

THE OBSERVER

PERCEPTION TO PERSPECTIVE



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Indian Democracy

The Indian constitution sets up a Democratic Republic. It means government by the people. Democracy may properly be defined as that form of Government in the administration of which the mass of adult population has some direct or indirect share.

"Democracy is a political method or an institutional arrangement for arriving at political, legislative and administrative decisions by vesting in certain individuals the power to decide on all matters as a consequence of their successful pursuit of the people's vote."

- **Joseph A. Schumpeter**

Elections in India

Elections in the Republic of India include elections for the Parliament, Rajya Sabha, Lok Sabha, the Legislative Assemblies, and numerous other Councils and local bodies.

According to the Constitution of India, elections for the Parliament and the State Legislative Assemblies should take place every five years, unless a state of emergency has been declared. The elections for the lower houses (in Parliament and in the states) use the first-past-the-post electoral system (i.e. the candidate with the majority of the votes wins the election).

Elections for one-third of the seats of the upper house of the Parliament, the Rajya Sabha, are conducted every two years. The members of the upper house are elected indirectly by the state legislative assemblies based on proportional representation. Members of the state legislative councils (in states that have an upper house) are elected indirectly through local bodies.

Electoral College

The President is indirectly elected by means of an electoral college consisting of the elected members of the Parliament of India and the Legislative assemblies of the States and the Union Territories of Delhi and Pondicherry.

Whereas the Vice President is elected by a different electoral college, consisting of members (elected as well as nominated) of the Lok Sabha and Rajya Sabha.

Working of State and Union Government

In India we have parliamentary form of government both at centre and state level. There is a division of power between the two i.e. none is subordinate to other. We follow concept of cooperative federalism. We have concept of federalism

with unitary bias.

The few difference between the two:

- Central government legislate on union list subject where as state government legislate on state list subject. On concurrent list subject both can legislate but in case of conflict it is the centre government law which is going to prevail.
- In centre we have president as executive head of state whereas in state we have Governor as a executive head.
- In centre we have Attorney General whereas in state we have Advocate General.
- Enforcement of centre laws extend to whole or part of India whereas as state laws are confined to that state's territory only.
- In centre we have two houses (Lok Sabah and Rajya Sabah) whereas in state we have legislative assembly and legislative council (council may or may not be present in state).
- For Contesting election of MP, a candidate need not to belong to that constituency or that state, he can belong to any part of country where as to contest election of MLA, a candidate need to belong to that state only.

Recent Elections

Elections to the 5 Legislative Assemblies of Madhya Pradesh, Chattisgarh, Telangana, Rajasthan, Mizoram were held in the month of November and December 2018 to elect members of the constituencies in these states.

It was believed that the election were a direct political battle between the BJP and the INC in Madhya Pradesh, Rajasthan and Chattisgarh. The election led to a clear-cut majority for INC in Chattisgarh while a hung assembly with the INC emerging as the single largest party in the other 2 states.

In Telangana, TRS emerged as the single largest party in the state against four opposition parties i.e. the INC, the TJS, the TDP and the CPI.

In Mizoram, Mizo National Front emerged as the single largest party by winning 26 seats out of 40. This was the first time that Congress does not have government in any of the states in Northeast India.

-**Shubham Sirothiya**

Convocation 2018

As the journey of 4 years come to end, students eagerly wait for the sweet fruit worth their labour, hard work and dedication throughout their Engineering life and thus putting up so many efforts just to be at "their very own CONVOCATION". And so was the case with the pass out students of Jaypee University of Engineering and Technology, as they trudged back to their Alma Mater.

CONVOCATION 2018 was indeed a greatly hyped event not just for the college but especially for our alumni of JUET of the batches 2016, 2017 and 2018. Recounting his old days Abhinav Pandey said "This college gave me rollercoaster of fabulous experiences and I really miss them while



working in the cooperate world". Amidst reminiscence "CONVOCATION 2018" kick-started with a cultural night on 1st Nov. 18. The mesmerizing classical sangeet performance by renowned classical singer Ms. Smita Damli Mokashi captured the hearts of the audience while group dance performance by girls of the first and second year left the audience wanting for more and cherry on the cake was a solo performance by Kaushal Tomar paying tribute to all mothers. The main event of course of any Convocation is that of degree distribution; this took place on 2nd Nov' 18 in the presence of

an entourage of dignitaries and honourable Vice Chancellor of Jaypee Institute of Information and Technolo-



gy, Noida, Prof. S.C. Saxena as our chief guest for the much-awaited event. Dr. Kamini Bhasin was the master of ceremony for the event. The Head of Departments of the various branches came up and announced the names of students as they bundled up for degree distribution; among the alumni of batches of 2016, 2017 and 2018 of the B. Tech, M. Tech and Ph. D programme. The degrees were conveyed by Prof. S.C. Saxena and Prof. J.S.P. Rai. It was indeed a heart touching moment to see the overwhelmed faces holding their degrees and posing happily as they celebrated their success after rigorous hard work and a considerable amount of toil which they had put in. Last but not the least, a special message from Shri Jaiprakash Gaur Ji was conveyed by Prof. S.C. Saxena to JUET family followed by the Vote of thanks by honourable Vice Chancellor Prof. J.S.P. Rai. The ceremony then concluded with the singing of the National Anthem.

Meanwhile, as #convocation2k18 trended on social media students were seen in every corner of the campus! Revisiting their bunking spots, game spots and their secret hideouts where they used to sit and pass time. Graduation is a really exciting time. It's both an ending and a beginning! It brings back both warm memories of the past and the big dreams that students had dreamt for their future. Thus CONVOCATION passed as a major highlight for the academic year of 2018.



-Dumpy Sharma

D'EQUINOX 2K19

With those words on our minds, we felt a surge as soon as we took our oaths that each of us shall participate in each event to the best of our abilities and not indulge in

any way in anything unfair. During the opening ceremony, we experienced a thrill down our backs as the event was declared open. When restrictions

are to the minima, and the excitement, happiness, and fun are to their maximum, it is at the peak of the extravaganza.

We started with the opening ceremony at 3 PM and at 3:30 PM

“D'Equinox 2k19” was declared open.

With the declaration, we witnessed new energy in everyone as they rushed towards the venues of the opening events. As soon as the jukebox started the entire campus lit up all of a sudden. Meanwhile 'Alfaaz' had started in the nearby lecture theatre where we had a wonderful experience listening to a large number of well-worded poems and shairiya. Meanwhile the crowds enjoyed participating in Kalakriti and making beautiful rangolis. All this was followed by the battle of the bands 'Raga' where we had a great evening with music.

The second day started with music and was accompanied by other events as well. Connected drew a lot of crowds, as many pairs came up to check the strength of their bonds leading to a fun-filled event. It was followed by the Treasure Hunt and the Air Band. During the afternoon we had the Photo Hunt followed by a few more fun events like Air Band, Shoot the Moon and Tug-o-War. The evening was extremely thrilling as the entire college congregated together in the Auditorium for the Cultural Night where we had the titles of Mr. and Ms. D'Equinox given alongside the titles for Mr. and Ms. Verve, Survivor, along with the best drama, dance and

singing performance. As the Cultural Night concluded everyone rushed to listen to the Band Performance by the 'Xubaan Band' which was followed by a spectacular

EDM Show by 'Paranox' supported by 'Xenial Secret'.

Now came the final day, the campus was lit during the day with the JYC personnel work-

ing round the clock to complete the Star Night preparations and alongside their respective events. The final day witnessed events like the English Tambola, Locked



Up, Switched Emotions and the special On the Menu which is the cookery contest along with the usual Juke Box. The evening was especially special as the crowds waited with close anticipation to see the performance of 'Jass Manak'. The crowds were at their loudest ever as they gathered in the Football ground, wearing the fest T-Shirts and waving their Cell Phones with their LEDs jumping, shouting and what not. It was indeed a fun-filled night with a lot of music, shouting and fun and frolic. Thus concluded “ D'Equinox 2k19 ” as the JYC Faculty Advisor handed over a bouquet of flowers and conveyed the vote of thanks to all the invited stars.

-Ishaak Mall

NOBEL PRIZE 2018

Every year, the Nobel Prizes are given to people and institutions around the world. These prizes are for the study of science and for world peace. The science prizes include Literature, Science and Medicine. The Nobel Prize was started by Alfred Nobel. His 1895 testament gave money for the Prizes. The Nobel Foundation now controls the money. The Foundation asks different committees or academies to decide who receives the prizes. For many people, a Nobel Prize is a great honor. People who receive a Nobel Prize are called "Nobel laureates". Each prize winner gets a medal, a diploma and a sum of money. In 1901, the winners of the first Nobel Prizes were given \$16,639. This is the same as \$853,154 in December 2007. In 2008, the winners were awarded a prize of \$1,103,549. The awards are presented in Stockholm, Sweden, in a ceremony on December 10. This day is the anniversary of Nobel's death.

Presently, as of 2018, 12 new laureates have been awarded for achievements that have conferred the greatest benefit to humankind. The Nobel Prize in Physics 2018 was awarded "for groundbreaking inventions in the field of Laser Physics" with one half to **Arthur Ashkin** "for the optical tweezers and their application to biological systems" and the other half jointly to **Gérard Mourou** and **Donna Strickland** "for their method of generating high-intensity, ultra-short optical pulses".

Their inventions have revolutionized laser physics. Extremely small objects and incredibly rapid processes are now being seen in a new light.

The Nobel Prize in Chemistry 2018 was awarded with one half to **Frances H. Arnold** "for the directed evolution of enzymes" and the other half jointly to **George P. Smith** and **Sir Gregory P. Winter** "for the phage display of peptides and antibodies." Enzymes produced through directed evolution are used to manufacture everything from biofuels to pharmaceuticals. Antibodies evolved using a method called phage display can combat autoimmune diseases and in some cases cure metastatic cancer.

The Nobel Prize in Physiology or Medicine 2018 was awarded to **James P. Allison** and **Tasuku Honjo** "for their discovery of cancer therapy by inhibition of negative immune regulation." The Laureates has shown how different strategies for inhibiting the brakes on the immune system can be used in the treatment of cancer. Their discoveries are a landmark in our fight against cancer.

The Nobel Peace Prize 2018 was awarded to **Denis Mukwege** and **Nadia Murad**. Both laureates have made a crucial contribution to focusing attention on and combating, war crimes. **Denis Mukwege** is the helper who has devoted his life to defending these victims. **Nadia Murad** is the witness who tells of the abuses perpetrated against herself and others. Each of them in their own way has helped to give greater visibility to war-time sexual violence so that the perpetrators can be held accountable for their actions.

The Prize in Economic Sciences 2018 has been awarded to **William D. Nordhaus** "for integrating climate change into long-run macroeconomic analysis" and **Paul M. Romer** "for integrating technological innovations into the long-run macroeconomic analysis." Their findings have significantly broadened the scope of economic analysis by constructing models that explain how the market economy interacts with nature and knowledge. This year's Laureates have designed methods for addressing some of our time's most basic and pressing questions about how we create long-term sustained and sustainable economic growth. But unfortunately, The Nobel Prize for Literature 2018 has been postponed.



Tech Societies

There are many different technical societies in JUET which have taken the responsibility of inculcating the real world practical application knowledge in the students. Many of these have become a pillar of knowledge in our campus and some new societies have been formed as well. Certainly, a college with only just a monotonous class schedule and no other extra activity in the technical aspect, can't be considered as a place where one can become industry-ready. These days, any college is as good as the societies in it and the passionate students who manage them.

• **Computer Science societies:**

1. **Mozilla:** it is a society which is open source. In which you can add things if you want and they are free of cost. In this society, we mainly work on the networking portion. It also took a workshop of networking. Mozilla Campus Club is a part of the Mozilla organization effort to advance the open source community. The club aims at developing open source projects and teach students about the open source world and its tools and software.
2. **CSI:** it is a society which is mainly focused on competitive programming. There have also some categories in it. For this, it takes many workshops for developing skill and feeling of completion. In his first workshop, they taught c language. This session is for three days. This society also doing Kodeathon in our college level. **BOTNET:** A new edition to CSI related to ethical hacking.
3. **Bitwise:** it is a society which does competitions in the college related to programming like the treasure hunt. It's also doing workshop of networking. It's a one day workshop. The main motto of this society is to produce coding culture in our college.

• **Electrical societies**

1. **ISF:** IETE student forum. It is a society which belief on practice things. In which they taught mainly about IOT (internet of things) and robotics .they also took the workshop of 5 days in which they taught about Arduino. Coding in Arduino and practical implementation was also done. They have done a lot of things like home automation and watering to flowers

• **Civil society**

1. Civil Engineering Forum (CEF)

• **Mechanical societies**

1. **SAE:** Society of Automotive Engineers. This is an international society. This society according to its name not only deal with the mechanical engineering but its deal with the department that is as follows:

Mechanical or Machine
Robotics
Aerospace

In this campus this society was formed last year in August. So this is the society which is one of the versatile technical society of the campus. As it offers the students of all departments to get involved in it and help them to get develop in at most all the sector of engineering. It not only help in this but also helps to get the material (as a research paper) in much less price, invest when you get to indulge in different events and different other projects. So it is said it teaches and helps us in all the sector.

2. **MES:** Mechanical Engineering Society. This society believes in practical knowledge. It bridges the theoretical knowledge with practical. In its event,s it teaches the concepts of how things are made, by what is made, and the principal behind it. It also teaches a person about all the different fields, thermodynamics, mechanics, mechatronics, and many more.

HALLOWEEN 2K18

Think of Halloween, and your mind conjures images of ghosts, vampires, witches, and monsters. Our modern versions of them have largely been crafted by popular literature and, more influentially, the movies. But like many fantastic characters of myth and lore, they have a basis in reality. Sometimes the true stories of these creatures that haunt our imaginations are just as weird and amazing as their fictional incarnations. It was Saturday night, October 27, when we observed a night full of costumes, dance, fun and candy. We witnessed spine-chilling, and blood-curdling night. The night was full of costumes like those witches and wearing joker to batman kind of make-up, were the star of the bloomed with the scariest and the petrifying pumpkin like structures, and scarecrows old, dark Halloween night. The students dressed as masterpieces playing divination games, playing pranks, visiting haunted attractions made this eve worth it. That night was genuinely a playful one that up our imagination like no other holiday with ghosts and witches which were just enough to bring chills up and down the spine. The infinity was embedded with hanging vibrant lights graced with ghostly kind cuttings and accessories and most importantly the backdrop prepared by JYC Media Wing as in charge; it was fascinating enough especially to the newly entered first year. The wing was successful in organizing the event in the best possible way. This Eve, is a celebration observed in a number of countries on 31st October, the eve immense



and limitless hard work too of the Western Christian feast of All Hallows' day. It begins the third-day observance of All-hallow-tide, the time in the liturgical year dancing to the echoes and charms of music. Trick or treat the lines over every mouth this eve. Students found it immensely deep fascinating dedicated to remembering the dead, including saints, martyrs, and all the faithful departed Halloween activities including clicking pictures in front of backdrop or to dancing There were a lot of booze seen in our very own painters, illustrating deep ghostly and phantom-like art on the face of those curious mongers, trying to scare the hell out of people. The photograph booth along the scary backdrop, which really got spellbinding for capturing enthralling memories of those eager binders, wearing peculiar demons and off-center angels' kind of accessories. After hectic exam schedule and classes, this event turned out to be stress buster to everyone out there. Each one of us got enriched with the thrilling night that made everyone happy and kept everyone amused and enthralled. The Mr. Halloween title was awarded to Mr. Prajjawal Shrivastava and Miss. Halloween title was gasped by Miss. Sanhita Ghosh. The remarkable night is worth remembering, with enchanting chores and, wanted to continue to go with the flow even when the party got over.

-Aastha Singh & Radhika Shukla

Aadhaar card: My identity, my right!

On 28th June 2009, a 12-digit unique identification number that could be obtained by residents of India, based on their biometric and demographic data was launched, presently known as 'aadhaar card'. It is a card consisting of a unique 12



digit number, generated after scanning a person biometrically i.e. fingerprints and retina scan. It also includes the address of the holder overleaf and a QR code which

can be scanned digitally. The card is attained only after successful application and then approval from the authority (UIDAI). The data is collected by the Unique Identification Authority of India (UIDAI), a statutory authority established on 28th January 2009 by the government of India, under the jurisdiction of the Ministry of Electronics and Information Technology, following the provisions of the Aadhaar (Targeted Delivery of Financial and other Subsidies, benefits and services) Act, 2016.

Importance of Aadhaar card

Aadhaar program was launched with the main objective to provide a universal identity to every Indian resident. It is believed that the card will further be given more importance as more and more government schemes are being launched requiring it as a mandatory document.

The benefits of an Aadhaar card as listed by the government of India are:-

- Aadhaar based Direct Benefit Transfer: -The 12 digit individual identification number on Aadhaar card is used to get LPG subsidy amount directly in the bank account.
- Jan Dhan Yojana: -The Guinness world record holder scheme Pradhan Mantri Jan Dhan Yojana (PMJDY) accepts Aadhaar card/number as the only document sufficient to open the bank account.
- Passport in 10 days: -If you have an Aadhaar card, you can get a passport in just 10 days. Under this format, police verification will be done at a later date as opposed to the previous rule requiring police verification which used to be time-consuming. Also under the new government's rule, if you need a passport, Aadhaar number is compulsory.
- Digital Locker: - Government of India has launched a digital locker (Digi Locker) system for everyone for storing all personal documents on the government's server. And the sign-up process for Digi Locker requires a person to link his/her 12 digit Aadhaar card number.
- Mobile number: - All existing mobile subscribers (prepaid and postpaid) are required to link Aadhaar to their mobile number. All new connections will require Aadhaar linking.
- Driving license:- To make Aadhaar, a digital identity, very soon driving license is planned to be linked to Aadhaar number. The objective of doing this is to check the prevalence of multiple

-Atishay Jain

Coding Culture

“A GOOD PROGRAMMER IS SOMEONE WHO ALWAYS LOOKS BOTH WAYS BEFORE CROSSING A ONE WAY STREET.”

Coding isn't something that is exclusively meant for Computer Science Students or software engineers. coding, in general, is aimed at simplifying tasks by expressing them in front of a set of routines or commands and is the process of making the computer perform them for us.

Culture is how we talk, work, organize, win, and loose together. Developing a strong culture requires a shared understanding of what your team stands for and this cohesion will be reflected positively in the products that your team builds. Great culture contributes to great products. Keeping this in mind, a group of Computer Science enthusiasts has started an initiative called the Computer Society which aims at bringing in a very healthy, updated and conducive programming culture to the vast majority of students of JUET. This Society was taken forward by many such students who had raised to it to an entirely different level and we now know this society by different clubs like Bitwise, CSI, Mozilla etc. Students are encouraged to take up comprehensive courses that are hosted in the field of programming, development as well as Web designing individually. CSI club of JUET provides these opportunities to all students who wanted to pursue web designing, app development as their career and helps in developing their skills.

Competitive programming Vs Normal programming is like Master Vs Slave. Competitive coding is most likely going to be your first point of contact or rather your initiation into the world of coding. Almost all the students who are interested in coding start with the world of Hackerrank, Codechef, HackerEarth, and SPOJ. **Competitive programming helps you learn how to effectively work together, as you must work with others on your team to complete the same task. You learn how to assess your team members' strength and weaknesses and effectively divide responsibilities between each other.** Many competitive programmers do get selected for Google, Microsoft through these competitive platforms. These platforms not only takes an individual to great heights but also indulges confidence and a spirit of fighting with others to achieve your goal.

Coding prepares students for the real world, not just because of coding skills, but because of the ability to learn through failure & persevere. It is the most important skill for future jobs. It's a skill that isn't just relevant for the next generation of computer programmers. As more businesses and industries incorporate digital technology into their operations, a basic understanding of computer programming, as a minimum requirement, is becoming more important.



Those looking for coding careers should concentrate on gaining an acute knowledge in SQL, databases and programming languages such as Java, JavaScript, XML, Python, C# and C++, along with becoming well informed about operating systems and platforms like Windows and dot NET, iOS, and Linux. It is important for people looking for a career in coding to stay up to date with continuous changes in technology and to identify any specific areas of expertise that seem particularly appealing.

Training and taking part in programming contests make you more a more disciplined, faster and focused coder. Creating a strong team and coding culture, you will always be poised to take advantage of opportunities and overcome obstacles that may come your way. Keeping this mind JUET technical clubs like Bitwise and CSI conducts coding competitions like Ko-deathon which aims to solve problems in stressful situations and do it up against a deadline or you will lose. Programming contests are really fun, and it helps a lot in the interviews. But solving well defined algorithmic problems quickly is not a super important a skill to have to be an effective software engineer. I think it's more useful to be able to understand large,

complicated systems. It's important to be able to solve complex, poorly defined problems in the span of months, rather than simple problems in the span of minutes Taking part in competitive programming teaches you how to be more focused on the task and not only complete it quickly, but accurately. These type of events strengthen relationships between people who work together and forge bonds with people and learn new things. This helps people feel more comfortable being honest and communicating with each other, while

also emphasizing that they sink or swim as a team, which helps avoid negatively or finger-pointing. These skills are highly beneficial for any job, not just in coding.

Everyone uses phone applications, website, computer programs, and even many kitchen appliances rely on coding to work. This is why coders have such a prominent position in the shaping of the modern age and the future.

DR. NILESH PATEL :

Coding is today's language of creativity. All our students deserve a chance to become creators, instead of consumers of computer science. It is a skill, best acquired by practice and examples rather than from books. So it's important to try new things and push yourself out of your comfort zone. The potential benefits are really huge and to be honest, there is nothing to lose, so you should start today and learn something new. JUET provides good opportunities for everyone to develop and strengthen their skills in the field of programming. So everyone should learn how to code, as it teaches you how to think.

-Kush Agarwal
Aman Verma



JUET PROGRAMMING HUB

Sophia

Sophia is a humanoid robot which was developed by Hanson Robotics, it is a Hong Kong company. The robot was activated on 14 February 2016. She during that launch has more than 50 facial expressions. Also, she became the first robot to get citizenship of a country (i.e. United Nation).

Sophia is the great robot which has many features. On November 21, 2017, Sophia

was named the United Nations Development Programme's first-ever Innovation Champion for Asia and the Pacific. As she has cameras within Sophia's eyes combined with computer algorithms allow her to see. She can follow faces, sustain eye contact, and recognize individuals. She is able to process speech and have conversations using a natural language subsystem. It's conceptually

similar to the computer program ELIZA (which was one of the first attempts at simulating a human conversation). She has also been interviewed as a human has been interviewed at many places, such as BBC News, Consumer Electronics Show and many other. In 2018 she also got the legs so now she can walk too. In a piece for CNBC, when the interviewer expressed concerns about robot behavior, Sophia joked she had been reading too much Elon Musk. And watching too many Hollywood movies. Musk tweeted that Sophia should watch The Godfather and asked "What's the worst that could happen?"

So she became the first and one of the finest robots to date. It is said that she is made for healthcare, educate, customer service and therapy. As she runs on artificially intelligent software that is constantly being trained in the lab, so her conversations are likely to get faster, Sophia's expressions are likely to have fewer errors, and she can answer increasingly complex questions with more accuracy.

-Saksham Sharma



Actions speak louder than words

Actions are more revealing of one's true character since it is easy to say things or make promises, but it takes effort to do things and follow through.

People say things and make promises they have no intention of keeping on a daily basis. You can tell someone you love him or her as many times as you want, but until your behavior coincides with that, the other person will probably not believe you.

Some feelings cannot be expressed in mere words; they require actions to speak for the.
To be precise " ACTIONS SPEAK LOUDER THAN WORDS "

But what if when you only have words.
Words which may have a indelible effect.
What if actions impound me and words provide me impunity.

I want you in my life not because to take care of me when I am disheartened due to reasons.

I want you to be beside me when I am running short of words to complete my poetry.

I'll make sure I love you when you write for me albeit it may contain many wrongs.

I promise i'll be there to rectify them.
In your jargon moments i'll be your words.
Just be the one I need daily not to show your love in actions but in words.

Yes actions may speak louder than words.
But to be prudent , actions can be deceptive but words never lie.

Actions can be manipulated ,
words come from within.
This world has lost its glory , lets start a brand new story.

You think that I don't even mean a single word I say.
But its only words and words are all I have to take your heart away.

-Manika Sharma

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