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*Not just magnitude but also the direction!*

# VECTOR

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## Eager Beaver VPians outshine in Industrial Training- From Students' Diary

In general, the main objective of Industrial Training is to expose students to the actual working environment and enhance their knowledge and skills from what they have learned in the college. Another purpose of this program is to instill the good qualities of integrity, responsibility and self-confidence. VP organized industrial training program for ThirdYear Diploma students to provide practical and hands-on knowledge in a proper work environment. The training program aimed to sharpen technical skills as well as soft skills of students.

### Diary #1 (Received Rs 24,194 Stipend)

I had done 6 weeks' internship from May - June 2019 in Sun Pharmaceutical Industries Ltd., an MNC. The head office is located at Goregaon, Mumbai.

On the first day, I was very nervous about how the day would be, but it was nothing difficult. I got a lot of experience about industrial atmosphere during this tenure. I had been given work



on VB.NET which is a small part of their major application. Although at initial stage I had to face many difficulties and obstructions, yet I was successful in completing the task and now it is being used in their application.

The major thing I realized during this internship is that we need to tackle with different mindsets of people and our behavior should be as good as possible. After internship, I found a new me, the more self-confident and independent. In all, this internship was very fruitful for me. At the end, I received a stipend of 24,194 along with the certificate.

I would like to thank MSBTE and Vidyankar Polytechnic for providing me this wonderful opportunity.

– Shrishti Singh  
CO5I

### Diary #2

For my industrial training, I was allotted NCC Telecom Pvt. LTD, headquartered in Goregaon, Mumbai. It focussed on home automation solutions in the field of IoT, which is a fairly new field in the technology tree.



It manufactured its own devices like switches, centralised hubs, video cameras, etc. and took care of its software development and web architectures.

I was sent in a team of three. The whole six weeks period is a learning opportunity where you learn from your seniors, colleagues and by yourself. I learned a lot of things there, almost from scratch, like PCB designing in Ki CAD, Arduino programming and circuits, Python 3 basics, THT and SMD soldering, device installation, etc apart from the soft skills and got to know many different IoT components and platforms.

A positive break from the daily routine is fun already, added to the excitement of doing something new every day is rejuvenating. Also, the employees of the company maintain a positive and fun environment.

In essence, I would say that the training was fun and educative experience and I thank Vidyankar Polytechnic for providing this great opportunity of experiencing real work environment and acquiring new skills. These six weeks have been wonderfully educative.

– Nilay Puranik  
EJ5IC

### Diary #3

My experience of internship at Airport Authorities of India taught me more

than I could have imagined. As the Network Engineer, I feel my duties were diverse, and ever-changing. I feel that these are some of the most beneficial lessons I have learned. My internship has definitely given me a better understanding of my skills set and where my career may take me.

This being my first position in an office atmosphere, I didn't know exactly what to expect. The environment here was quite relaxed, yet it taught me how to behave in the workplace. Just observing the everyday events has taught me a lot about teamwork, and how people can come together to get things done. I feel I've adapted to the office life relatively well.

Like I said, this internship has improved my skills a ton, both off paper and on paper. I didn't realize it all of this time, but this position served not only as a positive learning experience, but a resume builder as well.

– Prince Karania  
IF5IB



## Celebrate Independence

15th August. A date that is drilled into the memory of every Indian since birth. Independence Day is, in today's world, seen as a break from grueling jobs and an opportunity to consume free snacks post the flag hoisting ceremony in one's housing society. But what most of us fail to realize, is that Independence Day is so much more than a 15 minute ceremony, free food and a mid-week holiday. It is the result of the sweat, blood and sacrifices of thousands of people, who only dreamt of freedom, which we take for granted today.

Independence Day is a tribute to all the martyrs who gave it their all so that we could have everything that we enjoy today. Bhagat Singh, Lokmanya Tilak, Netaji Subhash Chandra Bose, among many others, are all household names, but many fail to realize the challenges faced by them during their days of struggle, registering their tales of valor as mere stories. Imagine that you are a freedom fighter and you are under

risk of detention. The crime you had committed? Relentlessly fought for a free India, free from the oppression of foreign usurpers. You hear a loud knocking on your door, which then suddenly bursts open, and in no time you are captured by the men in scarlet. This was a glimpse of how the life of a freedom fighter was. And this was just the tip of the iceberg. The torture, execution, and threatening of family were the horrifying things which followed. Yet, against all odds, our brave ancestors managed to rid our beloved nation of the Britishers. After years of oppression, on the 15th of August, 1947, India was finally free.

Today's generation needs to realize the importance of what happened and what a monumental feat it is, that we are independent today. We need to educate our generation and the generations to come, so that they will realize the true gift that they have been provided, and cherish their citizenship to this nation, while proving themselves to be responsible citizens. There are a

number of ways in which we can achieve this. We can play educational videos for the kids during special programs held in schools to raise awareness. Rallies can be conducted with people giving public speeches. Special programs can be conducted for the people to celebrate the lives spent in attaining independence as well as the freedom we enjoy today.

The major point of Independence Day is to commemorate one's love for India. And this patriotism is very essential. You are a representative of India wherever you go. May it be within the country or anywhere in the world, you are the face of India and its people. And patriotism is what drives you to make your country proud in whatever field you choose. In the end, the love for our country is what makes us passionate, driven, motivated, proud, enthusiastic, fearless, and most of all, shape ourselves as global leaders, ready to conquer the world. Jai Hind!

– Shubhankar Salvi,  
BE CMPN (B) VIT



# Seminar on Review on Budget '19

The Research and Development Committee of VSIT in association with the Dept. of Management Studies, VIT, organized a session on “Review on Budget 2019” on Friday, 19th July 2019. The session started with the introduction of eminent speakers- Dr. Amartya Lahiri, Director, Centre for Advance Financial Research and Learning (CAFRAL), R.B.I, Mr Sameer Narang, Chief Economist, from Bank of Baroda and our very own Adjunct Faculty Dr. Chandrahas Deshpande, Professor-Economics at Welinkar Institute. Dr. Amartya Lahiri took over the stage and started with the highlight which was on the investment and the outcome of the budget session.

Union Budget 2019 highlights were tax cut for middle class, and relief for small farmers. A few numbers are useful to put in perspective the development challenge that India faces today. India's current gross domestic product (GDP) is around \$2.5 trillion while its GDP per person is \$2,000. With an annual population growth of 1.1 per cent and aggregate GDP growth of 6.6 per cent, India's per person GDP is currently growing at 5.5 per cent annually. At these growth rates, India's per person GDP would be around \$19,000 in

2060. Development is a challenge globally, not just in India. The per person GDP of the richest 5 per cent of countries in the world is over 50 times larger than the per person GDP of the poorest 5 per cent. Mr. Sameer Narang spoke on output produced by combining labour of different skill types, land, capital, energy and public infrastructure. Combining these inputs also requires entrepreneurship and management. For example, at the level of the firm, managers who are better at matching the skills of individual workers to tasks are able to generate higher revenues. This applies at the level of the country as well. It is the unmeasured X-factor that is commonly referred to as productivity. He also highlighted few points' on-Individual taxpayers with annual income up to 5 lakhs rupees to get full tax rebate. Individual with gross income up to 6.5 lakhs rupees will not need to pay any tax if they make investments in provident funds and prescribed equities. Tax slabs for those with income over Rs.5 Lakhs remain unchanged. Standard tax deduction for salaried persons raised from Rs.40,000 to Rs.50,000. TDS threshold on rental income raised from 1.8 lakhs to 2.4 lakhs.

Dr. Chandrahas Deshpande talked about that enough in-



vestments are not happening in India, lack of private investment is there so try to raise the level of investment in modi 1.0. Some issue was on economic and labour reforms, how to raise the economy or funds. There are subvention schemes- SME's various measures- Sagar Mala, Bharat Mala etc. Government should focus on foreign direct investment, foreign portfolio investments. GST council providing some relief on corporate tax whose income is upto 400 crore rupees.-increase in Gratuity limit is from 10 lakhs to 30 lakhs.



TDS on interest income from deposits in banks and post offices is up to Rs. 40,000 earlier it was Rs. 10,000. Businesses with less than Rs. 5 crore annual turnover, comprising 90% of GST payers, will be allowed to return quarterly returns.



Direct tax collection from 6.38 lakh crore rupees in 2013-14 to almost 12 lakh crore rupees, tax base up from Rs. 3.79 crore to Rs. 6.85 crore. After the speech of all the speakers, there was interaction amongst the audience with questions.

## Impression of the Budget on a Student's Mind

Student success is defined by many factors such as individual achievement, involvement in classroom and college activities among many others. Whereas being a student of financial market, one must constantly be updated about events and activities pertaining to the financial market. The 2018-19 budget review seminar which was conducted by the BFM Department helps the aspiring financial market student to gain a good insight into the union budget. Additionally, industrial visits give the students a good opportunity to obtain a hands-on experi-

ence in practical aspects in their respective fields and also get expertise advice from top level management officials. In a competitive corporate market, honing various skills and awareness of the pertinent knowledge influences absorption into the labour market. It has been said that “knowledge is like a garden, if it is not cultivated, it cannot be harvested.”

The Budget is that pivotal moment of a financial year that both attempts to improve the economic growth of the country and foresee the potential of various economic policies on the institutions and public simultaneously.

Budgetary decisions greatly establish a nation's global standing and additionally, ensures a healthy regulation of every organizational body in the economy. This year's budget drew a lot of attention because after a long time, India witnessed a woman running the Finance Ministry. Interestingly, instead of the colonial inheritance of the briefcase, the budget was contained in a unique red bag which had the national emblem tied to it. An action that breaks tradition by returning to tradition might just index the beginning of a propitious financial year.

— Arul Singh, VSIT

## Entrepreneurship Cell

*Entrepreneurship is about being able to face failure, manage failure and succeed after failing* – Kiran Mazumdar Shaw

Entrepreneurship Cell of VSIT is one such committee which inculcates entrepreneurial habits amongst students. It helps an individual to transform completely. This committee has conceptualized and successfully implemented various initiatives to help students, young entrepreneurs and professionals in their successful journey. Much like the aforementioned quote, the journey towards learning all about entrepreneurship has taught me about facing challenges and confronting risks.

Being the President of E-Cell, I can surely state that E-Cell is one such platform which has helped me evolve from an introvert, unwilling to participate, to a confident and a proactive human. It introduced me to various such opportunities which helped me to bring the best out of myself. My journey with E-cell has been a wonderful ride. From being a participant, to the core team member and then the President, it has been nothing short of eventful.



Students conduct different activities such as workshops, seminars, competitions, networking sessions, etc. An individual develops various skills such as organizing skills, persuasion, communication, relation building, team building skills, etc. Apart from these skills, an individual gets exposure to the external world.

E-Cell, VSIT has helped me in a lot of ways - not only as member but also as an individual. It is my privilege that I could be a part of such a wonderful committee.

— Nishi Chopra,  
President of E-CELL, VSIT

# The GATE Connect

The 73rd Independence Day of India coupled with the occasion of Rakshabandhan, saw one of the finest assemblage of students, faculty, industry experts and GATE toppers in an event called the GATE Connect, held at the Panini Auditorium, V.N. Bederkar College at Thane. The main function of the event was to stimulate interest in undergraduate students in a superior national-level exam such as the GATE by getting their queries and doubts resolved from speakers in different domains and simultaneously providing a lively and friendly forum. With the GATE experiencing an elevated reception in budding engineers year-on-year, it is all the more mandatory for an institution such as Vidyalankar to hold an event that provides aspiring GATE candidates with the right access to guidance to crack the GATE exam along with information on the avenues that open up with the exam.

The event progressed with a short introduction to Vidyalankar's teaching expertise since 1960 in various competitive exams by Ms. Shweta Apte (the Academic Advisor at Vidyalankar with student counseling experience of more than 17 years) through an interactive session. The speakers provided students with information and perspective to crack the GATE. Also, strategies, schedule-making and definitive industry research domain-specific, branch-specific ideas and experiences were shared by eminent faculty and GATE qualifiers.

Mr. Nikhil Patil (GATE AIR-121), M.Tech., IIT Bombay with an industry experience in BOSCH and experienced in coaching for GATE for more than 9 years, helped students by devising strategies in GATE preparation, time management, one-year plan, cracking PSU rounds and many more profound and practical insights. His to-the-point and accurate subject analysis and articulate deliverance helped a lot many students with uber encouragement. Mr. Ketan Pachpande, IIT Kharagpur, currently working in VERITAS and teaching GATE aspirants for more than a



decade, imparted valuable information on job-market trends, leveraging GATE preparation for interview rounds in top MNCs, expanding scope of employability in global markets, not confining only to conventional PSU jobs, etc. The able-minded professor of Mathematics could eloquently satisfy students' queries.

Kartavya Kothari (GATE-19 AIR 45 CS) gave his GATE just last year in 2019 and who is currently pursuing his M.Tech. from IIT-Bombay with a Teaching Assistantship really understood the nerve of the GATE aspiring students as he smoothly managed to touch all phases of preparation during the final years of the Engineering course. With his excellent oratory skills, he could provide solutions to overcome all hurdles in student-life while preparing for the GATE and the final year Semester exams. As

he shared his insights on how to tackle GATE preparation, how to set priorities, how much to prepare for the Semesters, it was evident that GATE preparation requires hard work, but, over and above that, smart planning takes more credit.

The event, GATE Connect, as its name suggests really connected with the students and the experts and could provide a platform for students to ask their individual questions directly to the faculty and GATE Rankers. Parents also dotted the audience and were keen to know about the prospects through GATE for their wards.

The event saw a delightful end with the National Anthem being played. Parents and students lingered around for a bit of personal advice from the speakers, which was very generously provided.

— Team Vidyalankar

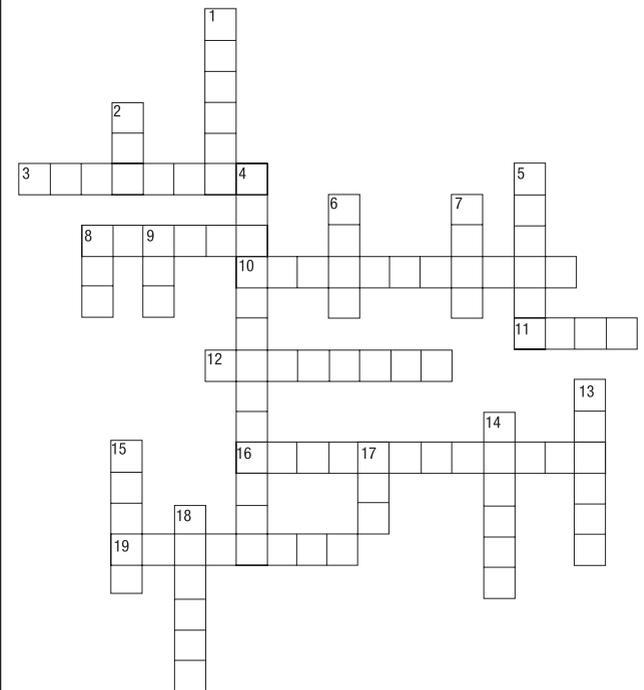
## What is friendship all about?

*It was something you did for me out of the blue,  
 And I didn't have a smidgeon of a clue,  
 You stuck to my side just like glue.  
 My confidence in self was revived by you.  
 We didn't have time to hang out,  
 But that's not what friendship is all about,  
 We often did bicker,  
 But that's how our bonds kept getting thicker.*

— Jainil Sampat, IF5B, VP



## Computer Technology



### Across

- 3 Files on disk that contain instructions for a computer
- 8 A copy of a file or disk you make for archiving purposes
- 10 A program in which you do your work
- 11 A list of program commands listed by topic
- 12 1024 megabytes
- 16 A program that allows you to change settings in a program or change settings in a program or change the way a computer looks and/or behaves
- 19 A central computer from dedicated to sending and receiving data from other computers

### Down

- 1 A program on a computer that tells it how to communicate with an add-on piece of equipment
- 2 The smallest piece of information used by the computer. In computer language, it is either a one or a zero
- 4 A printed circuit board that adds some feature to a computer
- 5 An acronym for compact disc read-only memory
- 6 The generic word for an application, document, control panel, or other computer data
- 7 A piece of computer information made up of eight bits
- 8 A programming error that causes a program to behave in an unexpected way
- 9 Central Processing Unit. The processing chip that is the 'brain' of a computer
- 13 To send a file from one computer to another through a network
- 14 To save a previously saved file on a new location and/or with a new name
- 15 A system malfunction in which the computer stops working and has to be restarted
- 17 Acronym for Random Access Memory
- 18 The pointer, usually an arrow or cross-shaped, controlled by the mouse

“You have to learn the rules of the game. And then you have to play better than anyone else.”

— Unknown

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# Oh just play around!

Remember a typical family get-together (well, before the advent of cell-phones)? Was that over a very basic card game, Scrabble or Uno? Maybe classic board games like Monopoly, Risk or Battleship. Board games have always ruled and how! The number of new and exciting games has exploded in the last several years as designers dream up space adventures, deck-building sagas, zombie survival; the creativity is beyond limits. Here is a list of some of the most popular Board Games of 2019:

**Nemesis** is a cinematic and cardboard reincarnation of the sci-fi horror classic – Aliens.

**Wingspan** is a breathtaking engine-building game where you + 5 friends compete to coax flocks of birds into nature reserves.

**Root** is the best asymmetric strategy Board game that happens when you mix political dynamics of Star-Wars into Brian Jacques’s Redwall Series.

**Hardback** is the mash-up of Boggle and Dominion when an exceptional deck-building word-game is born.

**Claustrophobia 1643** is a two-player strategy game of survival, hellfire and demonic combat.

While Monopoly and Jenga are still stacked up on your game-shelves, high-end games like Catan, Splendor and Dixit are also in demand. Dixit, a card game introduced just 10 years ago, tops the charts among the list of more than 450 games. Mantri Cards — a game of trump cards — is live on Wishberry and had raised Rs. 1.52 lakh from 100 backers as of June. Designed by Pune-based data visualiser Anuja Pitre, the game contains information such as net worth, declared assets and criminal cases of 100 Members of Parliament.

Board-game area has totally turned antonymous to neogeekism. With Gaming Cafes sprouting in every nook and corner of the city, you can hope to sit down with your office-mates for a game or two. Cafes like Pair-A-Dice, D:OH, The Little Door, Creeda Board Game Café, Doolally Taproom, Hoppipola, Ministry of Games are new age fusion bars where you can enjoy Board games



with Karaoke, Craft Beers and good food together! Imagine the happiness that you get when you find a little escape while searching for a laid-back experience in Calangute Goa, finding Tio Tilly’s Bar on Zomato Gold and when you’re enjoying the best Pizzas, a bunch of your closest friends losing to you in a Board Game at 2:30 am!

The emergence of this new board game ecosystem in India is largely attributed to the exposure of urban Indians to a similar culture in the West. Ludo can be your favourite game, but little did you know that you’re actually playing a simplified version of an Indian game – Pachisi. “The game of dice in Mahabharata, that sends the Pandavas to exile, is known to be Pachisi. Even the kings and queens of India have played Pachisi. During the Mughal rule, Akbar played Pachisi with his slaves acting as pawns,” says Neha Murthy, the founder of Pachisi, established to bring back ancient



Indian Board games.

Board game inventions have ventured past the regular road. There might be a housing crisis, a global pandemic, extremist rallies, a downturn in the economy, anything and everything. Board game inventions have a high-value proposition for investors too! In 1935, the United States Patent and Trademark Office (USPTO) issued a patent for Monopoly, the most successful and beloved Board Games of all time. Darrow became the first millionaire game inventor, thanks to IP Laws and royalty payments. IDC, IIT Bombay auctioned its 10 Board Games in 2011 that were developed by students and was able to sell it to Funskool India (a joint venture between Indian tyre giant – MRF and US-based Hasbro Inc.). LuminoTrapz, Delta Attack, Magneteyez, Feel-Fill-Fit, Cric-Tic, Wobble and Over-the-Top were some games developed by IDC. Funskool India, the toy manufacturer based in Chennai, says



board games category has grown by double digits in the last five years. “We expect it will maintain this growth rate for the next five years,” says John Baby, the CEO.

Players too can participate and win Global Board Game Tournaments like Meeplecon that’s happening in December 2019. There’s a lot to add. Visual artist Amit Ghadge, 34, has designed more than 20 games for companies in the UK and the US. Based upon the number of components and stylization, Mumbai-based Ghadge charges between Rs. 40,000 and Rs. 3 lakh per project. The global board-games market is divined to reach values of more than \$12 Billion by 2023, growing at a CAGR of over 9% during 2017-2023.

**Board Games and IP:**

**Copyright:** All of the artwork of the game, including the board itself, any cards or miniatures it includes and any drawings in the instruction booklet are all protectable under copyright.

**Trademark:** A Trademark

can protect the name and other aspects of a board game.

**Patent:** In order to be patentable, the game mechanics must be unique and non-obvious.

Do you know about the Indian lawyer who turned IPR into a Board Game? Yes, in 2009, Lawyer Pravin Anand created the Anaryst. For starters, it’s a locally developed game, a rarity in a business where international games such as Monopoly, Scrabble, Risk or Scotland Yard, largely owned by global companies such as Hasbro Inc. and Mattel Inc., rule the roost.

“The toy industry has largely been dominated by the Chinese. There’s a need to invent in India new playing possibilities in the games for children to interest and educate them”, says Prof. Athavankar, IDC, IIT Bombay. It’ll be no surprise if you plan to launch a new Board Game under Make-in-India for your next nationalist agenda. JaiHind.

– Shruti Karnik Gupte, qVirK