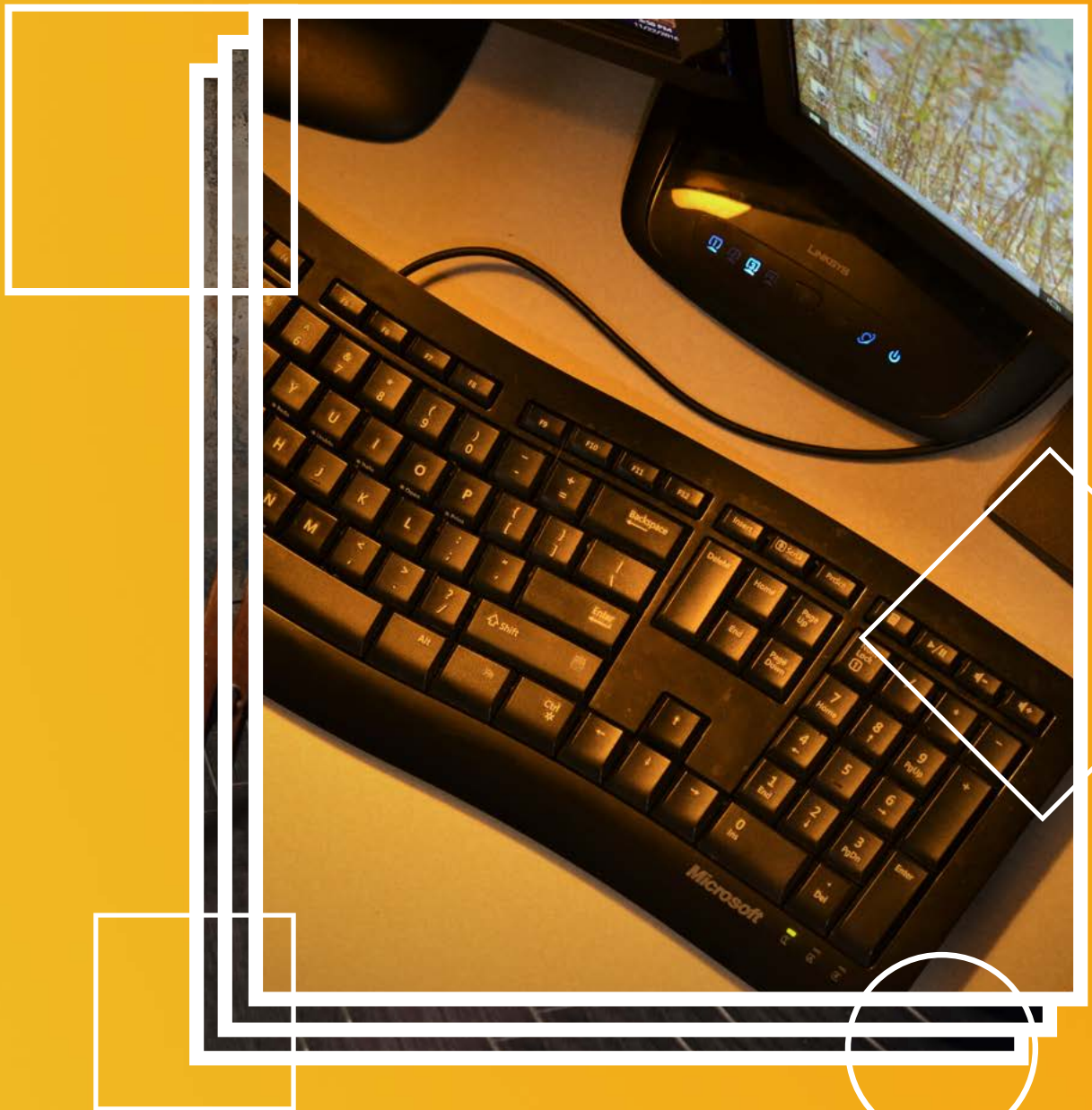


October-November  
2019 Edition

# ITanium

DEPARTMENT OF INFORMATION TECHNOLOGY



**IMS Engineering College, Ghaziabad**  
**NAAC Accredited with 'A' Grade**  
Approved by AICTE, New Delhi & Affiliated to  
Dr A.P.J ABdul Kalam Technical University ,Lucknow.

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**Shri Ramesh Chaudhary**  
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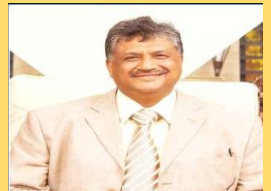
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**Jatin Arora**



**Kajal Khanna**



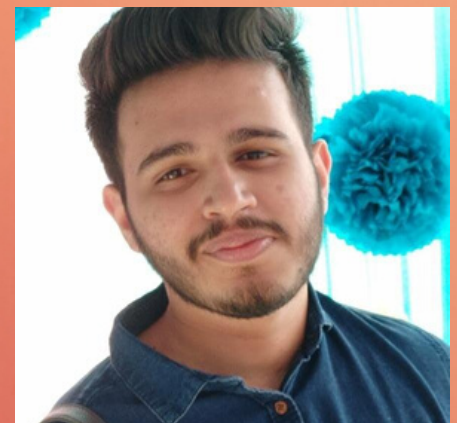
**Ayush Singh**



**Prince Chauhan**



**Preeti Shishodia**



**Nayan Dhawan**



# VISION & MISSION

## IMS ENGINEERING COLLEGE

### Vision

Our vision is to impart vibrant, innovative and global education and to make IMS the world leader in terms of excellence of education, research and to serve the nation in the 21<sup>st</sup> century.

### Mission

- To develop IMSEC as a centre of Excellence in Technical and Management education.
- To inculcate in its students the qualities of Leadership, Professionalism, Executive competence and corporate understanding.
- To imbibe and enhance Human Values, Ethics and Morals in our students.
- To transform students into Globally Competitive professionals.

## Department of Information Technology

### Vision

To impart futuristic technical education and establish a department of excellence by preparing students to apply their knowledge and varied skills as a competent technocrat to contribute towards solving complex societal problems and thus building a peaceful and prosperous nation.

### Mission

- M1:** To impart quality engineering education so that they become enlightened individuals by getting high quality of technical education, research, training, professionalism with strong ethical values.
- M2:** To educate students in such a way that they shape up their minds to ensure their productive careers in industry and academia.
- M3:** To help students excel in research and innovation that discovers new knowledge and enables new technologies and systems.
- M4:** To prepare students to become a perfect technocrat by inculcating creativity, team spirit, leadership & ethical competence through industry-academia collaboration, continuous curricular, co-curricular and extra-curricular activities.





## Department of Information Technology

### PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### Program Educational Objectives [PEO]

**PEO1:** Graduates of the program will be able to apply fundamental principles of engineering in problem solving and understand the role of computing in multiple disciplines.

**PEO2:** Graduates will learn to apply various computational techniques & tools for developing solutions & projects in real worlds.

**PEO3:** Be employed as Information Technology (IT) professionals beyond entry-level positions or be making satisfactory progress in graduate programs.

**PEO4:** Demonstrate that they can function, communicate, collaborate, and continue to learn effectively as ethically and socially responsible IT professionals.

### Program Specific Outcomes [PSO]

By the completion of program the students will have following program specific outcomes.

**PSO1: Foundation of computer system:** Ability to understand the principles and working of computer systems & information technology.

**PSO2: Foundations of software development:** possess professional skills and knowledge of software design process. Familiarity and practical competence with a broad range of programming language and open source platforms.

**PSO3: Foundation of mathematical concepts:** Ability to apply mathematical methodologies to solve computation task, model real world problem, using appropriate data structure and suitable algorithm.

**PSO4: Applications of computing and research ability:** Ability to use knowledge in various domains to identify research gaps and hence to provide solution to new ideas and innovations.



# **SUCCESS WISHES FOR EXAM**



**Dr. S.N. Rajan**  
**HOD (IT)**

**Best wishes to students for semester exam!!**

**We're behind you, cheering you for a great success and achievement in coming semester exam. You might be feeling stressed, overwhelmed, confused and so damn tired – we understand that, but keep going. Give it everything you've got – you're nearly there – and know that whatever happens next, you've got what it takes for an amazing life.**

**During the next few days, remember that nothing that happens now has to determine what happens next. The potential in you is breathtaking, whether you've realized it yet or not. There will be choices, twists and turns in your path. That's one of the beautiful things about life. Sometimes things will work out exactly as you thought, and sometimes things will be different. It's in the unexpected that the magic happens, so take notice of your disappointments – they are often opportunities, disguised as something else.**



# QUOTABLE QUOTES

**Insanity : doing the same thing over and over again and expecting different results.**

**— Albert Einstein**

**Great minds discuss ideas ; average minds discuss events ; small minds discuss people.**

**– Eleanor Roosevelt**





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# ALUMNI SPEAKS





# **NISHA AGRAWAL**

## **2012-2016 BATCH (IT) SOPRA STERIA, NOIDA.**



**It is very difficult to describe 4 year of journey of IMSEC in words. But, College days are always best days of our life. We always have some unforgettable memories, journey which we can cherish forever. The friends, moments, days, learning and photo-copy shop were priceless. Faculties have tremendous influences on our attitude. They molded me by sharing valuable knowledge and experience and helped to reduce the gap between students and professionals. I am not feeling stagnate, I am having dynamic personality because all the hard-work that IMS Engineering College did on me has finally paid-off.**

**I am adding one of my favorite quote by Matshona Dhliwayo "It is bird's imagination, not its wings, that determines how high it can fly." Today, i am able to fly high owe to professors, because they made me to think high.**

**Thanks to ITanium Team from bottom of my heart for providing such a great opportunity to meet everyone virtually and bringing east-to-west smile on my face in such a busiest life.**



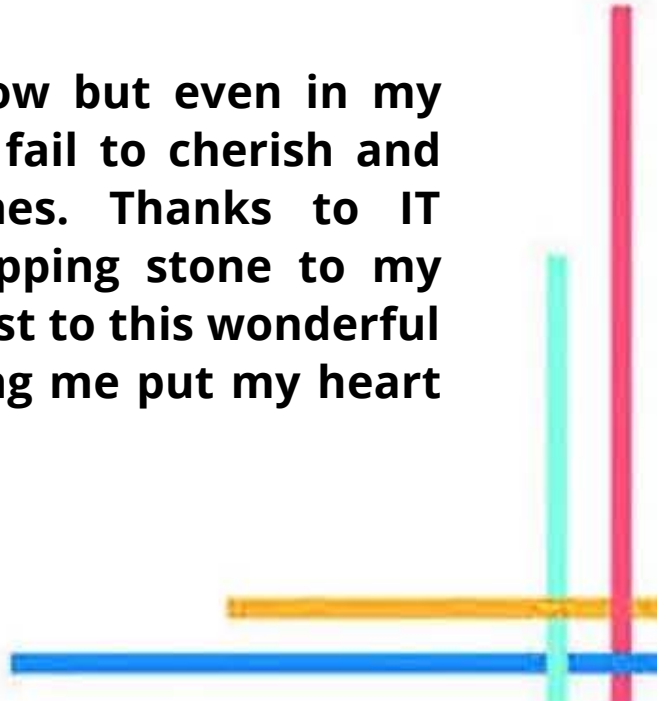
# **SAGAR SRIVASTAVA**

## **2014-2018 BATCH (IT) INFOSYS, MYSORE.**



**There's always a special connection that you share with your college. For me , that special bond came in form of IMS being my second home and IT department being my extended beloved family. Yes, I still remember all the cultural events, technical sessions and countless interactive memories I shared with my ever-inspiring faculty members, supportive friends, guiding seniors and loving juniors. In their presence , 4 years spent like a blissful ride.**

**It's been more than a year now but even in my busy corporate hours, I never fail to cherish and remember my good old times. Thanks to IT department for being the stepping stone to my successful career and all the best to this wonderful initiative by 'ITanium' for letting me put my heart out.**



# **NANDINI SINGHAL**

## **2015-2019 BATCH (IT) TCS, NOIDA.**

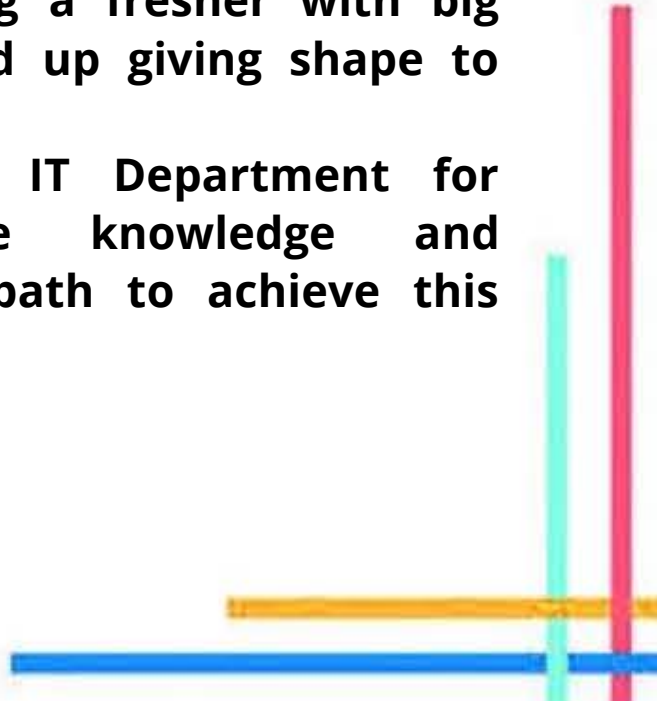


**College Life is the most amazing time in the life of a student , as in this phase we get exposure to many new things in our life.**

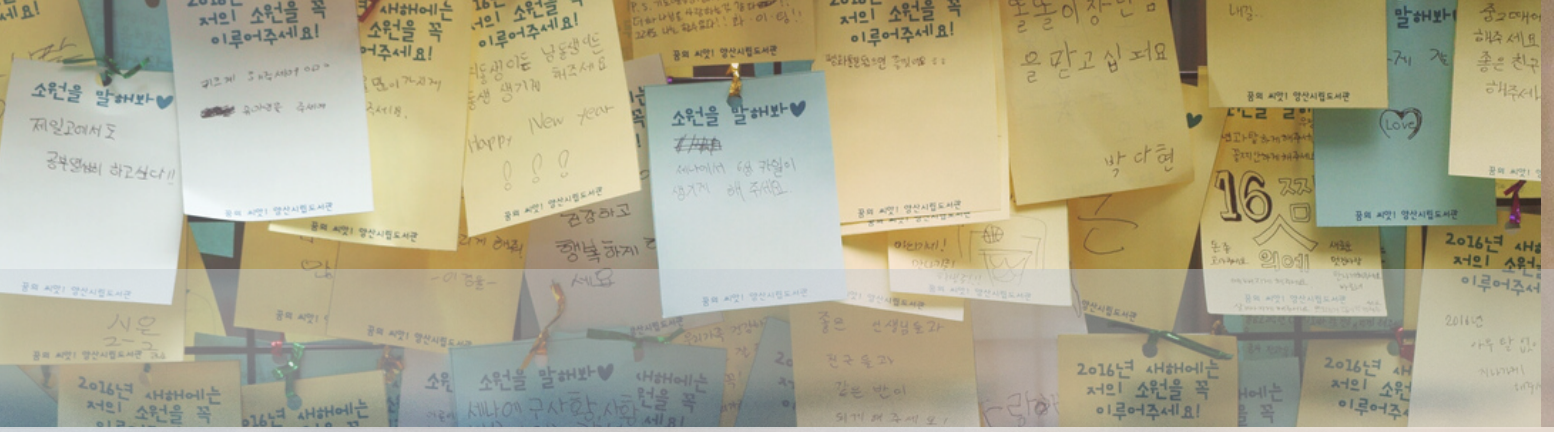
**IMSEC has provide such exposure with great learning experience. Various Technical and Non- Technical events are conducted in college so that the talented one's can showcase their skills and knowledge . Everyone is provided with abundance of opportunities to prove themselves.**

**It was all started from being a fresher with big ambitions in mind and ended up giving shape to them.**

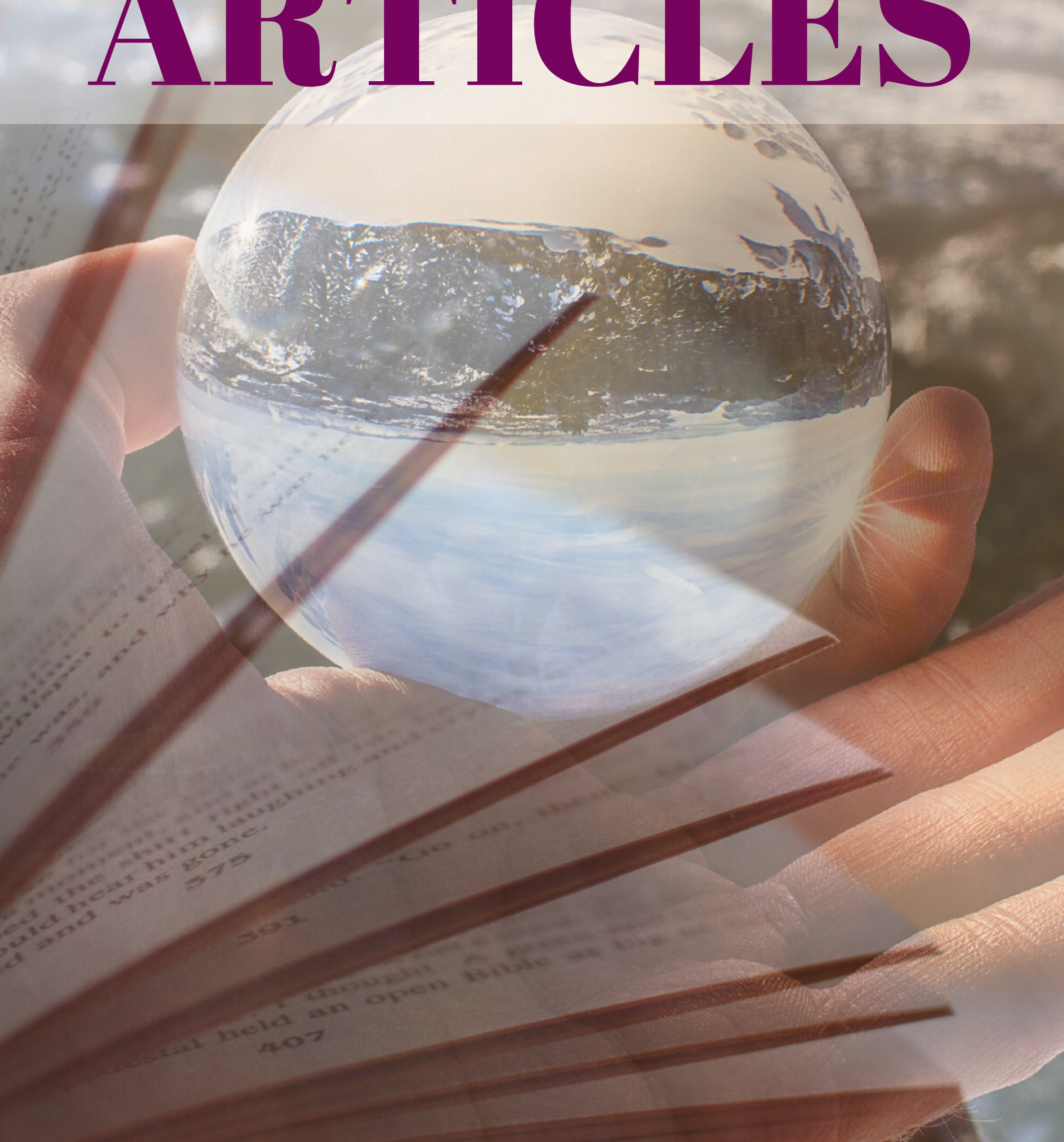
**Thanks to my faculties of IT Department for providing their invaluable knowledge and guidance,which paved the path to achieve this milestone.**







# ARTICLES





# Breakdown structure of Data Science



We are living in era where lots of data present around us, but getting hiding information from those data directly is not possible. For mining the information, we need to know about data science. It helps to make careful decisions and provides meaningful insights of data, Also important for better marketing strategies. It helps to analysing the different aspects. Before starting to learn about data science, the breakdown structure is very important to know as each breakdown is different skills to learn.

## 1. Data Analysis

### 1.1 Feature Engineering

### 1.2 Data Wrangling

### 1.3 EDA (Exploratory Data Analysis)

## 2. Data Visualization

### 2.1 Tableau

### 2.2 Power BI

### 2.3 Matplotlib

### 2.4 ggplot

### 2.5 Seaborn

## 3. Exploration of Data through Code (Programming Language)

### 3.1 Python

### 3.2 R

### 3.3 Java

## 4. Mathematics

### 4.1 Statistics

### 4.2 Linear Algebra

### 4.3 Differential Calculus

## 5. Web Scrapping

### 5.1 BeautifulSoup

### 5.2 Scrapy

### 5.3 URLLib

## 6. Learning of Models

### 6.1 Supervised Learning

### 6.2 Unsupervised Learning

### 6.3 Reinforcement Learning

### 6.4 Deep Learning

## 7. Deployment

### 7.1 Azure

### 7.2 AWS

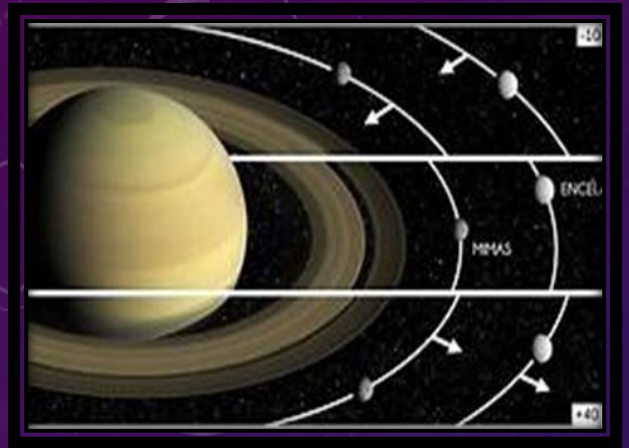
### 7.3 Other servers



**Article By : Nisha Aggrawal**  
**B.tech (IT) – Batch(2012-2016)**  
**Sopra Steria, Chennai**  
**Posted in Noida**



# The new king of moons: ***SATURN***



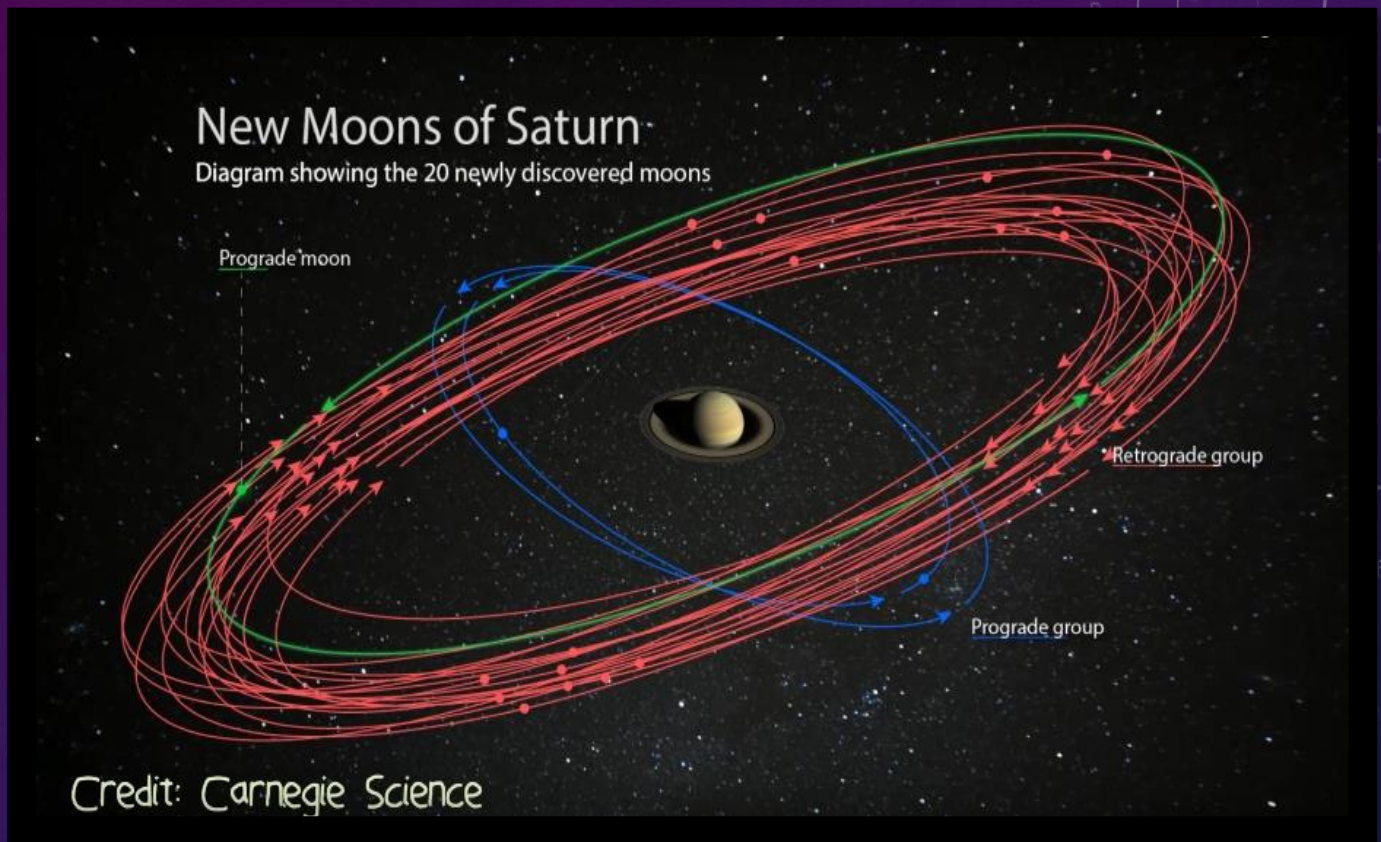
When we talk about Saturn we usually think of its rings, which are so grand they can easily be seen through a telescope here on Earth. But what usually can't be seen as easily are Saturn's many, many moons, which include among them at least one that may support life. As well as these 20 new ones that have just been discovered, which, while relatively tiny, still give Saturn the record for planet with the most moons in the solar system.

Before October 2019 JUPITER was considered to be the king of moons with 79 known moons.

Carnegie Institute of Science astronomer Scott Sheppard and his team used the Subaru telescope in Hawaii to find the moons. The moons are all similar in size, spanning about three miles across. But 17 of the 20 have a retrograde orbit of Saturn, meaning they essentially orbit backwards from the planet and other moons. Two of the moons with a pro-grade orbit, or one moving in the same direction as the planet, complete a single orbit of Saturn every two years. They're closer to the planet than some of the other newly discovered moons. Other prograde and distant retrograde moons complete a single orbit every three years.

These outer moons fall into three categories, based on the angle of their orbit. The outermost group, which includes two of the pro-grade

moons, has an orbit angled at 46 degrees and are named after Inuit mythology. The researchers believe all of these moons may have once been part of a larger moon that broke apart.



The retrograde moons were also likely part of a larger body and their name are derived from Norse mythology.

One of the prograde moons has an angle of 36 degrees, similar to the other prograde moons close to Saturn named for Gallic mythology.

## Wanna name one of Saturn's moons?

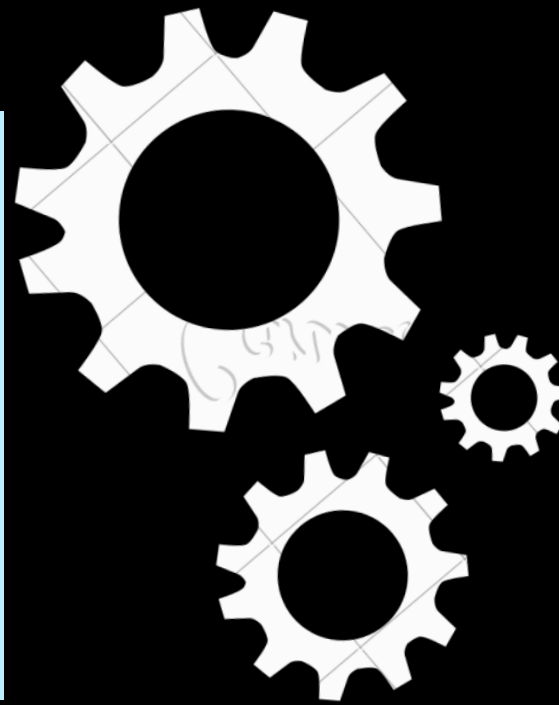
Yes you can help name the new moons.

The moons must be named after giants from Norse, Gallic or Inuit mythology.

Article By: Varun Garg, IT02, 3rd Year

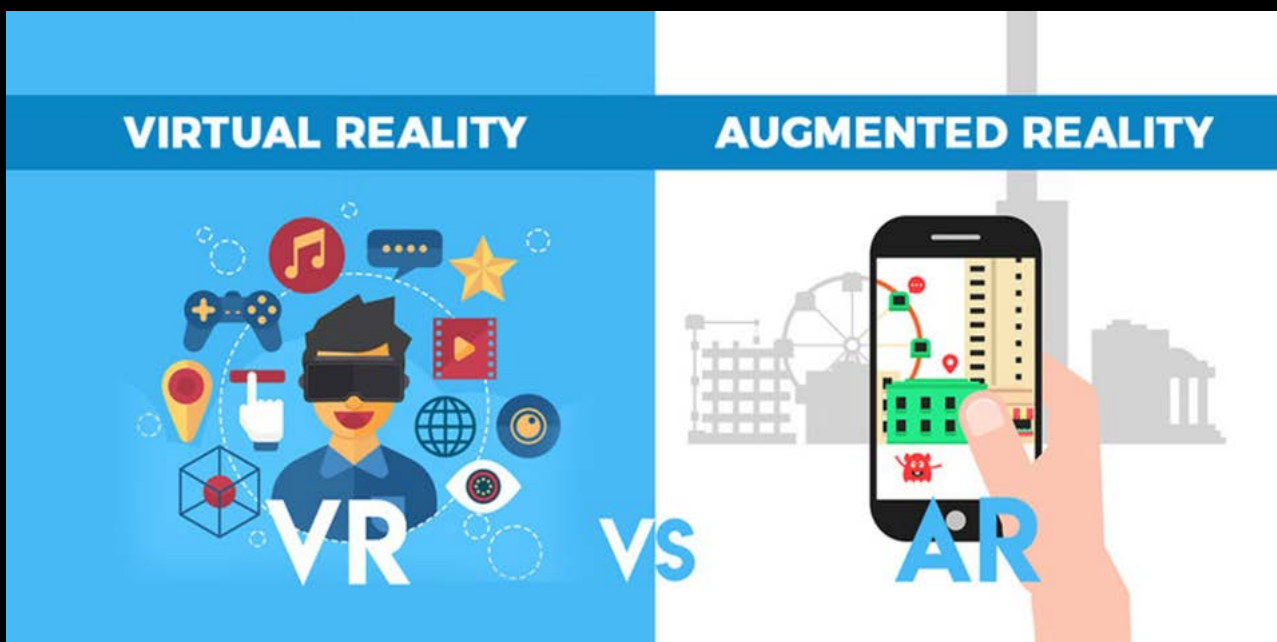


# VIRTUAL REALITY AND AUGMENTED REALITY



Virtual Reality (VR) immerses the user in an environment while Augment Reality (AR) enhances their environment. Although VR has primarily been used for gaming thus far, it has also been used for training, as with VirtualShip, a simulation software used to train U.S. Navy, Army and Coast Guard ship captains. The popular Pokemon Go is an example of AR. Both have enormous potential in training, entertainment, education, marketing, and even rehabilitation after an injury. Either could be used to train doctors to do surgery, offer museum-goers a deeper experience, enhance theme parks, or even enhance marketing, as with this Pepsi Max bus shelter. **According to an article at Monster.com, the demand for job candidates with VR knowledge is up 37 percent, but the potential employees are in short supply.**

That demand will only increase. There are major players in the VR market, like Google, Samsung, and Oculus, but plenty of startups are forming and they will be hiring—or trying to, in light of the shortage. Getting started in VR doesn't require a lot of specialized knowledge. Basic programming skills and a forward-thinking mindset can land a job, although other employers will be looking for optics as a skill-set and hardware engineers as well.





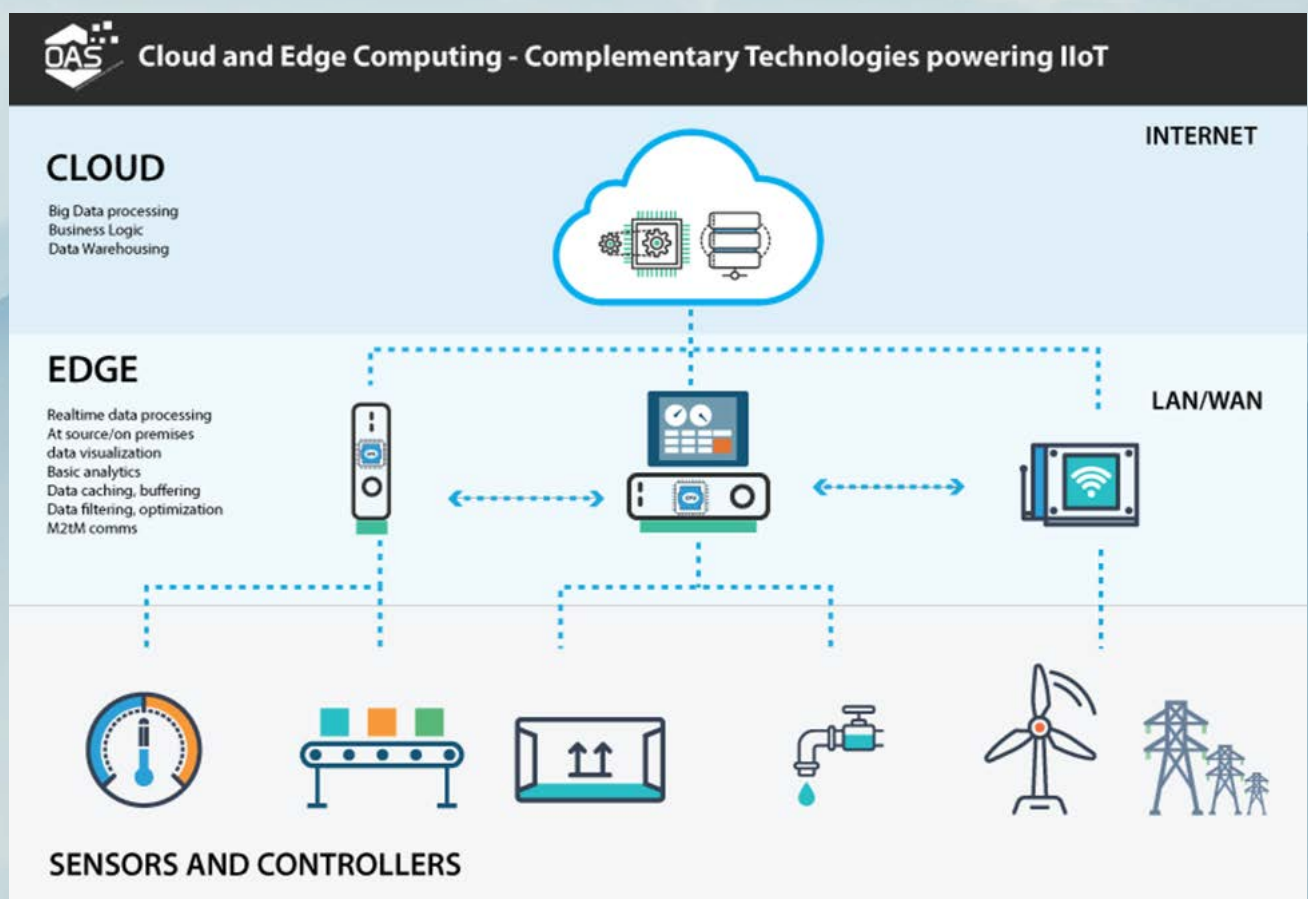
# Edge Computing

Formerly a technology trend to watch, cloud computing has become mainstream, with major players AWS (Amazon Web Services), Microsoft Azure and Google Cloud dominating the market. The adoption of cloud computing is still growing, as more and more businesses migrate to a cloud solution. But it's no longer the emerging technology. Edge is. Move over, cloud computing, and make way for the edge.

As the quantity of data we're dealing with continues to increase, we've realized the shortcomings of cloud computing in some situations. Edge computing is designed to help solve some of those problems as a way to bypass the latency caused by cloud computing and getting data to a data center for processing. It can exist "on the edge," if you will, closer to where computing needs to happen. For this reason, edge computing can be used to process time-sensitive data in remote locations

with limited or no connectivity to a centralized location. In those situations, edge computing can act like mini datacenters. Edge computing will increase as use the Internet of Things (IoT) devices increases. By 2022, the global edge computing market is expected to reach \$6.72 billion.

As with any growing market, this will create job demand, primarily for software engineers.



**ArticleBy : Shristi Singh IT2, 3rd Year**





LIT DROPS



# **DAY-BY-DAY**

**A thousand words full of worth**

**Time spent appreciating earth**

**Clouds, sunshine, or even on a rainy day**

**My admiration for you will never go astray**

**Tucson, Arizona, is quite the experience**

**40,000 students, am I just one name on a list?**

**Your potential is limitless and everyone has special abilities**

**19 years of experience has allowed me to see**

**Academics are important but never forget to live life**

**Relationships will happen**

**No need searching for your future husband or wife**

**People will want to build you up**

**People will want to tear you down**

**It's easy to feel lost**

**But now I can say that I am found**

***By- Ayush Singh IT-1,3rd Year***



# SIGNIFICANCE OF DIYAS ON DIWALI

## What Does the Oil in Diyas Represent?

The oil that is used to light the Diyas represents all the negative human traits that includes hatred, jealousy, greed, lust, anger and many more. And, the wick represents our inner self, the soul! The lighting of Diyas symbolises that we need our beautiful mind to clear from these negative things by enlightening our inner self. With the disappearing oil of the Diyas, these negativities from the home get disappeared. It has a hidden message that enlightening occurs only when we walk on the path of righteousness as Lord Rama did.

## What Does Diya Symbolises?

A Diya is symbolic of knowledge! A person who is ignorant will often keep himself in a dark consignment. He will keep in touch with the positivity of the surrounding only when he realises to get access to the knowledge all around that he will understand the need to celebrate his existence.

*By- Dheeraj Mishra IT-1 3rd Year*







**I scanned wise words in a book to-day;  
This was the message, they seemed to say:  
Keep moving ahead!  
You can't stand still unless you really are very ill;  
For if you stop, like an unwound clock,  
You're bound to suffer a fearful shock,  
For something will happen to give you a shake,  
And say to your conscience, "Move on, awake."  
Keep moving ahead, or your soul will die,  
And beauty evade your heart and eye.  
No matter at all that your pace be slows  
Go long as you upward, upward go,  
Into a finer atmosphere,  
Where ideals live and visions clear,  
And Goodness and Truth have taken firm stand,  
And folks to folks stretch a loving hand.  
For this be the measure of our success,  
The measure of all life's happiness:  
Just how well we have moved ahead  
For just how early our soul was dead!**

***By- Aryan Mishra IT-1 3rd Year***



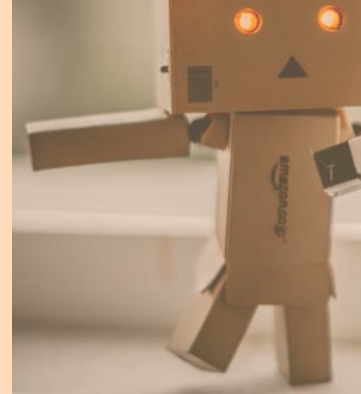


# NEWSWORTHY





# Science & Technology



## 1. A will to survive might take AI to the next level

Robots with feelings might develop more advanced thinking abilities, too, neuroscientists propose. Fiction is full of robots with feelings. Like that emotional kid David, played by Haley Joel Osment, in the movie A.I. Or WALL•E, who obviously had feelings for EVE-uh. Robby the Robot sounded pretty emotional whenever warning Will Robinson of danger. Not to mention all those emotional train-wreck, wackadoodle robots on Westworld. But in real life robots have no more feelings than a rock submerged in novocaine. There might be a way, though, to give robots feelings, say neuroscientists Kingston Man and Antonio Damasio. Simply build the robot with the ability to sense peril to its own existence. It would then have to develop feelings to guide the behaviors needed to ensure its own survival.



## 2. A newfound black hole in the Milky Way is weirdly heavy



A heavyweight black hole in our galaxy has some explaining to do. With a mass of about 68 suns, it is far heavier than other stellar-mass black holes (those with masses below about 100 suns) in and around the Milky Way, scientists say. That's not just a record, it's also a conundrum. According to theory, black holes in our galaxy that form from the explosive deaths of massive stars- as this one likely did -shouldn't be heavier than about 25 suns.

## 3. Isro satellite launch: Geo Eye over Indian Ocean, internet connectivity in J&K, NE

Indian Space Research Organisation (Isro) on Wednesday launched high throughput communication satellite GSAT-29 from the Satish Dhawan Space Centre at Sriharikota in Andhra Pradesh. The exercise was called GSLV MkIII-D2 mission. The Geosynchronous Satellite Launch Vehicle Mark III (GSLV Mk-III) carried GSAT-29 off the ground on its second developmental flight at 5.08 in the evening. The load carried by GSLV Mk-III included what is being called as Geo Eye to monitor sensitive regions along the borders.





# SPORTS

## 1. Rohit Sharma can break Brian Lara's record of 400 not out: David Warner

Dashing Australian opener David Warner believes India's Rohit Sharma has the firepower to surpass West Indies great Brian Lara's record 400 not out in a Test match. Warner, who scored his maiden triple ton (335) in five-day cricket during the ongoing second Test against Pakistan here, was just 65 runs shy of breaking Lara's record when skipper Tim Paine decided to declare the innings at 589/3. Though he couldn't break the record, Warner believes it is possible to surpass the 400-mark and backed Rohit to achieve the feat in near future. Lara's 400 not out is the highest individual score in Test cricket which came against England in 2004.



## 2. Winning an ICC tournament is a beautiful thing to wish for: Virat Kohli



India skipper Virat Kohli conceded that winning an ICC tournament is an obsession for every cricketer, including him, but his team's focus is not just on getting the results right but on the process that will help build a winning culture. Virat Kohli had two opportunities to win major ICC tournaments in the early years of his captaincy but he failed to deliver at the biggest stage as a leader. India last won an ICC tournament in 2013 when the MS Dhoni-led side beat England in the final of the 50-over Champions Trophy.

"So, I would say, you could look at winning an ICC tournament like an obsession or like a wish that people have. It is a beautiful thing to wish for because it is seen at a global level and every cricketer would want to win that," India skipper Virat Kohli told India Today in an exclusive chat.

## 3. ISL 2019-20: Roy Krishna salvages thrilling draw for ATK against Mumbai City

Fijian recruit Roy Krishna struck a last-gasp goal to help two-time champions ATK salvage a thrilling 2-2 draw against Mumbai City FC at the Salt Lake Stadium here on Saturday. Michael Soosairaj gave the home side the lead against the run of play in the 39th minute, capitalising on a delightful through ball into the box by Edu Garcia. Having dominated the first-half with better ball passing and creating more chances, Mumbai City FC found the equaliser through a set-piece in the 62nd minute when Pratik Chaudhari headed home a Mohamed Larbi corner. Both the teams then gave it their all to find the winner but could not do so.





# NEWS AND POLITICS

## 1.1. IFFI 2019: Rajinikanth conferred 'Icon of Golden Jubilee' award

Rajinikanth was honoured with the special 'Icon of Golden Jubilee of IFFI' award at the opening ceremony of the 50th International Film Festival of India (IFFI) in Goa on November 20, 2019.



## 2. Justice SA Bobde takes oath as 47th Chief Justice of India, succeeds Ranjan Gogoi

Justice SA Bobde was on November 18, 2019, sworn in as the 47th Chief Justice of India (CJI), a day after the retirement of Justice Ranjan Gogoi. Justice SA Bobde was administered the oath of office of Chief Justice of India by President Ram Nath Kovind. Justice Bobde will serve as the CJI for one year and five months till April 23, 2021.



## 3. China is world's worst abuser of internet freedom: Freedom on Net 2019 report



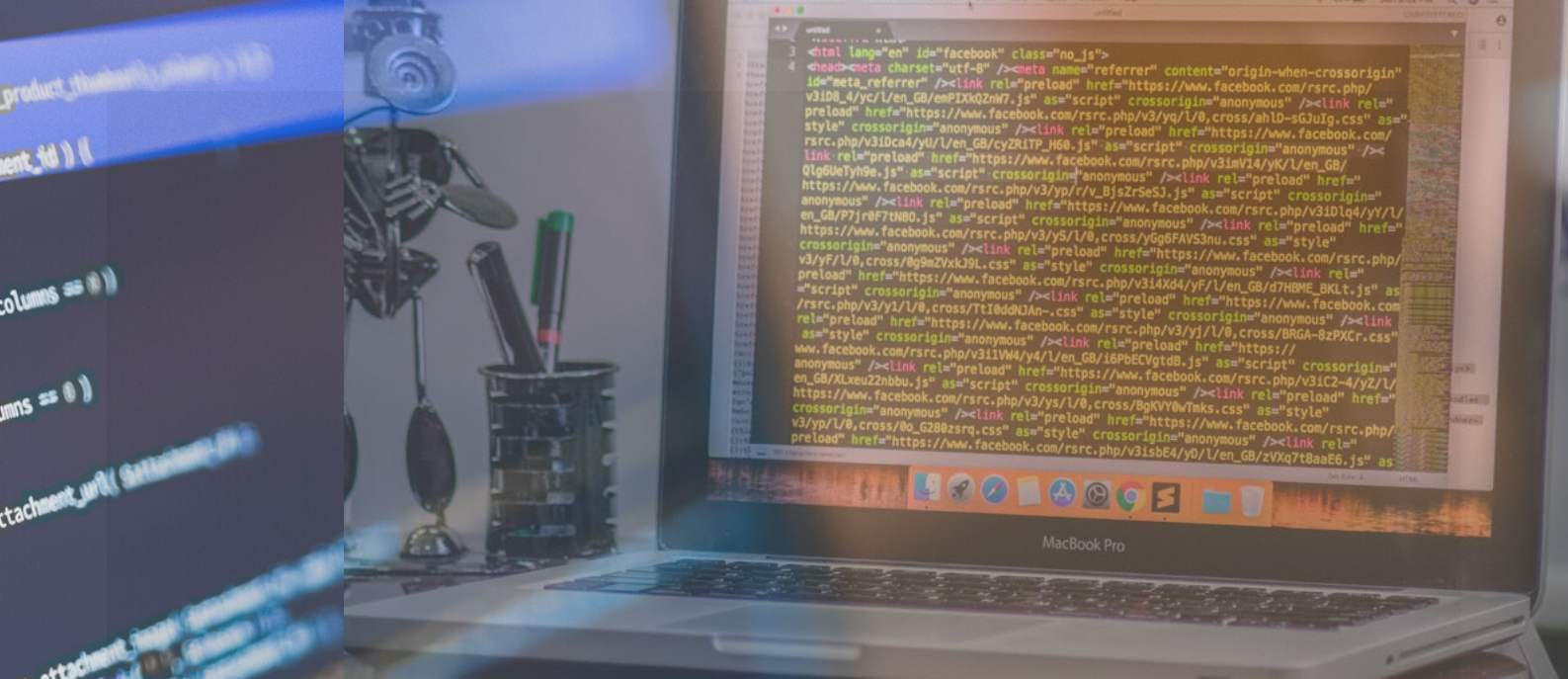
China was ranked as the world's worst abuser of internet freedom for the fourth consecutive year and Pakistan was declared as 'not free' in terms of internet freedom status for the ninth consecutive year in the Freedom on the Net (FoTN) report 2019.

## 4. Modi cabinet clears Citizenship Amendment Bill, likely to be tabled in Parliament next week

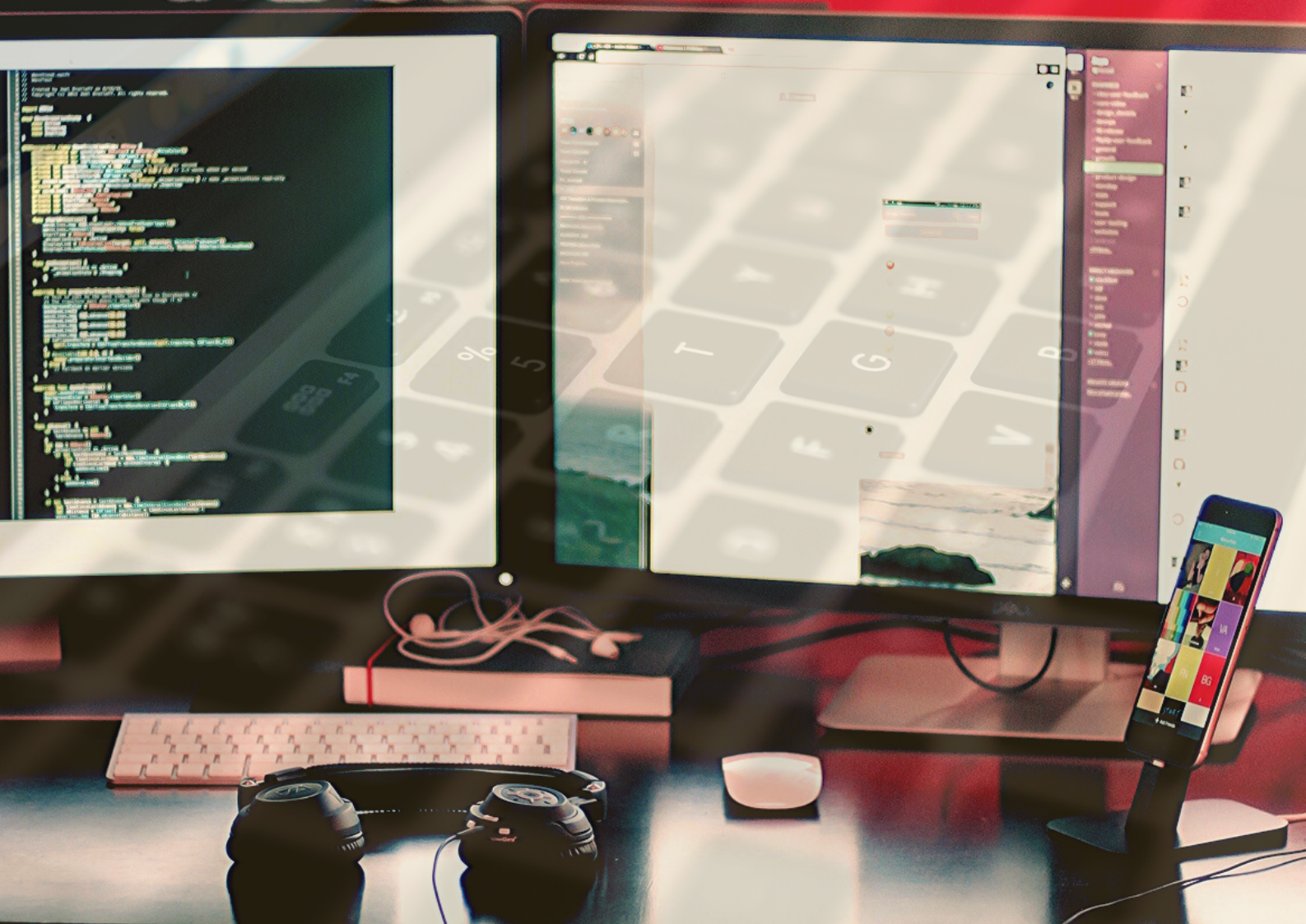
The Union Cabinet has cleared the Citizenship (Amendment) Bill that seeks to grant citizenship to non-Muslim refugees from Pakistan, Bangladesh and Afghanistan if they faced religious persecution there, sources said on Wednesday. A bill to amend the the Citizenship Act, 1955, is likely to be introduced in the Parliament in the next two days, the sources said







# DEPARTMENT NEWS





# Go Green !!

Department of Information Technology organised the event Go-Green on 23rd November 2019. The themes of the event were

1. Poster Presentation on Waste Recycling, and
2. Debate on Climate Change..

Around 45 students of different branches of engineering participated in the event.

**Alumni-**

**Vijit Gupta(TCS)**

**Nisha Agarwal(Sopra Steria)**

**Shivani Malik(Genpact)**

**Debate- :**

**First- SAFI UR REHMAN (CIVIL)**

**Second-ISHITA ROY (IT)**

**Third- ISHIKA MITTAL (IT)**

**Poster presentation- :**

**First- KAJAL KHANNA (IT)**

**Second-AKRITI SINGH (IT)**

**Third- MANSI CHAUHAN (IT)**





# AIST -2019



Mr Prashant Brahmbhatt, IT Final year student, participated in International Conference on Artificial Intelligence And Speech Technology-2019 (AIST-2019) on 14-15 November'2019, organised at Indira Gandhi Technical University for Women, Delhi. He presented his paper titled " Skin Lesion Segmentation using SegNet with Binary Cross-Entropy" authored by Prashant Brahmbhatt and Dr S N Rajan.



# TECH-NINJA 2.0

A Quiz Contest on C Programming quiz-2...  
held on 17 October 2019

**Convener: Dr. Avdhesh Gupta**

## TOPPERS OF C PROGRAMMING

| STUDENT NAME  | ROLL NUMBER | % SCORED |
|---------------|-------------|----------|
| Manav Sinha   | 1814310109  | 70%      |
| Manas Gupta   | 1814310107  | 62%      |
| Sanjay Bharti | 1814313091  | 60%      |



**Under the Captainship of Mr Piyush Kumar( B.Tech,IT, Final year), IMS Engineering College, won First Prize( Gold Medal) in state level Volleyball Championship held on 22-23 October 2019 at BBDIT, Lucknow. Now the team selected for all India inter University Volleyball championship consists of the following members from IMSEC. Mr Piyush Kumar(IT), Mr Paras Dhankar(EC), Mr Naveen Yadav(CSE), Mr Vivek(CSE), Mr Vibhu(ME)**





# IT Students Won 3rd Prize in State Level Project Competition



Student group of IT second years, under the mentorship of Dr Avdhesh Gupta, won third prize ( with cash award) in the state level project presentation event held at HI-Tech Engineering College

The team named as 'Defenders' presented their project titled "The Smart Companion"

The team members were :

Ayush Gupta (Team leader), Aayushi, Aastha Garg, Abhishek Rajput won 3rd prize (include cash prize and certificates of appreciation) This project won 3 prizes till now

1. Spark 2019(Department Level): 3rd Prize
2. Techfest 2019 (College Level) 3rd Prize
3. CrossRoads 2019 (Inter-College Level): 3rd Prize





# SPARKS & TECHNOVATION



2019



1. Department of Information Technology and Department of Computer Science & Engineering, jointly organised SPARK-2019 on 28th September 2019. Total 26 innovative projects from IT department took part in this event.

Winners were:

- 1st Prize: Project Name: VGA Controlled System  
Student Name: Pratyaksh Dhiman, Sanskar Srivastava, Ritika Rajput (B.Tech-IT, 3rd Year), Daksh Singhal (B.Tech-IT, 2nd year)

Guide/Mentor Name: Veer Bhadra Pratap Singh

- 2nd Prize: Project Name: Accident Prevention & Road Safety Model

Student Name: Jatin Arora, Jeegisha Srivastava, Kajal Khanna, Preeti (B.Tech-IT, 3rd Year)

Guide/Mentor Name: Mr. Upendra Mishra

- 3rd Prize: Project Name: The Intelligent Companion

Student Name: Ayush Gupta, Aayushi, Aastha Garg, Abhishek Rajput (B.Tech-IT, 2nd year)

Guide/Mentor Name: Dr. Avdhesh Gupta

## 2. Annual Technical Fest of IMS Engineering College TECHNOVATION-2019

- Organised on 11th & 12th October 2019.
- Total demonstrated projects from all departments were 90.
- IT Department took part in this event with his 8 best projects.
- Among the winners, the project title The Intelligent Companion won 3rd Prize and the project titled VGA Controlled System won Consolation Prize.

# PLACEMENT UPDATES...

| NAME                 | ROLL NO.   | PLACED IN                     |
|----------------------|------------|-------------------------------|
| AAYUSH BANSAL        | 1614313002 | GingerWebs                    |
| ABHISHEK TYAGI       | 1614313004 | Nucleus Software              |
| ANSHUL SHISHODIA     | 1614313011 | Xceedance                     |
| ANUBHA GARG          | 1614313012 | NIIT                          |
| ARCHIT SAXENA        | 1614313014 | Cognizant                     |
| ASHUTOSH DIXIT       | 1614313019 | VVDN                          |
| GARIMA SRIVASTAVA    | 1614313026 | VVDN                          |
| HARSHITA VIJAY       | 1614313029 | Vinove Software               |
| HIMANSHU TEOTIA      | 1614313032 | VVDN                          |
| MUKUL BHARDWAJ       | 1614313045 | QA Infotech                   |
| RAGHURAJ VERMA       | 1614313062 | QA Infotech                   |
| RIYA GUPTA           | 1614313064 | Vinove Software               |
| RIYA YADAV           | 1614313065 | Vinove Software               |
| SACHIN GUPTA         | 1614313066 | QA Infotech                   |
| SHIVAM SHUKLA        | 1614313078 | TCS (Digital)                 |
| SHIVANGI SINGH       | 1614313079 | NIIT                          |
| SINGH VAIBHAV RAJESH | 1614313081 | QA Infotech                   |
| SYED MOHD MEHDI      | 1614313085 | Vinove Software               |
| TANVI ATTREYA        | 1614313087 | Vinove Software,<br>Xceedance |
| UDIT RANA            | 1614313088 | QA Infotech                   |





A photograph capturing a graduation ceremony at sunset. The sky is a gradient of orange, yellow, and purple. In the foreground, the silhouettes of graduates are visible, many with their arms raised in celebration. Several graduation caps are seen flying through the air, scattered across the upper half of the frame. The overall mood is one of triumph and accomplishment.

# **STUDENTS' OPINION**



# BE THE BEST VERSION OF YOURSELF



**"Be the best version of yourself" ...yeah! So, Firstly it depends on what version you are currently right now. Are you doing anything currently that you are not proud of? Are you forced or naively "abetted" to perform tasks just because it is easy or beneficial to you? And.. and .. do you see yourself trying to pursue things that could bring happiness in a non-materialistic manner? Do you or least of all are you willing to, have the determination and the "No" power to change your course during the cross paths of your life. If yes, then you have just answered your question. Still not getting it ?? You are already on the path of the "better version". All you need to do is give a shit about that.**

**Because , everyone have their unique talent or something special and we have to search it and work on it boldly.**

**That's not the end, as many people think so. We could be limited, but our potential is not. Resources are present everywhere, just throw some light out and you would automatically have the way. Coming back, again look upon yourself. Have you achieved something that you wanted to before applying the tools of becoming the "better version" ? If yes, there is still much to do. Repeat the process. Set Higher goals. By higher, I don't mean climbing the Mt. Everest... Just being ironic... Or am I? Its similar to machine learning, keep on searching, learning, training but don't over fit. That's it.**

**Megha Batra IT (4th Year)**



# BEING A GOOD PROGRAMMER ISN'T JUST ABOUT WRITING CODE



**What makes up the ideal programmer, in your mind?**

Er, maybe? Well, all those dream programmers sound pretty good. But would you believe me when I say that having mad coding skills isn't everything? And that good programming only makes up half of a good programmer?

Now obviously you can't be a good coder if you don't know how to code. But I feel like sometimes other, non-computer aspects of being a programmer are a bit overlooked. There's a lot about being a professional developer that has absolutely nothing to do with coding, and everything to do with being a professional. True professionals are the ones who get the job done on time, who know how to be a team player (not just the hero that swoops in and saves the day), and who ultimately are on What are the marks of being a good developer, then? Here are a few that I've gathered- I'm sure there are many more:-

- ☐ Write clean code.
- ☐ Stay current with trends.
- ☐ Be open to new things and learn them quickly.
- ☐ Focus and work efficiently.
- ☐ Accurately estimate the time needed to complete tasks.
- ☐ Be able to explain techy concepts to non-techy people.
- ☐ Don't bring your ego to work.
- ☐ Don't hide your mistakes.
- ☐ Be able to ask for help from others, and give help to others.

**Shubham Gupta IT-02 ( 3rd Year )**



# **LIFE LESSONS**



**Life is a continuous learning experience. Throughout our lives keep rising and falling, picking up important lessons along the way. Some of these lessons come from the \*experience\*, Yet there are others that we learn watching others on reading in books. Furthermore there are many life lessons that we cannot face until we face certain situations in our life.**

**There are some of the most important life lessons :**

- 1.) Be flexible with your goals.**
- 2.) Money will never solve your real problems.**
- 3.) You can't please everyone.**
- 4.) You don't always get what you want.**
- 5.) There's no shame in not knowing.**
- 6.) Perspective is a beautiful thing.**
- 7.) Don't take anything for granted.**

**Saumya Khare  
IT-02 ( 2nd Year)**



# UPCOMING EVENTS

## 1. 54th Inter IIT Sports Meet

**Category:** Sports Festival

**Start Date:** 14th Dec 2019

**End Date:** 22nd Dec 2019

**Organiser:** IIT Kheradpir

**City:** Kheradpir

**State:** West Bengal

### DESCRIPTION:

It is the annual face-off between the 23 IITs in the sports arena, with 13 sports spread over 9 days. With 53 years of legacy, it is an intense fight to top as the best minds of the country prove their mettle in sports. It is the longest-running Inter-collegiate meet where all IITs participate having been held since 1961.

## 2. Short Course on Geotechnical aspects of Earthquake Engineering 2019

**Category:** Training

**Start Date:** 26th Dec 2019

**End Date:** 28th Dec 2019

**Organiser:** IIT Indore

**City:** Indore

**State:** Madhya Pradesh

### DESCRIPTION:

The course is designed to have a broader review on the various aspects of Geotechnical Engineering interlinked with Earthquake Engineering. Each of these lectures during this short course addresses specific issues from the beginning to end (from engineering seismology to Earthquake resistant design).

## 3. 6 Days Machine Learning Bootcamp

**Category:** Training

**Start Date:** 28th Dec 2019

**End Date:** 28th Dec 2019

**Organiser:** Skyfi Labs

**Place:** New Rajinder Nagar

**State:** Delhi

### DESCRIPTION:

In Machine Learning bootcamp, you can build any 3 projects of your choice from the below list in 6 days – at a flat fee of Rs. 3990! You will build these under the guidance of awesome trainers who will ensure you learn a lot in these 6 days and have great fun in learning by building projects!

#### **4. 3rd International Conference on Modern Mathematical Methods and High Performance Computing in Science and Technology**

**Category:** Conference      **Organiser:** Inderprastha Engg. Coll.  
**Start Date:** 9th January 2019      **City:** Ghaziabad  
**End Date:** 11<sup>th</sup> January 2019      **State:** Uttar Pradesh

##### **DESCRIPTION:**

3rd International Conference on Modern Mathematical Methods and High-Performance Computing in Science & Technology (M3HPCST-2020) is a premier international conference on topics at the confluence of high performance and large scale computing systems, their use in modelling and simulation, their design, performance and use, and their impact, and related issues.

#### **5. Winter Training Program on Drone with Autopilot System**

**Category:** Training      **Organiser:** Skyfi Labs  
**Start Date:** 23rd Dec 2019      **Place:** New Rajinder Nagar  
**End Date:** 28th Dec 2019      **State:** Delhi

##### **DESCRIPTION:**

This workshop introduces you to the technologies involved in Unmanned Aerial Vehicles and the techniques involved in making a working autonomous drone. You will practically understand the basics of Quadcopter design, electronics involved, sensors, navigation, communication systems and autopilot system.

#### **6. ACCESS TO AFFORDABLE CLEAN ENERGY TO HUMANITY**

**Category:** Workshops      **Organiser:** Skyfi Labs  
**Start Date:** 23rd Dec 2019      **Place:** Kattankulathur  
**End Date:** 28th Dec 2019      **State:** Chennai

##### **DESCRIPTION:**

This workshop facilitates opportunities for undergraduate, postgraduate scholars, research scholars, and faculties, industrial employees to share and enhance their knowledge on their respective field of interest.







# QUESTIONS

1. If A, B, C, D are numbers in increasing order and D, B, E are numbers in decreasing order, then which one of the following sequences need neither be in decreasing nor in an increasing order?  
A) E, C, D  
B) E, B, C  
C) D, B, A  
D) A, E, C
2. The average age of a man and his son is 40 years. The ratio of their ages is 11:5 respectively. What is the son's age?  
A) 23 years  
B) 25 years  
C) 27 years  
D) 28 years
3. Of the three numbers, second is twice the first and also thrice the third. If the average of three numbers is 44, what is the largest number?  
A) 76  
B) 73  
C) 72  
D) 86
4. Ten years ago, a man was seven times as old as his son. Two years hence, twice his age will be equal to five times the age of his son. What is the present age of son?  
A) 12 years  
B) 14 years  
C) 13 years  
D) 15 years
5. A man travelled from the village to the post-office at the rate of 25 kmph and walked back at the rate of 4 kmph. If the whole journey took 5 hours 48 minutes, find the distance of the post-office from the village?  
A) 18 km  
B) 20 km  
C) 21 km  
D) 23 km
6. Two trains 240 metres and 270 metres in length are running towards each other on parallel lines, one at the rate of 60 kmph and another at 48 kmph. How much time will they take to cross each other?  
A) 18 sec  
B) 16 sec  
C) 17 sec  
D) 20 sec
7. A watch becomes fast by 5 minutes everyday. By what percent does it becomes fast?  
A)  $\frac{5}{24}\%$   
B)  $\frac{1}{12}\%$   
C) 5%  
D)  $\frac{50}{144}\%$
8. In how many different ways can the letters of the word RIDDLED be arranged?  
A) 840  
B) 1680  
C) 2520  
D) 5040



9. A database entity is also known as?

- A) A report
- B) A row
- C) A field
- D) A table

10. A DBMS system is made up of?

- A) Queries, forms, reports
- B) Tables, entities, fields
- C) Rows, columns, criteria
- D) Data and commands

11. Which one is the first search engine in internet?

- A) Google
- B) Archie
- C) Altavista
- D) WAIS

12. First computer virus is known as known as

- A) Rabbit
- B) Creeper virus
- C) Elk cloner
- D) SCA virus

13. Which one programming language used for artificial intelligence?

- A) C
- B) Java
- C) J2EE
- D) Prolog

14. All DBMS system use SQL as a command language?

- A) True
- B) False

15. gif is an extension of ?

- A) Image file
- B) Video file
- C) Audio file
- D) Word file

16. Which of the following is not an operating system ?

- A) DOS
- B) Mac
- C) C
- D) Linux

17. A dual layer Blue-ray Disc can store data upto

- A) 20 GB
- B) 35 GB
- C) 12 GB
- D) 50 GB

18. Firewall in computer is used for

- A) Security
- B) Data transmission
- C) Authentication
- D) Monitoring

19. You heard me before and then again. Afterward I die until you call me again. What am I ?

20. If the number 3422213pq is divisible by 99, find the missing digits 'p' and 'q'.

# ANSWERS

- 
- 1(D)
  - 2(B)
  - 3(C)
  - 4(B)
  - 5(B)
  - 6(C)
  - 7(D)
  - 8(A)
  - 9(D)
  - 10(A)
  - 11(B)
  - 12(B)
  - 13(D)
  - 14(B)
  - 15(A)
  - 16(C)
  - 17(D)
  - 18(A)
  - 19 ECHO
  - 20.  $p=1$ ,  $q=9$





**THANK  
YOU !!**

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