THE BYTE

An e-Magazine of CSE Department of JMSEC Ghaziabad

JUNE 2015

NET NEUTRALITY

WHAT THEY SAY ABOUT EACH OTHER

FCC

The ISPs will selfishly block content based on company's best interest.

ISPs

FCC

The FCC doesn't have the authority to step in and regulate how ISPs allocate Internet bandwidth and resources.

RESULTS

FCC says if the ISPs win: End users could potentially see higher prices, difficulty getting information they want and difficulty launching start ups.

BLOCKED

ISPs say if the FCC wins: It's a slippery slope - FCC could have more control over the Internet, potentially blocking whole sections of the web.

SAVE THE INTERNET

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ARTICLES

This could be the official flag of Earth that we'll plant on Mars

The blue field represents water which is essential for life - also as the oceans cover most of our planet's surface. The flower's outer rings form a circle which could be seen as a symbol of Earth as a planet and the blue surface could represent the Universe."

You're looking at the proposed design for the flag that our intrepid Earthling explorers will plant on the surface of Mars when they hopefully make it there by mid-2030.

The brains behind the design is graphic designer, Oskar Pernefeldt, from Beckmans College of Design in Sweden, who came up with it as part of his graduation project called 'The International Flag of Planet Earth.' According to Michael Rundle at *Wired*, companies such as LG and BSmart helped him formalise his design, and NASA appears to be involved, but it's not clear exactly how.

While we're a long way off actually having a discussion, as a global population, about what flag to plant on Mars, and whether there's actually any point, considering how unlikely it is that anyone else will actually see it, it's still a

pretty fun exercise. It's a chance for us to consider what things planet Earth would project to someone looking at it from the outside in.

Pernefeldt explains the thinking behind the design:

"Centred in the flag, seven rings form a flower - a symbol of the life on Earth. The rings are linked to each other, which represents how everything on our planet, directly or indirectly,

Watch the video below to hear Pernefeldt talk about how he came up with the design, and check out the images he's put together of the flag in a whole bunch of different scenarios. I can't help but feel a little patriotic about our little blue dot of a planet.

FACEBOOK GOES FOR "EXCLUSIVE VIDEO" OVERDRIVE; OFFERS FREE ADVERTISEMENT CREDITS TO VIDEO CONTENT

By : Ms.Vinita
Asst. Proff.
Dept. of CSE

Social networking giant Facebook is making an aggressive bid to lure video creators, actors and top artists in India, striking exclusive deals to have first dibs at video content. The company, which is trying to edge out other services as the go-to destination for videos, has already taken the battle to YouTube in other key markets like the US, and India is its new battlefront.

The social network has been offering free advertising credits to content creators in exchange for exclusivity, sources said. It asks for 48-72 hour exclusivity before it is uploaded on other platforms like YouTube.'

"*Facebook has become very active with content creators lately but it might take a while for them to catch up to You-Tube,*"said Subrat Kar, co-founder & CEO of video analytics startup Vidooly, whose service is used by over 1,000 You-Tube channel owners.

Content creators seem to be warming up to the idea as well. For instance, on his birthday in January, AR Rahman hosted an exclusive live chat on Facebook, which was put up on his YouTube channel later. Star recently uploaded the preview of one of its biggest shows, Nach Baliye, on Facebook, two days before airing on TV, a Facebook spokesperson said.

"It's a pretty well-planned approach to start seeding its native platform among the creator community,"said Samir Bangara, co-founder & CEO of Qyuki, a Mumbaibased multi-channel networkMulti-channel networks help creators with programming, distribution and rights management in return for a cut of the revenue from the content.

With rapidly growing smartphone and Internet penetration, India has become a large market for video consumption. Internet video traffic in India is expected to grow nine-fold between 2013 and 2018, according to Cisco's Visual Networking Index (VNI). Internet video traffic will reach 2.2 exabytes per month in 2018 or 72% of all Internet traffic in India, according to the Cisco report. "In terms of views, Facebook has caught up massively to YouTube. But there are many pieces in the puzzle that need to fall in place for Facebook,"said Bangara.

"YouTube's creator ecosystem is years ahead of Facebook though,"he said. Nearly a dozen multi-channel networks including Culture Machine, Qyuki and Ping Digital are also looking to tap into this growing space. These networks distribute content through platforms like YouTube or Vimeo

"*Facebook is the only contender to YouTube in India in terms of reach and they are getting bigger and bigger,*"said Sameer Pitalwalla, co-founder of Tiger Global-backed Culture Machine.

As of March 2015, Facebook had 125 million monthly active users and 53 million daily active users on mobile. Culture Machine has been publishing much of its content on Facebook.

"*We have released some content exclusively on Facebook and the viewership has been heartening to see,*"said Pitalwalla. "Over time, the relevance of You-Tube videos on Facebook has also been pushed down and you'd see more Facebook native videos pop up prominently,"said Bangara. The size of native Facebook video, for instance, is 12 times bigger than a YouTube video. "*These are subtle things that promote Facebook videos,*"he said.

Dartmouth researchers create first smartphone app that predicts GPA

Dartmouth Researchers And Their Colleagues Have Built The First App That Automatically Predicts College Students' Gpa Based On Smartphone Data That Tracks Their Study, Party And Other Habits.

If you're a college student wondering how your study and party habits will affect your GPA, wonder no longer. Dartmouth researchers and their colleagues have built the first app that automatically predicts college students' grade point average based on their smartphone data.

The findings offer new ways to improve students' performance, providing real-time feedback on their studying, partying, sleeping, exercising and other conscious and unconscious behaviors to help them stay on track academically.

Dartmouth computer science Professor Andrew Campbell, senior author of the SmartGPA study, will present preliminary findings on May 27 in a keynote address at the International Conference on Web and Social Media (ICWSM-15) in Oxford, England. The full findings will be presented Sept. 7-11 at the ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2015) in Osaka, Japan.

The SmartGPA app builds on the researchers' earlier StudentLife study, which created the first smartphone app that automatically reveals college students' mental health, academic performance and behavioral trends.

A PDF of the SmartGPA study and a short video are available here. A PDF of theStudentLife study is available here. Further information on both the SmartGPA and StudentLife projects is available here.

"Many cognitive, behavioral and environmental factors impact student learning during college," says Campbell, senior author of both the SmartGPA and StudentLife papers. "Our SmartGPA results show there are a number of important study and social behaviors automatically inferred from smartphone sensing data that significantly correlate with term and cumulative GPA."

The researchers installed the SmartGPA app on the smartphones of 30 Dartmouth undergraduate students and monitored them across a 10-week academic term. The app uses automatic sensing data on the phone and in the cloud and machine learning algorithms around the clock to infer higher level behaviors, including partying (frequency and duration) and studying (duration and focus). It also tracks behavioral changes for the students, such as class attendance, sleep, physical activity and sociability (i.e., face to face conversation and indoor and outdoor mobility). The app works behind the scenes with no user input.

The results show the app, along with periodic self-reports from students, can predict their GPA within 17 hundredths of a point against their cumulative GPA from their transcripts. The results are statistically significant even for a small cohort. The computational model uses no prior knowledge of students' academic performance, such as SAT scores and IQ.

The findings show that the most predictive behaviors between higher and lower performers are:

- Higher performers experienced an increase in stress levels up to the midterm period followed by a gradual decrease to the end of the term;
- In terms of sociability (i.e., the amount of face to face conversations), higher performers had shorter conversations during the early evening and night later in the term;
- As the term proceeded, higher performers spent more time studying;
- High performers were more conscientiousness about their behavior;
- High performers had higher levels of positive mood at the end of term.

"College life is complex," Campbell says. "Students have to balance going to classes and performing well academically with competing demands for their time and energy, but there is no general agreement on why students with similar academic capability at the same institution do better or worse than one another. Furthermore, it is not clear which behavioral patterns significantly contribute to the individual differences in the academic achievement among students.
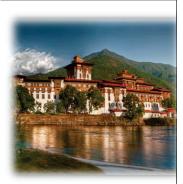
"In our previous StudentLife study, we used simple averages of all student behaviors over the term and presented a number of correlations with performance based on this approach. The SmartGPAstudy goes much deeper in our analysis of academic performance and proposes time series analysis of each student's data streams to best understand the individuals' differences between high and low performers. As part of our analysis, we proposed novel methods to assess behavioral changes experienced by students and a simple model to predict GPAs with great accuracy."

6 Overseas Paradises Every Indian Can Visit Without A Visa

By : Amit Kr. Guatam
Asst. Proff. , Dept of CSE

1. Bhutan:

Lush greenery, the mighty Himalayas, and quaint monasteries welcome you to Bhutan with open arms, minus a visa if you are an Indian passport holder. What better place to rush off to for a little break! Bhutan is one of the remotest places in the world and somewhere this makes it an ideal vacation destination for city folks who are looking at disconnecting from the world for a few days. The sole airport at Paro can be reached via only Druk Air from Delhi and Kolkata. One can also drive down if flying isn't working out. Places to visit includes, Paro, Thimpu, Dochu La Pass, Taktsang Lakhang and Gangtey.

2. Dominica

Dominica is not the short form for Dominican Republic but is another island in the Caribbeans. Island, sea, Caribbeans; these are all the right words for a perfect beach vacation and it's even better when we say that its visa-free for Indian citizens! thinking of a longer stay? Well! guess what, Dominica allows Indian citizens to stay as long as 22 months without a visa! Ideally meant for those who want to sit back and relax while taking in the views of the gorgeous sea and the occasional snorkeling. The island is rich with lush forests, mountains, as many as 300 rivers and even houses the world's second largest hot spring - Boiling Lake!

3. Mauritius

I cannot stress enough on the fact that Mauritius is much more than a honeymoon destination, its also a great destination for family trips as well as a trip with friends. Things you can do in Mauritius? Well lets see, Snorkeling, scuba diving, sailing, big game fishing, big cat interactions at Casela Nature Park, Sky Diving at Skydive Mauritius, Shopping at Port Louis, enjoy the nightlife at Grand Baie, shopping at outlets of luxury brands rejects and watch some of the most spectacular sunsets of your life as you soak in some of the good life.
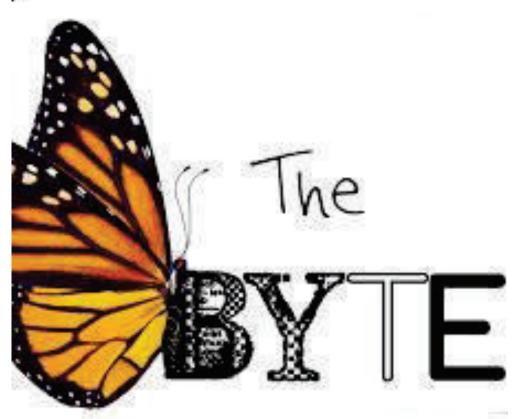
4. Jamaica

Think Jamaica and the instant picture that comes to my mind is a lazy day by the beach, sipping on some Pina Coladas while some Reggae music plays in the background. Jamaica is the perfect picture of a tropical island. Lush mountainous forests, reef lined coasts and great nightlife. Its as if Jamaica was created so that the world could have a perfect place to visit for a break. I mean Bob Marley was born here, shouldn't that be reason enough anyway?! When in Jamaica do stay at one of the fantastic resorts at Montego Bay, go for some snorkeling at Negril and get your fill of the legend Bob Marley at Kingston which houses the famous Bob Marley Museum

5. Fiji

Blue lagoons, palm trees and some of the best beaches in the world come at a no visa requirement for Indian passport holders. Now isn't that something! Fiji is the perfect picture of an exotic island and maybe only 2nd to Seychelles for the same. Apart from the obvious there is a lot more to see in Fiji, visit Denarau island, Mount Tomanivi, Sawa-i-lau (a limestone island),Bouma National Heritage Park, Navala village, and the Sigatoka sand dunes,yup you heard that right!

6. Hong Kong:

Yes, Hong Kong has a visa free stay period of 14 days for Indian passport holders if you are flying to Hong Kong directly from India. Basically accessibility to the nearest Disneyland just got a lot more simpler. Hong Kong is one the most vibrant Asian countries and has a thriving nightlife and is also a great destination for shoppers. The best thing about Hong Kong is that it can be enjoyed with both family and friends and 14 days is more than enough to explore what it has to offer. Hong Kong is connected via all major airports in India.

The BYTE

http://www LATEST

Technology

Windows 10 Will Be Available July 29

Microsoft kicked off June with news that Windows 10 will ship on July 29, just a little under two months from now. The next big update for MS is designed as a un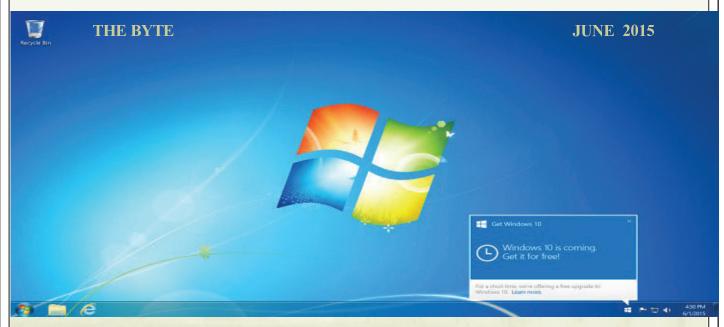ifying platform that will offer continuity across mobile, desktop, tablets and even the Xbox One gaming console, and it will be a free upgrade for Windows 7 and 8 users for the first year. To help ensure easy updates (and probably as a way to try to get a large installed base of Windows 10 users right away), Microsoft is also using a "reservation" system that allows users to sign up to be notified when the update is available, and to schedule it to install when you want.
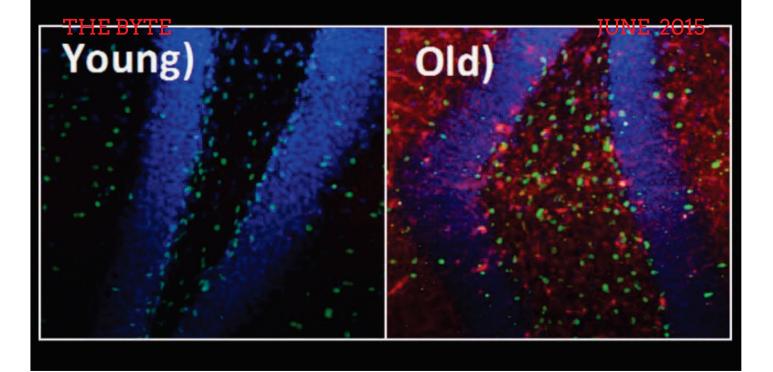
A big new feature addition for Windows 10 is Cortana, so here's a message the company prepared from its virtual assistant ant announcing the news.

What else do you get? Well I'm glad you asked – here's a quick look at the highlights:

• Microsoft Edge: The successor to Internet Explorer, designed around minimalism and collaboration tools, plus with Cortana integration.

• Word, Excel and PowerPoint built in.

• Xbox Live and Xbox app for doing things like recording gameplay, interacting with your Xbox friends and also streaming Xbox games to the desktop.

• Windows Continuum, which lets you smoothly jump between multiple Windows 10 devices, and which lets you use your phones like a PC with external input accessories.

Windows Hello, a new login method that uses face, iris or fingerprint recognition to log you in without a password, depending on hardware support.

Microsoft is doing everything it can to make the transition smooth, like ensuring it'll work with your existing applications. Windows 8 was sort of an awkward generation, so here's hoping the skipped numeral results in something that suits everyone's needs.

SCIENTISTS HAVE IDENTIFIED A DRUG THAT REJUVENATES AGEING MUSCLE AND BRAIN TISSUE

Scientists have identified a drug that simultaneously makes ageing muscle and brain tissue in mice act young again. The research is in its very early stages, but this could represent the first step towards a treatment that restores youth to multiple parts of the body at once.

As we get older, part of the reason our bodies start failing is because adult stem cells stop replacing our damaged cells. But scientists have found that a drug known as Alk5 kinase inhibitor can perk up old stem cells in various tissue types around the body, restoring their ability to keep it young.

"We established that you can use a single small molecule to rescue essential function in not only aged brain tissue but aged muscle," one of the research team, David Schaffer from the University of California, Berkeley Stem Cell Centre in the US, said in a press release. "That is good news, because if every tissue had a different molecular mechanism for ageing, we wouldn't be able to have a single intervention that rescues the function of multiple tissues."

This research is particularly exciting because, instead of focussing on individual organs, this new drug could help make the whole body, including the brain, function as if it were younger. After all, what's the point of trying to keep our bodies alive forever if our brains turn to mush after we hit 100 (and vice versa)?

The key to this process is altering the stem cell environment, which naturally changes as we get older and stops stem cells from doing their job.

A team led by Irina Conboy, also at the University of California, Berkeley, first did this in 2005, when they showed that they could infuse old mice with blood from their younger counterparts, and rejuvenate ageing stem cells. Based on this research, a study began last year to see if this approach could help treat human Alzheimer's patients.

Unfortunately, drug transfusions are impractical and can be dangerous, so the Conboy's team instead tried to find out what it was specifically in the blood of the old mice that was ageing their stem cells.

Over the past decade, one clear culprit has emerged - a growth factor known as TGF-beta1, which the team found is upregulated as we age, and suppresses stem cell activity.

Publishing in the journal *Oncotarget,* they describe how they've finally figured out how to block its activity.

The drug Alk5 kinase inhibitor, which is already being trialled as an anticancer agent, is able to block the growth factor's receptors in mice, stopping it from ageing the body's stem cells. "This is really the first demonstration that we can find a drug that makes the key TGF-beta1 pathway, which is elevated by ageing, behave younger, thereby rejuvenating multiple organ systems," Conboy said in the release.

However, the researchers are careful to caution that this is just one biochemical pathway involved in ageing, and other cellular processes such as inflammation also play a big role in the process. They're now looking for other ways to change the stem cell environment to keep them younger for longer.

"The challenge ahead is to carefully retune the various signalling pathways in the stem cell environment, using a small number of chemicals, so that we end up recalibrating the environment to be youth-like," Conboy explained.

Once they can work out how to keep the stem cells happy, it will effectively unlock our body's own ability to heal itself and stay young indefinitely.

SPANISH RESEARCHERS ARE DEVELOPING BLADELESS WIND TURBINES

A Spanish company called Vortex Bladeless has come up with bladeless wind turbine technology that seeks to provide more energy for less, and address the criticisms aimed at traditional wind farms - particularly where wildlife is concerned.

With blades that spin at speeds of more than 320 km/h (200 miles/hour), wind turbines haven't been the best news for the birds that live around them. While for the most part, the damage is fairly minimal, one wind farm in particular, Altamont Pass in California, US, has drawn the ire of local residents because of the 1,300 birds of prey - including eagles, falcons, hawks - that are killed each year as they try to migrate through it.

And keeping all those heavy blades spinning that fast indefinitely? Well, it's no easy task, and certainly not cheap, energy-wise. According to Vortex Bladeless, just by ditching the blades - and all moving parts, in fact - they will save around 40 percent of the energy cost of regular wind turbines, largely by cutting down on maintenance costs. "Since the Vortex doesn't have moving parts or gears, it should last longer and it won't require periodic lubrication," Dante D'Orazio from The Verge reports. "The simpler design also means that manufacturing costs are about half that of a traditional wind turbine."

D'Orazio adds that the bladeless turbines are estimated to harvest approximately 30 percent less energy, but because they're basically just sticks now, you can cram a whole lot more of them into the space of a regular wind turbine. Plus these things are completely silent, so no one can claim instances of wind turbine syndrome, where the sub-sonic noise generated by traditional wind turbines is blamed for everything from headaches and dizziness to sleepiness and depression.

So how do they work, exactly? Just like traditional wind turbines, the bladeless variety still needs to capture kinetic energy and convert it to electricity, but instead of using a blade, it uses a phenomenon known as vorticity, which produces a series of spinning vortices in the surrounding air. The team at Vortex Bladeless designed their 2.7-metre-high 'cones' specifically so that these vortices would accumulate simultaneously all the way up their length. Liz Stinson explains at *Wired:*

"In its current prototype, the elongated cone is made from a composite of fibreglass and carbon fibre, which allows the mast to vibrate as much as possible (an increase in mass reduces natural frequency). At the base of the cone are two rings of repelling magnets, which act as a sort of nonelectrical motor. When the cone oscillates one way, the repelling magnets pull it in the other direction, like a slight nudge to boost the mast's movement regardless of wind speed."

The kinetic energy that's generated from all this movement is then converted into useable electricity using an electrical generator called an alternator.

Vortex Bladeless have already raised over $1 million in funding, and hope to gather more from investors in the US. They're planning on installing their first prototype by the end of the year.

The BYTE

LITERATURE

A WORLD WITHOUT BORDERS

A borderless world—for all its promises of freedom and harmony—is fraught with all kinds of problems as well

By : Aditya Singh Johal

B.Tech , IT 3rd yr

We live in perplexing times. We are more interconnected than ever before. World economies are tied together and utterly dependant on each other. Yet the very thing that fuels our globalization is also the very thing that fuels our destruction. Climate change and oil spills that have devastating environmental impacts are showing the price

> ▶ *Imagine for a moment a world without borders. A world where people freely travel and move about. In this world, the only obstacle to seeing the great wonders of human civilization would be the cost of transportation.*

of our global trade.

While we give lip service to things such as free trade and global human rights, the sovereignty of nations remains unquestioned. However, in a world bound together by environment and social networks, we must be ready to re-imagine what it means to be both a global citizen and local community member.

The political trend towards isolationism and self-interest is as strong as ever, even while the problems facing the world today are global in nature. But the thought of foregoing nationalistic pride is scoffed at in the name of self-interest. What if the most self-interested decision we could make would be a greater move towards global cooperation? In a world connected by social networks, this has never been more possible.

Imagine a world where transportation does not come at the cost of environmental degradation. A world where visas and passports are no longer necessary and we would be free to travel and work anywhere and everywhere we wanted. Is this a dream worth fighting for? Is this a world worth sacrificing for?

The first response for many is that this is an unrealizable pipe dream, and not even a positive one. A borderless world—for all its promises of freedom and harmony—is fraught with all kinds of problems as well. I would wager that the most common possible problem in the reader's mind is a fear of security. A borderless world likely conveys fears of terrorists moving about at will with their threats and acts of violence on a defenseless people.

There are some who might argue that a borderless world would be a cultureless world. That without distinct national, sovereign boundaries, our world would descend into a single homogenous corporate Amero-culture.

My first response is, what does that say about the culture each of us helps create and define each day? Our great fear is that the culture we have created would be a plague on the world. If not completely unsettling, what that indicates about who we've become is at least a little tragic.

However, maybe this is not how a borderless world would have to be. What if we could live in a safe and free world that did not cling desperately to culture in the face of overwhelming capitalistic domination? What if culture the world over thrived and blossomed—not in spite of a borderless world, but because of it? Could this really be so?

Why do nations exist? Why did states come to be? Well, in a world before flight and worldwide transportation, resources had to be protected. In a finite world of limited resources, this was the single greatest reason for war. Someone else wanted what you had

and the easiest way to get it was by force. National boundaries were established in an attempt to end the constant battle for resources. It was a pragmatic solution to the constant bloodshed that plagued the world. And it worked—at least some of the time.

That was before international trade. That was before oil. That was before avocados in February. That was before UPS overnight shipping from Seattle to Shanghai. We now live in a global world that must manage resources globally, not locally.

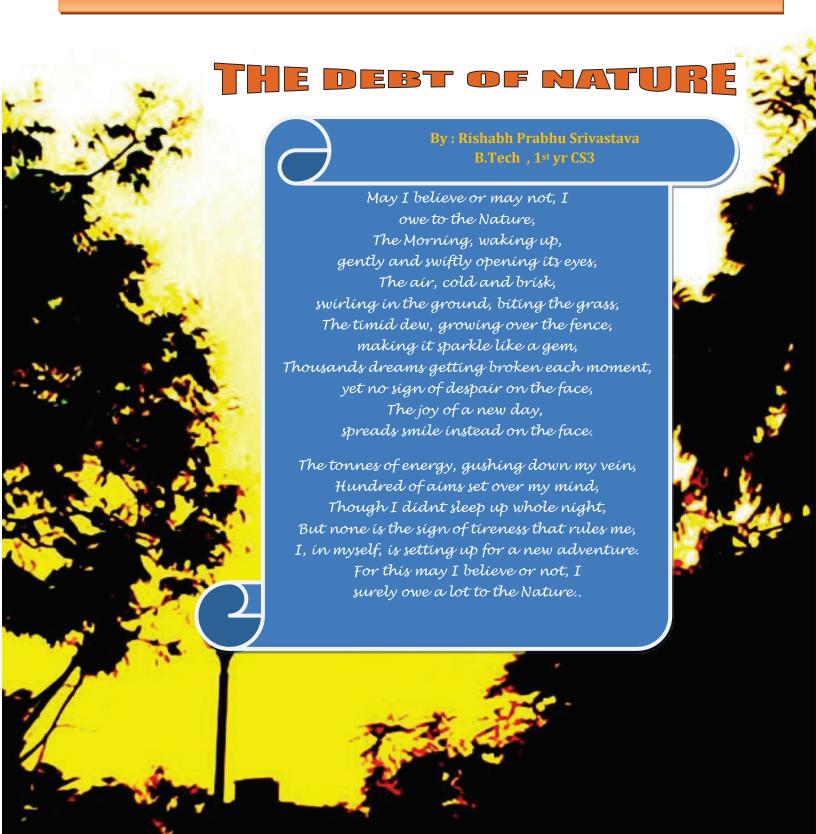Socially and politically we must think globally. We must find a way to look past our nationalistic tendencies as they have now outlived their usefulness. Just as record labels have lost their power to be the sole distributor of media, so too have the great power brokers of the twentieth century. Now, information is power, and in this new global world, we have access to all the information we need to obtain all the power we want. The power to form and shape our world is in our hands like never before. We are increasingly in control of our world and we are the ones who will shape it if we reach out and connect with those around us. Borders have limited usefulness and increasingly less meaning.
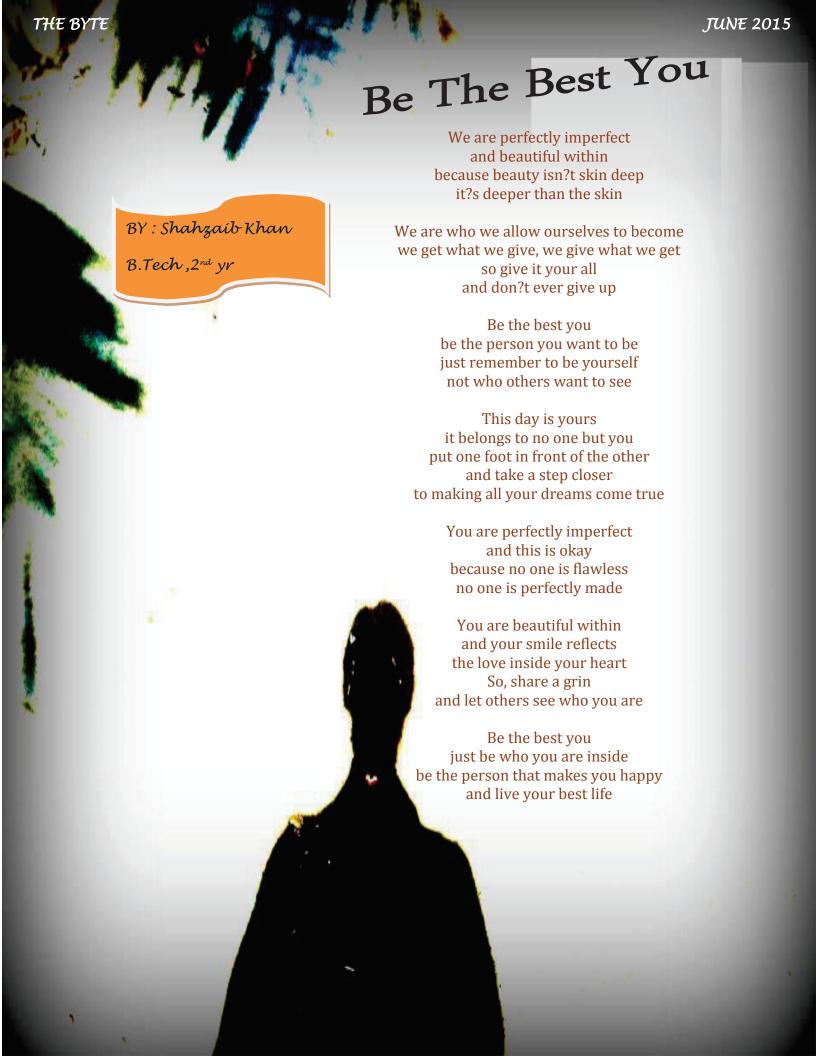
What then about culture and security? These two things tend to flow together. While a global world would be free to manage resources globally, culture would thrive locally. We would have to give up avocados in February because the way in which we ship them across the world is no longer sustainable. Communities would become locally sustainable. While the internet would give us the power to connect to the entire world for information and communication, we would need to give up some of the things we have gotten used to. Farmland and water resources at the local level would have to be protected. Las Vegas is not a twenty-first century city. Our resources are extremely finite and we can no longer act like they will go forever. Soon, only the self-sufficient will survive, which will relight the flame of community that we have lost in the independence of the twentieth century. As communities depend on themselves alone for sustainability, we could see organization and community at the micro level explode just as it has at the macro-level.

And what about security? In a world where communities are free to develop their own cultures once again, as information and education and knowledge flows freely, in a world where everyone has opportunity and hope, the flame that fuels radicalism and terror would be extinguished.

Is this a world worth dreaming about? Is this a world worth sacrificing for? Is this a world worth fighting for? In this world, people would again hold the power that democracy once promised. Corporate elites are losing their stranglehold on the flow of information and it is up to us to pick up and carry that torch. Reach out and connect to the world around you. Let us continue down the path that erodes nationalistic self-interest and promotes the self-interest of humanity. Together we can build a bold new future. But it will take vision and sacrifice. The road ahead will not be easy, but anything and everything worth having never is.

THE DEBT OF NATURE

By : Rishabh Prabhu Srivastava
B.Tech , 1st yr CS3

May I believe or may not, I
owe to the Nature,
The Morning, waking up,
gently and swiftly opening its eyes,
The air, cold and brisk,
swirling in the ground, biting the grass,
The timid dew, growing over the fence,
making it sparkle like a gem,
Thousands dreams getting broken each moment,
yet no sign of despair on the face,
The joy of a new day,
spreads smile instead on the face.

The tonnes of energy, gushing down my vein,
Hundred of aims set over my mind,
Though I didnt sleep up whole night,
But none is the sign of tireness that rules me,
I, in myself, is setting up for a new adventure.
For this may I believe or not, I
surely owe a lot to the Nature..

Be The Best You

BY : Shahzaib Khan

B.Tech , 2nd yr

We are perfectly imperfect
and beautiful within
because beauty isn?t skin deep
it?s deeper than the skin

We are who we allow ourselves to become
we get what we give, we give what we get
so give it your all
and don?t ever give up

Be the best you
be the person you want to be
just remember to be yourself
not who others want to see

This day is yours
it belongs to no one but you
put one foot in front of the other
and take a step closer
to making all your dreams come true

You are perfectly imperfect
and this is okay
because no one is flawless
no one is perfectly made

You are beautiful within
and your smile reflects
the love inside your heart
So, share a grin
and let others see who you are

Be the best you
just be who you are inside
be the person that makes you happy
and live your best life

The companion

BY : Parth Sharma , B.Tech CS2 2nd yr

Has it ever happened to you that if you are mad at someone and are unfortunately unable to do something bad to them, then you try to irritate them as much as you can?
It's a normal thing to do. I do that, you do that and everyone does that.

Harsh was standing close to the ocean in the middle of the night. His judgment was clouded and he wanted the sea to take it all away. People have advised him not to go the beach atnight, there were warning signs about the high tides. But no, he didn't care. The forbidden fruit is the sweetest. He might have been the victim of same lust that controlled the first of our kind, Eve.

Whatever the problem was, he always used to find the solution by looking at the battle of balancebetween thesand and the water, the two different states battling in harmony. The beauty that the two different things could create, if only they understand each other. This has become more like a ritual. Whenever he wanted help, he was provided by the sea. The stars, sand and water are the witness to this ritual. But today all these things weren't helping, he didn't feel like the way he wanted to. His long companion, his trustworthy accomplice couldn't do anything to help him today. He started looking around. Observing nothing and everything simultaneously.Searching for a single thing that might point him in the right direction. One step closer to the solution of a formidable problem, the problem!

He picked some stones and started hurling them towards the waves. Plop! Plop! Ripples were trying to complain about the sudden change in his ritual. He stepped into the water, splashing it around. Trying to disrupt the natural flow of the waves and perhaps the flow of his destiny.He kept on going forward shouting and hurling the stones, challenging the waves, challenging the Mother Nature herself. Suddenly he stopped. He had found the peace he was hoping for. The silent friend hadn't betrayed him after all. He shook his head and smiled. He turned around and started heading towards the civilization with a recently acquired strength. The strength which makes him feels that he is a part of something big.

Suddenly a wave came from behind and overpowered his body. He felt helpless, an invisible force was pulling him inside and there was nothing that he could do about it. When he next opened his eyes he found himself fully submerged in water. *One Two Three* Tuck. His jaw flew open and in rushed the salt water. His throat started to burn. He couldn't breathe. Why was his old companion doing this to him? Did he try to acquire the power that he couldn't possibly control?

When he opened his eyes Harsh saw himself surrounded by the group of fishermen. They were talking about him. About his luck that they were there to save him at this time of the night. After a few moments when Harsh regained his power to reason, he thanked them with all his heart. He realized how small his problem looked to him now. After doing the niceties Harsh went to look at the overbearing force that took him out without any effort. *What did I do to irk my friend so much?*

He noticed that his left shoe was missing. *Another friend who was betrayed today*
He took out his right shoe and threw it in the ocean.
The next wave brought his left shoe back!

The BYTE

Q & A

COMPUTER TROUBLESHOOTING

Troubleshooting Common Computer Problems

Troubleshooting is the process of figuring out how to solve a computer problem. Even with the most updated software and hardware, occasionally computers can malfunction.

In order to solve a problem, you must figure out which part of the system is malfunctioning. You will need to check each component of the computer, unless it is obvious where the problem is coming from. Isolating the problem will help you solve the problem quickly. Knowing how to solve these problems with a shortcut perhaps using only a few keys on the keyboard can save time and effort.

Backing up your important computer files to another source will ensure that if your problem cannot be corrected, you will still have a safe copy of your information.

Basic Troubleshooting Steps

1. Close open programs and windows you are not currently using.

2. Make sure all of your cords are connected properly.

3. Try to repeat the sequence of commands you performed before the problem occurred. See if this causes the same response by your computer.

4. Press the F1 key to access the Help window. You can search for a solution to your problem once the Help window appears.

5. If there is an error message, record the full message for future reference.

6. Restart your computer to see if it clears the problem. To restart your computer, open the start window and select the Restart button instead of the Log Off button.

7. If restarting the computer does not clear the problem, shut down the computer and then start it back up again.

8. If the issue is still not resolved, check the common technology issues below or call your system administrator.

Common Solutions for Technology Issues

Issue: The printer is not working.

▌ Check if the printer is turned on. If not, turn it on and try again.

▌ Check if the printer has paper. If not, put paper in the paper tray and try printing again.

▌ Check if the printer has a paper jam. If so, remove the paper, close the printer, and try printing again.

▌ Ensure that all printer cables are properly connected.

▌ Turn off the printer and turn on again.

▌ Check to see if a new printer driver is needed. Do this by going to the manufacturer's website to search for your printer model and checking for any updated driver. Seek assistance from your system administrator before installing any drivers.

COMPUTER TROUBLESHOOTING

Issue: The computer is frozen. A program is not responding.

▌ Push the Ctrl, Alt, and Delete keys at the same time. Then, start the Task Manager, highlight the program's name, and hit the End Task button.

▌ Perform a hard reboot by simply pressing the on/off button to turn off the computer manually. This action should only be done as a last resort if you have an unresponsive program or critical error. This process could cause data loss or corruption.

▌ Once the computer is responding again, run a virus check.

Issue: The keyboard is not working.

▌ Make sure the keyboard is connected to the computer. If not, connect it to the computer.

▌ If you are using a wireless keyboard, try changing the batteries.

▌ If one of the keys on your keyboard gets stuck, turn the computer off and clean with a damp cloth.

▌ Use the mouse to restart the computer.

Issue: New hardware or software is working incorrectly.

▌ Verify your computer meets the requirements of the program or utility.

▌ Uninstall and install the program.

▌ There could be a conflict with another installed program and you should contact your system administrator.

Issue: The mouse is not working correctly.

▌ Check if the mouse is securely plugged into the computer. If not, plug it in completely.

▌ Check to see if the cord has been damaged. If so, the mouse may need replacing.

▌ If you are using a cordless mouse, try pushing the connection button on the underside of the mouse to reestablish a connection.

▌ Clean the mouse, especially on the bottom.

Issue: The browser's homepage suddenly changed.

▌ This is a common symptom that a virus or browser hijacker may have infected the computer.

▌ Try re-setting the home page to the default:

o In Internet Explorer:

▌ On the Tools menu, click Internet Options.

▌ Click the General tab.

▌ In the Address box, type the Web address you want for your home page.

▌ Click OK.

o In Mozilla Foxfire:

▌ Open the web site you want to set as your home page.

▌ Click the icon to the left of the web address and drag it to the Home button.

▌ Click Yes.

▌ If the home page still reverts back to the "new" page, do an Internet search using keywords that include the name of the "new" homepage and the word "virus." If there is a virus, this search may reveal more information on the virus and how it can be safely removed.

▌ Run a virus scan.

HOW TO SAVE MONEY ON INTERNET BILLS ON SMARTPHONES, COMPUTERS

Bill shock! It's becoming increasingly common with monthly internet because we have so many devices and keeping track of usage is difficult. On the flip side, the service provider may impose a fair usage policy (FUP) on your connection which forces you to buy addon packs. ET has some tips on how you can control unnecessary expenditure

SMARTPHONES

Tracking Data

Tracking usage is an important first step to save on your bills. If you know what is using data, then you can easily cut down usage of those apps or services to save money.

Moreover, you can also set data limits so that you don't cross your monthly limits.

Built in Data Monitor

Most major OS now come with a builtin data usage tracker. You can access the tracker in the settings along with details on the apps and services using your data. You can also reset the counter to start tracking from a specific day.

Onavo Count (Android and iOS)

First, you need to input details regarding your current data plan (data transfer cap and the monthly rental amount). Onavo then tracks and gives reports (daily, weekly or monthly) on data used by various apps.

My Data Manager (Android and iOS)

With this app, you can keep track of data usage (3G and WiFi) across multiple devices.

Moreover, there is also option to keep a track of data usage if your use a shared data plan with your family/friends.

COMPUTERS

Networx (Windows Only)

This free tool can be used for single as well as multiple computers connected to the same broadband connection. It sits in the system tray and monitors wired/wireless traffic in real time with a graphic/numeric display.

You can set a data limit per computer and set it to automatically disconnect if the usage exceeds that limit. Moreover, you can view and export daily, weekly or monthly usage reports.

Get it from http://softperfect.com/products/networx

MenuMeters (MAC Only)

While MenuMeters is essentially a multiutility tool for information on your MAC hardware, it is also great for keeping a tap on your network usage.

It sits on the top bar and shows real time data transfer for your connection via arrows, numeric amount or a graph. You can choose the update interval time, display only received or sent data as well as ignore values below 1kb in size.

Get it from http://ragingmenace.com/

TIPS AND TRICKS

Smartphones

1. Use WiFi for services that usually require a lot of data usage. Video chatting is one of the biggest data hogs over 3G. A 30minute video call will consume close to 300 MB of your data limit in one go. App updates can run up to several hundred MB in size. So for any heavy data usage scenario, use WiFi to save on data costs.

2. Switch to 2G/Edge connection, when you don't need highspeed connectivity on your device. Services like Whatsapp do not require highspeed connectivity. This forces other apps in the background (like weather, social networks, email etc.) to consume less data.

3. Various apps send push notifications for offers and updates by default and these push notification eat up your data to show images and links. Switch off push notifications for shopping and travel apps to save data.

4. Many free games are ad supported and rely on a data connection to load up banners or video ads. Simply disable your data connection before starting a game to save a bit more.

Computers

1. Online Gaming can consume up to 150MB data per hour depending on the game being played. Keep a tap on the data being consumed by the game using apps so that you don't exceed your FUP limit.

2. For streaming videos on YouTube or any similar site, switching to a lower quality resolution can reduce your data usage by over 50%. Videos in 480p resolution are good enough to view in full screen on most laptops.

3. Various free software programs install search bars and extensions for your browsers. These can show ads and often install malware on your computers that can eat up your data limits in the background. Perform regular scans of your computer for viruses & trojans using a good security program to stay clear of such addons.

The BYTE

DEPARTMENTAL EVENTS

Faculty Development Program

Department of Computer Science and Engineering organized a Short Term Course on "Instructional Delivery: Instructional Planning & Delivery" in collaboration with NITTTR, Chandigarh through ICT from 11th -15th May 2015 for faculty members.

The salient features of the programme are:

- Interdisciplinary
- Meet the requirements of QIP under AICTE / NBA norms
- No participation fee

The five days STC through ICT includes three sessions each daily. A brief of all the sessions are given below:

Day 1: 11-05-2015 (Monday)

Speaker: Dr. M. P. Poonia/ Dr. P.K. Tulsi

Topic: **Inaugral& Introduction to the Course**

STC started with the inaugural ceremony by Dr. M. P. Poonia, Director NITTR, Chandigarh. He talks about the importance of instructional delivery in classroom teaching. In the same sequence Dr. P.K. Tulsi, Programme Head and Coordinator, introduces the local coordinators along with the chief guest of different participating remote centers. Prof. Tulsi also give a brief about the course.

Speaker: Prof P.K.Tulsi

Topic: **Events of Instruction**

In this session Prof Tulsi talks about the Events of Instructions wherein she suggested the different ways and techniques can be used by the faculties to gain attention of the students while teaching.

Speaker: Dr. M. P. Poonia

Topic: **Management Skills**

In this session Dr. Poonia talks about the management skills and institutional leadership. He also discussed the qualities of good leader with various real time examples.

Day 2: 12-05-2015 (Tuesday)

Speaker: Prof P.K.Tulsi

Topic: **Classroom Communication**

In this session Prof. Tulsi talks about how to communicate in class, engage students while teaching so that they should not be distracted during class. She also addressed the importance of speech /voice during lecture delivery. According to mam voice should be clear and loud enough to be heard by each and every student present in class. Moreover lecture should be well prepared beforehand.

Speaker: Dr. R. K. Wats

Topic: **Creativity**

This was an interactive session wherein Dr. Wats gave some exercises for faculties attending and faculties also participated. He talks about the being creative in class during teaching.

Speaker: Dr. M. Dutta

Topic: **Integration of Media in Teaching Learning**

He talks how to make power point presentation, and its importance during teaching for the faculties even to the students. Through animations andemos the students can easily understand the topics and concepts.

Day 3: 13–05-2015 (Wednesday)

Speaker: Dr. S. P. Bedi

Topic: **Collaborative Learning**

Dr. Bedi in his talk focused on the group learning, more of group discussion which opens more paths for interactive learning.

Speaker: Dr. Sunil Dutt

Topic: **Motivating Students**

He talks about motivating students by giving various examples during teaching. According to Dr. Dutt there are two types of students smart and over smart. Smart students are the one required by industry while the over smart students are the one who generally get misguided hence these students need special attention and motivation of faculties to move on the right path.

Speaker: Prof P.K.Tulsi

Topic: **Teaching and Research**

Prof. Tulsi talks about the research methodologies including how to carry out researches along with teaching how to motivate students in research.

Day 4: 14-05-2015 (Thursday)

Speaker: Dr. M.P.Poonia/ Prof. P.K. Tulsi/Dr. S. P.Bedi/Industry Expert

Topic: **Panel Discussion**

Panel discussion, wherein they discussed about need of industry, and how to mould the student as per requirement of industry, how to fill the gap between what the students study in college and what industry demands.

Speaker: Dr. M. P. Poonia

Topic: **Sustainable Development: Role of Teacher**

Dr. Poonia talks about the sustainable development wherein he covers the topics like education system, pollution, sustainability etc . He talks about the balance between the society, economy and nature with development.

Day 5: 15-05-2015 (Friday)

Speaker: Dr. S. P. Bedi/ Dr. Sunil Dutt

Topic: **Teach Sessions**

In here two two faculties from each participating centers deliver 10-15 min lectures on technical topics. And Dr. Bedi and Dr. Dutt gave his reviews on each lecture. They not only talks about how to improve lecture delivery also pointed out the shortcoming if any.

Speaker: Prof. P.K. Tulsi

Topic: **Course Evaluation & Valedictory**

In the valedictory session of STC Prof. Tulsi thanked all the participating centers and conducted such courses in future including some more centers at large scale trough ICT.

Coordinators from IMS Engineering College were:

Mr. Vijai Singh, Assist. Prof. , CSE Department
Mr. Vikas Singh,Assist. Prof. , CSE Department
Ms. Vinita,Assist. Prof. , CSE Department

Web Coordinator
Mr. Anurag Mishra,Assist. Prof. , CSE Department

VISIT BY EMINENT ACADEMICIANS & INDUSTRY EXPERTS

PROF. (DR.) S. N. SINGH, PROFESSOR, IIT KANPUR

He talked about how the conference plays important role and helped the researchers in writing the quality research

PROF. (DR.) PHANGUNI GUPTA, DIRECTOR NITTTR KOLKATA

He talked about Latest IT Advancement, Its role and importance in various walks of life also in various other branches/areas.

His focus was mostly on security, biometrics, pattern recognition and human behavior recognition for authentication.

MR. L. V. SUBRAMANIUM IBM, INDIA

He talked about Latest Advancements in the field of cloud computing. The various applications and its services.

PROF. (DR.) EKRAM KHAN , AMU, ALIGARH

He talked about the importance of IEEE conference. He gave useful suggestions regarding writing quality research paper.

VISIT BY EMINENT ACADEMICIANS & INDUSTRY EXPERTS

PROF. (DR.) NARENDRA KOHLI, DEPT. OF COMPUTER SC. & ENGG., HBTI KANPUR

He talked about the Individual Green Computing i.e. practice of using computing resources efficiently by the individuals or computer users to save energy.

PROF. (DR.) D.K LOBIYAL, JNU DELHI

He talked about Efficient and robust wavelet based image/video coding techniques.

His area of specialization include Telecommunication and Information Systems .

PROF. (DR.) K. K. SHUKLA, IIT-BHU, INDIA

He talked about Latest Advancements in the field Artificial Intelligence. His area of specialization includes Neural

PROF. (DR.) S.A.M. RIZVI, JMI ,DELHI

He talked about the Emerging technology (GRAIN) in India's National Development. His focuses on the future of technology ie, the future of communication, Input/output, and Computing. GRAIN stands for Genetic Engineering, Robotics, Artificial Intelligence, Information Technology and Nano technology.

PROF. (DR.) D.P. VIDYARTHI, JNU, NEW DELHI

He discussed about the Research issues in cloud computing, various projects that are going on also research areas in this field.

PROF. (DR.) S. CHAKRAVERTY, NSIT, DELHI

She talked about the Nature driven heuristics for hardware and software Co-design. Firstly she focuses on the hardware and software co design i.e. exploring the design space. She also gave emphasis on learning from nature and solving the computational problems i.e., using Nature driven heuristic

Mr. Vipul Kocher, President Indian Testing Board

Importance of Software testing and its career opportunities in the testing field.

Mr. Mohnish Bakshi, Sr.Manager Indian Testing Board

He talked about CMAP fundamentals and CMAP Automation mobile testing.

VISIT BY EMINENT ACADEMICIANS & INDUSTRY EXPERTS

H.E Janice Darbari, The Counsel General of Montenegro

She spoke about the Importance of computers in various fields Emphasized on the use of technologies for the betterment of mankind Also talked about the combination of technology, science and mind that lead to the new era.

She appreciated and motivated the students for their ef-

Wassfi Hassan El Sreihin - Secretary General of African-Asian Rural Development Organization

He spoke about rural development through technologies like remote sensing, forecast etc. He also talked about innovation, knowledge and best practices.

Dr. R. K. Khandal, Vice Chancellor , UPTU

He talked about the anti-disciplinary studies importance of CSE in various fields. He highly appreciated the institute for organizing conference and welcomed the guest and the delegates.

VISIT BY CHINESE DELEGATES FROM HUNAN UNIVERSITY

A Chinese Delegation of academicians representing Hunan University from China visited IMS Engineering College Campus on 14th May 2015 to facilate Learning & Research through participation in various Academic & Professional activities including collaborative skill development programs, joint conferences, workshops, Faculty development programs, seminars etc through common exchange programs.

The Director, Prof. S.P Pandey represented IMS Engineering College in this meeting; Prof. J.P Mani, HoD, Mechanical Engineering Department and Prof. Pankaj Agarwal, HoD, Department of Computer Science & Engineering were also present during this interaction.

The members of the Chinese delegation included
- Cao Yijia, Vice President, Hunan University
- Yu Dejie ,Professor,
  College of Mechanical and Automobile Engineering, Hunan University .
- Luo Jiawei , Professor,
  College of Computer Science and Electronic Engineering, Hunan University
- Xie Jun, Director ,
  Centre of International Studies, Hunan University
- Zhou Kai , Section Head,
  Centre of International Studies, Hunan University

The

BYTE

PLACEMENT NEWZ

PLACEMENT NEWS

ICICI BANK PROBATIONARY OFFICERS RECRUITMENT - NOVEMBER 2015 & FEBRUARY 2016 BATCH

Probationary Officer Training Programme :

Probationary Officer Training Programme is an initiative of ICICI Bank to attract young talent who wish to pursue a career in banking. It is designed to develop specialists with banking knowledge and selling skills to fulfil the need of trained bankers. It is a one year training programme, conducted at ICICI Manipal Academy, Bengaluru.

Since its inception in 2007 more than 10,000 students have joined the Bank after undergoing the training at the ICICI Manipal Academy, Bengaluru.

Salient Features of Probationary Officer Training Programme:

- The training has a blended curriculum with instructor led classroom sessions, e-learning and internship at ICICI Bank branches/offices.

  - The training imparts knowledge and skills in core banking (banking products, banking operations, channels and customers, receipts and payments, etc). The trainees will have the opportunity to specialize in one of the following areas in banking:

    i) Trade Finance
    ii) Privilege Banking
    iii) Rural Inclusive Banking
    iv) Retail Banking

v) Any other Profile as decided by ICICI Bank.

- The participants are put through a very rigorous training with special emphasis on application of knowledge and overall development of personality.

- The classroom sessions (7 months) are conducted at the ICICI Manipal Academy and internship (5 months) at any ICICI Bank branch or office (within India).

- The Probationary Officers are paid stipend to meet the out of pocket expenses.

- The Probationary Officers will get an assured employment with ICICI Bank on successful completion of the Probationary Officer Training Programme.

The faculty is comprised of experienced professionals in the domain of banking and finance and behavioral sciences. There is a special focus on the overall grooming of the individuals and that is further facilitated through a learning environment that is created through lectures delivered by experts from ICICI Bank and the banking industry.

Selection Process

The selection process for Probationary Officer will consists of :
- Online Aptitude test
- Online Psychometric Assessment
- Case-based Group Discussion (GD)
- Personal Interview (PI)
- Merit List

The GD and the PI (only for applicants who successfully clear the GD) will be concluded on the same day.

To apply logon to :

www.icicicareers.com

Fees of the Training Programme

The Probationary Officer Training Programme is a cashless bridge to managerial jobs for aspiring students. To pursue the Probationary Officer Training Programme, the interested students will have to invest Rs.3.37 lakh (The course fee is 3 lakh. Along with the applicable service tax at the current rate of 12.36%, the total amount to be paid is 3.37 lakh). However, during repayment of the loan, the prevalent service tax rates will apply) which would be provided by ICICI Bank as a loan at a subsidized interest rate of 2.5%. p.a. This is the fee for the first phase of the PGDB programme. The fee for Phase II is an additional amount of 1.5 lakh. This will be paid by students who opt for this phase. After completion of the Training Programme, the Probationary Officers will be absorbed as Deputy Manager in the Bank. The loan is to be repaid by Probationary Officers in equated monthly installment (EMI) after joining the Bank. There would be no recovery of EMI or interest during the training and internship period, the interest accrued during this period would be recovered along with the normal EMI. The EMI is spread over a period of 60 months to ensure that there is minimal impact in the monthly earnings of the Probationary Officer.

However, if the applicant leaves during training or within five years of joining ICICI Bank after training, ICICI Bank would recover the principal and the interest at MARKET rate on the entire loan amount for the period that the amount was given as a loan to the Probationary Officer.

Eligibility Criteria
- Those who have completed graduation with 55% (Aggregate) marks in any discipline.

Up to 25 years of age as on 30th June 2015 (should have been born on or after 30th June 1990).
- Only shortlisted applicants will be invited for the selection process.

INDIAN ARMY JOBS FOR PERMANENT COMMISSION/ SHORT SERVICE COMMISSION IN ANYWHERE IN INDIA

Indian Army jobs for Permanent Commission/ Short Service Commission in Anywhere in India. Last Date to apply: 09 Jul 2015

Permanent Commission/ Short Service Commission

Eligibility : BE/B.Tech

Location : Anywhere in India

Last Date : 09 Jul 2015

Hiring Process : Face to Face Interview

Indian Army - Job Details

Permanent Commission/ Short Service Commission Jobs recruitment in Indian Army

Indian Army invites applications through Recruiting Directorate for the following entries : -

Permanent Commission

Course : Technical Graduate Course (TGC-122)

Qualification : BE/ B.Tech

Age Limit : 20 to 27 Yrs

Course commencing in January 2016.

Short Service Commission (SSC)

Course : 46th Short Service Commission (Technical)

Qualification : BE/ B.Tech

Age Limit : 20 to 27 Yrs

Course commencing in April 2016.

How to apply

Apply **online** only. **Online** application will open on **10 June 2015 at 1000 hrs and closed on 09 July 2015 at 1700 hrs.** Registration for online application through website. For eligibility conditions, terms and conditions, and other details, see Employment News/ Rozgar Samachar issue of **06 June 2015.**

Bulletin Today: Current Affairs May

Renowned scientist Selvin Christopher appointed as DG of DRDO

Eminent scientist Dr. Selvin Christopher has been appointed as the Director General (DG) of Defence Research and Development Organisation (DRDO) along with the rank of a secretary. As a DG of DRDO, he will also severe as Secretary at Department of Defence Research and Development (DDR&D) for a period of 2 years from the date of taking over the charge.

India tops in World Hunger List with 194 Million People: UN Report

According to recently released United Nations (UN) annual hunger report titled The State of Food Insecurity in the World 2015, India was placed at top in the World Hunger list. The report has mentioned that India is home to the highest number of hungry people in the world with around 194 million people, surpassing China. The report was published by UN subsidiary body Food and Agriculture Organization (FAO).

Abhinav Bindra becomes 4th Indian shooter to qualify for 2016 Rio Olympics

Abhinav Bindra has become the fourth Indian shooter to win a quota place for the 2016 Rio Olympics. He got qualified to 2016 Olympics after finishing sixth in the Men's 10 metre Air Rifle final at the International Shooting Sport Federation (ISSF) Shooting World Cup held in Munich, Germany. Bindra in the final round of this event had shot a score of 122.4 and overall had shot 627.5 to qualify for the final. It will be his fifth consecutive Olympic Games.

DD Kisan, India's first television channel dedicated to farmers launched by PM Narendra Modi

Prime Minister Narendra Modi on 26 May 2015 launched India's first television channel DD Kisan dedicated to farmers in New Delhi. The 24X7 channel is owned by public service broadcaster Doordarshan (DD) and is dedicated to agriculture and allied sectors.

Antarctic ice loss altering earth's gravity: Study

A new scientific study has found that a sudden and massive ice loss in a previously stable region of Antarctica is causing small changes in the gravitational field of the Earth. This study was led by Dr Bert Wouters, a Marie Curie Fellow at the University of Bristol, England and was recently published in Science Journal.

Mumbai Indians defeat Chennai Super Kings to win IPL 2015 for second time

Mumbai Indians (MI) on 24 May 2015 won the eight edition of Indian Premier League (IPL) 2015 by defeating Chennai Super Kings (CSK). In the final match played at Eden Gardens, Kolkata they defeated CSK by 41 runs. CSK had won the toss in final summit had chosen bowl first. MI by batting first had set the target of 202 to their opponent team. However the CSK failed to reach the target score.

Tanishq Abraham, 11-year-old Indian-American creates record by graduating from California College

Tanishq Abraham, 11-year-old Indian-American child prodigy created a record by graduating from California College with three associate degrees in science, maths and foreign language studies. He is native of Sacramento, California and youngest to graduate from the American River College (ARC), in Sacramento, California.

Jayalalithaa sworn-in as Chief Minister of Tamil Nadu for fifth time

Jayalalithaa was sworn in as the Chief Minister of Tamil Nadu for the fifth time on 23 May 2015. Governor K. Rosaiah administered the oath of office and secrecy to her at oath taking ceremony held at Centenary Auditorium of the University of Madras in Chennai. With this, Jayalalithaa became 29th chief minister of Tamil Nadu for record fifth time which matches the record of former state CM and DMK leader M Karunanidhi.

Yamuna Expressway becomes India's first road runway after IAF Mirage 2000 jet successfully lands

Yamuna Expressway in Uttar Pradesh had become India's first road runway after Indian Air Force (IAF) Mirage 2000 fighter jet successfully landed as part of trials to use national highways for emergency landing. The first of its kind initiative in India's aviation history took place on Yamuna Expressway near Mathura with active support from Uttar Pradesh government, Yamuna Expressway Authority. It should be noted that Yamuna Expressway is the longest Greenfield expressway in the country.

President Pranab Mukherjee inaugurates 50th anniversary of India's first historic climb of Mt. Everest in 1965

President Pranab Mukherjee inaugurated the 50th Anniversary of India's first historic climb of Mt. Everest in 1965 at a function held at Rashtrapati Bhavan. This function was organized by the Indian Mountaineering Foundation (IMF) to celebrate the historic climb of Mt. Everest in 1965 by an Indian team led by Captain Mohan Singh Kohli.

On this day in 1965, Indian team of 21 mountaineers led by Captain M S Kohli of Indian Navy had successfully climbed world's highest peak Mt. Everest (8848 m) after a series of three unsuccessful attempts in five years.

UN adopts resolution to strengthen relief efforts in earthquake hit Nepal

United Nations (UN) has adopted a resolution in order to call attention of international community to urgently assist Nepal and help rebuild the country after it was hit by devastating earthquake. The resolution was led by India and was co-sponsored by 65 other nations including Bangladesh, Afghanistan, Australia, Japan, China, Germany, Sri Lanka, Nepal, Pakistan UK and the US.

Satish Reddy appointed as Chairman of National Safety Council

Union Ministry of Labour and Employment has appointed K Satish Reddy as the chairman of the National Safety Council (NSC). He will succeed Venu Srinivasan, who was appointed in July 2011. As the chairman of the NSC, Mr. Reddy will oversee its functioning to generate and develop initiatives on Safety, Health and Environment at the national level. Presently, he is Chairman of Dr Reddy's Laboratories Limited.

Union Government inked 12 MoUs with other nations on renewable energy in past three years

To enhance cooperation in the RENEWABLE ENERGY sector, Union Ministry of New and Renewable Energy has signed memorandum of understanding (MoU) with 12 countries in past 3 years. It was announced by Union Minister of Power, Coal and Renewable Energy Piyush Goyal in a written reply to the Lok Sabha. In addition to these 12 MoUs, a letter of intend and joint declaration of intend were also signed with Egypt and Germany for this sector.

Parliament passes Constitution (119th Amendment) Bill, 2013

On 7th May 2015, the parliament of India has passed the 119th constitutional amendment bill 2013, which now after the assent of the President will enter in to the statue book [as Constitution 100th Amendment Act 2015].

BHEL commissions Bijlee Utpadan's 195-MW thermal unit in Bihar

State-owned electrical equipment maker Bharat Heavy Electricals (BHEL) has commissioned a 195-MW thermal unit in Muzzafarpur district in Bihar. The commissioned thermal unit is the first of the two 195-MW units to be commissioned by BHEL at the thermal power plant of Kanti Bijlee Utpadan Nigam (KBUNL). KBUNL is a joint venture (JV) of NTPC and Bihar State Power Generation Company (BSPGCL).

May 03: World Press Freedom day

World Press Freedom Day is observed on 3 May every year across the world. The theme of 2015 year is: Let Journalism Thrive! Towards better reporting, gender equality and media safety in the digital age. Observing this day marks an opportunity to: Celebrate the fundamental principles to evaluate press freedom. Assess the state of freedom of press throughout the world. Defend the media from attacks on their independence. Pay tribute to journalists who have lost their lives in the exercise of their profession.

Current Affairs - May 2015 Indira Gandhi International Airport adjudged world's best airport

Delhi's Indira Gandhi International Airport (IGIA) has been adjudged the world's best airport for the year 2014. In this regard, Airports Council International (ACI) presented the Airport Service Quality (ASQ) award to IGIA under the category of handling 25 to 40 million passengers per annum. IGIA had scored 4.90 on a scale of 5 points measured by 300 members of the ACI ASQ benchmarking programme. It should be noted that, IGIA has bettered its ranking from second position for three consecutive years 2011, 2012 and 2013 to emerge on top in 2014. Airport Service Quality (ASQ) is the key to understanding how to increase passenger satisfaction and improve business performance. While the ACI is a trade association of the world's airports and was founded in 1991.

THE BYTE

THE BYTE TEAM

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FROM THE EDITORS DESK......

AMIT KR. GAUTAM,
FACULTY,CSE

LIPIKA GOEL
FACULTY, CSE

Dear Readers,

It gives us great pride to present to you all the ninth edition of our departmental magazine, THE BYTE. It is good to see that students have utilized this opportunity and showcased their talent.

THE BYTE is not only a literary outlet but is means to capture and commemorate the technical ,placement , current news & excitement that we have had at IMSEC and specifically in our department during the course of this month. The magazine is all about students from all over the CSE department coming together as a team.

Our deepest gratitude goes to every individual who guided us throughout this wonderful journey. We would also like to thank our entire team who work diligently every step of the way to ensure that THE BYTE becomes a reality. We hope, that you, or reader have delightful experience perusing through every page and would greatly appreciate your feedback.

..........From the Editors