



"At its core, bravado is insecure, jealous and self-protecting..."

Legitimate talent recognizes its own innate riches and does not object to sharing."

"We are what we repeatedly do..."

Excellence, then, is not an act but a habit."



THE APEXIAN

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A Vote for Social Networking

Social networking is the new mantra – both for the young and the old. Tools such as Facebook, Orkut, and Twitter have revolutionized our reach and social activities. We are no longer confined to the brick and mortar world of select buddies but extend to the virtual domain of online friends. The rapid growth on social networking has been due to the fulfillment of our hunger for companionship and interest groups. The jasmine revolutions in Tunisia and Egypt have been led by youth who used social networking sites to further their political interests and to overthrow tyrant dictators in their own countries. In the light of our recent experiences, who could have predicted that power no longer resides in the barrel of the gun (quote from the Red Book, Mao Zse Dong, China) but power resides in the access to internet. It is therefore no wonder that the movie, The Social Network, which is loosely based on the life of the founder of Facebook Mark Zuckerberg got 8 nominations for the Academy Awards.

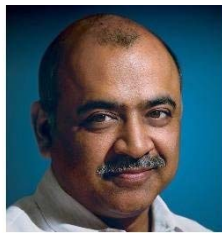
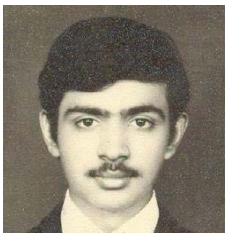


How has our lives been transformed through this new medium, which is famously being referred to as the era of Internet 2.0.? Will social relations or education or our lives change substantially through these new mediums? In good old days, gossip or adda was the norm among engineering students particularly those who hung out in hostel canteens and dhabas. The same has been replaced by orkutting or facebooking. Making new friends has never been so sanitary – just send a friend request: a yes or no to your request is of little consequence. The more the friends you have, the more popular you are deemed to be. Gone are the days of hurt of a refusal to the extended hand of friendship. If X doesn't become your friend, Y will. The whole world is your stage! Physical location is immaterial- it is hilarious that two classmates might be in the same class but their friendship is restricted to Facebook pals only. Whether such extended definitions of friendship are of any value, is a moot question to be answered by each individual.

At a personal level, our lives have been enriched by the advent of such social networking. We can network with great personalities, followed them on Twitter to know their thoughts 24/7 as the events unfold. However what great damage can be done by the reckless 140 characters can be imagined if only one were to ask Shashi Tharoor who lost his Cabinet post because of some improper tweeting! Nevertheless, the pluses far outweigh the minuses. My own experience has been wonderful: long lost friends, school teachers, college reunions, and much more, has added the extra zing to my life. As we

get older (read mature) we need these tools much more than any 18 year old who uses them primarily out of peer pressure. As far as politics goes – this has helped me to connect with friends who are fighting for many social causes such as Right to Information, Freedom of Speech, Fight against Corruption and other humanitarian issues. As far their utility in education is concerned I am yet to see any exciting application. Far too many enthusiasts are making a hype of its utility in education but I hope critics do prove me wrong in the near future.

See these THEN & NOW photos of my closest friends from 25 years back and how they look today – Isn't Facebook great!



THEN

NOW



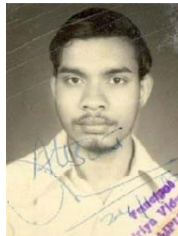
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**Prof. Sangram Mudali,
Managing Trustee**

Career Building at Technical Institutes

The focus of this article is primarily on the career building aspect of the engineering students. Students who are planning to become engineers should have all their career options chalked out. Of course, the first choice is to go for a job. There is a huge demand for engineers in the IT sector, where engineers from all branches are being recruited. But students should get ready for the selection process. First of all, there is minimum cut off percentage, which, most of the time, is 60%. Then there is a written test that consists of analytical ability, quantitative ability, verbal skills and problem solving. Tough as it is, every student should prepare for the written test thoroughly. Verbal ability is the main weakness for many students. Hence it is recommended that the students should give a lot of time and attention for improving their communication and verbal skills. Some companies also test the students for group discussion skills by having rounds of group discussion. After the written test, there are two rounds of interviews – the Technical interview and the HR interview.



For getting through the interviews the students try to master their interview skills. Interview skills are based on the hard skills and the soft skills of the students. Hard skills refer to one's education and career experiences – essentially the resume of every individual. Hard skills are academic and practical skills that the students acquire in the institute. Soft skills cannot be measured and they can be described as leadership skills, motivational skills, presentation skills, interpersonal skills, team work, attitude awareness, interview skills, group discussion skills and Communication skills. These are the skills that every student must have for a good job and a good profession. These are also the skills that every company is looking for during Campus Placements. At Apex, students are being trained in these skills through Pre-Placement Training classes.

Besides job, students can go for higher education such as MBA, M.Tech., MS in USA. For preparing for MBA one has to give entrance exam such as XAT, MAT and CAT and other exams. For preparing for M. Tech., GATE (Graduate Aptitude Test for Engineers) is required. For preparation for MS abroad, TOEFL and GRE are a necessity. In today's competitive world higher education is very important and will prove to be very beneficial in long term development and growth of every student. Hence, I recommend every student to go for a post graduate degree in the area of choice.

**Prof. Geetika Mudali,
Placement Director**

Innovation

During 80's & 90's whenever managers and shareholders talked about mergers & strategic decisions they would justify everything with the word synergy. Synergies! Well guess what now another word under their belt, innovation. Innovation, of late, has become the mantra for success & survival of the organizations. Innovation refers to incremental, radical changes in thinking, products, processes and organizations. In today's world, competition has become so tough that among individuals and organizations, only the fittest can survive.



Invention & Innovation- Innovation refers to new concepts or products derived from an individual's ideas or from scientific research, while an invention is the practical application or commercialization of a new idea or concept (it could be an invention) into something of value in the market place whether it is a new product, process or organizational system. The creation or development of the invention alone does not translate into innovation. The invention must create value for it to become a successful innovation. We find that inventions that are patented do not result in successful innovations in the market, in society, in the community or in an organization.

Both invention and innovation begin with a creative process. A curious and open mind that identifies an opportunity or makes a discovery is the basis of developing an invention or an innovation. Inventors such as Leonardo da Vinci & Shunpei Yamazaki have created a number of new inventions; only a percentage of these have been successfully commercialized. Leonardo da Vinci was a great inventor but none of his inventions (parachute, personal flying wing, military tank) was commercialized. It can be mentioned that iPod is an innovation rather than an invention because it includes an operating system, pleasing aesthetics and a link to the on-line iTunes software. The original MP3 players, however, were simply inventions.

Sources of Innovation- There are several sources of innovation. The traditionally recognized source is the manufacturer innovation. This is where an agent (person or business) innovates in order to sell the innovation. Another source is the end-user innovation. This is where an agent (person or company) develops an innovation for their own (personal or in-house) use because existing products do not meet their needs.

Innovation by business is achieved in many ways, the important one being research & development for "break-through innovations." Other method of innovation is through formal on-the-job modifications of practice, through exchange and combination of professional experience and many other routes.

Regarding user innovation, a great deal of innovation is done by those actually implementing technologies and products as part of their normal activities. Sometimes user innovators become entrepreneurs. Innovation does not just happen within the industrial supply- side, or as a result of user demand, but through a complex set of processes that links many different payers together not only developers and users, but a wide variety of intermediary organizations such as consultancies, standards bodies etc.

Value of Experimentation- When an innovative idea requires a new business model, or radically redesigns the delivery of value to focus on the customer, a real world experimentation approach increases the chances of market success. New business models and customer experiences cannot be tested through traditional market research methods. Pilot programs for new innovation tend to increase the cost of failure. In recent years, considerable progress has been made in identifying key factors/principles or variables that affect the probability of success in innovations.

Stefan Thomke, of Harvard Business School, outlines six principles that organizations can follow to unlock their innovative potential.

1. Anticipate and exploit early information through processes.
2. Experiment frequently.
3. Integrate new and traditional technologies.
4. Organize for rapid experimentation.
5. Fail early and often but avoid “mistakes”.
6. Manage projects as experiments.

Diffusion: Once innovation occurs, it may be spread from the innovator to other individuals and groups. This process, termed as life cycle, can be described by s-curve or diffusion curve. The s-curve maps the growth of revenue or productivity against time. The s-curve derives from an assumption that the new products are likely to have “product life”, the start-up life, a rapid increase in revenue and eventual decline.

Goals: Programs of organizational innovation are typically linked to organizational goals and objectives, to the business plan and to the market competitive positioning. One driver for innovation programs is to achieve growth objectives.

It is said that companies cannot grow through cost reduction and reengineering alone. Innovation is the key element in providing aggressive top-line growth, and for increasing bottom-line results.

In general, business organizations spend a significant amount of their turnover on innovation such as making changes to their established products, processes and services. The amount of investment can vary from as low as a half percent of turnover for organizations with a low rate of change to anything over twenty percent for organizations with a high rate of change.

The average investment across all types of organizations is four percent. This budget is typically spread across various functions such as marketing, market design, information systems, manufacturing systems and quality assurance. Organizational innovations are frequently driven by, improved quality, creation of new markets, extension of product range, reduced labor cost, improved production process, reduced materials, reduced environmental damage, replacement of products/services, reduced energy consumption, and conformance to regulations.

Failures: Analysis of research findings indicate that 50% to 90 % of innovation projects have made little or no contribution to organizational goals. One survey on product innovation results indicates that out of 3000 ideas for new products only one becomes a success in the market place. Causes of failures in cultural infrastructure are poor leadership, poor organization, poor communication, poor empowerment, and poor knowledge management. Common causes of failures in the innovation process are poor goal definition, poor alignment of actions to goals, poor participation in teams, poor monitoring of results, and poor communication and access to information.

Measures: There are two fundamentally different types of measures for innovation: the organizational level and the political level. The measurement of innovation at the organizational level relates to individuals, team-level assessments, and private companies from the smallest to the largest. Corporate measurements are generally structured around balanced score cards which cover several aspects of innovation such as business measures related to finances, innovation process efficiency, employees contribution and motivation and benefits for customers. Measured values will vary widely between businesses, covering for example new product, revenue, spending in R &D, time to market, customer & employee perception & satisfaction, number of patents, additional sales from past innovations.

For the political level, measures of innovations are more focusing on a country or region's competitive advantage. In this context, organizational capabilities can be evaluated through various evaluation frameworks, such as European Foundation for Quality Management. The EU Lisbon strategy has set as a goal that their average expenditure on R&D should be 3% of their GNP.

Global Innovation Index: The Global Innovation Index is a global index measuring the level of innovation of a country, produced jointly by the Boston Consulting Group (BSG), the National Association of manufacturers (NAM) and the Manufacturing Institute (MI), the NAM's nonpartisan affiliate. The Latest index was published in March, 2009. For ranking the countries, the study measured both innovation inputs and outputs. Innovation inputs included government and fiscal policy, education policy and the innovation environment. Outputs include patents, technology transfer, and other R&D results: business performance, such as labor productivity and total shareholders returns and the impact of innovation on business migration and economic growth. The following is a list of the sixteen largest countries (as measured by GDP) by the International Innovation Index.

International Innovation Index

Rank	Country	overall	Innovation Input	Innovation Outputs
1	S. Korea	2.26	1.75	2.55
2	USA	1.80	1.28	2.16
3	Japan	1.79	1.16	2.25
4	Sweden	1.64	1.25	1.88
5	Netherlands	1.55	1.40	1.55
6	Canada	1.42	1.39	1.32
7	UK	1.42	1.33	1.37
8	Germany	1.12	1.05	1.09
9	France	1.12	1.17	0.96
10	Australia	1.02	0.89	1.05
11	Spain	0.93	0.83	0.95
12	Belgium	0.86	0.85	0.79
13	China	0.73	0.07	1.32
14	Italy	0.21	0.16	0.24
15	India	0.06	0.14	-0.02
16	Russia	-0.09	-0.02	-0.16

Dr. R.C. Das
Principal



“The school was about to get over and we all were very eager to get back home and all that I could think of was the food that mother would have served by the time me and my two siblings would reach back. My elder sister and I studied in the same class and the fact that we were in school was a big deal in those days. On the way back, we had to walk for about four kilometers, most of which was either open fields or fruit orchards. No girl rode a bicycle, and of course we couldn’t find a rickshaw every day, so the best and the only alternative available to cover that distance twice daily, was by walking. The bell rung and walking out of the class we realized that it was cooler n more dark outside than it seemed to be inside. Yes, the sky looked so heavy as if it was about to droop down. Keonjhar used to be a pretty cool place then and rain in summers was not something unusual, but this evening looked a lot different and rain, if it rained, was completely unexpected. All the girls who came from the part of the village that we did travelled together and all of them, including my sister, was in a hurry to get back home. The annual day of the school was round the corner and those who participated in various programs found this time suitable and hassle free to practice and that day those who participated in the play had assembled for rehearsal. I stayed back to see it and forced a cousin of mine to stay back as well. We watched the rehearsal for five minutes and started home. Walking briskly I was enjoying the misty breeze when all of a sudden huge drops of rain started beating down on us and we ran to the nearest possible shelter. Climbing up the veranda of a thatched house we stood there for a couple of minutes before we realized that two women were staring at us from the house and waved their hands to call us inside when we saw them. We went in and sat down and saw that the house was as busy bustling with life from inside as quiet it seemed to be from outside. There were about six children who were trying to give leaves the shape of a boat and float them on water, the two women who went into the kitchen when we came, an old woman with a face like a five paisa coin- we named the house ‘the five paisa house’ after that- who kept staring at us, and a lot of things lying here and there. We had to undergo the scrutiny of the old woman who asked us a series of questions to verify our identity. The other women came with tea which we refused out of the fear of the old woman. To our shock, the old woman started shouting at them for not asking us before making tea and wasting two whole cups of it! We guessed that she is the mother-in-law of the other two and noticed that when she started shouting the children, who had been playing so long, ran into one of the rooms. Facing a situation like we never had before, we hurriedly gulped down the tea, and having both a mixed feeling of humiliation and anger and pity for the two women, we got up, thanked them, and left while it was still raining, with I promising myself to bring a whole jug full of tea and gift it to her the next day. Reaching home completely drenched, and facing an over worried mother, I forgot something that I realized a few days later when I was walking past ‘the five-paisa house’. A few days later when all of us were walking back home from school, I saw the younger of the two daughters- in-law strolling outside. It was then that I realized that even when the woman was shouting for wasting tea or when we got up to leave while it was still raining, there was concern on her face and though she said nothing that evening, she was happy to see me fine. For many evenings I saw them and though a brief exchange of smile was the only communication between us, I am sure that she understood my appreciation for her hospitality. Of course we still make fun of the two whole cups of about-to-be-wasted-later-consumed tea.”



I grew up listening to such experiences of my mother; the woman taught a lesson of one aspect of humanity for both the girls present there but I often wonder whether people like her still exist who are covertly concerned about others while they themselves are being humiliated or are in stress. Or have such people vanished as the fruit orchards and the open fields of my mother’s childhood.

Soumya Rath

Early Morning Blues.....

Aditya Narayan Ray

3rd year, BTech.

As I wandered around the place for some more thoughts, all I realized after the tedious exercise, that instead of more it turned out to be meager- nothing that I didn't know from my earlier pointless experiences with people. Now there was I in the middle of somewhere fresh from another insomniac night taking my cycle to a stroll. As I proceeded a little farther I came in vicinity of a kind of early morning crowd or should we say rush-hour. Though it was a bit chilly from last night's rain but that didn't let people mind their regular business of combining their morning walks with shopping trips across vegetable vendors who were pitching for their organic produce borrowed from mother earth.

I was about to call it quits and drift away to my place when saw something among the people. At first glance it looked like an oversized rag near a pool of water but when I approached closer it seemed like a person to me, all he was there having a contended time, while people walked down with their un-contended lives.....

There's a Third Case

Himansu Sekhar Samal

3rd year, BTech.

When someone yawns in the class, they say there are two cases. First one- you are not interested in studies. Second one- the class is boring (teacher is boring). But there is a third case- which may be a late night movie or a cricket match or proper utilization of mobile from 11pm to 6 am, but obviously not the late night studies.

The most common question which tests the perception of a person is asked by a figure having a glass and 50% water in it. They say there are two cases. First one- the glass is half empty. Second one- the glass is half filled. But there is a third case – the glass is twice bigger than it should have been.

One of my friends was looking upset and from my experience I could guess that it was a love matter. In order to clarify my curiosity I asked him, "What is the problem, man? Doesn't she love you?" "It's not like that", he replied, "I love her and she also loves me." "Then what is the problem", I asked him. He sighed and said "There is a third case here. I love her, she loves me, but we don't love each other." Even that is possible!

“What are you doing”, one student asked another. He replied, “I am not doing anything”. “Well, then you are just sitting around”. “If I were just sitting around, I would be doing something”, he replied. So you are sitting idle doesn’t necessarily mean you are not doing anything. Then what does this ‘not doing’ mean? There must be a third case of which even I am unaware of!

A feisty ride on DREAM’S tide

Aarohan Sabyabachi

3rd year, BTech..

I took the final left turn before the long straight. I could see a car by the end of it. That meant I would overtake him by a lap in some time. But when I looked into the rear view mirror, I could see the car of Sebastian Vettel; that’s when I stepped on the gas. Within few seconds I was doing 286 kmph on the straight stretch of road. I kept pushing as I neared another corner. Next I heard some instructions on the radio. It wasn’t clear but I thought I heard “This is the last lap before the pits”. As I wasn’t sure so I said “Repeat please”. I got some reply, but again extremely hazy. I concentrated on the voice. And I heard “Get up dear, its 8.20 now, we got to leave by 9.” I could barely open my eyes, but I saw my mom standing beside me.

That’s when I realized it was all a dream, nothing but a dream. But whatever it was, I loved every bit of it; driving a Ferrari F10 in the Shanghai Grand Prix, extreme speed and concentration, excruciating pain because of the G forces, adrenalin rush, every bit of it was present. It was all perfect. I then rushed through my daily chores and got ready within 25 minutes. I had been waiting only for 5 minutes, I got a bus. I and mom boarded it.

I was sitting on a chair in the portico enjoying the cool breeze, that’s when something grabbed my attention. It was a bicycle. It suddenly brought a huge smile on my face. Without giving a second thought, I took it out for a ride. I was riding it after approximately 4 years. I tentatively rode it within the house. As I gained on confidence I took it out. At first around the house, then slowly I started moving here and there. I covered almost all the roads near the house, somewhat or the other, but there was a kachha road which fascinated me a lot. It was a typically village type road- red in color, abrasive, but relatively plain. I kept following it for some time. I saw a bullock cart, and I realized that the marks on the track were because of the carts not “cars”. Three children were sitting on it and their dad driving it. It was very a pleasant view. Then there were women in veils washing clothes, kids playing with cycle tires, some throwing stones on a mango tree. All typical stuff... I smiled and kept moving.

Slowly I found things changing- less people, huge stretch of barren land, no trees. I was confused, yet I refused to retreat. I had been riding for the past 15 minutes, I felt so calm and relieved. As minutes passed I was getting tired- well that's completely normal and expected, but I felt much more tired than what I had anticipated. I gradually started feeling I belonged to this place. The barren lands turned into a fertile land, full of some crops which I couldn't recognize. Complete greenery, beautiful trees, some exceptionally beautiful birds which I had never seen earlier. Some people here and there- a very sparsely populated area. After 10 more minutes, I just looked back. I was surprised to see that my current altitude had actually risen approximately by 7 meters than what I had started off. So that solved the tiredness mystery but there was more to come. Exactly after 3 minutes, I saw a shack. I knew this place. The shack was mine, a coconut tree farm near it was mine, a bucket full of shrimps and crabs caught by me was there, a half made boat made, by me, was there, and it was my life. I could see a very old woman inside the shack. As I was entering, my eyes crossed a mirror. I saw an old man about the age of 75. Semi bald, mildly wrinkled, a white shirt and khaki trousers. It was me. I then realized the mystery of tiredness. I had been growing old by every minute spend on the bicycle ride. Right now I was at the ending phase of my life and it was just as I wanted it to be- simple and relishing. I realized who the lady was, but just as I turned towards her, some sharp and shrilling sound caused me to close my eyes. When I opened my eyes, I found the bus at a stop and some vendors shouting near my window. Gosh yet another dream! Within a span of three hours I had seen two dreams. Both were up to a great extent related to me. But then they both had no connection in between them. To be frank, I enjoyed the bicycle ride more than the Ferrari. I tried very hard to recollect how I came into these situations. I tried hard to recollect the starting of the dreams. But then, how often do we remember the beginning of a dream?

Of Stars and Tooth Fairies

Bhanu Prakash

3rd year, BTech.

I go to Bakul in the evenings. It's a really small children's library where you can volunteer and help children to read, paint and anything they would like to indulge in. There's this kid named Shabd, who comes down to the library pretty regularly. He usually comes in the evenings and draws stuff from the various sketchbooks in the library and rarely talks to anyone. One day I was sitting and working on my lappy in the same room as he and I had the logo of Bakul as my

wallpaper. He looked up, just a momentary glance at the laptop and instinctively asked “what is this ?” (pointing at the logo). I was taken aback because he never really talked to anyone much and I didn’t want to disappoint the kid. I tried explaining the Bakul logo in the simplest way I could. The Bakul logo is basically a hand in the shape of a tree (which signifies volunteerism) and eyes in the shape of fruits between the fingers (which again signifies people coming together to make a difference). I tried to put this abstract idea to him in the simplest way possible. He wore a confused look on his face and sighed “I thought it was just an apple tree.” I felt hollow and suddenly realized that I was so busy all my life trying to call a spade...a spade, all my life I have just tried to recognize and identify objects mindlessly. Things were always simple from the very beginning. It was just my point of view which complicated things I guess, and I felt, why couldn’t things be simpler without any abstract concepts attached to it? Simplicity and inquisitiveness are two traits I lost somewhere along the way.

That day I joined the party with him, with even lamer descriptions of the logo- “a giant tree with rings which defied gravity”, “burnt ping pong balls hanging from the tree”

This 3ft something, in a small room, in front of my laptop had just taught me one of the biggest lessons of my life...

Sing to me the song of the stars.

Of your galaxy dancing and laughing and laughing again.

When it feels like my dreams are so far

Sing to me of the plans that you have for me over again.

So I lay my head back down.

And I lift my hands and pray

To be only yours, I pray, to be only yours

I know now, you’re my only hope.

Do Kahaniyan...

Amiya Kumar Jena

2nd year, BTech.

A turtle family decided to go on a picnic. The turtles, being naturally slow about things, took seven years to prepare for their outing. Finally the turtle family left home looking for a suitable place. During the

second year of their journey they found a place ideal for them at last! For about six months they cleaned the area, unpacked the picnic basket, and completed the arrangements. Then they discovered they had forgotten the salt. A picnic without salt would be a disaster, they all agreed. After a lengthy discussion, the youngest turtle was chosen to retrieve the salt from home. Although he was the fastest of the slow moving turtles, the little turtle whined, cried, and wobbled in his shell. He agreed to go on one condition: that no one would eat until he returned. The family consented and the little turtle left. Three years passed and the little turtle had not returned. Five years...six years... then on the seventh year of his absence, the oldest turtle could no longer contain his hunger. He announced that he was going to eat and began to un-wrap a sandwich. At that point the little turtle suddenly popped out from behind a tree shouting, "See! I knew you wouldn't wait. Now I am not going to go get the salt."

Some of us waste our time waiting for people to live up to our expectations. We are so concerned about what others are doing that we do not do anything ourselves.

Once upon a time a big monk and a little monk were traveling together. They came to the bank of a river and found the bridge was damaged. They had to wade across the river. There was a pretty lady who was stuck at the damaged bridge and couldn't cross the river. The big monk offered to carry her across the river on his back. The lady accepted. The little monk was shocked by the move of the big monk. "How can big brother carry a lady when we are supposed to avoid all intimacy with females?" thought the little monk. But he kept quiet. The big monk carried the lady across the river and the small monk followed unhappily. When they crossed the river, the big monk let the lady down and they parted ways with her. All along the way for several miles, the little monk was very unhappy with the act of the big monk. He was making up all kinds of accusations about big monk in his head. This got him madder and madder.

But he still kept quiet. And the big monk had no inclination to explain his situation. Finally, at a rest point, many hours later, the little monk could not stand it any further; he burst out angrily at the big monk, "How can you claim yourself a devout monk, when you seize the first opportunity to touch a female, especially when she is very pretty?" All your teachings to me make you a big hypocrite. The big monk looked surprised and said, "I had put down the pretty lady at the river bank many hours ago, how come you are still carrying her along?"

We encounter many unpleasant things in our life, they irritate us and they make us angry. Sometimes, they cause us a lot of hurt; sometimes they cause us to be bitter or jealous... But like the

little monk, we are not willing to let them go away. We keep on carrying the baggage of the 'pretty lady' with us. We let them keep on coming back to hurt us, make us angry, make us bitter and cause us a lot of agony. Why? Simply because we are not willing to put down or let go of the baggage of the 'pretty lady'. We should let go of the pretty lady immediately after crossing the river. This will immediately remove all our agonies. There is no need to be further hurt by the unpleasant event after it is over.

Remembering Anne Frank

Sayantani Biswas
3rd year, BTech..

The years 1939-1945 marked the course of the most widespread war in history of all humanity-the World War II- the outcome of which left millions dead and even more suffering. One among those millions who witnessed it was Anne Frank, a Jewish teenager, who recorded some of her war time experiences as diary entries which was later published under the name 'The Diary of a Young Girl.'

Born on 12th June 1929, Frankfurt, Germany, Anne lived comfortably with her parents and elder sister, Margot. The first entry to her diary dates back to 12th June 1942 when the Nazis took the Jews to the concentration camps-where about 6 million Jews were mass murdered, the period being termed as "The Holocaust". The Frank family was forced to shift, concerning to security, to a hiding 'the secret annex' in her father's Amsterdam office warehouse. Spending those 2 years of her life in the hiding with 7 other Jews, before they got caught, Anne wrote in her diary an account of her everyday life, her wishes, dreams, desires and relationships with various people in the hiding.

Addressing her diary as 'kitty', Anne shares the terror of war, accounts of firing almost every night, the precautions they take at every step for not getting discovered, and the help they received in the hiding from a few trusted friends. She writes about her wishes 'after the war', where among them was a desire to become a journalist or a writer. Anne's diary reveals her personality as she matures and perception about the people and situations around her. The last entry to Anne's diary was on 1st august 1944. She died in Bergen-Belsen concentration camp from typhoid without knowing how wonderfully her dream would come true. Her insight and exceptionally simple writing makes 'The Diary of a Young Girl' one of the most sought after books even decades after the war.

The diary survived the war and the only survivor from the hiding, Anne's father, published the diary. It was first published under the title *Het Achterhuis: Dagboekbrieven van 12 Juni 1942 – 1 Augustus 1944* (The Annex: diary notes from 12 June 1942 – 1 August 1944). It was also made into a movie, *The Diary of Anne Frank*, in the year 1959, which won three Oscars, and a Pulitzer Prize winning play of the same name.

The Subconscious Mind

Suranjika Sahu

3rd year, BTech.

“Whatever the mind can conceive and believe, it can achieve.” The quotation from Napoleon Hill could not have been put any better and could not have been any more accurate. For those of you who have not heard of Napoleon, he was one of the early teachers of the power of the mind.

The basic principle is that whatever our mind can imagine it can create. How does it do this? What our mind thinks, sees, believes, and feels is all sent to your subconscious mind- its great partner. Our Subconscious then works with the universe and creates your reality based on the messages that began in our mind. But it's not enough to simply imagine it and then hope it happens. That's not the way mind power works. If we can imagine it we, can achieve it- but we need to know how to use the power of your mind. Even Napoleon tells you this in each of his books- but he doesn't tell you how to use the whole of your mind power.

Our mind and subconscious mind can create wonderful things for us — if we know how to use it and how to send the right messages to our subconscious. Doctors now firmly believe that 75% of all sickness and disease start in the mind. Scientists have long said that we only use 10% of our mind. 10%! That's it! Think of going through life spending only 10% of your salary; can anyone do it? No! Yet we go through life only using 10% of our mind. And to top it all this 10% is creating 75% of all sickness because we don't even know how to use it properly.

In order to 'create' the things we want in life we must first take control of our mind. It doesn't matter what else we do. If we don't learn to work with our mind nothing else will work. Nothing is meant to be and nothing is written. You create everything. We do this with the power of our mind that we don't know how to use! Would you drive a car if you didn't know how to drive? No. You would have someone teach you. Why then would you try to use the power of your mind when you don't know how to use it? Yet you do it every day and you get the results that you don't want. If you want to change your life and if you want to use your mind correctly and utilize all its power, only then you need the Creating Power System and it is possible only with the help of subconscious mind.

Chemical Analysis of a Back Bencher

Prashant Kumar
1st year, BTech.

Symbol = 36

Atomic number = 420

Atomic mass = not found yet

Preparation

Back chairs + student back benches,

Relative density – heavier than his classmates

Occurrence

1. On back chairs of class room.
2. Front row of cinema hall.

Physical properties

1. Look like filmy hero.
2. Wear clothes of latest fashion.
3. Generally busy in disturbing his class.
4. Sleep in classes.
5. Physically present, mentally absent.

Chemical Properties

1. Always busy fighting.
2. Extremely sensitive to movies.
3. Teacher's words have no effect.
4. Has poor result.

Uses

A good consumer of parent's money.

A Festival to Remember!

Subhrajyoti Pradhan
3rd year, BTech.

On 14th of February 2011, I, along with my few friends, went to KIIT (Kalinga Institute of Technology and Management). Well, since 14th of Feb signifies Valentine's Day, it didn't mean we went to celebrate

it out there. Actually, every year on this day, KIIT organizes its annual Tech-fest and we went there to participate in it.

For those of you who are unaware of what a 'Tech-fest' is, let me simplify it a bit. A 'Tech-fest' is the abbreviated form of 'Technical-Festival'. It's an annual festival, held in most of the recognized colleges of India, to foster technical talents by organizing cluster of competitions.

So, on the auspicious day of 14th (mind my humor), we all rendezvoused at the front gate of Kushabhadra Campus (one of the campuses of KIIT) and registered ourselves instantly. We were provided with a kit that contained all the materials that may be required during the fest, along with a sparkling T-shirt! While reviewing the list of Competitions, I was taken aback, because the competitions, which I would have opted for, were to be conducted during the next couple of days. Nevertheless, I chose to encourage my friends in the competitions they participated in. So, the first competition which happened was 'Karmayudh- way to hell'. Those who are familiar with 'Roadies-highway to hell' (a popular TV show), might not need any explanation. It dealt with the characteristic traits of human like: truthfulness, honesty, guts, audacity, etc. In a nutshell, the candidates who had killer instinct would take it all. As far as my friends were concerned, none possessed such instincts. But, still they thought to give it a try. And, they got through to the next round as well. But, that round posed the real challenge. It was a 'Personal Interview' round, where candidates were siphoned off of all their dignity in a matter of time. So to avoid the trouble of getting through all this, they decided to quit. Right were they, because the candidates who came out of the interview were literally perspiring! Apart from that, there were many events like: Ground Zero (Valentine's Day Special), Ghost Riders, etc. But, we skipped them all due to one or the other reasons. So, now since none of us had any competitions that day, we passed the time by clicking some exquisite photos of the Campus and ourselves. After spending apt time, we rode back home.

Next day, on 15th, we arrived, with enough zeal and positive energy tingling through our veins. We all decided to participate in as much competitions as we can. So, we started off with 'Chakravyuh', which dealt with candidate's reasoning, GK and IQ. Then, we went for 'C-Coding', which dealt with candidate's programming skills in C language. Then we went for 'Tales of Crypt', which dealt with 'Ciphers'. In the midst of competition, we got a call that, me and one of my friend were selected in finals of 'C-Coding' and another one of us got through the finals of Chakravyuh. Our joy went leaps and bounds to have achieved such a feat. So, we went for the finals of C-Coding. But, since we were not at par with the programs, we were not able to win. Nevertheless, we were happy to have come so far, and shrugged off the

disappointment, but yet silently vowed to remove our shortcomings. After all hustle-tussles of the day, we expected some refreshments to soothe our saturated mind. Lucky were we, since we got more than what we expected because, in the evening, we were treated with a majestic performance from the famous Indian band- 'Them Clones'. Their awe inspiring songs, made every bones in our body to shake their positions. The whole body seemed to be moving like the actor Jim Carrey. After this wholesome treat, we went home happily.

On the final day, 16th Feb, we followed the same routine of participating in competitions like: General Quiz, Business Quiz, etc. As I said, one of us had finals of Chakravayuh; he went on to become the only outsider in the whole lot of selected finalists (all others were from KIIT). But, He came 4th in the competition, as he missed by a narrow margin of 2 points from the 3rd positioned candidate. That was a close call of course! After that, we saw the 'Holocaust', which comprised of the performances from some famous College bands. After enjoying their fabulous compositions, we left home with many unforgettable moments packed up our sleeves.

By and large, this was a very unique and mesmerizing experience for me for multiple reasons; First, because I learned that a 'tech-fest' is not just another festival around the corner, but it's a place for 'college integration'; not just a place for fun and frolic, but also for exhibiting one's talent and skills. And above all, we all were able to carve a niche of APEX in the hearts of all KIITians!!

Law of Attraction– how we apply it in our lives

Ankita Sahoo
2nd year, BTech.

You might have come across people who acquired massive wealth, fame, etc, lost it all & within a period of time had it back into their lives. Why does it happen this way? The very answer to this question is one's thoughts; the dominant thoughts. Independent of whether they are good or bad, the most overpowering thoughts are put in action. In the first instance, the thoughts were of wealth, abundance & how to acquire it. In the second part, when wealth was acquired fearful thoughts of losing wealth crept into the mind & thus wealth was lost. Once the riches were gone, thoughts of fear disappeared along with it. Instead thoughts of possessing wealth filled the mind. Hence after some time wealth accumulated.

But now the big Q is how do thoughts influence the daily outcomes of our life? Is there a link between them? Indeed & this is the 'law of attraction' which guides us; the infinite power which binds us all together. In fact, everything that come in our life, we are actually attracting it in our lives by virtue of the images we hold in our minds.

In short, every thought in the long run, has a real existence. Every single moment & every single experience of our life is determined by the law. Have you ever thought about the times when you have been sad & depressed about something? And, the more you ponder on the situation, the more depressing thoughts & past events conquer your mind. This is actually where the law is being put into use & as the law says like attracts like. More similar unhappy thoughts pounce on you & the situation seems to have become worse in a few minutes.

Summing it up, every one of us is a human transmission tower, & the pictures we receive from the transmission tower, & the pictures we receive from the transmission of our thoughts, are not on the television screen in the living room but those the pictures of our life! the frequency created by the thoughts, attract like thoughts on that frequency & broadcast it back to us as life pictures, no matter good or bad, sad or happy. If there was anything that we wanted to change in our lives, we just need to change the frequency of our thoughts.

So let's have good and happy thoughts for an illuminating future!

Generation Gap

Swati

2nd year, BTech.

Often we hear of the generation gap- that huge expanse between parent and child. Perhaps it is an acquaintance gap. Young people and adults do not know each other. The inability to communicate often enters the picture. Sometimes it is because neither knows what the other is interested in. They live under the same roof, but they rarely see one another, especially after the teenage years come along. The father goes off to work before the children are awake. Mother may go back to bed after seeing the husband off to work; or off to her own job. Teenagers get themselves up and off to school without seeing either parent. Then after school there is ball practice, band practice, or something else that consumes their time; maybe a job that lasts until bedtime. Parents have things that tie them up in the evenings; so the days come and go, and there is precious little time spent together. A meal together is even a rare occasion. All of these activities may be wholesome and proper, but still the family suffers because there is so little time spent together.

This causes many children to make too many decisions on their own, and so often they will leave important and crucial matters out of their thoughts and plans. This generation often gets labeled by the media and the older people in society as the youngsters who are tearing this country apart. The fact of the matter is that we are a product of our parent's mistakes and remain to be misunderstood.

In the past several years we have seen much media attention focused on the generation that followed the boomers, popularly known as Generation X. Born between the mid-1960s and early 1980s, this is the most complex of the generation, and by far the least understood in spite of its current celebrity. This generation can best be described as the Misunderstood Generation. They are the generation that dealt with and are still dealing with broken homes, drug addiction, AIDS, and bleak futures.

Perplexed Theory of India's Unadvantageism!

Aditya Narayan Ray

3rd year, BTech.

To understand why India lags behind the global scenario let us take another angle of consideration and compare its stand in the face of the world with other so-called biggies of the world. Let us consider two modest powers in a fictional world and let's call them USA and China.

USA has a very modern outlook towards what it does and its general overview towards others, a policy popular among its residents too. The fact for this being USA is a rather new nation as compared to its peer in the world history whose ancient cultural heritage is accountably only in the pre-historic times when the large reptiles or the so-called dinosaurs roamed its land as documented by the likes of Discovery and National Geographic channels and put forward by the modern grave diggers of today- Archaeologists' and made into films of moral interest by its filmmakers.

China, as opposed to its western peer, is a rather ancient civilization where even people dating back to ancient lore exist, also rich in pre-historic flora and fauna too (though in fossilized form like some of its previous emperors). But when it comes out to world dominance the stats get reversed, with the USA being the aging superpower of today and China being the budding superpower for tomorrow.

Though it may rather seem to be unassuming but the rise and rise of USA could only be attributed to excessive use and dependence on mechanical devices due to its known war-mongering attitude; not that the Chinese were peace-loving idiots- they had their own share of blood baths as well, plus they actually invented machines themselves, but at some point they must have thought-"if I can do the work myself what do I need the dumb machine for..?"

Taking the current situation into consideration the trivial fact that America has machines rivaling the number of people living there or even more than it is the dominant reason behind its massive power surge. On the other hand, China having people more than half the nation's combined in this world is also rapidly increasing its share of machinery (in fact the machines which USA has carry a tag-MADE IN CHINA).

Know that you are Unique

Ashish Chitra
1st year, BTech.

If you do not pause for a moment to consider that there never has been nor will there ever be anyone else exactly like you, you will know why being yourself is more important than anything else; and you will be able to sidestep the very commonly prevalent fear or pressure that traps us into blind conformity. The opposite of courage in our society, psychologist Rollo May said, is not cowardice; it is conformity.

Being inspired by someone and learning from their example is wonderful; but if we were supposed to be exactly like that someone, we would have been created with all of that person's qualities along with the same circumstances, potential, and limitations too. Instead, each of us is born into a specific time and place, with a unique combination of a certain set of talents, and the potential to add or enhance all that, in order to fulfil our individual mission in life.

We have all been taught to measure ourselves against the example of other, greater, more successful beings. We are inspired by them and want to follow their example...but we can become so obsessed with the need to live like someone else, look, teach, grow successful and become rich like someone else, that before we know it, we cease to be ourselves.

In the film 'The Legend of Bagger Vance', Bagger Vance volunteers to be caddy for the has-been, written-off Golfer Junuh in an important tournament. At a pivotal point in the movie, he tells the indifferent player, "Inside each and every one of us is our one true authentic swing... something we were born with... something that's ours and ours alone... something that can't be learned... something that's got to be remembered." It suggests finding our authentic self, our special place in the world, our special way of doing things, our special things to do, that absolutely no one else can.

Once, an old Hassidic story goes, the great teacher Zusia came to his followers, his eyes were red with tears, and his face was pale with fear. His followers enquired, "Zusia, what's the matter? You look frightened", to which he replied, "The other day, I had a vision. In it, I learned of the question that the angels will ask me when I stand at the Gates of Heaven." The followers were puzzled and said, "Zusia, you are precious. You are scholarly and humble. You have helped so many of us. What question about your life could be so terrifying that you would be frightened to answer it?" Zusia turned his gaze to heaven and said, "I have learned that the angels will not ask me why weren't you a Moses, leading your people

out of slavery?" His followers persisted, "So, what will they ask you?" Zusia sighed, "The angels will not ask me, why weren't you a Joshua, leading your people into the Promised Land?" His worried followers demanded, "But what will they ask you?" He replied, "They will ask me, Zusia, there was only one thing that no power of heaven or earth could have prevented you from becoming. They will say, Zusia, why weren't you Zusia?"

Of course you should be inspired by the examples of others and let their lives motivate you to reach your fullest potential; but ultimately you must become the best- you must become yourself.

Self-control

Never an infringement on freedom & liberty

Devi Prada Panda

2nd year, BTech.

Over the years, there has been confirmed unanimity among the gurus, men of wisdom and seers who have stressed the need for self-control in the seekers or disciplines. In spite of this, more or less a kind of revolt is observed amongst the youths of the present generation, who don't shy to open and vociferous to say this curb is somewhat an infringement upon their freedom & liberty. To add more to it they say these urges are the gifts of nature and there is apparently no reason to apply and check to it being indulged in them.

You will not disagree with me to say it is true & absolutely correct. These urges were with us from time immemorial and man has accepted them to be the gifts of nature but believe me only conjure and rise above to the yet next stage of evolution like from fish to amphibian , birds, reptiles and mammal. Be sure self-control is not to kill the individuality in us which really manifests what you are but to suffix to its go in the form of tempo in performance and to add attractions , excellence to its achievements by simply remaining away from them for a better tomorrow. The energies without being dissipated through the senses are stored and channelized in various creative ways of nobler undertakings. Not only that, by virtue of this sort of control his memory improves, power of willing and deciding expands further so, this dynamism in action remarkably gets heightened.

Of course a question comes to mind how can the controlled man manage and resist the urge remaining in the midst of the tempting objects around without being ambushed further. No doubt we perceive the objects through our sense organs like eyes, ears, nose, tongue and skin but only when the

mind supports from behind. Often we fail to notice the happenings in closer vicinity like when you are deep in study or do any other work mindfully you fail to hear, anything however melodious it may be, fail to feel heat or cold & even don't notice someone else passing by. Even when you sleep there is no perception of objects absolutely simply because the mind remains absent from them. Hence mind only through the sense organs makes us perceive the existence of objects. For a steady going on the process of accumulating wisdom one must totally withdraw his senses from the influencing objects till he finds it suitable just like the tortoise who keeps the head and limbs withdrawn very much inside the shelter of its shell until it finds itself free from any kind of danger to bring them out to move.

If you are determined today to venture, to excel in life the very first thing you must do is to apply self control over the six factors like the mind and the five sense organs which make you perceive the objects carrying pseudo, short lived attractions. To reach a state of complete freedom of very much living in the world but not becoming part of it, must be the ultimate objective of one's Endeavour. The grandeur of the beauty of the world can be enjoyed without becoming a victim or falling to its hallucinations and magical enchantments.

As we know desire is the sole reason of sorrow & longing for something is born from the continuous thinking of attachments and attractions on any worldly thing which gives birth to anger from anger comes delusion, loss of memory that brings further a kind of ruin of discrimination and ultimately one perishes. A brake over the thinking process becomes indispensable for one who determines to grow. The false fascinations of the objects become almost meaningless for a controlled man, his energies get conserved making the mind hyper dynamic to achieve stupendous success, and a brilliant genius will be made out of him.

If I had a 2nd chance

Amiya Kumar Jena

2nd year, BTech.

If I Had A Second Chance...

- ◀◀ I'd stop looking and start seeing, And treat everyone as a human being.
- ◀◀ I'd stop taking and start giving, Stop hiding and start living. I'd do more listening and a lot less talking, Enjoy the world and do more walking.
- ◀◀ I'd take my eyes off my watch and watch with my eyes, to notice the trees and the beautiful sky.

- ◀◀ I'd stop criticizing and show more love, be less forgetful and give thanks up above. I'd be less angry and swallow my pride, And share with the world what I have inside. I'd stop hating and be more kind, and give a little more of my precious time.
- ◀◀ I'd give more encouragement and a lot more praise, And do a lot less judging for I too have lost my way.
- ◀◀ I'd get my priorities in order and straight, better now than never Lord; I'm just a bit too late. I'd stop hopelessly chasing after the wind, from this point on a new I begin.
- ◀◀ I'd find my way back to the God's humble grace, With a vow never again to lose my place, I'm changing my life and I've made a stance, Oh GOD , what I wouldn't give for a second chance.
- ◀◀ It's not the destination that counts in life it's the journey. The journey with the people we love is all that really matters. Such a simple truth so easily forgotten.
- ◀◀ When you're lonely, I wish you LOVE. When you're down, I wish you JOY. When things get complicated, I wish you FAITH. When things look empty, I wish you HOPE...

Curry

Kreyszig Retambra Reik
2nd year, BTech.

Chosen leaves from the garden of life,
A small heart,
A little finger,
A beckoning smile,
And a smaller bud crackling joys worth-while.

All ingredients mixed,
A drop of tear to fry them well,
A cozy lap to hold all together,
A soul to serve,
And a crimson blush to garnish at the end.

Moments held with fear, anger enquiring,
Fight like two forks.
A hand later the broken heads fallen apart,
And two beautiful roses in a white vase stand
together,
With each hearing the heart-beat of other.

The table lay,
A lovely bowl with a delicious curry,
Two spoons, two lips to be served,
With one table a distance spread and four eyes to be
watched for.

Every time

Himansu Sekhar Samal
3rd year, BTech.

Every time you kill me
I born again
With the hope
To live
A new life
Forgetting you
And all your memories.

Every time you close the door
Of your heart
A new door is opened
For me
To enter
And enjoy a new world-
A world without you.

Every time you say 'good bye'
A different word
Is spoken to me
I am greeted with
A new 'welcome'
Again a new face
Awaits me.

And every time I really love you
I pretend-
I don't care for you
Hoping that
You may change your heart,
You may change your feelings,
And you may love me
As much as I love you.

FRIEND.... "God's Gift"

Issa Mohanta
2nd year, BTech.

I had a talk with my god before we met,
without being acquainted of u.
I asked the god to send a friend.
he had chosen one just for me.

I asked that would be an angel,
With wisdom of His ways.
A friend to guide and help me every while,
In the time of troubles & hollowness.

So often in life, we need someone
To listen while we talk.

Someone who will not condemn,
But encourage us as we walk.

The irregular path we choose to follow
May sometimes make us stumble.
But to have a friend to catch when I fall,
Teaches me to be humble.

When I asked the god to send a friend,
Though many came and went.
He gave much more than I ever expected,
but you are the friend He sent.

The miracle of good wishes

Khiteshwari Krupaya
3rd year, BTech.

To maintain good wishes and benevolent,
feelings for the self,
means to have real mercy for the self.
Good wishes comes from the core of,
a pure and clean heart,
who never remember the past.

By keeping the door of good wishes open,
one is able to receive blessings,
which enables anything spoilt to become right.
A merciful and generous heart always has
good wishes for others,
which brings hearts closer.

Good wishes cannot be bought,
but they are earned,
means to be a well-wisher for the self.
A heart filled with good wishes is,
easy to forgive,
in which the seed of humanity is planted.

I searched my destiny

Mohammed Shahed
3rd year, BTech.

I searched my destiny all around,
In the long roads, in the rail track & above the hill
But a glimpse of it was hard to found,
Then I realized it is all in my will.

Night

Ankit Raj Prasad
1st year, BTech.

A cat sits,
Inside an abandoned
Old television box.
A badminton pole,
Stands naked
On a red bricked floor.

Wrapper of an ice cream
Stick, lies twisted
Under some girl's tender toe.

Ashes of life,
Burn silently
On a chair.

A wash basin,
Stained red,
With a wound's blood,

Burps at running water.
Slowly the clock ticks
Time creeps.

At a distance,
Someone pukes
His insides out, in disgust.

The cat walks away,
From the closet
Wrecked and torn.

Hollow wood,
Infected stomach,
Empty wound .

A life sings an ode
To its destruction,
While the night sets out.

Remember the ABCS

Khiteshwari Krupaya
3rd year, BTech.

Avoid negative source.
Believe in yourself.
Consider things from every angle.
Don't give up.
Enjoy life today.
Family and friends are hidden treasures.
Give more than you planned to give.
Hang on to your dreams.
Ignore who try to discourage you.
Just do it!

Keep on trying.
Love yourself foremost.
Make it happen.
Never lie or cheat.
Open your eyes.
Practice makes perfect.
Quitters never win and winners never quit.
Read everything important in your life.
Stop procrastinating.
Take control of your own destiny.
Understand yourself first.
Visualize it.
Want it more than anything.
Accelerate your efforts.
You are unique amongst all creations.
Zero in on your target and go for it.

Mistake

Ajay Kumar Nath
2nd year, BTech.

If GOD makes a mistake
It is FATE.
If a DRIVER makes a mistake
It is an ACCIDENT.
If an ENGINEER makes a mistake
It is a New VENTURE.
If a POLITICIAN makes a mistake
It is a New LAW.
If a TAILOR makes a mistake
It is a New STYLE.
If a BARBER makes a mistake
It is a New CUT.
If a DOCTOR makes a mistake
It is an OPERATION.
If PARENTS make a mistake
It is a New GENERATION.
If a SCIENTIST makes a mistake
It is a New INVENTION.
If a TEACHER makes a mistake
It is a New THEORY.

BUT

IF I MAKE A MISTAKE

IT IS A

MISTAKE.....WHY.....?

Lots

To

Speak ...

Subhrajyoti Pradhan
3rd year, BTech.

Lots to speak, but less to jot down,
Amongst the enthralling audience, I am feeling
like a clown,

In the world, where there are performers,
I am going down and down and down...

Prying through souls, in search of my destiny,
Paved the path, crushing obstacles that I own,
I ran & ran to reach the crown,
But, instead I got the Failure's gown...

I wish I had flown, with someone very much grown,
With wings of Love, and feathers of Wisdom alone,
I know the fact that, it's never too late,
To wrap things up, with seeds of Success I had
sown...

Life

Akshay Mohan
2nd year, BTech.

Life is not a spectacle, or a feast.
It is a predicament.
Life is an instant of happiness.
We ought to grab it,
Because life is not a life at all without delight.
Charms strike the sight, but merit wins the soul.
Hence let's be beautiful,
As real beauty is the beauty of soul.
Life is life if we know how to use it.
Hence let's not years to our life
But rather add life to our years.....

Life-"An Unknown Game"

Anubhab Mishra
2nd year, BTech.

Life is a play which is played by all,
A few know its rules in this undiscovered world.

Many rules are there which is not known by all
but a few are experts in this world.

Time is less, scores are to be made many,
There is no time to waste if someone has any.
It's not a game for someone's mere pleasure,

It's a game to explore many unknown treasure.
The play is such you have to win and reach,
Or if not then you are thrown into a ditch.
The play is such it cannot be played by all,
If it's the case, then its existence is not required
at all.

The play is unique, there is no fixing in it,
But there can be some change if you try a little bit.
Life is the only game full of curves and rolls,
By playing it successfully, achieve your goals.

One is enough

Kumari Shubhra
1st year, BTech.

Stars are many,
But Sun is one!

Planets are many,
But Earth is one!

Oceans are many,
But Pacific is one!

Continents are many,
But Asia is one!

Languages are many,
But Land is one!

Wonders are many,
But The Tajmahal is one!

Countries are many,
But India is one!

Cultures are many,
But Country is one!

Religions are many,
But God is one!

Laws are many,
But Constitution is one!

Citizens are many,
But Ruler is one!

Blood Groups are many,
But Colour is one!

Last prayer

Kreyszig Retambra Reik
2nd year, BTech.

Only a few moments to share,
Only a single heart to bear,
Only a last touch to imbibe,
Only a small wave of life to imbue.

The toxic slowly spreads, kills me,

But yet memories alive,
Freshened, budding through the days and nights,
Alls ending but slowly.

Hearing the divine flow down the cheeks,
Their music slowly piercing the dying heart;
Seeing the dusty air slowly being cleared away,
New radiations entering the chilled sky,
Pull out such strings of tune,
Such only to be remembered;

All disentangling, all freed,
When the heart made the last prayers,
Saw dreams and thoughts going astray,
Let the soul fly away,
The bridge left unbroken,
And all left behind.

Then entered the breaking dawn,
Broke the cobwebs of a horror never to happen.

Communitainment

Anshuman Acharya
3rd year, BTech.

You may not know the meaning of communitainment and probably you will not find it in the standard dictionaries either. But this word and words like this are very much in use now a day. Are you sure you have never heard of it? It is a 'portmanteau' which refers to the combining of sound and meaning of two words, for example, brunch, a combination of breakfast and lunch.

'Children warned over the dangers of sexting' was a BBC headline last week. Again you cannot find it in any dictionary, its meaning, though, is easy to guess. No? Come on, you can do it, or else how can we do 'communitainment'? Ok, let me say explain. 'Sexting' means 'texting sexually explicit messages via mobile phone or emails'. Here is a list of some interesting portmanteau words that are commonly used.

Camcorder= camera + recorder

Blog= web + log

Motel = motor + hotel

Webinar= web + seminar

Faction= fact + fiction

Communitainment, which refers to communication through entertainment, is essential in English as a second language class as it has been proved that communitainment activities role-plays, puzzles and problem-solving exercises promote meaningful communication, provide fun, develop teamwork, and foster creative thinking.

Hope my communitainment will help you in your communitainment.

Incredible but True

Compiled by Prashant Kumar
1st year, BTech.

1. In a cricket match at Melbourne, Australia defeated England by 45 run in 1877. Hundred years later, in 1977 again Australia defeated England by 45 run. [THE NAVBHARAT TIMES]
2. The flies flee at the mere mention of his name- Mr. Hucha. Hucha is a retired gentleman and kills about 4000flies every day, he has killed more than 17kg flies. [MIRROR]

3. Like every dog every pig has its day. In 1990a pig in Dewonpart became millionaire when its master, Margo Lamp left all his money (6million dollars) to the pig. [THE TIMES OF INDIA]
4. April 18 is a dreaded day for St. Mularich church in Germany, between 1599 to 1783 , lightning struck this church eight times, every time on 18 April. [REPLAY]
5. The world record for giving birth to the largest number of kids goes to Fedor Vassliyer's first wife. The women gave birth to 69 kids during her life time [1725-1765] out of these 67 survived among her children were 16 twins, 7 triplets & 4 quadruplets. [GUINNESS BOOK]

Personal Interview

Suprit (Alumini, MBA batch 2008)

Discovering the management acumen within me and heading for the most famous formula for selection, i.e., personal interview (PI), I endeavored to select the most suitable candidate for me during that point of my life when I, fortunately enough, was flooded with many love applications. I shortlisted some twenty odd candidates on the basis of their appearance, style of delivery, facial expression, body language and the other criteria best known to me. Somehow, I managed to inform them to come prepared for a personal interview on a Monday (as I consider Monday as my lucky day), sharp at 10.00 am in formals.

On the day of the event, I was thrilled to see all the twenty candidates arriving at the right time and right place. I started my scrutiny for the right person. As per the schedule I started calling them one by one and sincerely following all the rules of PI, I expected at least one person to sustain the environment and emerge as the winner. The competition was tough and the competitors were even tougher. But the brutal reality of any exam is that, when one wins others have to lose. The candidate who won the crown was in a black & white suit and the following questions had been asked to him.

Candidate: May I come in Maam?

Me: Yes, be seated.

Candidate: Thank you Maam.

Me: What is your name?

Candidate: Premanand Parameswar.

Me: What does it mean?

Candidate: Prem means love and Anand means joy, combined it means joy of love. Parameswar means God; my name can also be interpreted as the God of love.

Me: Fine, what is your objective?

Candidate: To spread the message of love as quickly as possible in such a manner where no one is hurt.

Me: Then what is your goal?

Candidate: To witness a lovely world where all people are in love with each other, where there is equal opportunity for all to express love and where there is always a scope of growth in love through mutual understanding.

Me: Do you have any experience?

Candidate: Yes Maam, I have been in love since three years with twelve different girls.

Me: Don't you think you are very fluctuating and fickle minded?

Candidate: Absolutely not Maam, on the contrary I am an introspective and strategic person.

Me: Why do you think so?

Candidate: I am strategic because I lay down plans and objectives to achieve my goal. I am introspective because I review my performance quarterly and if my actual performance does not match the desired performance, I change my girlfriend as a control mechanism. That is why I have twelve girlfriends in three years (as I do quarterly review).

Me: What is your strength?

Candidate: I am an initiator, focused, quick-learner, motivator, risk-lover and team player.

Me: Describe each quality with an incident or a fact.

Candidate: I am an initiator because I had once booked advance tickets for a movie two days before its release and convinced my girlfriend to watch the movie. I am focused because I concentrate only on one girlfriend at a time. I am a quick learner as I realize my mistake in just three months (as I do quarterly review). I would like to call myself as a good motivator because I had once motivated a strict army officer (father of my girlfriend) to marry his daughter. It was a milestone achieved in my career. It is a different thing that the fortunate event (marriage) did not materialize as in the last moment he came to know that I am jobless. As far as risk is concerned, Maam, you would be surprised to know how much risk I have to bear every day. I think there should be a concept called risk-resource accounting to measure the value of such kind of risk. You know Maam there is always a risk from girl's family, girl's relatives and more prominently from girl's ex-boyfriends. I am a team-player as I think myself powerful and confident when I am in a team (with my girlfriend).

Me: What is your weakness?

Candidate: I am sorry Maam, it would be a dishonor to those twelve persons if I answer this question. My policy is to never condemn my previous organizations (previous girlfriends). But I may assure you that whenever I am told about my weakness I accept it as a challenge and try to improve myself.

Me: Hmm, so why are you wearing a black and white suit, when all other candidates have turned up with a colorful combination?

Candidate: Maam, I am so colorful inside that I don't need to show any color outside. And the colors black and white are also very significant in their meaning. Black is the symbol of involvement that absorbs every color. White is the symbol of sacrifice that radiates every color. I feel even if I am involved with my girlfriends, still I can sacrifice them for a better option.

Me: Well Mr. Premanand, what kind of compensation/benefit do you expect if I hire you?

Candidate: Maam, in this competitive environment it would be totally unwise to demand more than what you deserve. I believe it should be commensurate with my effort (time, energy & money).

Me: Can you be specific, Mr. Premanand?

Candidate: I believe in performance based pay system where I would be encouraged to outperform through non-monetary compensation in terms of recognition and gifts on appropriate occasions like birthday, Valentine 's Day, propose day, kiss day, chocolate day, flower day etc.

Me: Do you have any work ethics?

Candidate: Yes Maam, I am a professional and I strongly follow some ethics like I never call my girlfriend after 10 pm at the night, I drop my girlfriend exactly at her door step, I never force my girlfriend to visit a place or watch the movie that she dislikes.

Me: Well, when can you join the organization?

Candidate: Maam, I need 3 days to break-up with my current girlfriend peacefully and also to finish some formalities, like sending a thanks letter and an exit gift.

Me: Congratulate Prem, you have been selected. You may join the organization after 3 days. Don't forget to submit your experience certificate/proof tomorrow and collect the offer letter.

Candidate: Thank you Maam, I will do the needful.

Making Time Travel Easier

Debashish Patnaik

3rd year, BTech.

The term time travel has always fascinated me as a student of science and technology, hence here I am writing something about. Time travel is considered as a subject of intense research since the last twenty years and discuss about some prospective of time travel and how it can be achieved.

The concept of time travel dates back to Einstein and his special theory of relativity in a remarkable paper written in 1905, when he was working as a clerk In the Swiss patent office. Einstein showed that the time and position at which one thought an event occurred, depended on how one was moving. This meant that time and space, were inextricably bound up with each other. The time that different observers would assign to events would agree if the observers were not moving relative to each other. But they would disagree more if their relative speed is faster. So one can ask, how fast does one need to go so that the time for one observer, should go backwards relative to the time of another observer. The answer of this question is that the relative speed must be greater than that of light but Einstein's paper of 1905 seemed to rule out time travel into the past. It also indicated that space travel to other stars, was going to be a very slow and tedious business. If one couldn't go faster than light, the round trip to the nearest star, would take many years, and to the center of the galaxy, at least many thousand years. If the space ship went very near the speed of light, it might seem to the people on board that the trip to the galactic center had taken only a few years. But that wouldn't be much consolation, if everyone you had known was dead and forgotten thousands of years ago, when you got back. That wouldn't be much good. But there is some method which shows us a ray of hope in the dark sea of time travel. Closely related to time travel, is the ability to travel rapidly from one position in space, to another. As I said earlier, Einstein showed that it would take an infinite amount of rocket power, to accelerate a space ship to beyond the speed of light. So the only way to get from one side of the galaxy to the other, in a reasonable time, would seem to be if we could warp space-time so much, that we created a little tube or wormhole. This could connect the two sides of the galaxy, and act as a short cut, to get from one to the other and back while your friends were still alive. Such wormholes have been seriously suggested, as being within the capabilities of a future civilization.

But if you can travel from one side of the galaxy, to the other, in a week or two, you could go back through another wormhole, and arrive back before you set out. You could even manage to travel back in time with a single wormhole, if its two ends were moving relative to each other. One can show that to create a wormhole, one needs to warp space-time in the opposite way, to that in which normal matter warps it. Ordinary matter curves space-time back on itself, like the surface of the Earth.

However, to create a wormhole, one needs matter that warps space-time in the opposite way, like the surface of a saddle. The same is true of any other way of warping space-time to allow travel to the past, if the universe didn't begin so warped, that it allowed time travel. What one would need would be matter with negative mass and negative energy density, to make space-time warp in the way required. Energy is rather like money. If you have a positive bank balance, you can distribute it in various ways. But according to the classical laws that were believed until quite recently, you weren't allowed to have an energy overdraft. So these classical laws would have ruled out us being able to warp the universe, in the way required to allow time travel. However, the classical laws were overthrown by Quantum Theory, which is the other great revolution in our picture of the universe, apart from General Relativity. Quantum Theory is more relaxed, and the reason Quantum Theory can allow the energy density to be negative, is that it is based on the Uncertainty Principle.

This says that certain quantities, like the position and speed of a particle, can't both have well defined values. The more accurately the position of a particle is defined, the greater is the uncertainty in its speed, and vice versa. The uncertainty principle also applies to fields, like the electro-magnetic field, or the gravitational field. It implies that these fields can't be exactly zeroed, even in what we think of as empty space. For if they were exactly zero, their values would have both a well-defined position at zero, and a well-defined speed, which was also zero. This would be a violation of the uncertainty principle. Instead, the fields would have to have a certain minimum amount of fluctuations. One can interpret these so called vacuum fluctuations, as pairs of particles and anti particles that suddenly appear together, move apart, and then come back together again, and annihilate each other. These particle- anti particle pairs are said to be virtual, because one cannot measure them directly with a particle detector. However, one can observe their effects indirectly. One way of doing this, is by what is called the '**Casimir effect**'. One has two parallel metal plates, a short distance apart. The plates act like mirrors for the virtual particles and anti particles. This means that the region between the plates, is a bit like an organ pipe, and will only admit light waves of certain resonant frequencies. The result is that there are slightly fewer vacuum fluctuations, or virtual particles, between the plates, than outside them, where vacuum fluctuations can have any wavelength. The reduction in the number of virtual particles between the plates means that they don't hit the plates so often, and thus don't exert as much pressure on the plates, as the virtual particles outside. There is thus a slight force pushing the plates together. This force has been measured experimentally.

So virtual particles actually exist, and produce real effects. Because there are fewer virtual particles, or vacuum fluctuations, between the plates, they have a lower energy density, than in the region outside. But the energy density of empty space far away from the plates, must be zero. Otherwise it would warp space-time, and the universe wouldn't be nearly flat. So the energy density in the region between the plates must be negative.

We have experimental evidence from the bending of light, that space-time is curved, and confirmation from the Casimir effect, that we can wrap it in the negative direction. So it might seem possible, that as we advance in science and technology, we might be able to construct a wormhole, or warp space and time in some other way, so as to be able to travel into our past. According to string theory, which is our best hope of uniting General Relativity and Quantum Theory, into a Theory of Everything, space-time ought to have ten dimensions, not just the four that we experience. The idea is that six of these ten dimensions are curled up into a space so small, that we don't notice them. On the other hand, the remaining four directions are fairly flat, and are what we call space-time. If this picture is correct, it might be possible to arrange that the four flat directions got mixed up with the six highly curved or warped directions. What this would give rise to, we don't yet know. But it opens exciting possibilities. The conclusion is that rapid space-travel, or travel back in time, can't be ruled out, according to our present understanding. They would cause great logical problem, but science fiction fans need not lose heart. There's hope in string theory.

The Future is 'SMALL'

Compiled by: Nishant Kumar

2nd year, BTech.

Source: CSIR

What we are seeing is the beginning of a revolution, caused by our ability to work on the same scale as nature. Nanotechnology will affect every aspect of our lives, from the medicine we use, to the power of our computer, the energy supplies we require, the food we eat, the cars we drive, the building we live in, and the clothes we wear.

Nanotechnology represents the state of art in the field of all branches of science and technology. At the most basic social level, nanotechnology is going to be responsible for massive changes in the way we live, the way we interact with others and our environment, and the things we are capable of doing.

The definition of nanotechnology is as diverse as its applications. Basically, it is the ability to design and control the structure of object at all length scales from atom up to a macro scale. We measure the length of an elephant in meters, length of a human being in centimeters, the size of an ant in millimeters and of a bacterium in micrometers. If we go down further to the scale of an atom or a molecule, and we use the measure nanometer. One nanometer is one-billionth of a meter, roughly the width of three or four atoms. An average human hair is about 25,000 nanometer wide.

Nanotechnology enables control of matter at the nanometer scale. By taking advantage of quantum-level properties, it allows for unprecedented control of the material world, by which system and materials

can be built with exacting specifications and characteristics. Materials reduced to the nanoscale can suddenly show very different properties compared to what they exhibit on a macro scale, enabling unique operations.

For instance, opaque substance like copper become transparent, inert material like platinum become catalyst, stable material aluminium turn combustible, solids like gold turns liquid at room temperature and even lose conductivity and insulator such as silicon become conductors.

Building blocks of Nanotechnology- Particles that show the wonders at the nanoscale are known as nanoparticles. The transition from micro particle to nanoparticle can lead to a number of changes in physical properties. Two of the major factors in this area are the increase in the ratio of surface area to volume, and the size of particle moving into the realm where quantum effects predominate.

Nanoparticles take advantage of their dramatically increased surface area to volume ratio. For instance if we cut ordinary magnet to the size of 40 nanometers, it becomes a super magnet and if we go further and divide this into 16 nanometers, It becomes highly energetic by increasing the number of electrons on the surface.

Applications of Nanotechnology:

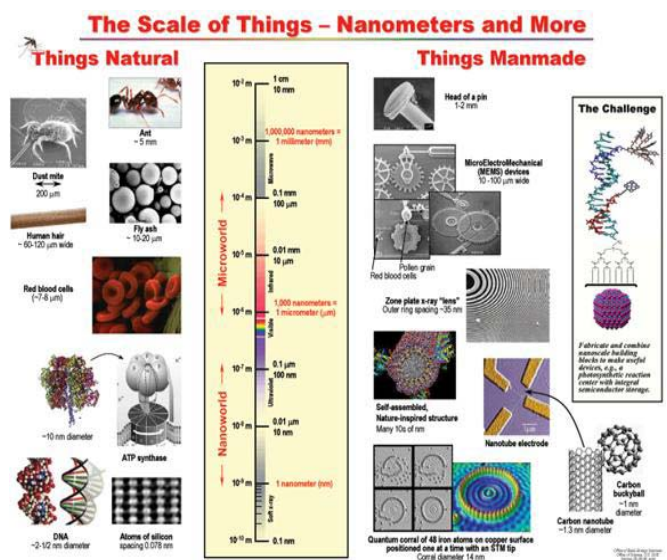
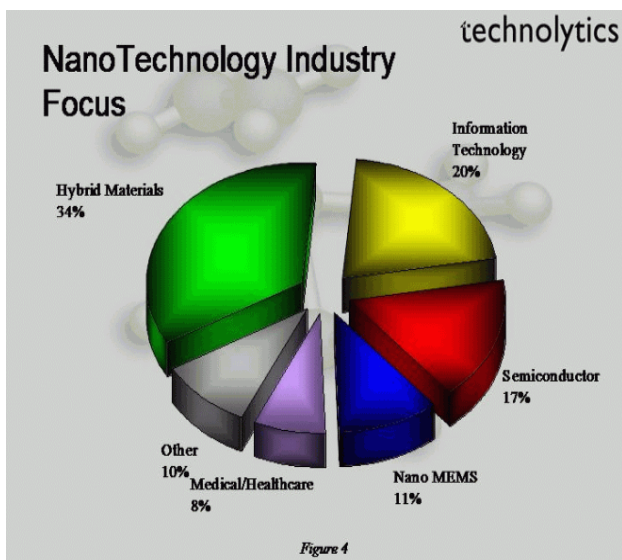
- i) Health and medicine: Imagine a world in which microscopic procreating robots are sent into the human body with the mission of detecting cancer cells, disassembling them, and sending them out into the bloodstream as waste products.

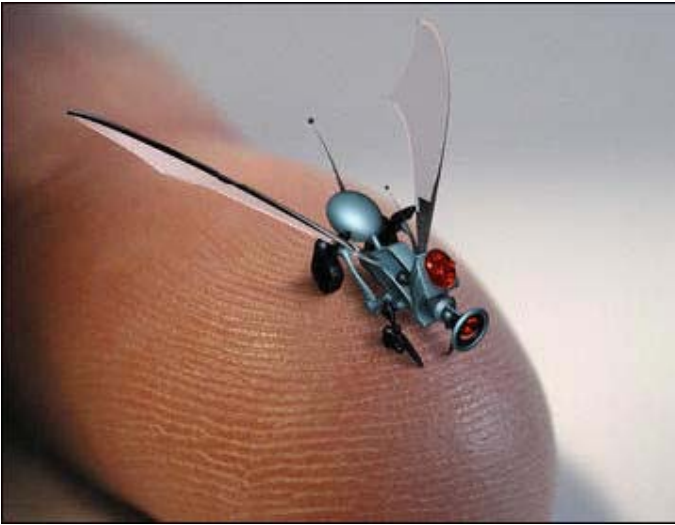
Researchers at Delhi University have developed hydrogel nanoparticles capable of penetrating the blood brain barrier that is most dense layer of endothelial cells that prevent foreign bodies to reach the most sensitive areas of the brain. Nanotechnology can help to reproduce or repair damaged tissue called as 'Tissue engineering'. Nowadays to get rid of wound infection there is a antimicrobial dressing covered with nanocrystalline silver. The nanocrystalline coating of silver rapidly kills a broad spectrum of bacteria in as little as 30 minutes.

- ii) Computing and data storage: If we extrapolate into the future we will find that, in the coming decades we will have to build a molecular computer to keep the computer hardware revolution on track. Nanotech will able us to do that. The critical length scale of integrated circuit is already at nanoscale (50 nm and below) regarding the gate length of transistor in CPU's and DRAM devices.
- iii) Information & communication: Two promising examples are photonic crystals and quantum dots. Photonic crystals are materials with a periodic variation in the refractive index with a lattice constant that is half the wavelength of light used. They offer a selectable band gap for the propagation of a

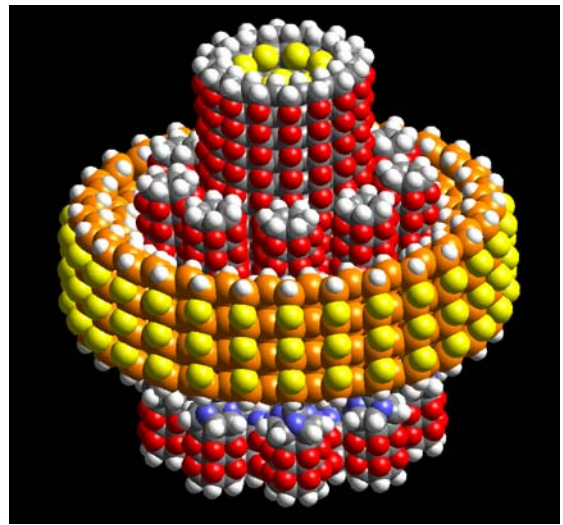
certain wavelength. Quantum dots are nanoscaled objects which are used for construction of lasers. Nanocrystals are ideal light harvester in photo voltaic cell.

- iv) Consumer goods & food production: The clothing industries are starting to feel the effect of nanotech. Researchers are currently using embedded nanoparticles to create stain- repellent clothes. A military application could be in camouflage where nanocameras mixed with nanodisplays could create an 'invisibility coat', acting like the skin of a chameleon. It is also applicable in food sector. Many vitamins and their precursors, such as carotenoids are insoluble in water.
- v) Space mission: Space scientists are pursuing research in nanotechnology with the idea of having lighter, stronger material. For example, lighter computers and lighter sensors would let us have more function in a given weight, which is very important. By using nanotechnology a new era of robotics exploration of the solar system is in the coming among other technologies through the development of small economical spacecrafts with high autonomy and improved capabilities.





A Nanoplane



A Nanoplane Gear



A transparent cloak (by nano-particles)



A nanomite

*"Grant us the single heart, once more,
That mocks no sacred thing,
The Sword of Truth our fathers wore
When Thou wast Lord and King.*

*Let darkness unto darkness tell
Our deep unspoken prayer,
For, while our souls in darkness dwell,
We know that Thou art there."*

Alfred Noyes



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