



Byte

An E-Magazine

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Literary
Current Affairs
QnA
Departmental Event
Latest
Technologies

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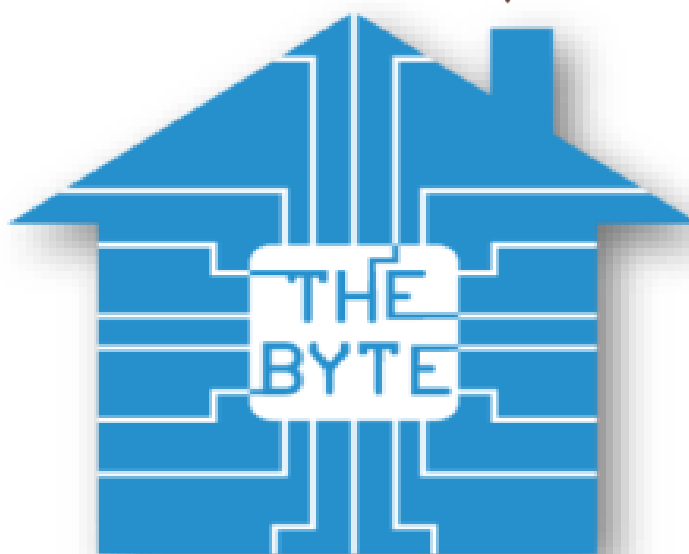


Prof. (Dr.) Sraban Mukherjee

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FEB, 2018



ARTICLES

BUDGET 2018-19



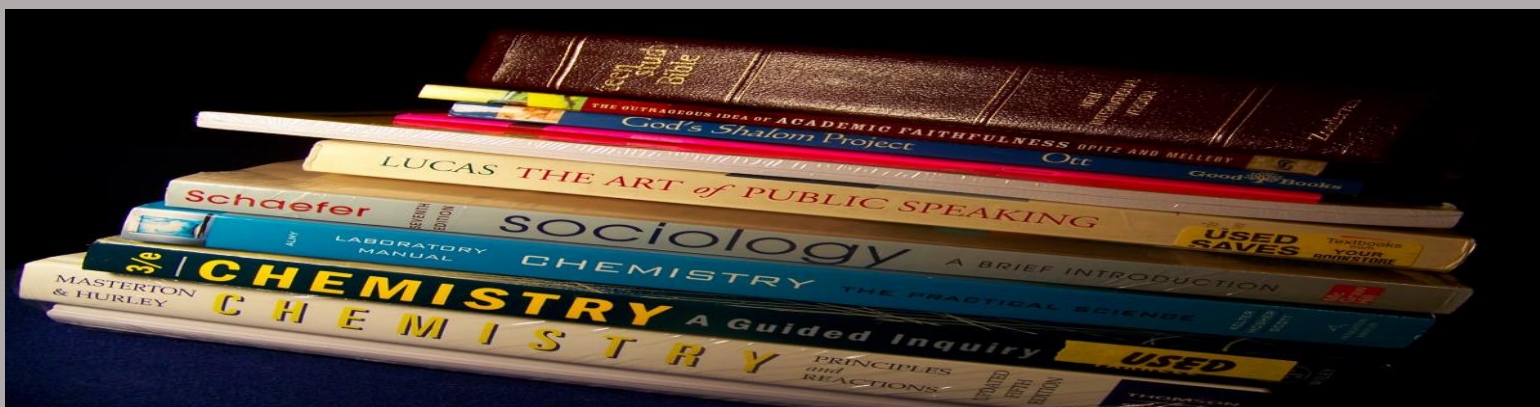
Finance Minister Shri Arun Jaitley presented general Budget 2018-19 in Parliament. Budget guided by mission to strengthen agriculture, rural development, health, education, employment, MSME and infrastructure sectors. Government says, a series of structural reforms will propel India among the fastest growing economies of the world. Country firmly on course to achieve over 8 % growth as manufacturing, services and exports back on good growth path. MSP for all unannounced kharif crops will be one and half times of their production cost like majority of rabi crops: Institutional Farm Credit raised to 11 lakh crore in 2018-19 from 8.5 lakh crore in 2014-15. 22,000 rural haats to be developed and upgraded into Gramin Agricultural Markets to protect the interests of 86% small and marginal farmers.

"Operation Greens" launched to address price fluctuations in potato, tomato and onion for benefit of farmers and consumers. Two New Funds of Rs.10,000 crore announced for Fisheries and Animal Husbandary sectors; Re-structured National Bamboo Mission gets Rs.1290 crore. Loans to Women Self Help Groups will increase to Rs.75,000 crore in 2019 from 42,500 crore last year. Higher targets for Ujjwala, Saubhagya and Swachh Mission to cater to lower and middle class in providing free LPG connections, electricity and toilets.

Outlay on health, education and social protection will be 1.38 lakh crore. Tribal students to get Ekalavya Residential School in each tribal block by 2022. Welfare fund for SCs gets a boost. World's largest Health Protection Scheme covering over 10 crore poor and vulnerable families launched with a family limit upto 5 lakh rupees for secondary and tertiary treatment. Fiscal Deficit pegged at 3.5 %, projected at 3.3 % for 2018-19. More concessions for International Financial Services Centre (IFSC), to promote trade in stock exchanges located in IFSC. To control cash economy, payments exceeding Rs. 10,000 in cash made by trusts and institutions to be disallowed and would be subject to tax.

Tax on Long Term Capital Gains exceeding Rs. 1 lakh at the rate of 10 percent, without allowing any indexation benefit. However, all gains up to 31st January, 2018 will be grandfathered. Proposal to introduce tax on distributed income by equity oriented mutual funds at the rate of 10 percent. Proposal to increase cess on personal income tax and corporation tax to 4 percent from present 3 percent. Proposal to roll out E-assessment across the country to almost eliminate person to person contact leading to greater efficiency and transparency in direct tax collection. Proposed changes in customs duty to promote creation of more jobs in the country and also to incentivise domestic value addition and Make in India in sectors such as food processing, electronics, auto components, footwear and furniture.

Ways in which college is different from school



An exit from your school life to the land of self dependency, like a fresher to all unexpected situation is like a surprise in everyone's life. An expansion to your skills and embedded talents brightens you up. College life beholds newer surprises day by day. Many expectations are following you, specially your parents, they expects us a lot from you. They believe in you, that you will be living a proper independent life after your studies gets over. Well, one must be ready to face all situations to overcome this stage of college life.

SELF DEPENDENCY: As we name college life as a land of 'SELF DEPENDENCY', it is really a place where you enter a world of professionalism. And in world of professionalism everyone is your competitor.... so you have to be independent in every situation, rectify each and every detail before you get it from too many transfer stations.

BE PRO ACTIVE: Being active is one of the crucial parts of your professional life. In professional institutes, you have to clarify all your matters by yourself at the moment; no one is doing to do it for you. You have to be active in all the activities taking place, all the fests, technovations, and competitions, debates, speech, declamations, etc and all the activities related to your profession.

STUDY MATERIALS: While you were in your school, your teacher used to provide all the study materials that must be required to score well in your examinations. But in college you will have to arrange all your study requirements by yourself, either by library or book banks or you buy it for yourself. They just provide you a reference or some faculty may show you a bit of concession by providing proper notes.

ATTENDANCE: Attendance is one of the major issues in college life; you have to maintain your attendance as per the percentage provided by your institution. Most of the institutions keep a criterion of maintaining 75% of attendance in your whole semester. They take attendance lecture wise, means every teacher take attendance in their own lecture.

BUNKS: Bunks are very common during college life. Students take a leave either from a particular lecture or on a specific day, when it is not necessary to attend a particular day class. It is advised not to bunk classes when you have a lecture issue or an attendance maintenance problem.

NO PARENT TEACHERS MEETINGS: well, in colleges there is no parent teacher meetings, unless required. You have to keep a better record of your academics and behaviour as well in order to avoid it.

RESPECT SENIORS: In the world of professionalism you are advised to respect your seniors. This is so because they are the one who will help you in your need and will teach you about their experience in that college or institution.

RAGGING: In many colleges ragging is prohibited, but in many ways it is necessary to enhance your capabilities and skills. So, try to embrace ragging, it is a part of your profession.

INTERACTION: You must better be interacting to every person in a polite way. Interaction between your seniors and juniors is very necessary to keep a balanced communicating skill throughout your college life.

HOSTELS: If you are a hosteller, you are more to be self dependent, your mom will not be with you to wake you up in the morning, wash clothes, take care of your stuffs, clean up your room etc all these are to be done by yourself from your schedule.

AH, WELL: This is going to determine rest of your life so work hard and take it seriously along with having fun of course. After all, your college years are said to be best years of your life.

Ill effects of not having breakfast

A good morning needs a healthy start, either by jogging , yoga, exercise, gym, playing an outdoor game, physical training etc. To make your day to be enthusiastic and energetic, you need a perfect diet plan throughout the day. One must take four meals a day, if you are going for less quantity then add a fifth meal. The most energetic and healthy start is your first meal called 'breakfast'. For a healthy lifestyle, breakfast is the most important intake in the morning. Breakfast is compounded of two words Break + fast, break means stop, and fast means duration when no food is eaten. Simply, breaking your fast.

Many of them have habit of skipping meals, especially morning breakfast, but you should know that not eating breakfast increases your risk of hypoglycaemia or low blood sugar. This condition can bring on physical symptoms such as headache, weakness, dizziness, tingling and rapid heart rate. The side effects of not having breakfast have negative impact on weight, hormonal health, memory, cognition and mood. Some of the problems of skipping breakfast are:

OBESITY: skipping breakfast may increase your risk of obesity or making difficult to lose weight. According to report, when you skip breakfast you are very likely to get overeat throughout rest of the day. Having breakfast boosts your metabolism and provides you energy throughout the day. Breakfast skippers also suffered more consistently from constipation.

IRREGULAR MENSTRUAL: Young girls are often either on diet or they do not get time to have proper meal in the morning. But it is necessary to know that skipping your morning breakfast can cause menstrual irregularities which may create different complications in future.

LOWERS CONCENTRATION LEVEL: when you skip your morning meal it really becomes difficult to concentrate on simpler tasks. It also affects your memory and coordination of your working mind. Regularly missing breakfast lowers your concentrating power and memory as well.

LOWERS METABOLISM: Once you start skipping breakfast regularly, it would surely affect your metabolic rate. Metabolism is an activity of your body to burn calories and maintain the normal functioning of digestive system as well. Lowering metabolic rate will result in acidity problems, facial acne, weight gain, cracking of skin, paleness, hair loss etc.

DECREASES ENERGY LEVELS: breakfast acts as a fuel to your body, when you do not provide food to your body it surely decreases energy to function properly. Decreasing energy levels will affect your whole day so avoid skipping breakfast, eating something is better than nothing.



Time Management Tips for College Students



All college students suffer distractions, whether from extracurricular activities, surfing the Internet, meeting new people or working a job. These are the ways that can help students to better manage their time.

Get Organized

When developing time management techniques in college, it's important that students first understand their goals and then set out to develop and follow a routine schedule. Without these factors, it may be hard for students to get motivated to employ their time management strategies. Students may download or purchase a scheduler; a weekly, monthly and yearly planner; and worksheets pertaining to the distribution and organization of one's tasks. This will help them avoid waiting until the last minute and having to cram.

Many universities recommend that students take the time to plan each college day. Making a daily list of tasks to accomplish can help students to concentrate on tasks one at a time. Individuals should be specific when setting goals. For example, a student might want to set the goal of reviewing his or her lecture notes each day after classes. It can also be helpful to schedule fixed blocks of time to study with clear start and stop times, as well as specified break periods. Students can start with more difficult subjects first and also work on assignments or tests that are due first.

Use Mental Exercises

Students should devise ways to build on their success, keeping their long-term goals in mind when pursuing better time management. Mental awareness can help with this. Individuals should try to be mindful of when they're falling into unproductive patterns and should identify specific triggers or distractions that lead to procrastination. Meditation and exercise might also help some people clear their heads and help them build confidence and focus when studying.

Seek Help

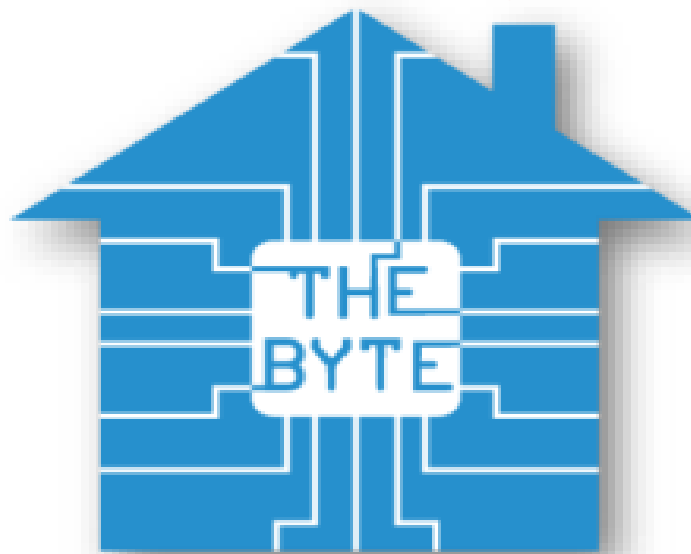
Students may look for advice from teachers, coaches, mentors or peers on better time management strategies. Individuals can also work with other classmates who are on top of their assignments and willing to provide reminders or encouragement.

Avoid Common Time Wasters

Common threats to good time management habits are external distractions. Students should seek to eliminate or at least lessen these common distractions. Some common time wasters include: Television, Social media and Internet use, Phone conversations, Running errands, Commuting, Extracurricular activities.

Time management is key to academic success and organizing and planning one's day and tasks using mental exercises, seeking help and avoiding time wasters are some helpful time management strategies for college students.





LATEST TECHNOLOGY

25 YEARS OF PREDICTIONS

BY: SHAGUN SAMANT (2nd yr)



OUR GREATEST HITS

Predicting the future isn't easy. Sometimes *PC World* has been right on the money. At other times, we've missed it by a mile. Here are three predictions we made that were eerily prescient--and three where we may have been a bit too optimistic.

1983 *What we said:* "The mouse will bask in the computer world limelight... Like the joystick before it, though, the mouse will fade someday into familiarity."

We hit that one out of the park. Mice are so commonplace that they're practically disposable.

1984 *What we said:* "Microsoft Windows should have a lasting effect on the entire personal computer industry."

"Lasting" was an understatement. Windows has now amassed for Microsoft total revenues in the tens of billions of dollars and is so ubiquitous and influential that it has been almost perpetually embroiled in one lawsuit or another, usually involving charges of monopoly or of trademark and patent infringements.

1988 *What we said:* "In the future you'll have this little box containing all your files and programs... It's very likely that eventually people will always carry their data with them."

For most people, that little box is now also their MP3 player or cell phone.

AND BIGGEST MISSES

1987 *What we said:* "When you walk into an office in 1998, the PC will sense your presence, switch itself on, and promptly deliver your overnight e-mail, sorted in order of importance."
2000 *What we said:* We wrote about future "computers that pay attention to you, sensing where you are, what you're doing, and even what your vital signs are... Products incorporating this kind of technology...could hit the market within a year".

When we arrive in our office, the computer ignores us, slowly delivers the overnight e-mail, and puts all the spam on top.

1994 *What we said:* "Within five years... batteries that last a year, like watch batteries today, will power [PDAs]."

Perhaps our biggest whiff of all time. Not only do these superbatteries not exist (nor are they even remotely in sight), but PDAs are pretty much dead too.

2000 *What we said:* We wrote about future "computers that pay attention to you, sensing where you are, what you're doing, and even what your vital signs are... Products incorporating this kind of technology...could hit the market within a year."

The HTTPS in your browser's address bar is important for staying safe on the web

That familiar abbreviation stands for Hypertext Transfer Protocol, and it's the system that helps bring all that sweet content from the web down in front of your eyeballs. It's the protocol that enables us to interact with the World Wide Web. Unfortunately, it can also provide an opportunity for bad people to inject all kinds of shenanigans into the browsing process, from secretly sending bad software to your machine to tricking you into looking at a site that's not what it claims, like imitating your bank's website, for example, and getting you to enter your username and password. So why do you see the "S" at the end of it sometimes? HTTPS is a secure version of the HTTP protocol. It has become the standard on the web, and now companies like Google are giving it a push for total internet saturation. Late last week, Google announced that its Chrome browser will label any site using HTTP as "not secure" in an effort to push consumers and site creators toward a safer internet experience.

What do HTTP and HTTPS actually do?

Hypertext Transfer Protocol is the way in which your web browser (like Chrome or Safari, which are both applications) sends a request for content to a web server. It's how an app like Chrome can request specific content for a web page like the one you're reading right now. HTTPS is a secure version of the protocol that encrypts data flowing to and from your web browser. "HTTP is data transfer on the web," says Emily Schechter, product manager for Chrome security team. "It's what's going back and forth over the lines."

How does a site get the HTTPS designation?

"Unfortunately, it's not trivial," says Schechter, "which is why it hasn't happened automatically. Google has a site with specific instructions about how to switch to HTTPS by obtaining a security certificate. If you're an individual or a business and you have a site through one of the big site providers like Squarespace or Wix, they will handle most of the process for you. Even old sites on those services can typically switch a simple setting in order to enable the secure version."

How is HTTPS more secure?

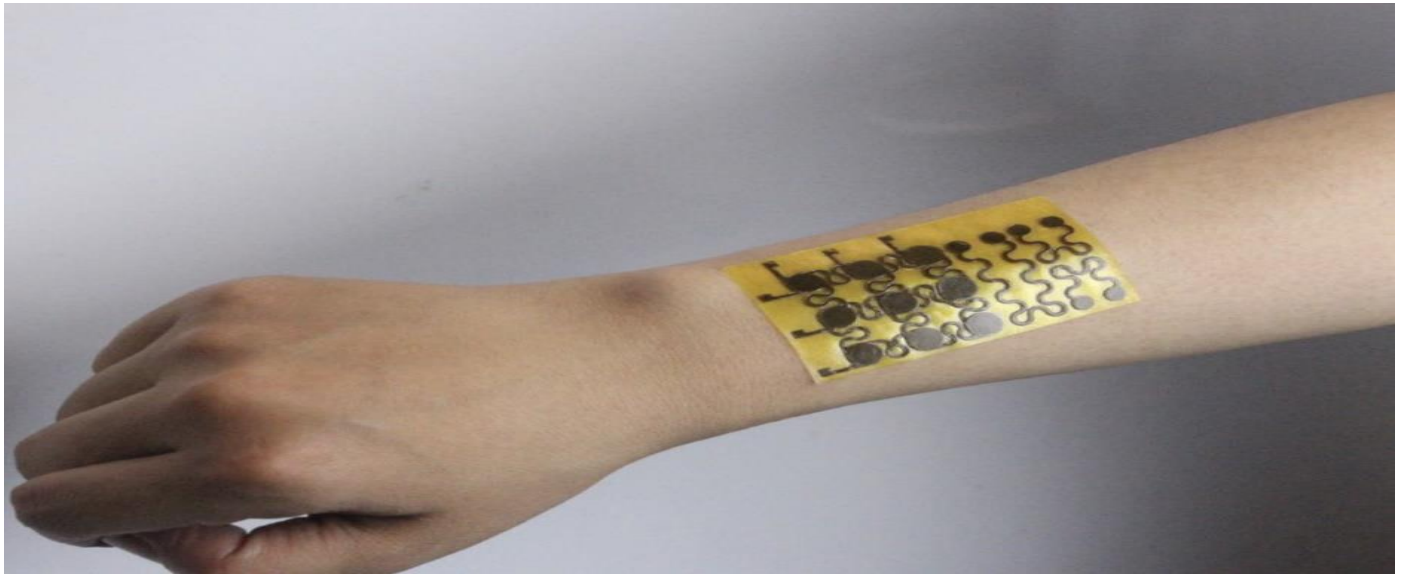
The primary benefit of HTTPS comes from encryption. Observers can't see the content of the information as it moves between the application and the web server. So, it's a basic layer of privacy between your data and the outside world. This also ensures that the information isn't modified or corrupted in transit without detection. So, if an internet service provider tries to sneak some malicious code in with the content you requested, the browser will notice. Finally, it stops what are typically called "man-in-the-middle" attacks, in which a third party sneaks in between the browser and the server and replaces the data with other, typically harmful data.

By encrypting the data transferred between your machine and the web server, HTTPS makes sure that the site you're viewing adds a basic layer of security.

Even if you're not sending sensitive data like personal info and passwords to a HTTP site, it's still possible for outside observers to look at aggregate browsing data of the users and "deanonymize" their identities by analyzing behavior patterns.



This Electronic Skin May Help Prevent Robots from Crushing Us



By: Pradeep

A metallic robot hand with "Terminator"-like power sounds good for the movies. But what about a real-life future where that android is now cradling your baby or just shaking your hand? That's when attributes like "gentle" and "sensitive" might be more warranted to avoid a human-crushing outcome.

Electronic skin may be the answer, as it could give such robots (and even prosthetic limbs) the ability to sense how forceful their handshakes and cradles are when interacting with humans.

A new electronic skin may also prove more robust than previous versions to prevent accidental damage. It could even heal with the aid of an alcohol-based solution.

Electronic skin, known as e-skin, is made of thin, flexible materials that are studded with pressure, temperature and other kinds of sensors to mimic the function and mechanical properties of human skin. A number of different types of e-skins are under development around the world. For instance, one reported in 2014 was heated to help make prosthetic limbs feel more like living ones. Another e-skin, reported in 2016, possessed electronic hairs to help the e-skin better feel its surroundings.

One weakness of the previous e-skins is that the chemical bonds used to make them were relatively weak. Although they were malleable like human skin, "they were not very robust," meaning they would flimsy, said study co-author Wei Zhang, a biochemist at the University of Colorado at Boulder.

The new e-skin is not only malleable, but also laced with silver particles only nanometers or billionths of a meter thick that boost its mechanical strength and chemical stability, and the resulting chemical bonds lead to stronger e-skin. "It's definitely more robust than people's skin," Zhang told Live Science.

Sensors embedded in the new e-skin measure pressure, temperature, humidity and air flow. "If you want a robot to touch a baby or patient, then how much force will the robot apply?" Zhang said. "That's why these sensors are important — to help the robot sense the right amount of force to apply, and to, say, sense if a baby has a fever."

The researchers noted that if the e-skin gets cut or torn, it will heal with the application of three commercially available compounds dissolved in alcohol. During this rehealing, new molecules grow across the broken surfaces, leading to chemical bonds joining pieces together, mimicking the natural skin rehealing process, the researchers wrote online Feb. 9 in the journal *Science Advances*.

Moreover, this new e-skin is completely recyclable when dissolved in a solution that can then be used to produce more e-skin.

We're told to fear robots. But why do we think they'll turn on us?

Despite the gory headlines, objective data show that people all over the world are, on average, living longer, contracting fewer diseases, eating more food, spending more time in school, getting access to more culture, and becoming less likely to be killed in a war, murder, or an accident. Yet despair springs eternal. When pessimists are forced to concede that life has been getting better and better for more and more people, they have a retort at the ready. We are cheerfully hurtling toward a Catastrophe, they say, like the man who fell off the roof and said, "So far so good" as he passed each floor. Or we are playing Russian roulette, and the deadly odds are bound to catch up to us. Or we will be blindsided by a black swan, a four-sigma event far along the tail of the statistical distribution of hazards, with low odds but calamitous harm.

For half a century, the four horsemen of the modern apocalypse have been overpopulation, resource shortages, pollution, and nuclear war. They have recently been joined by a cavalry of more-exotic knights: nanobots that will engulf us, robots that will enslave us, artificial intelligence that will turn us into raw materials, and Bulgarian teenagers who will brew a genocidal virus or take down the internet from their bedrooms.

The sentinels for the familiar horsemen tended to be romantics and Luddites. But those who warn of the higher-tech dangers are often scientists and technologists who have deployed their ingenuity to identify ever more ways in which the world will soon end. In 2003, astrophysicist Martin Rees published a book entitled *Our Final Hour*, in which he warned that "humankind is potentially the maker of its own demise," and laid out some dozen ways in which we have "endangered the future of the entire universe." For example, experiments in particle colliders could create a black hole that would annihilate Earth, or a "strangelet" of compressed quarks that would cause all matter in the cosmos to bind to it and disappear. Rees tapped a rich vein of Catastrophism. The book's Amazon page notes, "Customers who viewed this item also viewed *Global Catastrophic Risks*; *Our Final Invention: Artificial Intelligence and the End of the Human Era*; *The End: What Science and Religion Tell Us About the Apocalypse*; and *World War Z: An Oral History of the Zombie War*." Techno-philanthropists have bankrolled research institutes dedicated to discovering new existential threats and figuring out how to save the world from them, including the Future of Humanity Institute, the Future of Life Institute, the Center for the Study of

Existential Risk, and the Global Catastrophic Risk Institute.

How should we think about the - existential threats that lurk behind our incremental progress? No one can prophesy that a cataclysm will never happen, and this writing contains no such assurance. Climate change and nuclear war in particular are serious global challenges. Though they are unsolved, they are solvable, and road maps have been laid out for long-term decarbonization and denuclearization. These processes are well underway. The world has been emitting less carbon dioxide per dollar of gross domestic product, and the world's nuclear arsenal has been reduced by 85 percent. Of course, though to avert possible catastrophes, they must be pushed all the way to zero.

ON TOP OF THESE REAL CHALLENGES, though, are scenarios that are more dubious. Several technology commentators have speculated about a danger that we will be subjugated, intentionally or accidentally, by artificial intelligence (AI), a disaster sometimes called the Robopocalypse and commonly illustrated with stills from the Terminator movies. Several smart people take it seriously (if a bit hypocritically). Elon Musk, whose company makes artificially intelligent

self-driving cars, called the technology “more dangerous than nukes.” Stephen Hawking, speaking through his artificially intelligent synthesizer, warned that it could “spell the end of the human race.” But among the smart people who aren’t losing sleep are most experts in artificial intelligence and most experts in human intelligence.

The Robopocalypse is based on a muzzy conception of intelligence that owes more to the Great Chain of Being and a Nietzschean will to power than to a modern scientific understanding. In this conception, intelligence is an all-powerful, wish-granting potion that agents possess in different amounts.

Humans have more of it than animals, and an artificially intelligent computer or robot of the future (“an AI,” in the new count-noun usage) will have more of it than humans. Since we humans have used our moderate endowment to domesticate or exterminate less well-endowed animals (and since technologically advanced societies have enslaved or annihilated technologically primitive ones), it follows that a super-smart AI would do the same to us. Since an AI will think millions of times faster than we do, and use its super-intelligence to recursively improve its superintelligence (a scenario

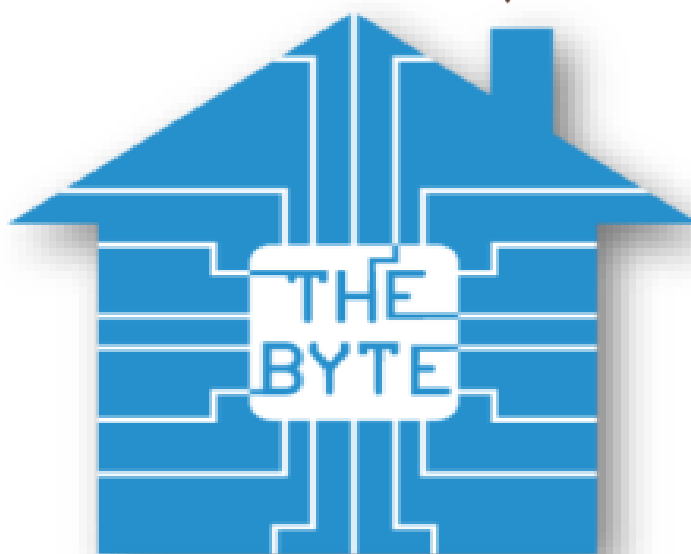
sometimes called “foom,” after the comic-book sound effect), from the instant it is turned on, we will be - powerless to stop it.

But the scenario makes about as much sense as the worry that since jet planes have surpassed the flying ability of eagles, someday they will swoop out of the sky and seize our cattle. The first fallacy is a confusion of intelligence with motivation—of beliefs with desires, inferences with goals, thinking with wanting. Even if we did invent superhumanly intelligent robots, why would they want to enslave their masters or take over the world? Intelligence is the ability to deploy novel means to attain a goal. But the goals are extraneous to the intelligence: Being smart is not the same as wanting something. It just so happens that the intelligence in one system, *Homo sapiens*, is a product of Darwinian natural selection, an inherently competitive process. In the brains of that species, reasoning comes bundled (to varying degrees in different specimens) with goals such as dominating rivals and amassing resources. But it’s a mistake to confuse a circuit in the limbic brain of a certain species of primate with the very nature of intelligence. An artificially intelligent system that was designed rather than evolved could just as easily think like shmooos, the blobby altruists in AI Capp’s

comic strip *Li'l Abner*, who deploy their considerable ingenuity to barbecue themselves for the benefit of human eaters. There is no law of complex systems that says intelligent agents must turn into ruthless conquistadors.

The second fallacy is to think of intelligence as a boundless continuum of potency, a miraculous elixir with the power to solve any problem, attain any goal. The fallacy leads to nonsensical questions like when an AI will “exceed human-level intelligence,” and to the image of an ultimate “Artificial General Intelligence” (AGI) with God-like omniscience and omnipotence. Intelligence is a contraption of gadgets: software modules that acquire, or are programmed with, knowledge of how to pursue various goals in various domains. People are equipped to find food, win friends and influence people, charm prospective mates, bring up children, move around in the world, and pursue other human obsessions and pastimes. Computers may be programmed to take on some of these problems (like recognizing faces), not to bother with others (like charming mates), and to take on still other problems that humans can’t solve (like simulating the climate or sorting millions of accounting records).

By:
Pradeep yadav
Cs-2
1514310142



LITERARY

GUESS

*On Tuesday
on the way to Tween Time
Alison is all bubbly with
guess-whos
and guess-whats.*

*“Guess who really stole
Mrs. Bagwell’s ring?”*

*“Guess what Mrs. Bagwell
is doing now?”*

*“Guess what you and I
are going to do this Friday?”*

Our Grandma Kissed a Pumpkin

*Our Grandmaa Kissed a Pumpkin
on a Friday afternoon.
She also kissed a crayon,
and a giant red balloon.
I saw her kiss a chipmunk
eating cookies with a queen.
She kissed us in these costumes
at our house on Halloween!*

By: Reedam Choudhary (CS-2)

BIG DREAMS

*The scruffy house cat
aches to fly—
she dreams all day of
wings and sky!*

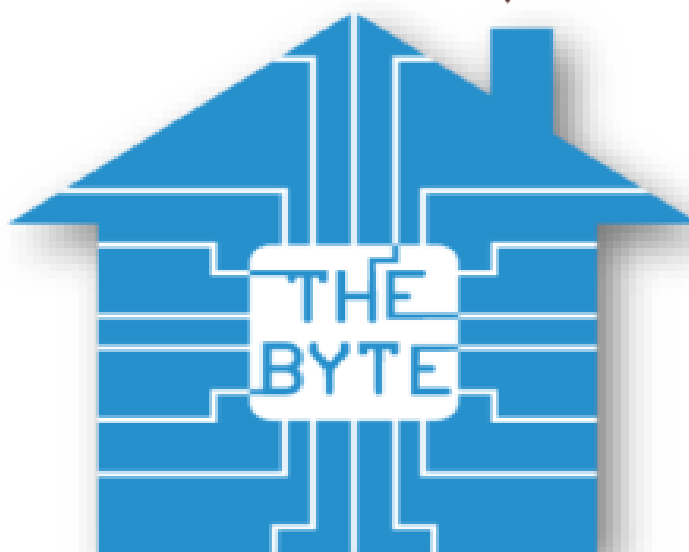
*So tonight
she climbs the ladder,
mounts a platform,
nothing matters*

*except to catch
a thin trapeze
then hold on tight
with grace and ease.*

*She swings herself
by both front paws
then somersaults
to wild applause*

*of kitchen mice,
who, though dizzy,
encourage Cat,
to keep her busy.*

By: Reedham
Chaudhary





How can I live to be 100 years old?

Life expectancy figures normally assume mortality rates will stay the same, but medical and safety improvements are constantly reducing them. A new Danish model that takes this into account found that children born in the developed world today have a 50 per cent chance of reaching 100

Women live longer than men, and not just because they tend not to fight wars. Japanese researchers created mice without a father by combining two female genomes. Their lifespan was extended by 30 per cent. Men may be engineered for size and strength at the expense of durability.

Daily exercise slows the gradual loss of heart muscle and bone density as we age, and reduces the risk of falls. Once you can no longer walk 400m (0.25 miles) in five minutes, your chance of dying in the next three years rises by 30 per cent.

Are atoms expanding as the Universe expands?

The expansion of the Universe only significantly affects space and time on scales bigger even than entire clusters of galaxies. Below this, the size of objects is dictated by far stronger influences, notably the force of electromagnetism in the case of atoms. Extremely sensitive measurements have found no evidence that the fundamental properties of atoms are anything other than constant.



Why did humans evolve an imagination?

Imagination underlies our ability to anticipate different futures and to reflect on alternative pasts. Arguably, it's what distinguishes us most profoundly from other animals. It means we can learn from past experiences ("If I'd taken a spear with me, I could have caught the deer") and we can hypothesise about the possible outcomes of future scenarios ("If I trek across the desert without any food or water, I will get hungry and thirsty"). This makes us incredibly adaptive and is the secret to our superlative planning and problem-solving skills. Once imagination evolved, it also unlocked the gifts of storytelling, fantasy and wonder.

Who really discovered black holes?

While their enigmatic name was first coined in 1967, the idea of objects whose gravity is so intense not even light can escape them is far older. In 1783, an English cleric and amateur scientist named John Michell showed that Newton's law of gravity suggested such objects could exist. But Michell went further, suggesting that despite being invisible, such objects might reveal themselves if they happened to have a star in orbit about them.

He proved to be amazingly prescient in both respects. During the 1930s, theorists using Einstein's more sophisticated theory of gravity, known as General Relativity, showed that sufficiently massive stars could collapse under their own gravity at the end of their life, and turn into black holes (ironically, Einstein himself never accepted that such strange objects could really exist).



Why do ants walk in a line?

Ants are highly social insects, thriving in colonies of millions of individuals that work as a team. Good communication skills lie at the heart of their success. They rely heavily on chemical scents, called 'pheromones', to defend territories and exchange complex information – from the location of food sources and nest sites, to the presence of predators. Each ant species has its own chemical vocabulary of up to 20 different pheromones which can be secreted to form specific scent trails. The tips of their antennae translate the chemical 'words', thereby guiding the ants, in a line, to or from the desired destination.

What could explain the Star of Bethlehem?

Ancient Chinese records report the appearance of a bright comet in 5BC and also the sudden flare-up of a star in 4BC – both around the time when Christ is now thought to have been born. However, some researchers have claimed these events lack the astrological significance of 'portents' involving the Moon and planets, which would have attracted attention among scholars of the time.

This has led to the emergence of two top contenders for explaining the Star of Bethlehem. The first is a so-called 'occultation' in 6BC, when the Moon appeared to pass in front of Jupiter in the night sky. The second contender is an unusual triple conjunction of Jupiter and Saturn which took place in 7BC, when these two great planets repeatedly appeared close to one another.



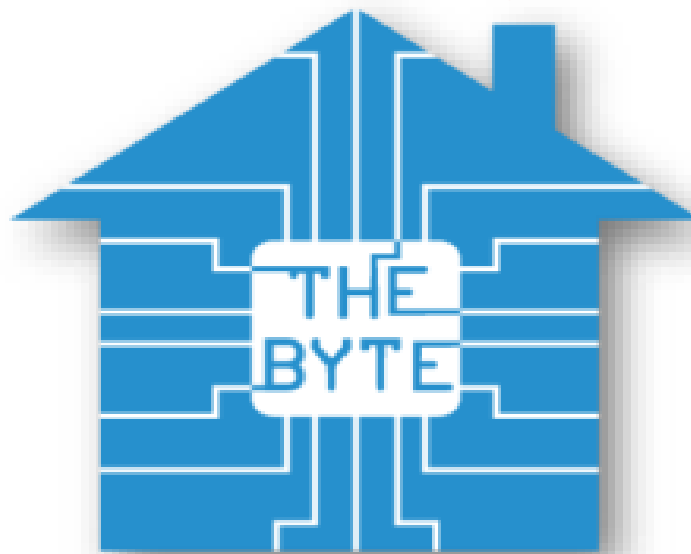
What is at the centre of a gas giant planet like Jupiter?

This is one of the key questions astronomers hope to resolve with data from NASA's Juno mission, currently orbiting Jupiter. Jupiter's atmosphere is made up of around 90 per cent hydrogen and 10 per cent helium, so computer models suggest its core may be made from metallic hydrogen, a bizarre form of the element thought to exist at extreme pressures.

Do intelligent people have more intelligent children?

The sorts of abilities needed to do well in IQ tests (verbal and spatial working memory, attention tasks, verbal knowledge and motor speed ability) are certainly inheritable, as many studies involving identical and fraternal twins have shown.

Particular brain regions associated with such differences in intellectual function, including the language areas known as Broca's and Wernicke's areas, are virtually the same in identical twins. However, this begs the question of what we mean by 'intelligence'. Psychologist Stephen Kosslyn of Harvard University, in the US, believes IQ tests measure "the kind of intelligence you need to do well in school, not what you need to do well in life". One additional factor that isn't included is 'emotional intelligence' – awareness of social interactions and people's feelings.



DEPARTMENTAL EVENTS

WebSynth 1.X

Organised By :





IMS Engineering College
Computer Science & Engineering
Department



WebSynth 1.X (T-Code Club)

The **T-Code Club** of Department of Computer Science and Engineering organized **WebSynth 1.X**. It had been held from Saturday morning **24/02/2017, 9:30 am to Sunday evening 25/02/2018, 09:30 pm (Online)**. The submission time was Sunday 06:30 pm to 09:30 pm. Students of CS & IT (2nd, 3rd, and 4th year) have participated in this event. Students got first, runner up rank on the basis of their performance.

The contest comprised of a web development app based on certain requirements. The aim of the event was to make the students competitive towards the Industrial oriented development.

The top two students named **Avneesh Jha, CS1 IIIrd year (First)**, **Ashish Kumar Sandhu IT IIrd year (Runner up)** received certificates of merit for their excellent performance and other participants received participation certificates.

Faculty Coordinator:

Sapna Yadav

Assistant Professor, CSE Dept.

Student Coordinators:

Aviral Ruhela, 3rdYr, CS1

Anshul, 3rdYr, CS1

Akshat, 3rdYr, CS1

Ajay Singh Chahar, 3rdYr, CS1

List of Participant

| Sr. No. | Name | Branch |
|---------|----------------------|--------|
| 1 | Avneesh jha | CS |
| 2 | Lokesh Kumar Tiwari | CS |
| 3 | Hari Shankar Tiwari | CS |
| 4 | Shagun Samant | IT |
| 5 | Divyanshu Srivastava | CS |
| 6 | Abhishek Sethi | CS |
| 7 | Nitish Singh | CS |
| 8 | Priyanshu Yadav | IT |
| 9 | Rajarshi Avanti | IT |
| 10 | Aditya Pandey | CS |
| 11 | Harshit Saran | CS |
| 12 | Reedam Choudhary | CS |
| 13 | Sanchit Gupta | CS |
| 14 | Pradeep Yadav | CS |
| 15 | Kshitiz Agarwal | CS |
| 16 | Garvit Arya | IT |
| 17 | Akash jaiswal | IT |
| 18 | deepika singhal | IT |
| 19 | yachna singh | CS |
| 20 | urvashi tyagi | CS |
| 21 | Anjali sharma | CS |
| 22 | Ashish kumar sandhu | CS |
| 23 | anant bhardwaj | IT |
| 24 | Ayush agarwal | IT |

| | | |
|----|------------------|----|
| 25 | Ankit Brahmbhatt | IT |
| 26 | Adarsh kr. singh | CS |
| 27 | Abhishek Gupta | CS |
| 28 | Diksha Khurana | CS |
| 29 | Harshit Gupta | CS |
| 30 | Ayush Tripathi | CS |
| 31 | Sonali Rawat | CS |
| 32 | A. Rupali | CS |
| 33 | Ayush agarwal | CS |

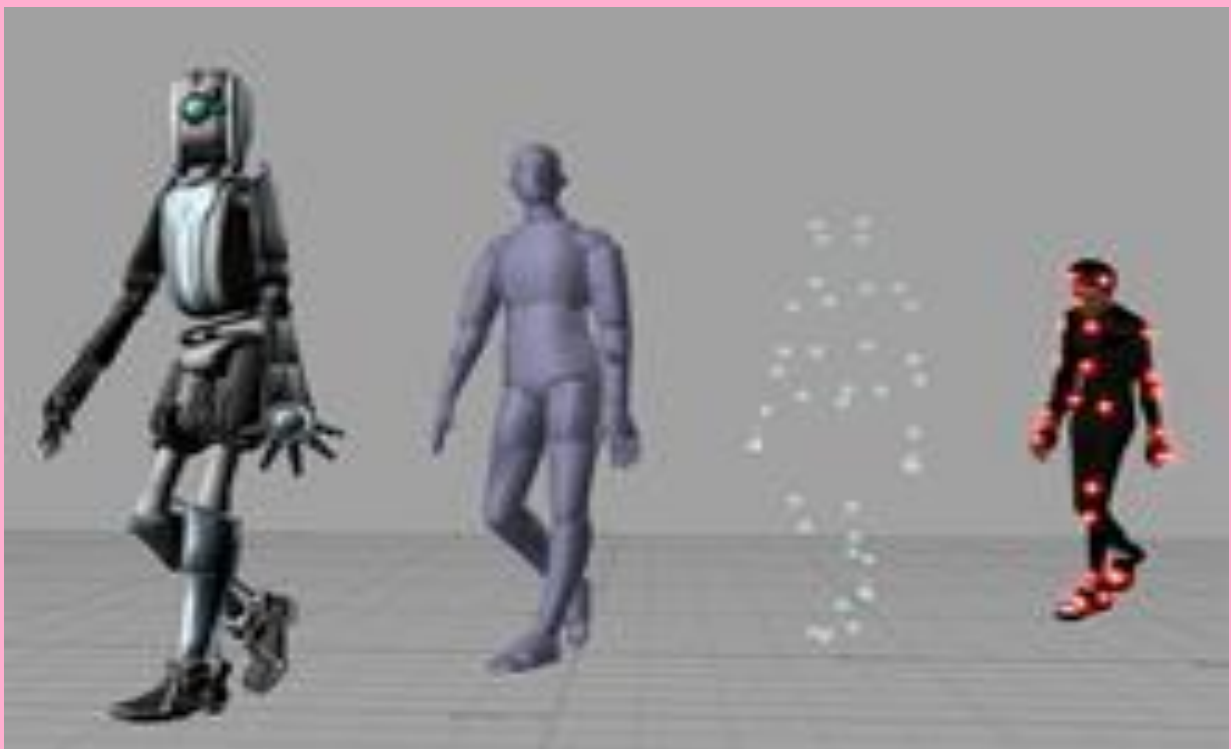
Technofiesta

February 9

2018

The **Technofiesta Club** of Department of Computer Science and Engineering organised **Pie 1.0** which comprised of 3 rounds :

- Aptitude Quiz (9th February 2018 from 4:45pm to 5:30pm)
- Extempore (12th February 2018 from 4:45pm to 5:30pm)
- Personal Interview (16th February 2018 from 4:45pm to 5:30pm)



IMS Engineering College
Computer Science and Engineering Department
(Technofiesta Club)

The **Technofiesta Club** of Department of Computer Science and Engineering organised **Pie 1.0** which comprised of 3 rounds :

- Aptitude Quiz (9th February 2018 from 4:45pm to 5:30pm)
- Extempore (12th February 2018 from 4:45pm to 5:30pm)
- Personal Interview (16th February 2018 from 4:45pm to 5:30pm)

The first round comprised of aptitude and reasoning questions in the first round, the second round was an extempore in which the participants were to speak on any topic for 3 minutes approximately, the third round was a PI where participants were to bring a CV and a team of 3 faculty members took their interview and ranked them based on their confidence, and other parameters.

The top students are :

- Tanvi Attreya (IT 2nd Year)
- Arihant Jain (EC 1st Year)
- Ashish Kr. Sandhu (IT 2nd Year)
- Sukriti Saxena (IT 2nd Year)

The above students will receive certificate of merit and other participants would get certificate of participation.

IMS Engineering College
Computer Science & Engineering Department
Quiz-O-Mania 4.1 (T-Code Club)

The **T-Code Club** of Department of Computer Science and Engineering organized **Quiz-O-Mania 3.1** on **18/02/2017 (Sunday) from 9:20 pm to 10:20 pm (Online)**. Students of CS & IT (2nd, 3rd, and 4th year) have participated in this event. Students got first, second, and third rank on the basis of their performance.

The contest comprised of questions from HTML, CSS, Java Script etc.. The aim of the event was to make the students familiar with the basic logics of Web Development.

The top three students named Aditya Pandeyt, 2CS IIIrd year, **Abhishek Sethi IIIrd year, and Rajarshi Sahu IIIrd year** received certificates of merit for their excellent performance and other participants received participation certificates.

Faculty Coordinator:

Sapna Yadav
Assistant Professor, CSE Dept.

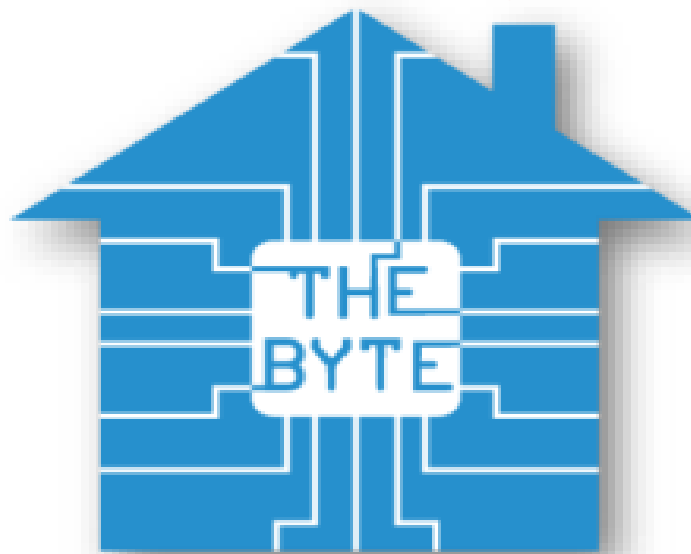
Student Coordinators:

Aviral Ruhela, 3rd Yr, CS1
Anshul, 3rd Yr, CS1
Akshat, 3rd Yr, CS1
Ajay Singh Chahar, 3rd Yr, CS1

List of Participant

| Sr. No. | Name | Roll. No. | Class |
|---------|----------------------|------------|---------------|
| 1 | Rishika Vatsalya | 1514313074 | IT-2 |
| 2 | Avneesh Jha | 1514310060 | CS-1 |
| 3 | Sachin Gupta | 1514310168 | CS - 3 |
| 4 | Arpit garg | 1514310053 | CS1 3 yr |
| 5 | Vaibhav Anand pandey | 1514310224 | 3rd year, 2CS |
| 6 | ankita | 1514310042 | CS1 3yr |
| 7 | Lokesh Kumar Tiwari | 1514310102 | CS2 |
| 8 | vaishnavee jaiswal | 1514313109 | IT 2 |
| 9 | DEEKSHA PAL | 1514310069 | CSE-1 |
| 10 | anushika jaiswal | 1514310050 | CSE-1 |
| 11 | NAVEEN SINGH | 1514310125 | CS-2 3rd year |
| 12 | ARFA NAAZ | 1514310052 | CS1 |
| 13 | Bhawna saini | 1514310064 | CS-1 |
| 14 | arpit kumar | 1514310054 | CS1 |
| 15 | AMAN RATHORE | 1514310032 | CS-1 |
| 16 | Bipin Yadav | 1514310065 | CS-1(3rd Yr.) |
| 17 | Anurag Shakya | 1514310049 | CS1 |
| 18 | Pradeep yadav | 1514310142 | CS-2 |
| 19 | NEHA SHARMA | 1514310129 | CS-2 |
| 20 | Harashit Mitra | 1514310079 | CS2 |
| 21 | Abhishek Kumar Singh | 1514310009 | CS 1 |

| | | | |
|----|------------------------|-------------|------------------|
| 22 | Vaibhav Gupta | 1514310226 | CS-3 3rd year |
| 23 | Amit Ranjan | 1514310034 | CSE -1(3rd year) |
| 24 | Anand Kumar Singh | 1514340027 | CS3 |
| 25 | Nitin Sahu | 1514310135 | CS-2 |
| 26 | A.Rupali | 1514310001 | CS1 |
| 27 | GOVIND NARAYAN JHA | 1514310078 | CS1 |
| 28 | akash roshan chaurasia | 1514310027 | CS1 |
| 29 | Labeeb Ahmed | 1514310099 | CS2 |
| 30 | Abhishek Kr. Sonkar | 15141310010 | CS-1 |
| 31 | Aditya Pandey | 1514310020 | 2CS |
| 32 | sonu | 1514313097 | IT2 |
| 33 | Ayush agarwal | 1514310061 | CS 1 |
| 34 | Abhishek Sethi | 1514310013 | CS-1 |
| 35 | Divyanshu Srivastava | 1514310075 | 3rd Year CS-1 |
| 36 | akhilesh | 1514310029 | CS1 |
| 37 | abhishek singh chauhan | 1514310016 | CS1 3rd year |
| 38 | rajarshi sahu | 1514310154 | CS-2 |
| 39 | Harshit Kumar Singh | 1514310081 | CS2 |
| 40 | Vishal Agrawal | 1514310241 | 2CS |
| 41 | Ananya kumar | 1514310039 | CS-1 |
| 42 | Abhishek | 1514310017 | CS 1 |
| 43 | astha bansal | 1514310058 | CS1 |
| 44 | Rishika Vatsalya | 1514310053 | CS1, III |



PLACEMENT NEWS

Students Speak



Pranjal Gupta

B.Tech Final Year Student placed with
Axiom Consultancy

Getting a Job and that too from the Campus itself is a dream come true ! IMS has been very helpful in bringing out the placements for students. I am Placed in Mobilizeon, the placement journey that flagged off in August was very learning experience. Revising over the Data Structures, Operating System, Networking that were earlier a subject in previous semesters brought us closer to preparing for Jobs.

In Computer Science, Companies demand for Quality Engineer and not Quantity Engineer. Apart from all of the Qualities such as hardworking, better learner, better listener etc they all believe to hire people who are smart and efficient. IMS focused on organizing classes for preparing us the same way. We had regular classes of Aptitude, Soft skills and Coding to do so. This let us do Logical & Technical Preparation and also groomed us for Interviews.

The College also purchased a portal for the self assessment of Coding Skills. Added with the in-campus technical tests, this gave us a deeper understanding of the loop holes along with assessing the in-depth conceptual knowledge about a particular language like C, Java etc. The Department's boosts of organizing in-campus project events was an additive support, since the interviewers were impressed in the final round after they peeped into the projects that I had showcased in these events.

It is always said, 'You need guidance and moral support once you prepare for something' and always getting a helping hand from faculty towards organizing and establishing the sync between the current course for the semester and the preparation for Placements was appraising. We never felt like burdened. The Placement Cell, were very concerned with bringing up the companies in-campus and were available for the support in the events outside the campus i.e. Pool Placements.

There's a huge collection of data objects i.e. study material to study for the placements, the scope of what may be the question in the drive for technical round and that in coding round is undeterminable. There's is probably a greater need to prepare well to write codes of any kind be it any algorithm, or

module implementation or any efficient code. For Coding one may opt for any coding Platforms preferably 'Codechef' and 'Hackerearth'. Daily problem solving over these helped me becoming a better coder.

'Geeks for Geeks' was at dispose for studying the OS, DBMS and Networking. The notes that I had made during the semesters also helped being descriptive over these subjects. Questions from OOPS concepts, Collections, DBMS Queries were among the favorites of people from the company. For the Interviews, the Soft skills classes were very fruitful. Stage fear had already pumped out once we got regular in these classes facing HR rounds, GD's etc. There's a need of being confident in may be whatever you speak (if you have knowledge about it), whether it comes out to be correct or incorrect is what we were told. This played a very important note since I also unknowingly gave an incorrect response in my final round, but sitting there and answering this confidently played the trick.



Current Affairs

Current Affairs Feb 2018

- Google has launched "Bulletin" app that allows anyone to submit stories related to their local communities. Using this app users in the respective areas can sign up and contribute their stories with photos, vi deos and text.
- On 31st January 2018, mCURA, a Health-tech startup, launched 'Smart OPD', India's first integrated mobility platform that reduces waiting time in counters and provides e-prescriptions. 'Smart OPD' helps patients to escape long queues at admission and billing counters, labs, pharmacies and hospitals.
- On February 1, 2018, V-410, an interceptor boat, built for the Indian Coast Guard, was launched in Mangaluru, Karnataka by Bharati Defence and Infrastructure Limited (BDIL).
- On 2nd February 2018, China successfully launched 'Zhangheng 1', its first seismo-electromagnetic satellite to study seismic precursors. Zhangheng 1 will let scientists monitor the electromagnetic field, ionospheric plasma and high-energy particles for five years.
- On 3rd February 2018, Japan successfully launched a mini-rocket that sent a microsatellite into orbit. The No. 5 vehicle of the SS-520 series took off from the Uchinoura Space Center in Kagoshima prefecture, Japan.
- On February 6, 2018, India successfully flight-tested the indigenously developed Agni-I ballistic missile from a test range off the Odisha coast. The test involved 18th version of Agni-I and the test was conducted from launch pad-4 of the Integrated Test Range (ITR) at Abdul Kalam Island in Balasore, Odisha.
- On 6th February 2018, Madhya Pradesh government

introduced 'Pollution Metre', a mobile application to spread awareness against pollution in the western part of Madhya Pradesh. Using the 'Pollution Metre' app, users can check the status of air, water and noise pollution in their areas.

- Hindustan Aeronautics Limited (HAL) has developed the first flight of Hawk-i with indigenous Real Time Operating System (RTOS). Hawk-i is the first indigenous RTOS developed from scratch in India. It has been certified by Center for Military Airworthiness and Certification (CEMILAC).*
- On 7th February 2018, India successfully test-fired Prithvi-II, an indigenously developed nuclear capable missile from a test range in Odisha. Prithvi-II is a surface-to-surface missile. All mission objectives were satisfied during the test launch and it was declared a successful*

launch.

- On 6th February 2018, SpaceX's launched its 'Falcon Heavy' rocket towards Mars from the Kennedy Space Centre in Florida. Falcon Heavy is said to be the world's most powerful rocket. It carried a Tesla roadster as a mock payload.*
- Britain's Prince Charles has launched 10-million-dollar Development Impact Bond (DIB) with an objective to help improve education for over 200000 children in India. DIB is the latest fundraising initiative by the British Asian Trust (BAT).*
- Indian Institute of Science (IISc)) ranked 29th and Indian Institute of Technology (IIT), Bombay ranked 44th are the only two Indian institutions to feature among Top 50 educational institutes in Asia in TIMES Higher Education (THE) World University Ranking's. National University of Singapore has been adjudged as Asia's top university for the third consecutive year.*
- On 8th February 2018, India has ranked 44 out of 50 countries in the international Intellectual Property (IP) index as per the annual report released by Global Innovation Policy Center (GIPC) of the US Chambers of Commerce. . The Index is*

topped by the US with 37.98 points. Second position is occupied by United Kingdom and third spot by Sweden.

- On February 7, 2018, Union External Affairs Minister Sushma Swaraj met Saudi King Salman bin Abdulaziz and inaugurated 'Janadriyah', the national heritage and cultural festival of Saudi Arabia at Riyadh. India was accorded the 'Guest of Honour' status at the Janadriyah Festival.*
- According to a report by New World Wealth, With USD 950 billion total wealth Mumbai is the only India city has ranked 12th out of 15 wealthiest cities globally. New World Wealth is a global market research group, based in Johannesburg, South Africa. With USD 3 trillion total wealth, New York has topped the list of 15 wealthiest cities.*
- On February 9, 2018, Prime Minister Narendra Modi travelled from New Delhi to Jordanian capital and Narendra Modi was conferred the 'Grand Collar of the State of Palestine' by Palestine President Mahmoud Abbas.*
- PM Modi arrived in Abu Dhabi, the capital of United Arab Emirates (UAE) on February 10, 2018 and was received by the UAE Crown Prince Mohamed bin Zayed Al Nahyan. Modi inaugurated a project for the construction of the first Hindu temple in Abu Dhabi*
- On February 11, 2018, PM Modi landed in Muscat, the capital Oman and begun the last leg of his three-nation tour. India, Oman sign 8 agreements as PM Modi meets Sultan Qaboos.*
- Gevora, world's new tallest hotel opened on February 11, 2018 in Dubai, United Arab Emirates (UAE). Height of 75-storey Gevora Hotel is 356 metres. It has been built by Majid Al Attar.*
- As per a report published in Water Resources Research, Phosphorus levels in freshwater bodies across the world are escalating and this could pose a serious threat to the ecosystem.*
- 4th Nepal Buildcon and Wood International Expo 2018 was held in Kathmandu from 8th – 11th February, 2018. .*

The expo was inaugurated by Deputy Prime Minister of Nepal Kamal Thapa

- *On February 12, 2018, Indian Army announced that about 2300 Indian Army personnel are leaving for South Sudan to join the UN peace keeping mission. Indian Army personnel, joining this UN mission, are from Infantry battalion of Garhwal Rifles regiment.*
- *6th edition of World Government Summit (WGS) 2018 was held in Dubai, United Arab Emirates (UAE) from 11th – 13th February, 2018. On February 11, 2018, Indian Prime Minister Narendra Modi delivered a keynote address at the 6th World Government Summit on the theme: 'Technology for development'.*
- *On 9th Friday 2018, Tanzanian President John Magufuli announced that Tanzania will withdraw from the UN's comprehensive refugee response framework. . Reasons for the withdrawal of Tanzania from UN refugee programme has been stated as security issues and lack of funds.*
- *On February 13, 2018, South African Government declared the ongoing drought as a "national disaster". The drought has afflicted southern and western regions of South Africa including Cape Town.*
- *India has secured access to the key Port of Duqm in Oman for military use and logistical support. This development was the highlight of Indian Prime Minister Narendra Modi's official visit to Oman on 11th and 12th February, 2018.*
- *Sohini Roy Chowdhury, an eight year old Indian-origin school girl has made it to the UK's Mathletics Hall of Fame. UK's Mathletics Hall of Fame is a mathematics-based competitive online platform for primary school students. . She has entered the top 100 World Hall of Fame.*
- *On February 9, 2018, Reliance Industries Ltd. announced that it has been awarded the Golden Peacock Award 2017 for corporate social responsibility (CSR) initiatives. Reliance Industries Ltd.'s CSR initiatives are undertaken through Reliance Foundation, which is headed by Nita Ambani.*

- On 10th February 2018, Vikas Sathaye, an Indian-born engineer, along with three other people won the scientific and engineering award, at the Oscars 2018 Scientific and Technical Awards in Beverly Hills, United States.
- Tata Steel has been honoured as the World's Most Ethical Company for the year 2018 by Ethisphere Institute. It has been honoured for the sixth time in the 'Metals, Minerals and Mining' category. The award will be presented to Tata Steel on 13th March 2018.
- Rear Admiral Mukul Asthana has been appointed as the Assistant Chief of Naval Staff (Air) at New Delhi. He commanded the 21 Mine Counter Measure Squadron and the Guided Missile Destroyer INS Rana.
- On 7th February 2018, Bangladesh President Abdul Hamid was re-elected unopposed for another five-year term. Chief Election Commissioner KM Nurul Huda made this announcement.
- On 5th February 2018, Hardayal Prasad was appointed as Managing Director and CEO of SBI Card. Hardayal Prasad replaces Vijay Jasuja.
- National Payments Corporation of India (NPCI) has appointed Biswamohan Mahapatra as non-executive chairman for two years. Biswamohan Mahapatra replaces B Sambamurthy. B Sambamurthy was the interim chairman of NPCI.
- On 7th February 2018, Smriti Mandhana, Indian cricketer, was appointed the new brand ambassador of 'Power', Bata's sport wear brand. She is an Indian women's cricket team opener.
- On 9th February 2018, Justice Abhilasha Kumari took charge as the Chief Justice of Manipur High Court. Justice Abhilasha Kumari's oath ceremony was administered by Manipur Governor Najma Heptulla. She was transferred from the Gujarat High Court.
- On 9th February 2018, Antony Dominic, Acting Chief Justice of the Kerala High Court, took charge as the Chief Justice of Kerala. Justice Antony Dominic's oath as Chief Justice of Kerala was administered by Kerala Governor P. Sadasivam.

- *PepsiCo Chairman and CEO Indra Nooyi has been appointed as the International Cricket Council (ICC) Board's first independent female director and she will join in June 2018.*
- *On 8th February 2018, Pradeep Kumar Rawat was appointed the next Ambassador of India to Timor- Leste. He is currently the Ambassador of India to Jakarta.*
- *Rakesh Singh has been appointed as private banking head of HDFC Bank. In this role, Rakesh Singh will head the HDFC Bank's investment banking, capital markets and financial institutions businesses.*
- *Grand Master Vidit Gujrathi has been named the brand ambassador of All India Chess Federation for the Blind (AICFB). Vidit Gujrathi is 23 years old. His current rating is 2718. He aims to spread awareness about blind chess and give recognition to Indian players who perform well at global level.*
- *On 1st February 2018, M C Mary Kom won gold medal at the SpiceJet India Open International Boxing tournament of the women's 48kg category at the Thyagraj Indoor Stadium in New Delhi.*
- *India's Pinki Rani defeated Jargalan Ochirbat in the finals of fly (48-51 kg) category and won gold medal.*
- *India's Saurav Ghosal obtained rank number 14 became the highest ranked Indian in the Professional Squash Association (PSA) rankings released on 2nd February 2018. He has surpassed Joshna Chinappa who is currently at 17th position.*
- *On 3rd February 2018, India won the U-19 Cricket World Cup against Australia at the Bay Oval, Mount Maunganui, in New Zealand.*
- *On 4th February 2018, Indian golfer Shubhankar Sharma won the Maybank Championship, at the Saujana Golf and Country Club, in Malaysia. He was awarded USD 500,000.*
On 4th February 2018, India's PV Sindhu lost to America's Beiwen Zhang in the women's singles finals of India Open Super 500 and won silver medal at Siri Fort Complex in New Delhi



UPCOMING EVENTS

UPCOMING EVENTS IN INDIA

March 2018

- **Aphasia 18. AMITY University, Battle OF the Bands, Noida**
Start date: 8th March 2018 End date: 10th March 2018
Place: AMITY University, Noida
- **Confluence 2018,Cultural Fest, Hansraj College, Delhi University ,Delhi**
Start Date: 3rd March 2018, End date: 6th March 2018
Place: Hansraj College, Delhi University, Delhi
- **Innoviz 2018, Cultural Fest, Northern India Engineering College**
Start date: 20th March 2018, End date: 22nd March 2018
Place: Northern India Engineering College. Delhi
- **AAHVAAN 18 Sports Fest Delhi Technical University Delhi**
Start date: 23rd March 2018 End date: 26th March 2018
Place: Delhi Technical University, Delhi.
- **International Conference on towards extensible and adaptable methods in computing-TEAMC 2018.NSIT Delhi**
Start date: 26th March 2018 End date: 28th March 2018
Place: NSIT, Delhi
- **Xtasy 2018,Cultural Fest. bharati vidyapeeth college of engineering Delhi**
Start date: 27th March 2018 End date: 27th March 2018
Place: bharati vidyapeeth college of engineering Delhi

Program Educational Objectives

Within a short span of time after graduation, the graduates shall:

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.

PEO 2: Graduates will learn to apply various computational techniques & tools for developing solutions & projects in real world.

PEO3: Be employed as computer science 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 computer science professionals.

Program Specific Outcomes (PSO)

By the completion of program the student will have following Program specific outcomes.

1. **Foundation of Computer System:** Ability to understand the principles and working of computer systems.

2. **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.

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

4. **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

Department Mission and Vision

MISSION

- To promote technical proficiency by adopting effective teaching learning processes.
- To provide environment & opportunity for students to bring out their inherent talents for all round development.
- To promote latest technologies in Computer Science & Engineering and across disciplines in order to serve the needs of Industry, Government, Society, and the Scientific community.
- To educate students to be Successful, Ethical and Effective problem-solvers and Life-Long learners who will contribute positively to the society.

VISION

To be recognized as a Centre of Excellence imparting quality education and creating new opportunities for students to meet the challenges of technological development in Computer Science & Engineering

Meet the team

Chief Editor

Anurag Mishra

Ayushi Varshney

Anjali Sardana

Gautam kumar

Team leader

Harshit gupta

pradeep yadav

reedam chaudhary

neetish singh

Vrinda Sharma

Diksha Khurana

Coordinator

Sheetal srivastava

shagun samant

rishabh gupta

rishabh chaudhary

Divyansh

shraddha singh



Dear Readers

*We write this in a positive frame of mind
and we're really glad that we've got
this far.*

*It was crazy when we started it but when
it all came together we were more than
happy.*

*The whole industry is undergoing
profound changes and we'll be talking
about a few of them.*

*We're very proud of the work displayed
here by the writers, photographers and
designers who made this issue possible.*

*We hope you enjoy reading these articles,
as seen through the IMS student's
journalistic eye.*

.....FROM THE BYTE TEAM