakhti Kailaash Women College, Salem, Tamil Naidu, Mr. Vipin Kr. Saini, Technical Project Lead, Wipro Limited, Hyderabad(MCA Alumni Batch 2009-2012) were invited and addressed to students of MCA Programme and participants from various Institutes across the 19 states including J&K, Tamil Naidu, Gujrat, Kerala, Assam , Telangana, West Bengal, South Korea and Mauritius.

In the starting of the session Dr. Sunil Kr. Pandey welcomed the guest and addressed the gathering. Dr. Umang Club Coordinator briefed about the event & objective of Tech Next Club. Prof K. P. Singh, Club Coordinator delivered vote of thanks to the speakers at the end of the session.

Dr. T Lalitha addressed the gathering on session theme "Data Analytics using Python". It was completely enlightening session and provided awareness about online learning platform in this COVID-19 while keeping students, faculty, and community safe along with an objective learning should not stop. Mr. Vipin Kr. Saini, Technical Project Lead, Wipro Limited addressed on ML Predictive Modelling with Live Projects. Mr. Saini demonstrated practical demonstration on Jupyter Notebook. Mr. Saini answered the queries raised by the participants during the session.

SRS Presentation Competition by Programming club for MCA students on 16th October, 2020





Programming Club, Department of IT, I.T.S, Mohan Nagar, Ghaziabad organized a Software requirement Presentation Contest for MCA-3rd year Students on 16th October, 2020. As these students are already studying Software Engineering Lab and creating SRS document in their 5th Semester. To create more interest in the subject understanding this activity was planned. Students displayed full enthusiasm while participating in this contest. Students of MCA-3rd year presented their SRS document and various architectural diagrams

These presentations were judged by Prof. Varun Arora and Prof. Smita Kansal of Department of I.T. At the end of all presentations three winners were also declared. The First three winners of this contest were Naveen

Kumar, Rupali Gupta with Nikita Sharma and Vaibhav Sharma with Amit Sharma. Winners were also awarded with online Certificate of Merit to encourage them for participation in other upcoming contests.

Digital Conclave on Convergence of Science, Technologies and Humanities: A Road Map to Future Technologies(online)on 17th October, 2020

On 17th October, 2020 a One Day Online Conclave on "Convergence of Science, Technologies and Humanities: A Road Map to Future Technologies" was organized by Department of IT, I.T.S, Mohan Nagar, Ghaziabad .The Conclave was technically supported by Computer Society of India.

The Conclave was inaugurated by eminent guests Prof. M. M. Pant, Founder Chairman, PlanetEDU & Ex Pro Vice Chancellor – IGNOU, Padam Shri Prof. Y. S. Rajan, Distinguished Professor ISRO/DSO, Scientists & Ex Scientific Secretary Department of Space, ISRO, Vice Chairman- I.T.S The Education Group Shri Arpit Chadha, Director (IT & UG) Prof Sunil Kr Pandey, Prof. Nancy Sharma, Vice Principal (UG).

Director (IT & UG) Prof. Sunil Kr Pandey welcomed the guests and briefed about an event. Prof. M. M. Pant told that convergence of knowledge and technology in society is very important for progress in the twenty-first century. Padam Shri Prof. Y. S. Rajan addressed the gathering on "My Tryst with Science and Technology in India". He told about his 55 years of journey as a scientist and his contribution to the arena of Science and Technology in India.

On this occasion, Vice Chairman, I.T.S-The Education Group, Shri Arpit Chadha addressed the gathering. In his address, he told about convergence trends with goals that are poised for radical paradigm transformations in human endeavors. Professor & Director (IT & UG) Prof. Sunil Kr. Pandey spoke about integrated education, use of the spiral circuit of creativity and innovation within larger domains including multidomain design, human knowledge and cognitive capabilities—and added value decision analysis, made possible by convergence.

After Inauguration of the Conclave, in the Technical Session, Industry Experts shared their perspectives on Convergence of profoundly transformative technologies and technology-enabling sciences in real life perspectives and its future development.

While addressing the audience, Shri Manoj Chugh, President Group Public Affairs, Member Group Executive Board, Mahindra & Mahindra enlightened on futuristic development of Science & Technology. Shri Arvind Thakur, Member, Board of Management, NIIT University & Former Vice Chairman and Managing Director NIIT Technologies Ltd told about humanity development, creativity, innovation and emotional intelligence and he has also suggested guidelines for effective roadmap of conclave theme.

Shri Gautam Hazari, Technical Director, GSMA,UK discussed real life examples and elaborated the importance of Convergence with Humanity, Science and Technology.

In different Parallel Sessions. The Conclave was attended by over 500 Participants form 28 States of the Country and 8 Countries in different sessions of the Days. Towards the end of event, Technical Quiz on theme of Digital Conclave was conducted in which 210 participants who have secured 60% and had attended both sessions were given away with Certificate of Participation. The conclave was full of learning for all the participants.

Online Financial Awareness and Consumer Training (FACT) programme for students of MCA, BCA and BBA programme by NCFE

E-Cell, Department of IT, organized an online Financial Awareness and Consumer Training (FACT) programme for students of MCA, BCA and BBA on 20th October, 2020. This program was the initiative of the National Centre for Financial Education (NCFE), a body promoted by RBI, SEBI, IRDAI and PFRDA with the objective to promote Financial Education across India for all sections of the population. Financial Awareness and Consumer Training (FACT) is a programme by NCFE to provide financial education to young graduates and post graduates, on topics relevant to them, which will positively impact their financial well-being. Dr. Arjun Kumar Solanki from NCFE was the resource person of the program.

Following topics were discussed during the session:

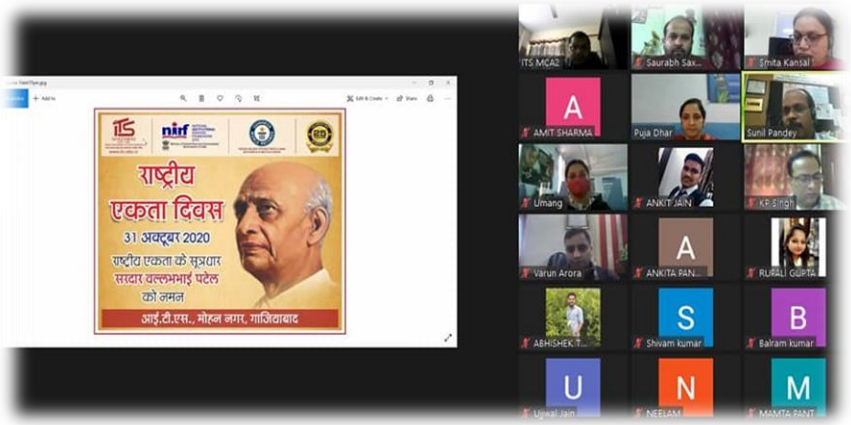
1. Identity theft protection: What measures can be taken to safeguard your personal data in online transactions?
2. Responsible use of credit card: How to avoid overusing credit card and get fraud purchase protection?
3. Education loan borrowing principles : Relaxations and repayment strategies of education loan
4. How to avoid impulse buying: How to make a proper budget before shopping?
5. Let's go cashless: Different modes of digital payments and Know-how of these modes
6. Your first pay cheque: How to manage your income?
7. How to set the Financial Goals?

The program was beneficial for the students as soon as they graduate and join the workforce and take on more financial obligations for the first time, they will be aware of their rights and responsibilities as financial consumers. Total 108 participants attended the session and the session was very interactive.

Online Celebration of Birth Anniversary of Sardar Vallabhbhai Patel on 31st Oct, 2020

There were many who used to think that a diverse country like India can never remain united. It will fall apart. But, Sardar Vallabhbhai Patel showed how it is done. We should learn how to grow from strength to strength, how to always stay united. Sardar Patel used Kautilya's wisdom and Shivaji Maharaj's bravery to achieve the great feat of uniting India after partition. He did something that was unparalleled. From Kutch to Kohima, from Kashmir to Kanyakumari, Sardar Patel united the country.

He was the first Home Minister of Independent India and his uncompromising efforts towards consolidation of the country earned him the title 'Iron Man of India'.



To pay him a tribute, Department of I.T, I.T.S, Mohan Nagar, Ghaziabad celebrated his birth anniversary via online mode on 31st October, 2020. Director-IT, Dr. Sunil Kr. Pandey while

addressing the students said that we should not wait for this day to remember our duty towards country, but we should always be ready to make our country pride and students should come forward to make this day a memorable one. While addressing the students Chairperson-MCA, Prof. Puja Dhar and Coordinator-MCA, Prof. Smita Kansal said that we should salute the personality like Sardar Vallabhbhai Patel for his contribution towards our country. Registrar- ITS, Mohan Nagar, Sh. R C Sharma also addressed the students and said that students should always be united to make our country pride . Faculty members of Department of I.T including Dr. Umang Singh, Prof. K.P Singh, Prof. Saurabh Saxena and Prof. Abhay Ray and Prof. Varun Arora also shared their views about this auspicious day & the contributions of Sardar Vallabhbhai Patel for making our country unite. At the end, everyone present took the pledge to make sincere efforts in making our country unite and happy nation. Students showed an enthusiasm for participating in this activity.

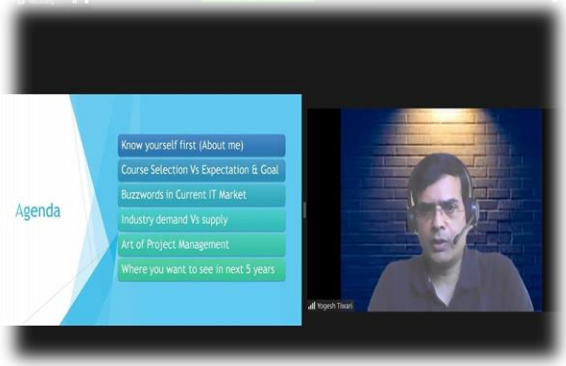
MCA Orientation Programme from 20th to 24th November, 2020

Department of I.T organized five days Online Orientation Programme of its newly, admitted 24th batch of MCA (2020-2022) from 20th November to 24th November, 2020.

On 20th November, 2020 the students were addressed by eminent speakers including Sh. Upkar Singh ,Director Technology, FIS, Global, Noida, Mr. Ram Janam Singh, Principal Software Engineer, Microsoft Corp.,Redmond, Washington & MCA Alumni (2003 batch), Mr. Yogesh Tiwari, (MCA 2001 Batch), Program Manager-Support Functions, ALSTOM Transport and Mr. Manjim Mukul, MCA Alumni (2000-03 Batch), Associate Director, KPMG, Singapore.

While addressing the students Sh. Upkar Singh ,Director Technology, FIS, Global, Noida took the session and very nicely explained about the VUCA world which means Volatility, Uncertainty, Complexity and Ambiguity. He also advised students to follow 10-E Keys starting from Enthusiasm to enjoying the successful life. He also advised that we should blend humour in our work environment. He very nicely explained about the journey from comfort zone to growth zone. He advised students that we should program according to what we see and hear. We should generate our thoughts and we should program ourselves in such a manner that so that it can result in excelling your goals. While addressing the students ,Mr. Ram

Janam Singh, Principal Software Engineer, Microsoft Corp.,Redmond, Washington & MCA Alumni (2003 batch) advised Students to be updated as per the expectations of industry. He said that Students who want to work in Web framework they can start learning UI/Angular JS/ Node JS latest technologies. They can also think about ML/AI/IoT. Students may also take Python which supports ML capability. He talked about all the demanding technologies as the per the corporate demand.



While addressing the students Mr. Yogesh Tiwari, (MCA 2001 Batch), Program Manager-Support Functions, ALSTOM Transport advised students that they should know about themselves. They should be aware about buzzwords in current IT Market. He very nicely explained about the Art of Project Management. He also emphasized on having the knowledge of Algorithms.

Mr. Manjim Mukul, (MCA 2000-03 Batch), Associate Director, KPMG, Singapore talked about the Digital cyber security, cyber strategy, data loss Prevention, Cyber Transformation. He advised students to work on the basic fundamentals of all the subjects they study during their MCA course. He also shared his experience when he was student of MCA at I.T.S, Mohan Nagar, Ghaziabad.

On 21st November students were blessed to listen the eminent Guests including Prof.(Dr.) M.M Pant, Former Pro-Vice Chancellor, IGNOU and Founder & Chairman- PlanetEDU, Lt. Col. Prashant Mishra, Vice President, Tata Communications and Maj Gen. Shashi Asthana.

While addressing the students Director-IT, Dr. Sunil Kr. Pandey said that Department always provide the Opportunity to students of MCA to work on Industry Projects during studies. In house Skill Development Cell for overall development and Placement preparation modules. He said that Department of I.T. is fortunate to have eminent speakers from industry and academia who will address the new members of MCA Programme during the Online Orientation Programme.

While addressing the students of MCA , 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 2021 and technology mega trends in the 5th Industrial revolution.

Lt. Col. Prashant Mishra, Vice President, Tata Communications and Maj Gen. Shashi Asthana wished students best luck for the new beginning. They shared their experiences and advised students to work on the basic concepts from day one of this journey. Students were advised that they should not keep quiet in the class, they should ask questions and they should develop curiosity and passion within them. It will help them in building confidence and communication skills and scoring well too. It is important to be helpful to others to build trust and work for the betterment of our Country which much required during these pandemic situation

On 23rd November, 2020 new members of ITS Parivar were addressed by Yogi (Dr.) Amrit Raj, Rishikesh, Haridwar and Shri. Rahul Mishra, Cyber Security Advisor - UP Police.

Dr. Amrit Raj while addressing the students said that while performing yoga we always feel energetic and positive waves enters our body . He also advised everyone that we should always be thankful to God for giving us healthy and

happy life. He said that we should stay positive and happy always. We should appreciate the efforts of birds, animals which they do for us. And we should not forget to respect our parents/ teachers and our friends too. While addressing the students Shri. Rahul Mishra, Cyber Security Advisor - UP Police discussed about the UPI-Fords. He said that sometimes we are very casual about sharing our account details with some unknown who pretends to be our bank official. We should avoid searching the customer care number via Google because as Sir said that using SEO hackers can keep their contact details can be at the top. We should be aware about E-Sim card frauds and we should be alert & Aware about safe internet banking and should take care before installing any App and person should report on the same day if any cyber-crime is happened with him/her. We should take care while we are on Social Media. On 24th November, 2020 students were addressed by eminent Guests including Shri Arvind

Thakur, Member, Board of Management, NIIT University & Former Vice Chairman and Managing Director, NIIT Technologies Ltd. and Mr. Shailendra Malik (MCA Alumni-2001 Batch), Sr. Project Head, HCL Technologies, London, UK.

While addressing the students Sh. Arvind Thakur advised students to focus on basic and at the same time they have to be aware about the new technologies. He said that communication is very important to express our knowledge & creativity. Skills are important as it is requirement of industry and at the same time we should build learning attitude and discipline is also important. He emphasised on the reskilling which is important for the survival in IT industry. During every session students asked many questions which were nicely handled by all the speakers. Overall the Online Orientation Programme was interactive and full of learning.

Department of IT organized Samvad- A Group Discussion Series Round-1 on 14th December, 2020 through online mode

On 14th December, 2020 Department of I.T. organized an Samvad an online Group Discussion Series for the student of MCA. The objective of this activity was to strengthen the confidence and interpersonal skills of MCA Students. In round-1, Students have discussed their opinion on topic “India dealt COVID-19 Problem Effectively : Myth or Reality?”. Students of MCA had participated with full zeal and it was good learning experience for participating students.

Faculty Participation in External Events during COVID-19

Date	Name of Faculty	Events
5th to 10th October	Dr. Umang	Attended short term Training Programme on “ An Introduction to Internet of Things(IoT) and its Applications for Smart Transparent and Immutable Ecosystem” organized by Noida Institute of Engineering and Technology
12th to 16th October		Attended ATAL online FDP on “ Data Science” organized by AICTE

9th to 13th November	Prof. Smita Kansal	Attended online Faculty Development Programme on "Cyber Security" organized by Manipal Institute of Technology
13th Nov. to 5th December		Attended two weeks online Faculty Development Programme on "Cyber Crime and Security" organized by College of Technology, G.B Pant University of Agriculture & Technology, Pantnagar
17th to 21st November	Prof. Varun Arora	Attended AICTE sponsored online Faculty Development Programme on "Data Science and Machine Learning" organized by KIET Group of Institutions
21st to 25th November	Dr. Umang	Attended AICTE sponsored online Faculty Development Programme on "Artificial Intelligence" organized by IIIT, Raipur
30th Nov. to 4th December	Prof. Saurabh Saxena Dr. Umang Prof. Varun Arora	Attended AICTE Sponsored Online Faculty Development Programme on " Cyber Security" organized by Sri Venkateshwara College of Engineering
6th December	Dr. Sunil Kr. Pandey (Director-IT)	Invited to co-chair the session in IACCA -2020
10th December		Invited by Dun & Bradstreet to speak in its Virtual Event on the theme "Modernizing Business Communication through Cloud Telephony" in the Series of "Do Big Digital CXO's Session" organized in association with Tata Teleservices.
7th to 11 December	Prof. Puja Dhar	Attended AICTE Sponsored Online Faculty Development Programme on "Artificial Intelligence" organized by Manipal Institute of Technology
14th - 16th December	Dr. Umang	Chaired Technical Session NABIC 01 &02in 12th World Congress on Nature and Biologically Inspired Computing (NaBIC 2020) organized by MIR Labs USA
17th December		Chaired Conference as Program & Technical Session Chair WICT 2020 in World Congress on Information and Communication Technologies organized by MIR Labs USA
19th December	Dr. Sunil Kr. Pandey (Director-IT)	Invited as a speaker in 4th National Management Summit and Research Conference (NMSRC) - 2020, Management and Development Perspectives in New Normal organized by ISM Patna
28th December	Prof. Puja Dhar	Attended AICTE Training and Learning (ATAL) Academy Online FDP on "Cyber Security" organized by Thangal Kunju Musaliar College of Engineering

Student Participation/ Certification in External Events

Date	Student Name	Events
1st October	Vaibhav Sharma MCA 3rd Year	Won 1st position in Presentation Contest on the topic "Design Concepts and Principles in Software

		Engineering" organized by Department of I.T., I.T.S, Mohan Nagar, Ghaziabad in association with IIC
1st October	Ankit Gupta MCA 3rd Year	Won 2nd position in Presentation Contest on the topic "Design Concepts and Principles in Software Engineering" organized by Department of I.T., I.T.S, Mohan Nagar, Ghaziabad in association with IIC
1st October	Rupali Gupta MCA 3rd Year	Won 3rd position in Presentation Contest on the topic "Design Concepts and Principles in Software Engineering" organized by Department of I.T., I.T.S, Mohan Nagar, Ghaziabad in association with IIC
8th November	Rupali Gupta MCA 3rd Year	Attended one hour Certification program of Power Excel conducted by LUDIFU
9th November	Pushkar MCA-2nd Year	Participated in International Quiz on " Applications of AI" organized by PICA
25th November		Completed Certification in Writing a Resume from Linked in Learning
2nd December		Certification on "Data Science: A-Z Bootcamp+ Real Cases" from Udemy
10th December		Certification on "Data Science with Python Certification Training with Project" from Udemy
26th December		Participated in Microsoft AI Classroom Series

Announcement and Contact Details

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

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