


*Not just magnitude but also the direction!*

# VECTOR

In association with  **dna**  
YOUR CODE OF THOUGHT

## BMC Junior Science Colleges now run by Vidyankar

BMC has a huge network of primary and secondary schools. However, many students from these schools find it very difficult to get admission into the traditional science junior colleges because of multiple factors such as high costs, high cut-off marks, etc. As a result majority of these students drop out. Taking this into consideration, Vidyankar now has collaborated with BMC to run their two junior science colleges - Bhawani Shankar Junior Science College (BSJC) at Dadar and Ratanbai Walbai Junior Science College (RWJC) at Mulund.

As a social initiative undertaken by Vidyankar, BMC school students are taught free of cost in both these colleges. Fifty students (BMC school children) are provided Std. XI, Std. XII and entrance exam coaching free of cost. Fifty percent of this coaching fee is borne by Vidyankar and the rest is borne by the civic body. Each of these junior colleges has

two divisions (100 seats) - one division (50 students) reserved for BMC school children and the other division (50 students) for other students.

In order to secure admission into an Engineering College, in the present day scenario, students need to excel at both the Std. XII & engineering entrance exams. BSJC and RWJC provides to its students a synchronized system of learning where students are trained for engineering entrance exams (like JEE Advanced & JEE Main) and Olympiads (Physics, Chemistry, Mathematics), over and above the regular college curriculum.

Both these colleges offer compulsory subjects like English, Physics, Chemistry, Maths, Environment Education, and Physical Education along with the bi-focal subject of Electrical Maintenance.

Students aspiring to take admission in BSJC / RWJC need to apply through the Offline Admission Process.

### Infrastructure



**Well Equipped Laboratories**  
All Laboratories are well equipped with the scientific apparatus needed along with safety measures.

### Library

The Library has more than 1000 reference books on various subjects.



**Classrooms**  
All classrooms are air-conditioned with state of the art teaching aids.

### Experienced Faculty

The institute has an experienced team of faculty members with a proven track record of training students for Std. XI, XII and Engineering Entrance Exams.



**Practicals**  
Students performing Electrical Maintenance practicals.

## Dial 6 For Iphone!



Apple fans all over the world rejoiced when Apple unveiled its two phones on Tuesday, in Cupertino, California - the iPhone 6 and iPhone 6 Plus, along with the Apple Watch and Apple Pay. Though Apple has a major fan base, the android phones have become real rivals with their superior handsets. So the new iPhone has jumped the market with the most panoramic overhauls. Yet sadly, it has just jumped the bandwagon instead of setting trends that it was distinguished for.

The iPhone 6 line are eighth generation smartphones and the thinnest in the iPhone range with iPhone 6 and iPhone 6 Plus being just 6.9mm and 7.1mm thick each. Both the phones have packed a whopping screen size of 4.7 inches and 5.5 inches keeping with the trend of large screened and less pocket-friendly phones. In fact the newest phones are so big that Apple has included new 'Reachability' features to make these phones thumb friendly. But the curved back and softer edges make the phone look manageable. Due to the larger physical size, the power button has been moved to the side of the phone.

The most significant changes in iPhone 6 are its displays named "Retina HD"; the iPhone 6 display is nearly 16:9 resolution of 1334x750, while the iPhone 6 Plus includes an "ion-strengthened" 1080p display.

Both the models are equipped with A8 chip built on 64-bit desktop-class architecture that was introduced last year. Its power is enhanced by an M8 motion coprocessor. The main difference from M7, is basically, when in motion, the M8 motion coprocessor continuously measures data from a new barometer. Apple has been emphasizing on the improved battery life as compared to iPhone 5s. It has been touted that the new A8 chip would provide 25% increase in CPU performance and 50% increase in graphics performance.

LTE support is expanded on the iPhone 6 line, with support for over 20 LTE bands up to 150 Mbps download speed, and Voice over LTE support. The Wi-Fi performance has been upgraded to support

802.11ac specifications, which is up to 3x faster than 802.11n. Wi-Fi Calling support is included. The near-field communications (NFC), new to the iPhone family, is used mainly for Apple Pay - a new mobile payments system which will allow users to store their credit cards in Passbook for use with online payments and retail purchases validated by TouchID. The TouchID uses fingerprint identity sensor.

On the camera front, a new 8MP sensor is present on the rear facing camera which contains greater pixels for enhanced performance in low light conditions, the ability to shoot 1080p videos with about 30 to 60 fps and f/2.2 aperture lens. Also, a feature in iPhone 6 Plus that iPhone 6 doesn't include is the Optical Image Stabilization (OIS), to reduce shaking. A time-lapse feature too has been included in the line.

The Apple Watch unveiled with the iPhone 6 line came as no surprise, as Apple now has a device to rival Samsung's Galaxy Gear. The Apple Watch requires the iPhone to operate, essentially positioning it as an accessory to the smart phone. It'll be available in early 2015 starting at \$349 in US. Apple Watch has been showcased in three distinct designs. It is replete with features of a music player like an iPod, a fitness tracker with heart-rate measurements, a communications device that will send and receive messages, calls and audio recordings, and a handheld portal to other apps too.

It also makes payments via Apple Pay. It can also control your Apple TV and act as a remote for connected smart home devices.

The phone became available on Friday night for pre orders. Apple has claimed record number of pre orders overnight and the website crashed. So, all in all, iPhone 6 seems a rather good handset, though not the best. But in the iPhone range, iPhone 6 offers power of iOS and its simplicity combined with the hardware that rivals some of the best Android phones.

**Madhumita Sawant**  
TE EXTC 1, VIT

Ref. - [www.apple.com/iphone-6/](http://www.apple.com/iphone-6/)

# CYBER SECURITY TIPS FROM Tal Mozes and Menny Barzilay from Tel Aviv, Israel

Vidyalankar School of Information Technology in collaboration with Uniken organized a guest lecture on “Emerging Trends in Cyber Security Threats & Innovative Security Technologies” on 23 August, 2014 at VSIT, Wadala for the students of VSIT and VIT. The speakers were Tal Mozes, who leads Hacktics Security Center at Ernst & Young and Menny Barzilay, Head of IT Audit at Bank Hapoalim.

Tal Mozes who leads Ernst & Young’s Hacktics Advanced Security Center resources is based in Tel Aviv, Israel. This cutting-edge red team is dedicated to conducting attack and penetration assessments for EY clients. In this role Tal is responsible for all aspects of the center including peo-

ple, quality, growth, and operations. He spoke about his days when he owned a software house aimed to deliver mobile applications. He was previously a senior consultant and technology leader in one of Israel’s largest security services company.

Menny Barzilay is Head of IT Audit, Bank Hapoalim, Public Speaker and Musician. He spoke of his days in the army and how it gave him the confidence to go out in the world and not be afraid to take risks. They spoke about how Israel, a small country is looked upon by the world as a country of start-ups. Menny said “At any given point in time there are at least 700 start-ups running in Israel”. This, he attributed to the necessity of innovation and lack of natural resources in the country.

The audience asked the guests a lot of

questions on how to become a security expert. Tal shared his view that one first needs to know everything that there is to know about a technology and only then could one start understanding the security aspects of the technology. They said that no technology is good or bad, it’s the people who use it or misuse it for selfish reasons who create threats.

The audience loved the humor and wit of the speakers and the ease with which they talked about life in the army and their journey from teenage hackers to leading security experts in the world. The audience was held captive by the anecdotes and true life incidents of both these young speakers.

Asif K. Rampurawala  
Faculty, VSIT



# A sumptuous spread: Vidyalankar Polytechnic’s Master Chef



Prof. Sonaali Borkar judging entries.

Master Chef is one of the most famous award winning cooking game shows which is loved by all. It is a unique platform for the talented culinary artists to showcase their talent. When it comes to food and foodies Vidyalankar Polytechnic Food and Beverage Committee has always made an attempt to give something unique and different to Vidyalankar staff and students. Based on the lines of MasterChef, the Committee organized a cooking competition called “MasterChef Vidyalankar” on 23 August 2014. The activity took place at V Lounge at the VIT campus.

The competition provided a golden opportunity to young culinary artists in VP to display their latent cooking talent as a lot of creativity, thinking and innovation was involved in the activity. The students were divided into 11 groups and each group consisted of two students. Students were asked to make innovative recipes from five common ingredients which included a type of bread, a fruit, cheese, a vegetable and a secret ingredient about which they were informed in advance. Students were instructed to take special care of hygiene while preparing the food.



Students were given 40 minutes time for cooking and presentation. VIT’s Prof. Sonaali Borkar was the judge for the competition. Students impressed the judge and the teachers by preparing unconventional dishes which turned out to be delicious. Students were judged on the basis of time taken, inclusion of five common ingredients in their recipe and presentation. The first winner and the runners up were rewarded for their efforts and also presented a book as a token of appreciation to encourage student participation. The activity received a wholesome response.

# School Days Vs College Days

It is said that school years are the best years of one’s life whereas a few feel that the fun of attending (and sometimes bunking!) college and the feel of being a teenager has a thrill of its own. On a humorous note, it is said that the difference between school and life is that school teaches you lessons and then gives you a test whereas life gives you a test and then teaches you a lesson!

Today, a meeting with a few of my close school friends with whom I had lost touch over the past couple of years, brought back innumerable memories: the canteen days, the way we teased each other about boys being in an all girls school, or even the way we secretly made fun of our teachers as typical school kids.

So, the big question-are school days more fun as compared to college days? School days last for a long period of time whereas college days are for a very



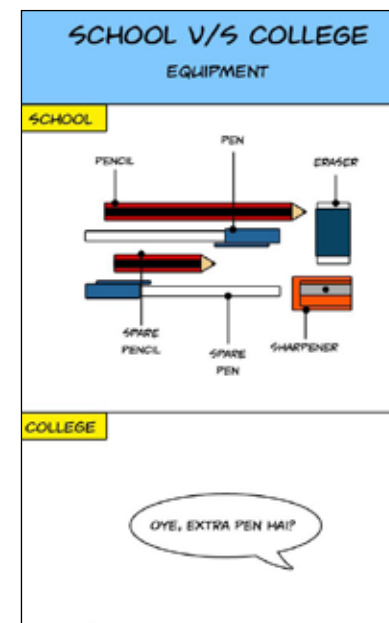
short period. We can say that school is our second home where we spent our most of our childhood.

We learnt critical skills - such as discipline, punctuality and knowledge in school. Those memories are very precious in our lives. How we can forget the silly fights with our friends, sharing lunch and snacks, the enjoyable performances during the Annual day, Sports day, Teacher’s day and Children’s day celebrations!

College life teaches us how to stand up for myself in a crowd and how to leave a mark, no matter where we go. We see the real world during our college life only. It gives us a glimpse into our future and how the practical world would be. College life is completely independent, everything depends on your actions and no one will spoon feed you. A big friends group, bunking classes, first show movies and long outings are the cherished moments.

Education plays a major role in our life, whether it is in school or college. Both the phases have a feel and glory of their own, and as a young adult I realize that they must both be respected separately. The fact that our lives are dynamic in nature must always be kept in mind; and one must always respect whatever time-zone life puts forth. The time frame I experienced in school was beautiful and much more innocent as compared to college. Those days never come back but the special memories will stay with us forever.

-Tanvi Patkar  
EJ1G-A, VP



# OVERVIEW OF E-COMMERCE INDUSTRY

E-commerce - the buying and selling of goods and services via electronic channels, primarily the Internet, has revolutionized the world of business. eBay, which is a multi-billion dollar business with operations localized in over thirty countries, is a notable e-commerce success story. On August 16, 2014, VIT-MMS arranged a session on 'Overview of E-Commerce Industry' by Mr. Sainath Pai, Business Head of eBay India Private Limited. His current functional area is category management (Lifestyle) and fulfillment (Global Trade Business Group). He is responsible for managing Strategic Business Unit with high stakes in overall revenue contribution of the company.

Mr. Sainath Pai started his session on a very interesting note by sharing his work experience with the E-commerce industry which made the session engaging. Then he started with the topic of Internet Service Providers which is the main reason for the growth and even existence of E-Commerce sector.

He told that in the initial days internet usage was not so common, but later, as time passed, many companies like naukri.com, shaadi.com, and Indiamart.com gave E-Com-



merce a very different image which boosted this sector. But there was a bubble burst growth in the industry with the entry of companies such as IRCTC, eBay, Flipkart, Amazon etc. He also explained that E-Commerce is divided into Travel and Non-travel verticals.

- Mr. Sainath Pai

He gave good examples of how products are available 24\*7 for purchase, how online shopping can save time, money and efforts as well. He also revealed that shopping online is cheaper as there is no long chain in between customer and manufacturer. Customer services after sales, credit facility, customer satisfaction, convenience are some features which are covered in E-Commerce.

Apart from the benefits he also discussed about the drawbacks and challenges faced by E-Commerce. He said that Cash on Delivery system has been much difficult to handle as many orders are rejected after being shipped. 45% of orders are rejected after being shipped which makes loss to companies. Logistics also suffer due to poor roads in India. Intense competition, brand loyalty, rural area penetrations

are few other drawbacks of E-Commerce.

Then he moved to the most interesting topic for which the students were waiting for i.e. 'Career Options into E-Commerce industry' and also revealed that E-Commerce is going to create more opportunities for employment in coming years in many specializations such as HR, Finance, and Logistics, Supply chain Management, Operations, Systems, Advertising and Marketing.

eBay provides a unique facility for anyone to become an entrepreneur. Any individual can sell his or her any product on eBay by just registering on it. eBay will take care about all the logistics and also the payment part under its brand name. This is useful for small entrepreneurs who find it difficult to sell their product due to lack of financial resources available to them. The interactive session proved to be very informative and interesting for the MMS Department.



- Siddhesh Waman  
MMS, VIT

## .....AND THE AWARD GOES TO.... Sir and Ma'am! Happy Teachers' Day!

Great teachers help create great students and what could be a better day if not 5th September to make them feel special! We, the students of MMS, in our little way tried to make our teachers feel special on that day by entertaining them through our much awaited cultural event. The Fun Hour was also the inaugural cultural meet for the MMS department.

Students were present in full attendance at the event which started at 2 p.m. The Chairper-

son Dr. Sanjeevani Deshpande and the Head of the MMS Dept. Dr. Ankush Sharma Sir inaugurated the event, which was followed by the teachers being welcomed with flowers. The activities were initiated with the lighting of the lamp and a rendition of Ganesh Vandana. The event was themed on Ganesh festival as well as Teacher's Day clubbed together. A beautiful dance in the name of Lord Ganesha, a quiz on Ganpati Bappa, a stand-up comedy act, a 'Dialogue-baazi' session for the teachers and a beautiful classical duet



A harmonious teacher-student bonding



Dr. Sanjeevani Deshpande with MMS faculty

were some of the much-applauded events.

Our teachers Ankush Sharma Sir and Smita Mukherjee Ma'am sung two amazing solo songs which dazzled us all. The end of Fun Hour was marked with an electrifying song and an impromptu dance performance. The celebration also had a small presentation ceremony recognizing the faculty members and the organizing committee. Finally, as a gesture of gratitude, students presented our loving teachers with a delicious cake.

In a meaningful end to the event, all the students and faculty listened to Prime Minister Mr. Narendra Modi's inspiring Teacher's Day address to school students. This inaugural cultural meet of the MMS department was received with great zeal and enthusiasm and has thus set a benchmark for many more events to come in the future, marking it as a culture and a tradition here at MMS-VIT.

Pranali Shah & Jeet Sawant  
FY MMS, VIT



# READY, STEADY, GO..... for a Marathon!

In today's hectic lifestyle, finding time for exercise and keeping fit is a perpetual challenge faced by everyone – be it students, teachers, professionals or housewives. Unfortunately the general lack of awareness on the fitness front, results in fitness management or exercise not even appearing in the “to do” list of day for most people. Making the exercise “interesting” and not a task in the “to do” list is another challenge.

The morning walk in a nearby park actually helps manage the fitness aspects. But most of the times we struggle to sustain it on an ongoing basis. This is where a slightly modified version that is becoming very popular - running. Although these are different forms of exercises and require different prerequisites, running is a natural extension of walking and as a result, a much easy migration. The Mumbai Marathon which started 10 years ago, has slowly but steadily built this culture of running in the city. It has got people off to not only running but long distance running! Long distance run is not only a test of your physical strength but also of mental strength and endurance. It enforces a discipline to build stamina but more importantly, it also adds the glamour quotient and long term targets so desperately needed for sustaining the activity for a longer term.

Personally speaking, I was never a runner, an athlete or any kind of sportsman for that matter. In 2010, I had participated in the Mumbai Marathon in Dream Run. Like every other first timer, I was worried how long it will take to cover 6km, if I will be able to manage running for that distance etc. After reaching there, I could see a huge crowd that had turned up for the race and the whole place was bubbling with enthusiasm. Within minutes I was a part of the electrified environment. There were some 25000 people participating in the Dream run but as we started the Dream Run, I realised that an equal number of people were there by the roadside to cheer, bands to shake your legs, groups professing variety of social causes and slogans. It took me back to my college days; it was fun unlimited!

On the other side of the road, I could see the full and half marathon runners nearing the finish line, after running such a long distance. Half Marathon starts at Bandra and ends at CST station. Oh, these were the true athletes testing their mettle on the ultimate test of endurance, I thought! And suddenly, I saw so many older guys also (successfully) taking that challenge; one of my project managers also ran the half marathon and completed it. And it took

away my biggest mental block on whether I should attempt this format. In fact, that 6km Dream Run changed my entire life.

Earlier running Marathon was unthinkable, but now I was determined. If so many people could run marathon, why couldn't I? So I prepared and ran my first Half Marathon in the next year, followed by the Full Marathon the year after and then just kept on doing it. In the process, I developed a liking for running and I am not sure when it changed to a passion. That has driven me to convert many into runners. For the next year, we have a 30 people team from VSIT participating in the Dream Run that includes teachers as well as students. I am sure that will generate quite a few runners who will take the baton forward.

In a nutshell, I would say – try it once. Soon



you will realise you don't need an alarm clock to wake up in the morning. You will automatically wake up, put your running gear on and just start running. Believe me it generates loads of energy that will help you chase the biggest of your dreams and more!

**Makarand Deshpande**  
Adjunct Professor, VSIT

# Goal- To see Indian Football score well

Football is a game which has many things associated with it - be it passion, determination, hard work, concentration, fame and money. But where has football in India reached? Well, to be honest, football is still a question mark in India. We are so keen and interested in cricket that not many give importance to other sports. It isn't that no initiative is taken to promote football in India; there are local matches, tournaments, I-league (a domestic premier football league). Movies like Goal and Football Shootball Haya Rabbaa have tried to promote football in India but still there has hardly been any response from people. In recent times the All India Football Federation (AIFF) has taken the help of Indian cricketers to promote football in India, as the current generation knows Indian cricketers more than footballers. If you ask any Indian teenager today about good footballers, the names they will come up with would be Ronaldo, Rooney, Messi, Neymar, Ronaldinho etc. But not many know about national stars like Baichung Bhutia! What could be the reasons?

## Gems of the past

From time to time, the Indian football team has a wide array of gems who have contributed their best efforts in getting the team a shining performance in international events. In yester years, we have had a wonderful line-up of maestros who made the country glorious at many tournaments with their impeccable skills. These include the names such as Gostha Pal, Subimal Chuni Goswami, Sailen Manna, P K Banerjee,



Peter Thangaraj and Jarnail Singh Dhillon.

## Modern Brigade of Indian Football

The current team has not been performing as it once used to at the international level, and there are many reasons behind that, and lack of adequate funds is one of them. Still, Indian football has some stars, who have been making the nation proud with their sheer performance in various tournaments and championships. Some of these modern jewels of the Indian football are I.M. Vijayan, Baichung Bhutia, Sunil Chetri, Climax Lawrence, Mahesh Gawli and Shanmugam Venkatesh.

## Reasons Why Indian Football is not popular

Some of the reasons why Indian football is languishing are:

- Lack of modern amenities: Well-equipped stadiums with modern facilities, good support staff, talented coaching staff and various other ground amenities.
- Lack of contribution at world level: In cricket the Indian team has won many laurels, but in football India has not won any major world event. The contribution of Indian team at world level is almost zero and they have failed to qualify for FIFA for many times.

- Lack of response: It's not hard to find cricket lovers in India, but football doesn't receive as much appreciation and applause as it should. Even though the team has worked so hard they receive very little in terms of response and encouragement.

## Changes required for betterment of Indian football

The following are the changes that we the youth of the nation aspire to see in Indian football:

- Better amenities such as well equipped stadiums with modern facilities and various other services
- The management committee of national level should be encouraging football at local levels to increase interest of people in it
- The corporate and management committee should try and encourage more participation
- People should give the kind of appreciation this sport should get
- Many local level tournaments should be set up to encourage and discover the young football talent of nation
- All India Football Federation (AIFF) should make India participate in as many major events and tournaments as possible to give the team much international exposure

A recent development by the Football Federation of India has been to promote football in India by the introduction of I-league which has team owners film stars like Ranbir Kapoor who owns Mumbai FC & on the other hand we have sports persons like Sachin Tendulkar who have come forward to motivate football. We hope this league gives a much needed impetus to football in India.

**-Muvic Jain**  
S.Y. (B.M.S)-B, VSIT