Action Taken Report of IQAC

Sr. No.	File Description
1	Action Taken Report of IQAC for Academic Year 2017 - 2018
2	Action Taken Report of IQAC for Academic Year 2018-2019
3	Action Taken Report of IQAC for Academic Year 2019-2020
4	Action Taken Report of IQAC for Academic Year 2020-2021

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Action Taken Report of IQAC

for

A. Y. 2017 – 2018

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ACTION TAKEN REPORT

Academic Year 2017-2018

Quality assurance is a by-product of organising efforts to establish an institution's objectives, create a work plan to attain them, and assess the degree to which each job is completed. The actions taken by the institute on the discussions/resolution made in the meetings of IQAC committee members are given herewith-

Sr. No	Resolution in IQAC Meeting	Action Taken
1	Formation of IQAC committee.	The IQAC was constituted as per new NAAC guidelines on 7th July, 2017 with due consideration given to composition.
2	Academic Planning.	Academic calendar was prepared and circulated to all departments.
3	Organising seminar/training programs/short term training program	1) IT and Computer departments organised one-week ISTE approved STTP on "Internet of Things and It's Applications" 2) IT department organised one-week ISTE approved STTP on Programming with Python and R. 3) Chemical engineering department organised two Days Workshop for Students on ""Line Sizing/Pressure Drop Calculations/Pump Sizing in Process Engineering" and "Flare & Relief System in Oil & Gas Industry" 4) EXTC Department organised one day workshop on Android applications and IOT. 5) Biomedical department organised two-day workshop on Imaging for the Future- Current and Future Technologies.

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4	Research promotion	In the current academic year 36 research papers and books were published by the faculties.
5	Admission process	Review of admission process for AY 2018-19 was done.
6	Performance appraisal	Faculties were asked to submit the self -appraisal forms to the IQAC.
7	Departmental annual report	Head of departments were asked to prepare department reports and submit the same to IQAC.
8	Teacher/students/Student Committees awards	1) Prof. Seema Kolkur and Prof. Vaishali Suryawanshi were awarded as best mentor for the projects they guided at Project Expo-18. 2) Dr. Archana B. Patankar was "Best Faculty of the year" under sub category Published Research. 3) CSI- TSEC won the Best College/Institute of the year" under sub category "Introduction of innovative new programs and courses" at the CSI TechNext India 2018 - Awards to Academia at IIT Powai. 4) Soham Kanvinde and Richa Doshi received the Best NSS Volunteer award.

Gopal Pardesi

(Coordinator IQAC)

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Dr. G. T. Thampi

(Principal)

THADOMAL SHAHANI ENGINEERING COLLEGE

Action Taken Report of IQAC

for

A. Y. 2018 – 2019

ACTION TAKEN REPORT

Academic Year 2018-2019

The Internal Quality Assurance Cell has taken necessary initiatives to promote excellence in academic and administrative affairs. The actions taken by the institute on the discussions/resolution made in the meetings of IQAC committee members are given herewith-

Sr. No	Resolution in IQAC Meeting	Action Taken
1	Preparation towards NBA and NIRF	NIRF data was uploaded on the online portal. Application for NBA accreditation of chemical department was done.
2	Academic Planning.	Academic calendar was prepared and circulated to all departments.
3	Organising seminar/training programs/short term training program	1) Computer department organised one- week ISTE approved STTP on "Machine learning with Python" 2) Computer department organised two-day workshop on AI and ML. 3) Computer department and IT department organised two-day workshop on AI and DL. 4) Chemical department organised one week workshop on "Process simulation using DWISM" 5) EXTC department organised one week workshop on SKADA technology. 6) IT department organised one-week ISTE approved STTP on "Digital Forensics".

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4	Proposal for code-storm and Hackathon.	To increase the coding ability and technical skills of students the IT department organised code-storm Hackathon while the computer department organised Hackathon.
5	Admission process	Review of admission process for AY 2019-20 was done.
6	Performance appraisal	Faculties were asked to submit the self -appraisal forms to the IQAC.
7	Departmental annual report	Head of departments were asked to prepare department reports and submit the same to IQAC.
8	Teacher/students/Student Committees awards	1) Students of IT and Computer department won the Smart India Hackathon organised at G.H. Raisoni Engg college Nagpur. 2) Students of IT and Computer department won the Smart India Hackathon organised at National Institute of Technology, Trichy. 3) Students of IT and Computer department won the Smart India Hackathon organised at Kumaraguru College of Technology, Coimbatore. 4) TSEC students won NEC Environment Hackathon, held at Gurgaon. 5) Three TSEC students won the best NSS volunteer award. 6) Mr. Romil shah won the Unnat Bharat Abhiyan Leadership award. 7) Miss. Smriti Rao won the 1st Position in state level project competition organised at D.J. Sanghvi Engineering college, Mumbai.

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9	Mission of departments	The mission statements were discussed and after some modification the mission statements were approved.
10	PEO's and PSO's	The PSO's and PEO's of the departments were discussed in the IQAC meeting. After slight modifications the PEO's and PSO's of the departments were approved.
11	Research promotion	In the current academic year 26 research papers and books were published by the faculties.

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Action Taken Report of IQAC

for

A. Y. 2019 – 2020

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ACTION TAKEN REPORT

Academic Year 2019-2020

The Internal Quality Assurance Cell has taken necessary initiatives to promote excellence in academic and administrative affairs. Prospective plans to enable efficient functioning of the institute in academic and administrative affairs were chalked out in the beginning of the academic year. The actions taken by the institute on the discussions/resolution made in the meetings of IQAC committee members are given herewith-

Sr. No	Resolution in IQAC Meeting	Action Taken
1	Improvements in quality of teaching.	Feedback from students was collected and analysed. The faculties who got low feedback were advised to take extra efforts on teaching and content preparation.
2	Plan for work from home	Detailed plan to assign work during "work from home" was prepared and informed to all the faculties. Faculties created and circulated E-content of their respective subjects. Subject wise periodic quizzes were conducted to check the preparedness of the students.
3	Organising seminar/training programs/short term training program	1) Computer department organised one-day workshop on "Android App development". 2) Computer and IT department organised three-day workshop on AI and Deep Learning. 3) Computer department and IT department organised one-day workshop on Machine learning. 4) Chemical department organised One Week ISTE Approved STTP on "Leveraging Digital content to

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		build productive class room Engagement"
		5) Biomedical department organised one day workshop Xeuron'20.
		6) IT department organised One Week ISTE Approved STTP on "Infrastructure & Cyber Security".
4	Proposal for code-storm, Hackathon and Toycathon	To increase the coding ability and technical skills of students the IT department organised code-storm Hackathon while the computer department organised Hackathon 2020. The Computer/IT department organised all India level competition "Toycathon".
5	Admission process	Review of admission process for AY 2020-21 was done.
6	Performance appraisal	Faculties were asked to submit the self -appraisal forms to the IQAC.
7	Departmental annual report	Head of departments were asked to prepare department reports and submit the same to IQAC.
8	Research promotion	In the current academic year 13 research papers and books were published by the faculties.
9	Students result analysis	All departments collected results of their respective students. Detailed analysis was done. Extra lectures were arranged for the students who scored less marks in internal test exams.
10	Departmental budget	The HOD's were asked to prepare and submit departmental budget at the start of financial year.
11	Teacher/students/Student Committees awards	1) Dr. Seema Kolkur received "Best Paper Presentation" award at IFERP.

		2) Dr. Archana Patankar received "Best Faculty of the year" under sub category Best Faculty - Evangelizing and Contributing to Spread of knowledge across several institutions at the CSI TechNext India 2019 - Awards to Academia.
		3) Chinmay Umrikar, Rutuja Pawar and Komal Aswani won Leadership award from Mumbai Uiversity.
		4) Urmi Jethani won UBA Leadership award.
		5) Vishal Nalawade, Parth Dhila, Yugashree Chaudhary and Shikhaa Sushil won best NSS volunteer award.
		6) Raj Motwani and Anushka Pathrikar won best UBA volunteer award.

Gopal Pardesi

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Dr. G. T. Thampi

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Action Taken Report of IQAC

for

A. Y. 2020 – 2021

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ACTION TAKEN REPORT

Academic Year 2020-2021

The Internal Quality Assurance Cell has taken necessary initiatives to promote excellence in academic and administrative affairs. Prospective plans to enable efficient functioning of the institute in academic and administrative affairs were chalked out in the beginning of the academic year (2020) and implemented during the academic year 2020-21. The actions taken by the institute on the discussions/resolution made in the meetings of IQAC committee members are given herewith-

Sr. No	Resolution in IQAC Meeting	Action Taken
1	Plan for work from home	A detailed strategy for assigning work during "work from home" was created and shared with all faculties. Faculty developed and disseminated E-content for their particular topics. Periodic subject-based quizzes were held to assess student's readiness.
2	Starting of new branch AIDS	New branch Artificial Intelligence and Data Science was started from the current academic year with a intake of 60. Proposal to further increase the intake by 60 is send to AICTE for approval.
3	Organising seminar/training programs/short term training program	1) IT department organised one-week STTP on "Emerging Quantum Computing Paradigm: Radically change the way we conduct business processes." 2) IT department organised All India level project competition "Technovation'21" 3) Computer department organised one-week STTP on " PROGRAMMING with JAVA" 4) Chemical engineering department organised

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		Alumni webinar and placement webinars. 5) EXTC department organised one day workshop on Artificial Intelligence.
4	Proposal for code-storm and Hackathon.	To increase the coding ability and technical skills of students the IT department organised code-storm Hackathon while the computer department organised Hackathon 2021.
5	Performance appraisal	Faculties were asked to submit the self-appraisal forms to the IQAC.
6	Students result analysis	All departments gathered the results of their students. A thorough investigation was carried out. Extra lessons were scheduled for students who received lower grades in internal test examinations.
7	Admission process	Review of admission process for AY 2021-22 was done.
8	Teacher/students/Student Committees awards	1)Miss. Vijal Jain received the best paper award at IEEE-GRSS. 2) Four Students won Smart India Hackathon 2020 - Software Edition. 3) Five students won NSS Leadership award. 4) Three students won UBA Leadership award. 5) Four students won Best NSS volunteer award.

Gopal Pardesi

(Coordinator IQAC)

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(Principal)

6.5.3 Quality assurance initiatives of the institution include: Annual reports of Institution

Sr. No	Details
1.	Annual Report for A.Y 2016-17
2.	Annual Report for A.Y 2017-18
3.	Annual Report for A.Y 2018-20
4.	Annual Report for A.Y 2020-21

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Annual Report for A.Y 2016-17

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*I*t is heartening to note that TSEC continues to retain its premier position in the field of Engineering Education. In this era of rapid disruption, breathtaking innovation and the rise of Artificial Intelligence, the future of our nation is indeed in the hands of our bright young Techies. Our Indian Talent has provided role models on the global stage with Satya Nadella and Sundar Pichai at the helm of the most powerful conglomerates. But it is time now to "Make in India" and to build Indian Organizations to compete with Microsoft and Google and Facebook. India must regain its vantage position of being the cradle of inventions and discovery and must lead the way for establishing norms of happiness and harmony for a world which is beleaguered with turmoil and violence.

We have to pause and ponder and define some guiding principles so that we can achieve our objectives. Educators and Administrators have a duty to provide an atmosphere conducive for constructive competition and challenge for students so that they might bring forth revolutionary technological solutions to everyday problems. It is a fact that the founders of Google got their support and seed funding from their Indian professor – Rajeev Motwani at Stanford University.

Students have a duty to make the most of the opportunity of education that is unfortunately denied to so many. They should be committed and dedicated to acquiring knowledge and applying that knowledge for betterment of society. The idealism should be a lifelong companion, but finally one should learn to take everything with a pinch of humour and learn to laugh together whilst traversing on this path of self-evolution.

Synapse is the medium to reflect the commitment and dedication and the intelligence and innovativeness of the professors and staff and students of this wonderful college. I am sure the TSEC family will enjoy reading it and learn from it as well.

Mr. Anil Harish
President
HSNC Board

Socio—economic and political doctrines can reverse their direction of propagation on encountering bottlenecks and stagnation. Recent global events point to inward looking processes to strengthen home advantage, independent of commitments for the immediate neighborhood. Altruism is slowly taking a back seat to facilitate pragmatic nationalism, and this hugely affects the aspirations & apostles of globalization as well as the desire to build a fair global community.

Artificial Intelligence and automation threatens budding Thomases, and is daring to write off existing systems. For example, the concept and construction of the Autonomous Vehicle has been hyped much in advance, and it is destined to be a failure in the conceivable future only to come back again after a few decades. Maverick entrepreneurs often toss lofty ideas and invest massively, assuming that there is going to be a chain reaction or a massive revolution; one must beware of these entities and the associated heroics. Aside from this, there are forecasts of massive disruptions in energy, transportation and service sectors.

Product and process life cycles are in play, and even nation states are subjected to this natural process. Independent of focused and passionate efforts to unleash Indian entrepreneurial spirits by political establishment, the Indian state is on the cusp of economic resurgence. Kudos to the Indian Government's vision of becoming a trillion dollar economy by 2022, energised by both knowledgeable workers and skilled manufacturing personnel.

Even with all the negative publicity, the Information Technology sector recruited 50,000 graduates in the last quarter (Jan-March, 2017) and 1.7 lakhs in the last year (2016-17).

Technology education thereby shall witness a sea of change in the way it is conducted by eliminating 'no-value adding' activities that crept in during the process of replicating American higher and technical education ecosystem. The technology education shall reinvent itself by not allowing oneself to be subjected to cognitive illusion.

Heartfelt congratulations to both Magazine secretaries Ms. Suhasini and Anushree for their diligent and enthusiastic efforts in capturing the collective mood and consciousness of the campus and translating the same in words.'

Dr. G T Thampi
Principal

I In the burgeoning arena of engineering institutes, TSEC stands strong and indomitable as it truly embodies the spirit of "To strive, to seek, to find, and not to yield". Synapse 2017 is a physical testament of this impalpable spirit that thrums through the veins of each and every one who is a part of the TSEC family. The editorial board and I are proud to present to you this year's issue of Synapse. It encapsulates our journey of the past year and highlights all those glorious moments and achievements that deserve perpetuity through the pages of the annual college magazine. I am glad to say that the future leaders we mentor are not just innovative and insightful but also highly attuned to the world around us and its hydra of problems, as is evident from the stimulating contributions towards the magazine. I hope you will enjoy reading the magazine as much as we enjoyed putting it together.

Dr. Chumki Biswas
Editor-in-Chief

SUHASINI LULLA
magazine secretary

ANUSHREE JAI
joint magazine secretary

HIMA LALWANI
graphic designer

SAGAR SHAH
graphic designer

MAHEK MIRCHANDANI
managing editor

NEERAJ KHADAGADE
photographer

PRATIK BAJAJ
photographer

VRAJESH SHARMA
editorial team

RHEA ATRE
marketing team

FROM THE MAGAZINE TEAM

It gives us immense pleasure to present to you TSEC Synapse 2017, the annual magazine of this institution.

Synapse, in the literal sense of the term, is a dynamic nerve junction found everywhere in the human body. At TSEC too, team Synapse strives to allow the confluence of ideas.

This year, we have done all that we could to aptly document experiences, achievements, dedication and the joyous moments at TSEC. The literature and artworks published this year are proof of the immense talent that the college harbours; from talking about digital economy to body positivity, the unconditionality of love to mobile security and over dependence on technology, a wide spectrum of globally relevant topics have been written about. Art has found a unique spot in this edition of Synapse, including a small tribute to the childhood favourite; Linkin Park also finding its way into the magazine.

KARAN KATARIA
photographer

DEEPAK RAICHANDANI
photographer

SAGAR KACHHWANI
marketing team

YASH KALWANI
web development team

ROHIT ROHRA
editorial team

KRISH SHAH
marketing team

PARTH MANTRI
public relations officer

MILI IYER
editorial team

NIMISH SULE
editorial team

SAKSHI BAGAYATKAR
public relations officer

Truly, it has been an exciting challenge to sift through a wide range of contributions from TSECites, all of which were of high calibre. The putting together of this edition has been a very thorough and meticulous effort from all the 19 of us in the team. The countless debates, editing and compiling sessions, and of course the intricate designing of each and every page of this magazine are experiences that the team will cherish for years to come.

For all the efforts to bear fruit, it was crucial for Dr. G.T. Thampi, Dr. Mani Roja (Dean, Students' Affairs) and Dr. Chumki Biswas to provide us with their altruistic guidance and inspiration to look beyond the obvious and present to you, a true synapse. None of this would have been possible without their unwavering support. A special shout-out to our staff proof readers who have helped us along the way, for their vision and direction.

We sincerely hope that each one of you enjoy reading the magazine and in doing so, feel the unity in diversity at TSEC.

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Team Synapse 2017

TSEC Students' Council SCOM

It gives me immense pride to write as the General Secretary for our college magazine Synapse. I thank Team Synapse for providing such a vibrant and lively platform. Synapse, with the coverage of various events in college is a reflection of student life at TSEC.

Becoming the General Secretary proved to be an enriching and enlightening experience. All this would not have been possible without my fellow Students' Council members who have been with me through every twist and turn. I truly admire their meticulous planning and immense hard work which helped pull off marvelous events like Yudh, Marathon, Women's Day, Traditional Day and Trifles. I would like to mention the colossal contribution of every junior committee member towards the success of all events. Similarly we witnessed literary events like Carma and Speaktacular (MS), technical festivals like Rubix (CSI), Oscillations (IETE), Tantravishkar (IEI) and Chemergence (I/ChE) which have glazed every sphere of student activity in TSEC. Not to forget NSS TSEC which has been the torchbearer for social and community service through its events like Blood Donation Drives, Cleanliness Drives, Camps, a sincere service to humanity. The newly inducted Rotaract Club is a wonderful feature including activities ranging from sports to community service.

The focal point of this tenure has been the Entrepreneurship Cell or E-cell, which is now fully functional and striving towards encouraging new ideas and entrepreneurs. The first event of E-cell-Project Expo received a marvelous response by students as well as teachers.

I would like to thank our principal, Dr. G.T. Thampi sir for his guidance as well as Prof. Shilpa Verma and Dr. M. Mani Roja for their tremendous efforts along with all the teachers who helped make this tenure a great success. I wish all the students a very bright future!

ROHAN VARTAK
General Secretary
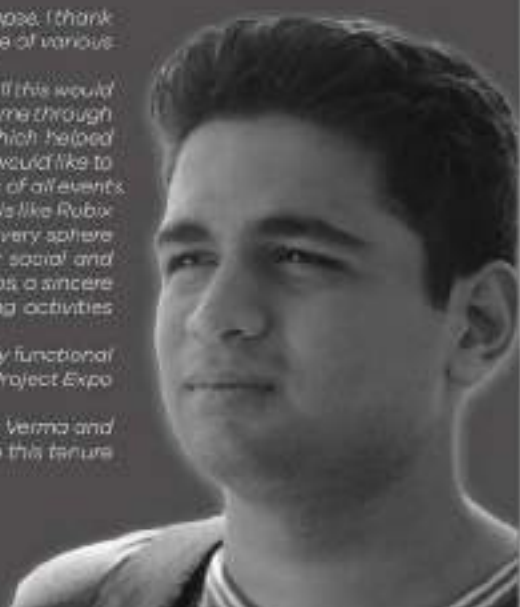
In my three year long journey with Synapse, I have worked in various capacities with different committee members, each having the common goal of encapsulating the essence of TSEC in one book. Every experience has been valuable in its own right. Having worked under very capable Magazine Secretaries in the first 2 years, I have learnt a great deal, which I aspired to apply during my tenure as Magazine Secretary. I am humbled to have been handpicked to take on this responsibility by our revered Principle, Dr. G.T. Thampi. The Dean of Student Affairs, Dr. Mani Roja, never hesitated to extend her helping hand, whenever required. Dr. Chumki Biswas, our Editor-in-chief has been our guiding light, steering us right from the inception to the publication of this issue.

Fond memories come to mind of times spent in meetings at our self-designated spot outside the VL. There was brainstorming, storyboarding, and assigning of duties among other tasks, which began with stormy discussions but thankfully ended with unanimous decisions. I am grateful to the committee who braved all obstacles, maintained unity and brought out their creative best.

Make perfection your goal! The 2017 edition of Synapse grew out of this vision and I hope it meets the standards expected by one and all. No task is trivial. Approach all challenges head on.

SUHASINI LULLA
Magazine Secretary

It's funny how mere words can move our worlds around. Being handed over a tenure where I am to ensure that TSEC gets the right words to express itself, I must say the challenge has been a thorough one. Synapse, true to its biological meaning, has always hosted TSEC in its inherent vibrancy, bringing the various fraternities that make this educational institution worthy, closer together, thereby binding us all in a great network strengthened by intellect, trust and confidence.

This year, whilst covering all the activities at TSEC, we witnessed the diversity of thought and the joys of college life. What really struck me though, is that TSEC is a brand of its own. It gives you a tryst with the ruthless competition that awaits outside, but also caresses the novice, thereby ensuring that all who step out are professionals capable of charting their own success stories.

The credit goes to all those who make TSEC, TSEC; the faculty, the staff and all students, united in a purpose to move up the ladder, despite the diversity in their destinations.

It is a matter of great pride when I think of the people that were brought together for Synapse 2016-2017, as everyone takes back something valuable from this experience, and as a leader, that is what counts. The words achievement and success hold little value without continual growth and progress. I sincerely thank our Principal sir, Dr. G.T. Thampi, Editor-in-chief Dr. Chumki Biswas and Dean Dr. Mani Roja for their altruism and prudence that has made this tenure a fruitful one.

Don't be too hard on yourself, you will find your way and your place. Head up, stay strong.

ANUSHREE JAI
Joint Magazine Secretary

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Thank you seems to be a diminutive word to express the honor and gratitude that fills my heart today, for having been given the opportunity to be the Cultural Secretary for the year 2016-17. The experiences during this tenure have been life altering, forever etched deeply in my heart and mind. Transparency and hard work were the key factors which made all the endeavours a grand success. With the TSEC Students' Council, I found a family, and Trifles is the emotion that holds this family together. No amount of words can express the appreciation I feel towards Trinisha Jain the Joint cultural secretary, the senior and junior committees that stood by me like a rock making all the events look easy. Hereby, I also extend my heartfelt thanks to Dr. M. Mani Roja for her precious time and helping us manage everything smoothly and most importantly, a sincere thank you to our Principal Dr. G. T. Thampi, for his incessant willingness to help us throughout this journey. He was with us through thick and thin with his inspiring and encouraging words.

I would like to end with a quote that I have truly believed in: "There will be obstacles, there will be doubters. But with hard work, there will be no limits."

SHRADDHA SURESH
Cultural Secretary

"Look at the sky. We are not alone. The whole Universe is friendly to us and conspires only to give the best to those who dream and work."
—Dr APJ Abdul Kalam

The dream I hold closest to me is, "Forbes, not Vogue." Similarly, another dream that formed when I was a part of the TSEC Students' Council Junior Committee, was to raise the bar of the cultural activities at TSEC. And, I could realise this dream because I was given an opportunity to be the Joint Cultural Secretary. This journey albeit only a year-long, gave me lessons for life. One stands out thus: Don't ever let anyone tell you that you can't do something. If you've got a dream, you've got to protect it. You want something, go get it. This is what has propelled me to achieve my goals and brought me closer to my Forbes dream. This tenure was also a platform for me to give back to the college for all that it does to shape our future.

Trifles'17 would have not been possible without my parents' support, Dr. G.T. Thampi Sir, Dr. Mani Roja Ma'am and the teachers' committee. As it is said, a leader's journey is all about 'we' and not 'me'; I would like to thank the TSEC Students' Council, my Junior and Senior Committees.

When the odds are against you, don't stop. Breathe, believe and move ahead. Keep faith because, "It all works out in the end."

TRINISHA JAIN
Joint Cultural Secretary

In my first year, I noticed that the LR was a role that could contribute to making a difference in the lives of students and staff. I was curious to know more, and this curiosity over a period of time turned into an ambition to become one.

When I got selected I had a couple of agendas in my mind. To maintain the liberal and supporting environment that has been consistent with TSEC. And, to provide a conducive environment where all the shy girls could speak and be heard. As I reflect back on the year gone by, I feel truly satisfied that I could contribute towards these points very well.

International Women's Day celebrated on 8th March was influenced by the theme 'Defining Feminism'. This role has given me great opportunity to interact with all the girls and female faculty of our college. I feel much more confident to step ahead in my career.

I take this opportunity to thank our Principal Dr. G.T. Thampi sir, Dean Dr. Mani Roja ma'am and all my friends for their support during my tenure.

SANSKRUTI KARKHANIS
Ladies' Representative

Women's Rights and Feminism has never been more relevant than in today's times and I was fortunate to be bestowed with the honour of being the Joint Ladies' Representative of our college for the academic year 2016-17. International Women's Day was celebrated on the 8th of March with great gusto. There was active participation from all faculty and students.

We invited non-profit organisations to help them promote their causes and interact with students. Holding this post has been one of my greatest experiences and also an opportunity to connect with the staff. I feel proud to be a part of a college that encourages us to live in a liberated environment. I extend my deepest gratitude to our Principal, Dr G.T. Thampi, and Dean of Student Affairs, Dr. Mani Roja for giving me this opportunity and for their support and guidance without which this would have not been possible.

I would like to congratulate everyone a very successful year and wish them good luck. Never give up on your dreams!

MEHAK JETHMALANI
Joint Ladies' Representative

I feel honoured to represent the college as the Sports Secretary of TSEC. I feel content to say that during my tenure the sports contingent participated at various events in and around Mumbai bringing out their best performances throughout the year.

'YUDH 2017', the only sports festival at TSEC witnessed an overwhelming response. This year as many as 34 colleges were hosted by TSEC, which sure is a tremendous achievement.

The 'TSEC MARATHON' of 2017 saw fair participation with runners from all over India. None of this would have been possible without my committee and also the Joint Sports Secretary Parth Gangar.

"Difficult road often lead to beautiful destinations". The journey had difficulties which were overcome with proper steps and problems rectified easily. Success was achieved by the Sports Committee regardless the situation. I want to wholeheartedly thank the Principal, Dr. G.T. Thampi and the Dean of Students Affair, Dr. Mani Roja for supporting me throughout the year to accomplish our goals.
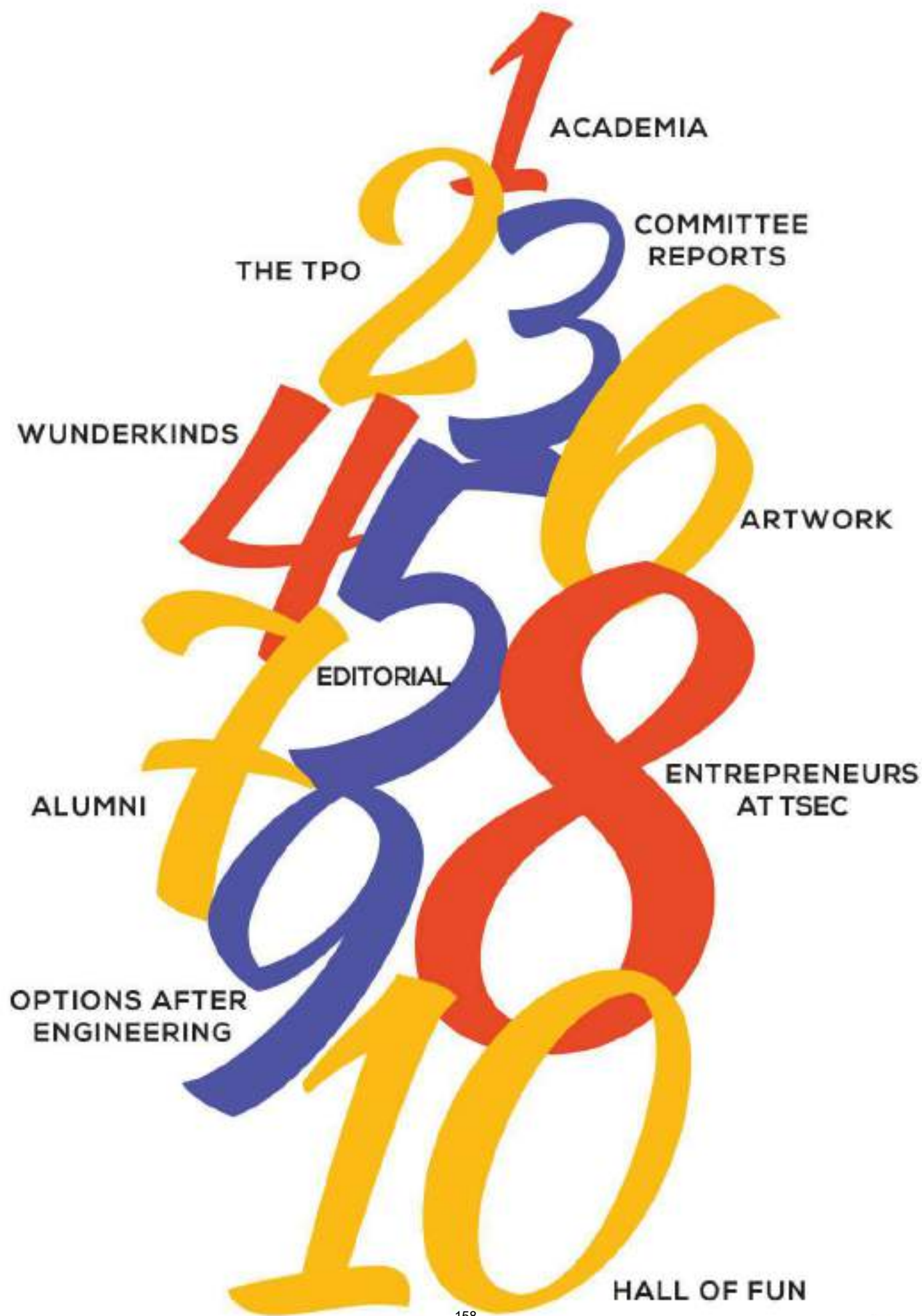
KUNAL KESWANI
Sports Secretary

I would like to thank Synapse for giving me the opportunity to share my experience as the Joint Sports Secretary for the academic year 2016-2017. Excellence, Time Management, Team Work, Success, Failure and Leadership truly define my tenure. Our annual sports festival, YUDH was a grand success as it witnessed students participating in various sports from more than 30 colleges. The fourth edition of the TSEC Marathon had the underlying theme of RUN TOWARDS ZERO HUNGER. The enthusiasm shown by the people and the support from our committee members and volunteers truly made the Marathon an event celebrated with spirit. The TSEC Sports Contingent performed exceptionally this year. The TSEC Football Team made it to the finals of the HSNC tournament. Such a great tenure would not have been possible without Kunal, the Sports Secretary and the TSEC Sports Committee.

I would like to thank our principal Dr. G.T. Thampi and Dean of Student Affairs Dr. Mani Roja for their support. My motto after this tenure stands thus "Success isn't always about Greatness, it's about Consistency. Hardwork results in Success. Greatness will come. When life puts you in tough situations don't say, why me. Instead say BRING IT ON".

PARTH GANGAR
Joint Sports Secretary

1 ACADEMIA

2 THE TPO

3 COMMITTEE REPORTS

4 WUNDERKINDS

5 EDITORIAL

6 ARTWORK

7 ALUMNI

8 ENTREPRENEURS AT TSEC

9 OPTIONS AFTER ENGINEERING

10 HALL OF FUN

1.ACADEMIA

COMPUTERS

2017

Established in 1984, Thadomal Shahani Engineering College's Computer Engineering department has always strived to be the best in its class, by encouraging excellence and providing means to achieve the same. The department has always gone outside the curriculum to organize trainings for cutting-edge technologies for its students.

The batch of BE 2015-2016 achieved a splendid result with 100 securing distinction and 43 achieving first class out of a batch of 147 students. 139 from the BE batch appeared for placement and received 135 received placement offers.

Faculty Accomplishments:

- Dr. Tanuja Sarode and Dr. Archana Patankar were appointed as professors in
- November 2016
- Dr. Archana Patankar awarded 'Distinguished Professor' by CSI Technext IIT Bombay.

Seminars Conducted for Students:

- Course on IBM SPSS, a statistics software generally used for data mining, January 2017- (Coordinated by Dr. Archana Patankar)
- Certification course by Microsoft on cyber security was conducted, February 2017 – (Coordinated by Prof. Sakshi Surve and Prof. Manisha Dumbre)
- Design workshop 'Design for Life' conducted by Illumine labs
- Guest lecture on Engineering Sustainability and Cloud Computing
- Project Expo by E-CELL, a project exhibition competition – organized by Dr. Tanuja Sarode and Prof. Tasneem Mirza

Project Expo Winners in Computer Engineering:

- Winner: Software defined radio using Raspberry Pi - Aman Asrani, Rishabh Khot, Vipul Koul. Guide: Prof. Tasneem Mirza.
- Runner Up: Smart mirror - Karan Soni, Darshit Vakil, Chirag Galani. Guide: Dr. Tanuja Sarode

New Committees Established:

- E-CELL (TSEC's Entrepreneurship Cell)
- TSEC CodeCell:

'We are delighted to announce TSEC CodeCell, an organization with the simple aim of nurturing a much-needed culture of coding in TSEC. We want to build a community of students who wish to explore programming beyond the syllabus and learning skills that are industry relevant. With regular competitions and industry sessions to sharpen your skills, we strive to transcend your dormant potential to productive competency in the marketplace.

For more details like our page: https://www.facebook.com/TSECCodeCell'

–Prof. Tasneem Mirza

INFORMATION TECHNOLOGY

2017

Thadomal Shahani Engineering College's IT department was established in the year 2002 with 30 seats. Ever since, the department has grown immensely over the past years, with an intake of 120 seats.

It has strived for technical betterment of its students by organizing guest lectures on topics like big data analytics, software engineering and advanced internet technologies as part of covering content beyond syllabus. Project Expo, which was conducted as an inititative of Enterpreneurship cell had many students participating in it, showcasing their projects. Pranish of TE (IT) secured first prize for his project on "Outstation students searching shelter on webapp". Under the guidance of Prof. Sanjay Pandey, BE(IT) students Pranav, Anshul, Arjun and Saahil received the second prize for their project at the same event.

BE (IT) students Sourabh Nair, Sagar Punjabi and Navin Nainani took part in a national level project exhibition held in KJ Somaiya college of engineering and bagged the Runners up prize under the guidance of Prof. Sampada Pinge.

IT Department's achievements in the field of academia is also evident from the staff publishing papers and giving lectures in short term training programs in various other colleges and industry. Dr. Madhuri Rao has been published in 2 international journals and one international conference. Similarly, Prof Shanthi Therese has been published in 2 international journals and one international conference.

Prof. Bhushan Jadhav was invited to deliver a talk on "Big data Analytics and cloud computing" in different colleges across Mumbai and Pune. He was also a part of the panel discussion for "cloud computing and technologies" with industries' CIO organized by Department of Computer Engineering at SAKEC where teachers and students of different engineering colleges of Mumbai and Navi Mumbai participated.

Prof. Shachi Natu completed her Ph.D. and Prof Nagaveni has registered for Ph.D. Dr. Madhuri Rao, who joined as HoD last year has a message for students: "IT department offers a friendly and welcoming environment for its students. The department provides incredible learning experience and gives opportunity for plethora of other extracurricular activities. The department not only teaches to excel in academics, but also caters to the holistic development of students to shape them as leaders of tomorrow. Department of IT has recorded consistent improvement in its academics, research and placements. With this, I welcome you to be a part of our journey towards being a centre of excellence in education, training and research."

EXTC

2017

Thadomal Shahani Engineering College's Department of Electronics and Telecommunication was established in the year 2002. The accomplishments and accolades of the teachers and students of this department are second to none, and have only been increasing exponentially, year after year, with this year being no exception. The department has received minor research grant from Mumbai University for the research Project "Touch in Digital Camera".

Faculty Achievements:

- HoD Dr. Ashwini Kunte attended a CII coordinated Education Summit in August 2016. Accompanied by Dr. M. Mani Roja, she also attended a CII coordinated Conference on "Building Competitiveness" on 17th March, 2017.
- Dr. M. Mani Roja delivered a lecture on "Fundamentals of Digital Image Processing "on 27th Jan, 2017 in FDTP organized by St. Xavier's Technical Institute. Further, she delivered a lecture on "Guided and Unguided Media" For SPCE Electrical Engineering students on 10th March 2017. She also chaired a session in "International Conference on Advanced Trends in Engineering" organized by DMCE, Airoli on 7th April, 2017
- Dr. M. Mani Roja, Prof. Medha Somalwar, Prof. Anushree Gupta and Prof. Vijayalakshmi Badre have attended various EXTC syllabus revision committee meetings organized by Mumbai University.
- Prof. K.K Mathew chaired a session in "International Conference on Innovative & Advanced Technology in Engineering" organized by Atharva college of Engineering on 13th of Jan 2017.
- Prof. Anushree Gupta attended a two day FDP on "Laboratory Experimentation with CADENCE Toolset for Analog VLSI design" on 14th and 15th of Dec 2016 and another two

day FDP on "Hands on training on System simulation Tools" on 5th and 6th of August 2016.

- Prof. Shristi Bhatia attended a 2 day seminar on "Hands on experience of VHDL System Generator" at DBIT, Kurla from 4th to 6th of Jan 2017.

Faculty and Student Papers Published:

- Inder Wadhwa, Neerav Dharra, Sahil Chhabria, Srishti Bhandari and M. Mani Roja, "Life-saving Support System", IRJET, Vol.3, Issue 10, Oct,2016, PP:550-552, ISSN: 2395 -0056.
- Inder Wadhwa, Neerav Dharra, Sahil Chhabria, Srishti Bhandari and Anushree Gupta," Robot Navigation System Using RFID", IRJET, Vol.3, Issue 10, Oct,2016.
- S.Makhija, A.Khatwani, M.F.Khan, V. Goel, Dr. M. Mani Roja, "Design & Implementation of an Automated Dual-Axis Solar Tracker with Data-Logging", IEEE International Conference on Inventive Systems and Control, 20th January 2017.
- S.Makhija, A.Khatwani, Dr. M. Mani Roja,"Performance Analysis of Latent Fingerprint Enhancement Techniques", IEEE International Conference on Innovative Mechanisms for Industry Applications, 21-23 February 2017.
- Naina Lohana and Mani Roja, "Internet of Things", IJRTE, Volume-5 Issue 4, September 2016
- Neeru Pathak, Anam Shaikh, Apurva Varalikar and Tanmay Thakur, "LPG Gas Detector using a GSM Module", IJCS, pp: 307-313, Volume 3, Issue 4, April 2016.
- Mr. Saurabh S. Maydeo, Mr. Amit S. Hatekar "Artificial Intelligence – A Paradigm of Human Intelligence". International Journal of Computer Trends and Technology (IJCTT) – Volume 39 Number 3 - September2016.
- Prof. K.Y.Rajput has published articles on Operational Amplifiers and Digital Memory Devices in Exponent Journals.
- The students have also proved themselves by participating in Transform Maharastra Competition organized by the Chief Minister of Maharashtra. Mr. Prathamesh Shinde, Ms. Shivani and Ms.Tejal have won second prize in the project competition organized by VIT, Mumbai

Guest Lecture:

- One week Training Program on Satellite Communication at BSNL, YEUR Earth station took place from 2nd Jan to 6th Jan 2017.
- 'VLSI and Embedded System Design' and Fuzzy Logic Application.

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CHEMICAL

2017

The Department of Chemical Engineering was established in TSEC in the year 1983. Under the able guidance of the HoD Dr. Sadhana J Purohit, this department is always regarded as the ideal educational model.

This year, efforts to help students get familiarized with the rising use of high tech equipment for various field related processes were earnestly insightful, and multiple guest lectures were conducted by various industry experts.

Guest Lectures:

- In January 2017, Mr. Vishal Mundhe was invited to talk about 'Advance Process Engineering and Refinery Process Simulation'.
- Mr. Husain Tinwala spoke about 'Overview of Dynamic Simulation' in a lecture in March.
- There was also a session on 'Application of HTRI & Sizing Calculation' by Mr. Pratik Bhagat in April.

Student Accomplishments:

- Raj Bathija secured first place in the Junior Ideation Programme conducted as a part of Vortex, the technical event of ICT Mumbai in September 2016.
- As part of the Student Outreach Programme (SOP), Prof. Usha Nambiar guided Nandita Chattopadhyay and Pranita Rao, second year students, for a poster presentation that was based on 'Water Soluble Plastics'.
- Final year students Pranav Majgaonkar and Nimish M along with third year students Saad Posharkar and Ashish Vazirani developed a protoype for their project and stood first in the Prototype Exhibition at SOP by Chemtech India. They also received a cash prize of Rs. 50,000/- for the same.

Paper Published:

Dr. Sadhana J Purohit, along with students Rajan Mishra and Akhil Subramanium published a paper in the International Journal of Environmental and Agriculture research, Volume 3, Issue-6 of 2017 on 'Hydrogen bonding- The key to desalination'.

With such unparalleled efforts taken by the faculty and students alike, the department is sure to soar greater heights of academic excellence in the years to come.

BIOMEDICAL

2017

Faculty Accomplishments:

Dr. Mita Bhowmick was invited as an expert of Project Evaluation Committee (PEC) constituted by Technology Development Board, a statutory body under DST, Government of India, May 2017.

She was also the Co-ordinator of the University Minor Research Grant Project for the year 2016-17 for implementing the project titled 'Vein detection using infrared for Venipuncture'.

Prof. Dhananjay Theckedath and Prof. Gauri Shukla have presented paper in international conferences.

Visits arranged for students:

- TE Biomedical students had visited NM Medical Center to understand the principle of operation, system description and applications of various Medical Imaging Modalities.
- Visit was arranged for BE SemVIII students to various hospitals like Nanavati, Lilavati, Saifee, Hiranandani and Hinduja hospital to understand the working of different departments at the hospitals.

Seminars Conducted for Students:

- For the first time, hands on workshop for SE and TE students on open software Ruby on Rails and Linux operating system was organized by Prof. Dhananjay Theckedath in the Department.
- The hands on workshop for SE Sem III students was conducted at Yogi Kripa Pvt. LTd on Total Knee Replacement.

BIOTECHNOLOGY

2017

Thadomal Shahani Engineering College's Biotechnology department is an epitome of consistent perseverance and harbours a great deal of opportunities all over the world. Hence its importance cannot be understated in the global economy. Dr. C.S. Kulkarni, the HoD has always taken consistent efforts to upheave the department every year.

Demonstration for Students:

This year, efforts to keep the students abreast with the rising use of high tech equipment for various field related processes were profound, and a detailed demonstration of the PCR (Polymerase Chain Reaction) machinery was conducted. This was done in collaboration with HiMedia Labs for the students of the Third year and Fourth year.

Student Activities:

Various final year students of the department completed their projects at renowned institutes such as TIFR (Tata Institute of Fundamental Research), Haffkine Institute and BioGenomics Ltd. Many groups also got to present their content in a seminar organised at TIFR. IE(I)-TSEC successfully collaborated with the reputed KEM hospital for a two day intensive workshop on the Human Organ Systems for the students of the Second and Third year.

Student Accomplishments:

- Bhakti Chavda, BE Biotechnology completed an internship at Dr. Balabhai Nanavati Hospital in the summer of 2016.
- Shraddha Kadam, TE Biotechnology also successfully completed food technology internships with Cadbury and Gokul.

A common advice dispensed by all faculty members in the department, "Reading research papers published by established experts and insightful thought put in the field will help you uniquely solve current problems of pollution control, drug resistant diseases and food security that is plaguing the world."

MECHANICS DEPARTMENT

HUMANITIES DEPARTMENT

APPLIED MATHEMATICS DEPARTMENT

WORKSHOP FACULTY

LIBRARY STAFF

ACCOUNTS & ADMINISTRATION

PhD.

Vision:

Transcending the processes of research to further the cause of Nation-building and wealth creation for mankind by scaling up capacity and creating a supply chain of human capital for the Research Economy of India.

Mission:

- To initiate post graduates to academic research by identifying local/national issues/dead-locks to contribute to the Nation building process.
- Help develop research temperaments amongst pupils who undertake higher education.
- Focusing on resolving local issues and eliminating nonvalue-adding processes.
- Enabling commercial enterprises to be competitive by carrying out research leveraging frugal engineering practices.

Current status of Ph.D. program:

We started with a capacity of 10 research seats in the subject of Information Technology in 2012 and out of those, 4 scholars were awarded Ph.D. degrees by 2015. Currently, we are having altogether 40 seats in Information Technology, Computer Engineering and Electronics and Telecommunications Engineering.

Research guides of the Institute recognized by the University of Mumbai are:
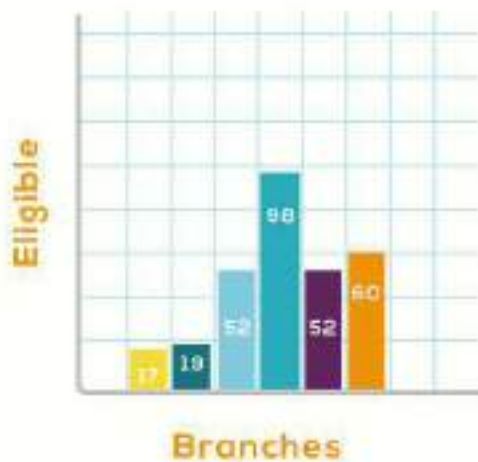
- Dr. G.T.Thampi (3 scholars submitted, 2 awarded with Ph.D., currently supervising 7 scholars)
- Dr. Madhuri Rao (currently supervising 7 scholars)
- Dr. Ashwini Kunte (currently supervising 4 scholars)
- Dr. Tanuja Sarode (currently supervising 3 scholars)
- Dr. Archana Patenkar (currently supervising 2 scholars)
- Five adjunct faculties from other institutes are also supervising the research scholars from our research Centre

2.THE TPO

The Training and Placement Office (TPO) of Thadomal Shahani Engineering College, headed by Associate Professor Sunil Gidwani and Professor Mudita Dixit, has successfully coached and prepped countless students, helping them find appropriate jobs.

2017 PLACEMENT

Eligible

98
52
52
60
19
17

Branches

Jobs

86
87
44
15
10
5

Branches

Bio-Medical
Bio-Technology
Chemical
Computers
EXTC
Information Technology

It gives me immense pleasure to be able to communicate with all the stake holders to the placement cell at TSEC. We have been fortunate enough to have some of the best companies, not only from India but across the globe, to have recruited from TSEC in the past years and am sure will continue to recruit from TSEC in the years to come. My confidence arises from the fact that the student quality remains to be good and the students have been performing above expectations in their jobs.

At this point let me also stress on the following points which have to be done religiously for the placements to remain good.

1) Training for the TE's who are appearing for the placements, is a must.

2) For all students who are desirous of getting placed with the top salaried companies have to note that excellent coding skills is now almost the single most important factor looked at by these companies.

I would also like to thank the principal Dr G T Thampi, HODs of all departments, the faculty for supporting placement cell whole heartedly and encouraging at every step. I would also acknowledge the support from the non teaching staff at all levels. I attribute this success of the placement cell to this single minded support from all the factions of the college and would like to advocate this mantra to all the other colleges.

- Mr. Sunil Gidwani

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Dr. G. T. Thampi
PRINCIPAL
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Bandra (W), Mumbai-400 050.

ACCENTURE
ACCOLITE
AMDOCS
ATOS ORIGIN
AUFKLAREN
AVALON GLOBAL
BNP PARIBAS
CAPGEMINI
DELOITTE USA INDIA
DELOITTE INDIA
DIRECT I
DORF KETTLE
INDIA IDEAS
INFOSYS
ITVTI
JACOBS
JP MORGAN
NSE TECH
ORACLE
PROTEA
PWC
QUICK SELL
RELIANCE
RELIANCE JIO
RELIANCE RETAIL
SECLORE
SIEMENS
SOGOSERVE
TECH MAHINDRA
TRANSASIA
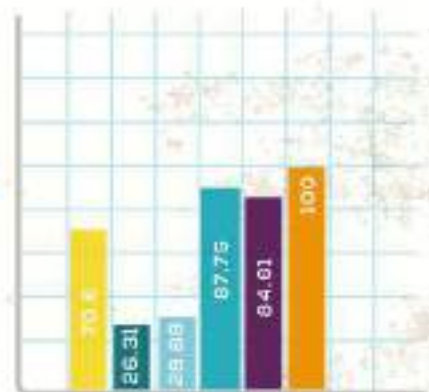VISIBLE ALPHA
VISTAAR
VISTEX
VVF

SOME OF OUR MAJOR RECRUITERS

Job Offers
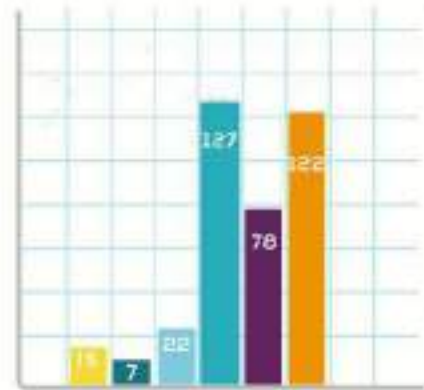
Branches

Percentage Jobs

Branches

- Bio-Medical
- Bio-Technology
- Chemical
- Computers
- EXTC
- Information Technology

Total Eligible Students = 298
Total Jobs = 249
Total Job Offers = 371

Circuit Branches have aggregate of 90.78% jobs.
Core Branches have aggregate of 41.93% jobs.

Number Of Companies In
Phase 1 = 19 & Phase 2 =

Dr. G. T. Thampi
PRINCIPAL

The work of the team under the Training and Placement Officer, Envoys, largely leads up to the day of placement than on the day itself.

Envoys of our college have shown impeccable coordination and management skills on the respective arrival dates of the companies, by bridging the gap between the students and the hiring team. But more importantly, they have personified their responsibilities towards the college by working largely behind the scenes. The work of an envoy is greatly intangible in a way that he/she identifies what is lacking and how to provide it. By performing roles ranging from apprising students of the upcoming companies to database management, envoys make sure that every peer gets a strong chance of portraying themselves and their skills to the real world. Obtaining myriad permissions from the college, arranging the logistics and escorting corporate personnel are just a few of the duties fulfilled by this team.

Bhavika Therani
Keshav Deore
Aditi Naik
Salman Patel
Maneesh Kishnani
Aishwarya Rajput
Bilwa Khekale

Shaurya Kuchhal
Sheldon Gomes
Darshan Siddhpura
Dhiraj Tahilani
Priyanka Vazirani
Abhishek Vakharia
Chandani Gidwani

3.COMMITTEE
REPORTS

TSEC STUDENTS' COUNCIL

Thadomal Shahani Engineering College, an institution renowned for its academic prowess, is also the place to be for its enticing extra-curricular activities. The TSEC Students' Council strives to make a difference in the lives of teachers, students and staff alike by helping them create and cherish memories with various events organized throughout the year. The tenure for this academic session began with 'AVALANCHE 2017', the first festival of TSEC, conducted as an ice-breaker exclusively for the first year students in August.

Every year there are aspirants who wish to represent TSEC at various cultural competitive platforms. The Contingent Auditions held in October provided all students with an opportunity to exhibit their skills in Dance, Drama, Fashion Show and, also the Band.

This year, for the very first time, TSEC got it's very own 'Reading Day', to commemorate the birth anniversary of the visionary leader, Dr. A. P. J. Abdul Kalam. A reading gallery was set up in the Students' Lounge for the students and faculty members to come and unwind in the presence of classics.

The most awaited annual event, Traditional Day 2017 held in March saw a huge turnout of students dressed up in their traditional attire along with the college staff accompanied by the beats of the Dhol. This was followed by the most anticipated part of the day, the unveiling of the line-up for TRIFLES, the annual cultural festival which featured the energetic Siddharth Mahadevan, electronic dance music sensation Zaeden along with popular stand-up comedians Kenny Sebastian and Rahul Subramanian in its 2017 edition.

Like every other year, TRIFLES 2017 successfully hosted a set of enthralling events, of grand stature, which witnessed nationwide participation and celebrity judges. TRIFLES was celebrated with pomp and fanfare from the 24th of March, 2017 to the 26th of March, 2017. The events of Dance, Drama, Fashion Show and the Band Hunt witnessed zealous participation from various colleges of the city. We honour and acknowledge the tireless efforts of Dr. Mani Roja, Dean of Students' Affairs, for her altruistic guidance and unwavering support. We wholeheartedly thank the entire Trifles Teachers' Committee, without whom TRIFLES'17 would not have been possible. Most importantly, we express our utmost gratitude to Dr. G. T. Thampi sir, for being an enlightened visionary we all look up to.

The one lesson that the TSEC Students' Council has always learnt is that, Life's irrepressible ways will never fail to triumph over ineffectual efforts and numerous deprivations and as always, "It all works out in the end."

TSEC SPORTS COMMITTEE

Like every year, the TSEC Sports Committee provided a healthy and amusing break to the hectic and stressful life of budding engineers. Identifying and appreciating the talent of students participating in a wide array of sports has been the motto of the TSEC Sports Committee. It successfully fulfilled its motto by sending contingents to represent the college in various intercollegiate meets in and around Mumbai and also by hosting such events.

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The TSEC Sports Committee kicked off the year by attending the annual national level inter-collegiate meet, ZEST'17 at College of Engineering Pune. A contingent that consisted of 50 students represented TSEC in sports like swimming, table tennis, carrom, basketball, football and badminton. The students got a chance to experience sports at a national level with some of the best sporting talents from the country. The highlight of the trip was that TSEC secured medals in swimming.

The annual inter-collegiate sports festival of TSEC, ' YUDH ' was organized by the Sports Committee. It hosted around 50 colleges from in and around Mumbai. Indoor events like chess, carrom, table tennis and box cricket were organized on the 4th of February in the college campus. There was a turnout of around 600 participants from 32 colleges. YUDH-2017 continued the next day at two separate venues – Badminton held at Andheri Sports Complex and Football held at St. Andrews' Turf. YUDH-2017 Leather Cricket was held from 6th to 10th February at the Oval Maidan. 16 teams participated in the tournament over 4 days.

On 5th March, the TSEC Sports Committee organized the annual flagship event, TSEC Marathon 2017. The event was flagged off by Dr. G.T. Thampi, the Principal. With two BMWs as the lead cars and three Harley Davidsons as the lead bikes, a considerable number of participants ran the marathon. The winner finished in an impressive 22 minutes. The marathon raised awareness for the cause of fight against hunger.

Thadomal Shahani Engineering College has always helped nurture talent and provide a platform to showcase it. Being the only sports based committee, the TSEC Sports Committee has been monumental in promoting the culture of sports as a form of healthy lifestyle and team spirit as the driving force towards success.

Band, Dance, Drama & Fashion Contingents

CONTINGENTS

Sports Contingents

TSEC ALUMNI ASSOCIATION

TSEC Alumni Association was formed in 1994 and since then there has been a constant interaction with the alma mater. To facilitate greater interaction with alumni, a TSEC Alumni App has been developed this year. With the TSEC Alumni app and portal you can not only view or upload your old pictures and videos to bring back nostalgia, but also get intense mentorship benefiting your career! We also feature webinars and expert blogs on diverse topics that'd tickle your grey cells. If that's not enough, job opportunities are widely featured from time to time as well. Networking is also a great way to find your next business partner, your next firm or simply connect to a long lost friend, all availed through this. A ray of silver lining is that we also feature Alumni and faculty interviews to expand your horizons and experience the ever familiar nostalgia of college life. You can also get back to your roots by donating to your alma mater through this app and portal. The association is now handled by five current faculty members.

WOMEN'S DAY

"The story of women's struggle for equality belongs to no single feminist nor to any one organization but to the collective efforts of all who care about human rights," says world-renowned feminist, journalist and social and political activist Gloria Steinem.

Every person – women, men and non-binary people – can play a part in helping drive better outcomes for women. Through meaningful celebration and targeted bold action, we can all be responsive and responsible leaders In creating a more gender inclusive world. The World Economic Forum predicts the gender gap won't close entirely until 2186. This is too long to wait. So around the world, International Women's Day provides an important opportunity for ground breaking action that can truly drive greater change for women.

Thus International Women's Day is all about unity, celebration, reflection, advocacy and action - whatever that looks like globally at a local level. But one thing is for sure. International Women's Day has been occurring for well over a century - and continues to grow from strength to strength. Keeping this in mind, International Women's Day was celebrated on the 8th of March at Thadomal Shahani College of Engineering this year with the theme of 'Defining Feminism'. Our reason for choosing this topic was the realization of a current trend amongst today's masses. Even though Women Empowerment and feminism seem to be the talk of the hour, most of the people talking about it don't even realize it's meaning and implications. Thus, we took this opportunity to set the records straight and spread the true meaning and significance of Feminism in our humble and simplistic ways.

As the true spirit of feminism lies in togetherness and equality of all humans, we celebrated this day with all the various sections of our college; students and teachers alike came together to celebrate this occasion with utmost zeal and enthusiasm. The college was decorated with balloons and paraphilia, along with handmade rangolis by our own talented students. Our principal, Dr. G.T. Thampi inaugurated the event with a sanguine and inspiring speech which was followed by fun activities and games for the teachers and students. We were joined by the activists of NGOs that promote products handmade by underprivileged women from the rural areas. There were dances performed by the students and the festivities came to an end with lunch and the warm feeling of gratitude and mirth.

The success of this celebration is attributed to the active participation and enthusiasm of all the staff and students and we are grateful for all the help and support we received from our Principal, Dr. G.T. Thampi and the Dean of Students, Dr. Mani Roja.

Thus, we in our small ways tried to help inspire our youth and make this world a happier and unequivocal place by explaining simply, as said by Jane Fonda, 'Feminism is not just about women; it's about letting people lead fuller lives'.

MS-TSEC

We, at The Management Society of Thadomal Shahani Engineering College, are a group of individuals that believe that change needs a difference, and that begins with understanding.

MS-TSEC kicked off the academic year with our annual 3-day career management fest, CarMa 2016. The highlights of the festival were Quiztacular, the TM-MUN, a renowned simulation of the United Nations, and Talkathon, a classic debate.

CarMa also saw several other competitions, including the highly popular Classic Jam and Science of Deduction, events that proved without a doubt that entertainment and education are not poles apart. TM-MUN 2016, a flagship event of CarMa, stood as a 3 day MUN conference hosted at the Regus Trade Centre, BKC. This year, TM-MUN saw delegations from many of the city's renowned colleges and schools alike.

Since the inception of Mumbai MUN in 2012, MS-TSEC has played an important role in organizing the conference hand-in-hand with the MUNSociety of Mukesh Patel School of Technology Management and Engineering. Upholding that partnership, MS-TSEC played a pivotal role in research and development, delegate resources, and much more at Mumbai MUN 2017.

The even semester of the academic year saw yet another event by the Society, Speaktacular 2017. Speaktacular is a classic, panel-style debate competition which sees the finest debaters of the Mumbai circuit year after year, coming together to discuss and deliberate controversial subjects, with each team bending and twisting the opinions of packed halls to polarise each mind in their favour. The competition drew to a close, with one team walking away with the award but many more individuals walking away with enriched minds.

Over the course of its tenure in the academic year 2016-2017, The Management Society brought together strangers, and left them feeling like a family.

CSI-TSEC

The Computer Society of India's student branch at Thadomal Shahani Engineering College (CSI-TSEC) completed another successful tenure during the academic year 2016-2017. Their year commenced with the selection of a determined and envisioned committee in July 2016 and ended with their flagship event RUBIX in February 2017, overcoming all the hindrances with persistent efforts.

For the first time ever, CSI-TSEC this academic year, organized the FE orientation thus guiding and introducing the First Year students to TSEC with their well planned and equipped approach consisting of the 'TSEC app', a one stop source to all you need to know about TSEC.

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Its newest addition, 'The FE Guide' helped the students to know about the necessary survival hacks in the vicinity. First Year students were introduced to CSI and its role in the student member's development, also providing its members with Wi-Fi with speeds upto 2mbps and technical and fun goodies.

Next on the chart was TECHNEXT, the odd semester technical fest organized by CSI-TSEC. This developed the basis of technical knowledge of budding engineers by workshops on powerbank making and robotics level-1 along with a seminar on 3D printing. While Prof. Acharya inspired young minds through his orating skills, Mr. Rizwan Shaikh introduced the audience to the world of Ethical Hacking. After TECHNEXT, SYNC-The Project Club invited enthusiastic FEs to help them develop their technical skills and build a project in the First Year itself.

With the commencement of the second half of the academic year, on one hand the selected FEs were overcoming the hurdles encountered to make successful projects under SYNC and on the other hand the committee and the FE volunteers started working towards making RUBIX the greatest it has ever been. RUBIX'17 had the most innovative workshops ever witnessed at TSEC: 3D Game Designing, Go Solar and Virtual Reality along with seminars, coding events, fun events and quizzes. Adding to this, the project exhibition showcased the innovative work of brilliant minds with projects like Smart Helmet, Smart Mirror, Styro Slicer, Stairway and many more.

CSI-TSEC has been awarded the 'Best Active CSI Student Branch' for the academic year 2016-2017.

To sum it up, the chairperson states: "A tenure to the world, a feeling to me. 'Hardship' was synonymous to this tenure, but together we conquered it all, marching our way to victory." CSI-TSEC's academic year defined the outcome of persistent efforts and stated that when you can't find a way, make one.
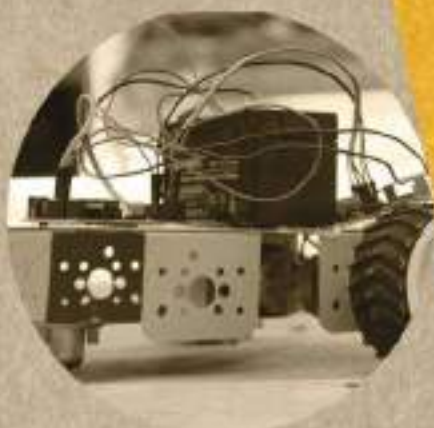
IETE-TSEC

IETE-TSEC conducted 2 events in the academic year 2016-2017: ELAN '16 and OSCILLATION '17.

ELAN '17 was a technical fest, held in September 2016 under the guidance of Dr. Tanuja Sarode. Events like coding competitions, circuit builder, Hack-a-Thon, Internet of Things and project displays were conducted. There have been many organisations who have not only backed us but also supported us in making our fest successful, thus giving us an opportunity to bolster our vision.

The fest saw the presence of professionals from RAIF (Chennai) and Skynet Secure Solutions. The footfall during our festival was around 1000 students.

The RAIF, in association with IETE-TSEC hosted the Indian Robot Premier League (Mumbai Division), an event which took place at TSEC. The IRPL appealed to every student, since it was an amalgamation of technology, design and football. The participants first attended a hands-on workshop on how to make the robot, after which a robot football competition was conducted. The winners and the runner up teams were given a chance to go to Chennai to compete at the main event of IRPL.

Ethical hacking, Circuit builder workshops were also conducted, which gave a good exposure to students about Cyber security and Basic electronics applications. Technical Paper Presentation competition was an event which gave a chance to students to present their technical papers to the judges from their respective streams.

OSCILLATION '17 provided students with a platform to showcase their technical skills and hold their own while competing with students from other colleges. It was held in February 2017. All activities leading up to the fest revolved around a theme. Volunteers got themselves involved with various aspects of the fest under the guidance of committee members. 7 scintillating events were held to get participants to hone their skills. The footfall during our festival was around 1500.

Overall, 2016-17 was an eventful year for the organizing committee as well as the attendees.

NSS

The National service scheme of Thadomal Shahani Engineering College (NSS-TSEC) 2016-17 basked into the 19th year of its community service. Tenure 2016-2017 started with membership drive. Welcome and Orientation - The volunteers were welcomed and a briefing of all the projects/activities to be carried out was done. Independence Day- We celebrated our 70th Independence Day with great pomp and a spirit of patriotism; hoisting of the flag and singing our national anthem.

Monsoon Trek- The volunteers enjoyed the beautiful scenic place near Matheran. Projects like Assisting a blind child, Teach to Preach, Joy of Giving and also we were associated with team Proinnovate as creative, publicity and volunteer partners for the Kabad Ka Jugaad. Swacch Bharat Abhiyaan was conducted at our previous adopted village Belkadi (Vasai Road). Organ Donation awareness drive. Paper Bag distributions were also conducted.

Blood Donation Drives were conducted in each semester by TATA Memorial Department of Transfusion Medicine and we collected a total of 259 blood units donated by our enthusiastic students and teachers in the campus. They were also screened for Thalassemia trait. NSS Residential Camp, Anandwadi at foothill of Matheran as our present adopted village. At the camp we constructed a small Bandh (dam) at waterfall site of Anandwadi that would prevent water seepage. Projects in the camp also included Mass awareness campaign through street play, Disaster management workshop, Cleanliness drive, Health check up from Rotaract club of Caduceus, Dental Checkup by My Dentist and Mass awareness program at Intercollege level titled as "Sena Tujhe Salam". With the journey of this year coming to end; we NSS-TSEC, continue to strive to bring a positive change and to make the society a better place to live and NOT forgetting to believe in our motto — "NOT ME BUT YOU"

IE(I)-TSEC

"The only reason for time is so that everything doesn't happen at once"
- Albert Einstein

IE(I) – TSEC has always aimed to fill the gap between the students and the industries. A successful Membership Drive was organized by the committe to help create a brigade of scholastic minds. It was an amazing experience for the students.

Following the mantra- Innovate, Experiment and Implement IE(I) – TSEC was redolent with the idea of having a theme based tenure. The theme decided was 'Plastics and Polymers: Amenity or Necessity'.

An Inauguration Ceremony was held on the 10th of August, 2016 which witnessed the presence of prominent personalities like Dr. Amit Deshpande, DMG – R&D, Chemicals, TechNova and Mr. Dhawal Saxena, Executive M.D., Blast Carbo Blocks Ltd. The seminar unravelled through the new technological advances and served the audience with a unique vision of the frequently cursed- plastic. TSEC welcomed its first ever newsletter in form of TechnoFlash as a by-product of undivided and ground-breaking efforts by the Magazine Team of IE(I)-TSEC

To acknowledge and nurture role of engineers in the society, Engineer's Month was celebrated with pomp and exhilaration. The month-long celebration ended with a seminar for the inquisitive First Years about projects and internships along with the fun event 'Virtues & Vices' – the 'engineer' version of Snakes and Ladders

The visit to Nipur Chemicals Pvt Ltd, M.I.D.C. Tarapur, held on 15th of November, 2016 had an impact on the crowd. Various misconceptions and queries were addressed by the Industrial Expert who also made them think about solving the challenges encountered by the world currently.

TantrAvishkar 2k17, held on 24th and 25th February, was a national level technical symposium encompassing a total of six events. The 'Project Exhibition cum Competition' witnessed a participation of a wide array of projects ranging from 'DC Tesla Coil' to 'Self Balancing Crane'. The 'Technical Paper Presentation' and 'Poster Presentation' gave the participants an opportunity to exhibit their technical brilliance.

The Second Annual Edition of TechnoBuzz, a technical magazine by IE(I)- TSEC was launched on the opening ceremony of TantrAvishkar 2k17. The magazine published technical articles and research papers by students and revered scientists across the city.

The fest hosted the first of its kind event - 'Design Prodigy ' which tested the fundamentals of Chemical Engineering, and their in-depth technical knowledge instrumental in designing a chemical firm. 'Streak like a Freak' gave a unique opportunity to the students of Biological Sciences to show their artistic abilities in skill of streaking. The brainchild of IE(I) – TSEC, 'Internship Expo' was a success amongst the students. The event played host to companies like BASF, Ciron Drugs and Pharmaceuticals, Clariant to research labs like SDG's Genetic Centre and hospitals like Holy Family offering internships to young enthusiasts.

The journey which seems like a bliss, will further continue to grow exponentially with the future it beholds.

IIChE-TSEC

"Old ways won't open new doors", the Student Chapter of the Indian Institute Of Chemical Engineers in Thadomal Shahani Engineering College has been a constant preacher of this thought.
Since it's inception, a decade ago, IIChE-TSEC body has worked in association with the Department Of Chemical Engineering. The annual National level technical symposium ChEMERGENCE is hosted in the Odd Semester every tenure. The fest spanned over two days.

The inauguration ceremony had the honour of welcoming an esteemed personality, Padmavibhushan Professor M.M. SHARMA, a Chemical Engineering stalwart who inspired the audience by giving an insight about the current Chemical Consortium. The speech was followed by dignitaries Jagdish Pathak and Sunil Vaswani (Business analyst at Accenture). Dr. Alpana Mahapatra (Chairperson IIChE-MRC) presented a realistic and strong message to the students and faculty present.

The ceremony was followed by scheduled activities for Day-1 of the symposium; ChemX lecture Series, Salt Act, TPP elimination, Cooling Tower Design, Heat Exchanger Design and Reactor Design. The annual edition of the technical magazine Catalyst was inaugurated and distributed during the session. Day -2 was packed with events like Chemical Cryptic (Chemical Quiz Competition) TPP finals, HeatX, Reactor Design and PrepIane lecture series.

It all concluded with Prof Sangita Borkar (Deputy Teacher Coordinator) delivering a vote of thanks. Ms. Prapti Shinde (Chairperson IIChE-TSEC student chapter) congratulated all the winners and presented them with certificates and the prizes. Like every year, ChEMERGENCE '16 achieved milestones thus continuing the trend of excellence!

ISTE-TSEC

'Jack of all trades, master of none' has been the conventional belief, and we at ISTE-TSEC have not only challenged this but have also emerged successful, having reached the zenith with flying colours.

The Indian Society for Technical Education, a national, professional, non-profit making Society is the only committee approved by AICTE board. ISTE-TSEC its largest student body has always cherished successful tenures and grand events, raising the bar higher each time.

A new committee of 13 was formed in July 2016 to help TSECites to improve their technical knowledge and imbibe zealous participation in such events. ISTE-TSEC also conducted the Membership Drive, as it was a platform to interact with the ambitious freshers and seek mutual benefits by giving them resources and helping them in the transition to college life and in return harnessing their talents.

In October, ISTE-TSEC was over-whelmed by the response for its intra-collegiate festival CRYPTECH 2016. It consisted of practical hands-on workshops on PYTHON language for beginners and a two level coding contest, CODE WARS. There was overwhelming participation from all students. It added prestige to the festival and a moment of pride for the team.

ISTE-TSEC 2016-'17 very meticulously manoeuvred their tenure and can boast of an illustrious year full of excitement, thrill, friendship and dedication in which ISTE strived for excellence with the complete support of Miss Uttara Bhatt Ma'am.

The academic year 2016-'17 will be regarded as a milestone for ISTE-TSEC. ISTE-TSEC crafted everything scholastically and with agility, thereby thriving and pioneering excellence.

TSEC E-CELL

"The best time to plant a tree was 20 years ago. The second best time is now."

When innovation and dedication come together an entrepreneur is born. The TSEC Entrepreneurship Cell blossomed this academic year with the vision of establishing an environment where new ideas can be cultivated and where innovative minds are not just staring into oblivion.

TSEC E-Cell has the sole mission of providing its students with a platform where they can think, innovate and create. A place where budding entrepreneurs can hone their skills, facilitated with various workshops, seminars and all the necessary resources.

TSEC E-Cell began its activities this year with popular comedian and entrepreneur, Vipul Goyal inaugurating the reinstated and thereby active student body whilst sharing his views on the journey of being an entrepreneur. This was followed soon after by a pep talk by Mr. Krishnakumar Devnally, Director, m-Power Solutions, who guided students on the various aspects of being an entrepreneur, discussing about the nuances of owning startups, thereby clearing all the misconceptions students had about entrepreneurship. The highlight of this academic session was undoubtedly the 'TSEC Project Expo 2017', a project exhibition open for all students across all the four years which was judged by experts from the industry. The project exhibition was a massive success with many students receiving funding opportunities from investors to develop their ideas and make it fully industrially viable.

The TSEC E-Cell hopes to work with the same enthusiasm and zest for years to come and thereby inspire students to create and innovate.

RC-TSEC

The idea of RC-TSEC came about in the year 2015 when a group of students, then in their Second Year of engineering, decided that apart from academics it was time to build a skill set that could help them and other students in their position in future endeavours. Prior affiliations with Rotary Clubs around the city and some patience, planning and convincing gave rise to one of the first Rotaract Clubs associated with an engineering college in the city.

The Installation Ceremony for RC-TSEC took place on the 26th of April, 2016, attended by interested students and dignitaries associated with the Rotary Club of Bombay Airport. We were officially underway.

Our targets for our first year ever included spreading awareness about our cause which was essentially helping our society in whatever way we could. We intended to get the students of our college to take advantage of the resources an RC can offer since the reach of Rotary extends worldwide. A Rotaract Club is not restricted as to what its scope can be. It can undertake sports, technical, cultural as well as community service events.

Events that we conducted,

- RC-TSEC kickstarted its campaign with FUTSAL. 20 teams battled it out at Andheri Sports Complex in their respective groups to reach the knockout stages. FUTSAL turned out to be a success for RC-TSEC as its first ever event.
- Make A Difference, an NGO was undertaking the massive task of beautifying railway stations all over the Mumbai. RC-TSEC provided volunteers for a period of 2 weeks and helped in the beautification of several stations on the western and central lines.
- Old Age Home Visit : For a period of 2 weeks, groups of members visited the St. Anthony's Old Age Home on weekends and spent time with the old ladies housed there. This included karaoke sessions and games like Housie.
- Spread A Smile Initiative : Books, toys, clothes and stationery were collected from the students of TSEC for children at the Desire Society – Institutional Child Care Home. Members travelled to spend time with the children and truly 'spread a smile'.

It is safe to say we met our targets for this year and we ended our term with the community service event carried out by our Junior Committee. Learning how TSEC functions in terms of the internal workings of each committee and the correlation with the college itself has been fundamental to ensure a smoother run for RC. Learning 'what not to do' has been just as important as learning 'what to do'. Now, it's only onward and upward.

4.WUNDERKINDS

Every year, our college students celebrates its achievers by felicitating and awarding them on their accomplishments. The gauging factors are forged explicitly to accomodate all kinds of skill sets, be it leadership, academic success or co-curricular and extra-curricular excellence.

Gold Medalists

Barrister H.G. Advani Gold Medalist
Ajinkya Dhale

K.M. Kundani Gold Medalist
Neeraja Rane

Principal's Award of Excellence

1. Akash Bhat
2. Kaustav Roy
3. Chirag Wadhwani
4. Karan Soni
5. Pranav Majgaonkar
6. Gaurav Mehra
7. Renuka Shahane
8. Hetal Panchal
9. Namrata Nathani
10. Gauri Srivastava

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai- 400 050.

Hall of Fame

1. Purva Kulkarni
2. Abhishek Kanal
3. Sneha Halwasia
4. Rajan Mishra
5. Naman Awasti
6. Rachna Gawde
7. Neha Ture
8. Salman Patel
9. Harsh Mehta
10. Vinay Jaju
11. Krishna Chowmal
12. Kalpnil Anjan
13. Kanchangauri Kulkarni
14. Uddhav Bhosle
15. Niket Shah
16. Manish Kishnani
17. Disha Kathin
18. Aishwarya Raman
19. Anush Anathakumar
20. Darshit Vakil

TSEC Ambassadors

Computer
1. Kaustav Roy
2. Haresh Savlani
3. Namrata Nathani
4. Pranesh Bhavnani
5. Aishwarya Raman
6. Niket Shah

Information Technology
1. Dharmik Ghoghari
2. Dhaval Dedhia
3. Alia Kazi
4. Harsh Uttam

Electronics and Telecommunication
1. Chirag Wadhwani
2. Saurabh Manwani
3. Priyanka Vazirani

Chemical
1. Akash Bhat
2. Pranav Majgaonkar
3. Hetal Panchal

Biotechnology
1. Sneha Halwasia
2. Bhakti Chavda

Biomedical
1. Renuka Shahane
2. Ritu Lahoti

TSEC Leaders

1. Chirag Wadhwani
2. Kaushal Thakkar
3. Ajinkya Dhale
4. Ishpreet Sanghar
5. Prapti Shinde
6. Sumit Rotake
7. Devarsh Muni
8. Suraj Premchandani
9. Rajeev Dhanwani
10. Aalya Kazi
11. Chirag Galani
12. Kaustav Roy
13. Gaurav Mehra
14. Kshitij Checker
15. Mehnaz Sayyed
16. Divya Udyawar
17. Hitesh Paryani
18. Revati Wagh
19. Pranav Majgaonkar
20. Darshan Tina
21. Sagar Dudhani

Semester Toppers

Shivani Hanji II
Twisha Saraiya II

Computers
Pankaj Ajwani III
Richa Doshi III
Ashwathy Menon III
Twisha Saraiya III
Krish Lalwani IV
Jayesh Walavkar IV
Kanika Yadav IV
Jitesh Kale V
Kaustav Roy VI
Neil Notani VI
Pradnya Dalvi VII
Kaustav Roy VII

Electronics and Telecommunication
Gauri Jamsandekar III
Naman Bansal III
Siddhi Sawant IV
Anujaa Biwalkar V
Naresh Naik V
Rohan Nalavade V
Hamid Farheen Khan VI
Ketaki Naik VI
Purva Kulkarni VII

Information Technology
Shubham Singh III
Jui Thombre IV
Suman Dusseja V
Dipti Shah VI
Shreya Jain VII
Shahina Khan VII

Biomedical
Jatin Hemwani III
Bhavi Shah IV
Samhidha Tamhankar IV
Suparna Kumar V
Bhavi Shah V
Renuka Shahane VI
Renuka Shahane VII

Biotechnology
Ruchita Rane III
Simran Khushwaha IV
Reeti Prajapati V
Gauri Srivastava VI
Gauri Srivastava VII

Chemical
Nandita Chattopadhyay III
Shraddha Suresh IV
Yash Khatangar V
Akash Bhat VI
Akash Bhat VII

5.EDITORIAL

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai–400 050.

Instead of making a mushy post about why a dog is extremely important in a person's life, I decided to go a quirkier way. So, I've made up a catalogue, advertising dogs, not that they need to be advertised, have you even seen them? One look and I'm sold. Anyway, here are the top ten features that dogs possess and if you feel that you might want to access a particular feature, go ahead, get a dog. But remember, don't shop, adopt.

1. Personal welcome home system:
Your family may or may not be pleased to see your face every day, but your dog sure will be. It doesn't matter if you come back after just throwing the trash out, or after a weeklong vacation, your dog will still consider you to have returned after a millennia, and there's nothing better than seeing a huge furry mass of 30 kgs come racing towards you at 100 kmph, with the tail wagging fast enough to make you dizzy.
P.S. This feature is activated by default for all visitors, so modifications need to be made by the owner so that unsuspecting guests are not given heart attacks.

2. Personal waste disposal system:
Forget ever needing a dustbin again. Your dog can serve as your very own portable dustbin. Anything from paper to cookie crumbs to chicken bones can be digested, and sometimes unfortunately regurgitated (Hey!Even the best machines can malfunction sometimes), on a daily basis. Best of all, you don't even need to walk to the dustbin because it will follow you everywhere.
P.S. Waste disposal of the waste disposal system needs to be taken care of by the owner.

3. Personal security system:
If you're living alone, or even with a family, you can always catch a good night's sleep, because your four-legged friend is always watching over you. It could be the visitors to your next-door neighbour, the postman, or simply someone dropping a nail in the flat above you, your dog does not underestimate any threat and will warn you, giving you ample time to arm yourself. No one from the mailman to the food delivery guy will be spared, the extensive security check will consist of barking at 100 dB for at least 10 minutes while ignoring all commands to shut up.
P.S. It is recommended to modify this setting so that the dog may calm down on hearing a command.

4. Personal horror movie experience:
Since we are talking about barking at 100 dB, this feature is made even more enjoyable when it occurs at 2 a.m. for no particular reason. Your dog may feel inclined to bark at empty doorways or at blank walls between the sinister hours of 2-4 a.m., making you sweat and start chanting the Hanuman Chalisa, and if you watch Supernatural, emptying the salt bottle all over the doorway.
P.S. To get the full benefit of this feature, please test it while watching a horror movie in which dogs can sense paranormal activities, example, The Conjuring.

5. Personal electric blanket:
Let's get a bit cozy, after that slightly terrifying feature. Your dog can act as your very own, cheap, portable, and sustainable electric blanket during winters. They are capable of keeping you warm all night, do not require to be plugged in, and as bonus points, also teach you survival skills because they will stealthily occupy the entire bed and leave you hanging on the edges.
P.S. Overuse of this feature may compel your dog to display this feature even during summers which may be a bit tiresome.

6. Personal sanitizer and face wash:
You never need to worry about washing your face or hands after a meal, your dog will only be too happy to do so. They never run out of saliva, do not miss a single bit of food, and will always be eager to provide this service.
P.S. It may not be very hygienic, in fact, germophobic may well not use this feature.

7. Personal diet buddy:
If you ever want to lose weight and need someone to help you through it, do not worry. This feature is activated by default in all dogs. Whenever you sit down for a meal, your dog will activate

the 'puppy-dog eyes' feature, which will compel you to give at least half your meal to him.
Side effects: Your dog may gain weight while you lose it. This will help in our next feature.
P.S. While surrendering to your dog, please note not all human foods are suitable for them.

8. Personal fitness system:
Do not worry about wasting money on gyms anymore. Your dog can also act as your fitness buddy. While you surrender to puppy eyes and make your dog fat, you can also keep him and yourself fit by early morning or/and evening jogs. You will also be kept fit by having to chase him around the house whenever he runs away with something important. You can also increase upper body strength by trying to con- trol your dog when he lunges at other dogs, butterflies, humans and every moving thing during walks.
P.S. It is recommended to use a leash and/or collar during walks to ensure the loss of your dog does not occur. In the case of a run-away situation, try calling the dog by its name in a commanding voice and offer treats.

9. Personal portable shred- der:
Your dog is equipped with canine teeth and sharp paws to help you shred everything from paper to door mats. You also do not need to manually empty this shredder, it does that itself.
P.S. this shredder may sometimes over-enthu- siastically shred objects which did not need to be shredded like brand new doormats or important docu- ments. Genetics cannot be held responsible.

10. Personal therapist:
Your dog can now replace ice cream, chocolate, therapy sessions, etc. They come equipped with an empathy sensor,

THE DOG ADVERT

UNMA DESAI
T.E. (COMPUTERS)

which enables them to snuggle up to you and console you with licks and nudges and tail wags whenever you may be sad or lonely.
P.S. This sensor might sometimes malfunction and cause your dog to display the above therapy even in normal situations but we have never got a complaint about that.
Bonus feature:
Personal teacher:
Your dog is equipped to teach you everything that college doesn't. They can teach you to be happy every time someone enters your life, to look at every day like a new opportunity, to be happy in simple nature walks, to express joy at every little thing, to not care about other's opinions, even if they consider you in- sane, to eat whatever you want, to not think about the future and live in the moment, and lastly, to love unconditionally and show the people you love how much you love them, irrespective of what others might think of you.
These are the top 10 features your dog possesses. There are many more hidden features and quirks that are specially made for every individual dog. Adopt yours to find their hidden qualities today!
P.S. Dogs cannot be held responsible for being too loving or too adorable. It is recommended to not fall completely in love with them, although 100% of all owners have failed to heed this warning.

FLUID

At 28, when progeny and promotion lay before her an array of significantly different lifestyles, Neha chose to be promoted. Her choice surprised no one, as she had always been a little too ambitious for her own good. Her parents had finally stopped trying to set her up with guys they thought would be perfect for her. It took her three years, and innumerable rejected headshots, to finally convince her parents to let her take the reigns of her love life. And now, this promotion to the US only proved further how invested she was in her career to be thinking about settling down. As she stood at the airport, with her entire world packed away in suitcases, her parents swelled with pride at the fact that their daughter was the youngest executive in the history of the company to be internationally promoted. Ignoring the strong tugs of longing on their hearts, they said good-bye.
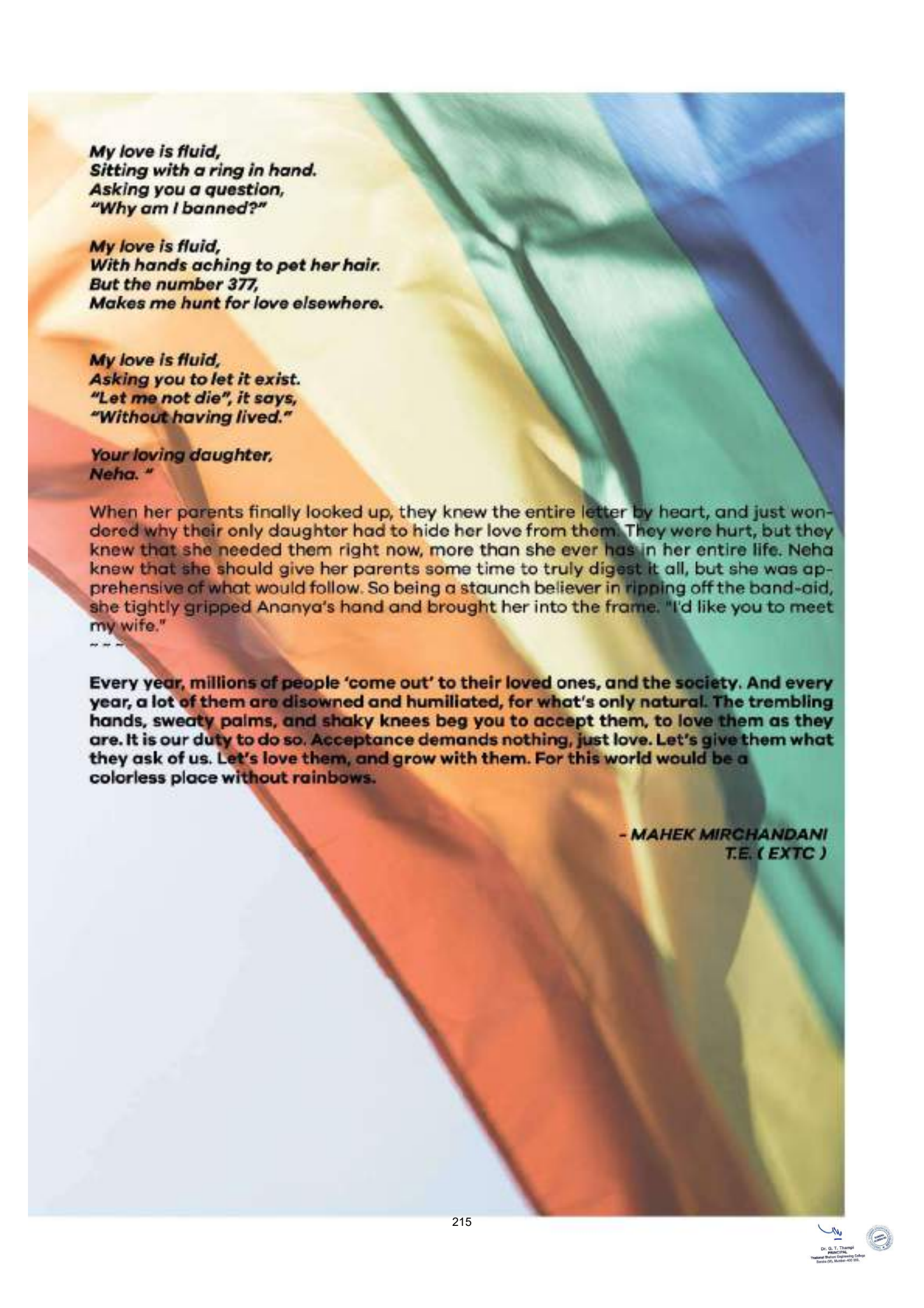
After a month of doing her own chores, endless gossip with Ananya, the childhood best friend she was staying with, and micro-managing her time, Neha had something very important to say to her family.

"Ma, Papa, I think I'm ready to get married." She said. Their first response was to ask her whether she was in her senses, and the next was to uproariously laugh at her. They thought it was a prank, and absolutely refused to believe her. She giggled along, but only because she was so nervous, and then tried to get them back on track by saying, "I know my past opinions on marriage have led you to believe that I'm just joking, but I really am not. I rejected all those proposals for a reason. The reason is that I've already found love. I've been in love for the past six years, and it is the best thing that's happened to me. All it took to seal the deal was this promotion. My person is perfect, and I'd like you to know all about it. So, look in the first drawer of my table, you'll find all the answers." Her mom rushed to the table, while her dad tried to wheedle some information out of her. And finally when the manila envelope disintegrated in their hands, they were a little surprised to find that it only contained a sheet of paper. No photos, as expected. It was in Neha's handwriting and it read,

"I am so glad that I am finally coming to you, with the truth of myself. I know I shouldn't have kept you in the dark, but I needed to understand myself fully before I could approach you. I apologize for all those nights wherein I gulped down these words, instead of coming to you. I know you love me no matter what, and I'm hoping this letter doesn't change anything. I love you, and nothing has changed.

My love is fluid,
Without the need for a mask.
It is glowing, and growing,
Needing a hand to grasp.

My love is fluid,
Asking for you not to opine,
On who I want, and who I love,
The decision is for this heart of mine.

My love is fluid,
Sitting with a ring in hand.
Asking you a question,
"Why am I banned?"

My love is fluid,
With hands aching to pet her hair.
But the number 377,
Makes me hunt for love elsewhere.

My love is fluid,
Asking you to let it exist.
"Let me not die", it says,
"Without having lived."

Your loving daughter,
Neha. "

When her parents finally looked up, they knew the entire letter by heart, and just wondered why their only daughter had to hide her love from them. They were hurt, but they knew that she needed them right now, more than she ever has in her entire life. Neha knew that she should give her parents some time to truly digest it all, but she was apprehensive of what would follow. So being a staunch believer in ripping off the band-aid, she tightly gripped Ananya's hand and brought her into the frame. "I'd like you to meet my wife."

~ ~ ~

Every year, millions of people 'come out' to their loved ones, and the society. And every year, a lot of them are disowned and humiliated, for what's only natural. The trembling hands, sweaty palms, and shaky knees beg you to accept them, to love them as they are. It is our duty to do so. Acceptance demands nothing, just love. Let's give them what they ask of us. Let's love them, and grow with them. For this world would be a colorless place without rainbows.

- MAHEK MIRCHANDANI
T.E. (EXTC)

Are you the FUTURE ?... Always!

This article is dedicated to the youngsters of this modern generation, It is really striking how the youths quickly adapt to the modern revolutions and changes and with powerful enthusiasm overcome the challenges to make the best of every opportunity that comes on the way.

The unknown future is always a topic of concern for the modern youths, its optimistic success however depends on the current scenarios and the individual personality itself. There are some key aspects worth focusing upon that will help to create a safe and reliable passage through every phase of your life towards a better future. Life is a gift, a temporary one so make the best use of it in a good way, make sure you enjoy the moments and gifts it offers, cherish them as they don't last long, if you manage to do that you have lived your life to the fullest.

You are always important

It is the human tendency to feel helpless and less important but always know that at some point in life there are some tasks or a certain work that can be done only by you and no one else, an influence that can be brought by you and no one else. Just consider the real fact that many of the stars which we see in the sky on a clear night, no longer exist. It has taken the light from those stars so long to reach the earth that the stars themselves have burned out long before the light becomes visible. The stars are gone but their light will travel on through the universe until the end of time. Similarly is the case with every individual performing the tasks or good deeds bestowed by him or her. It is a compelling thought that the act of ours also have timeless consequences. Always try to lay a dynamic and crescent love for your life.

You are always free

Everyone suffers in life and there are always certain aspects contributing to it, constraints, dangers and threats exist in all the directions but we must always learn to be free as there could be no voluntary choice of life. Remember, life has been always good to you in many ways some of them evident and some concealed.

We are subjected to pressures, admittedly. We are recipients of love unquestionably, for the normal person there is in the end that margin of freedom, however narrow, wherein we have to speak our own "yes" or "no".

You know your life

The human mind and human vocabulary simply are incapable of exposing the actualities which our dogmas seek to express, so never let your self-esteem and confidence down if you feel failure or rejection at any particular event happened in your life, the best is yet to come for you always and it will one day!

Out of necessity we are accustomed to think and to speak of life in human terms. In view of the limitations of our human mind, there is no other way in which we can think and speak of life. We have to do the best we can with the words and ideas which stem from our here and now experience and which never were designed to deal with the infinite.

Know yourself

Awareness of our actions setting up forces in motion that role on to time's farthest shore keep us to control our innate selfishness and egotism. When a bad situation or criticism occurs only a single individual is not to be held responsible there are many factors involved, everyone shares this responsibility as you don't clap with just one hand, the matter is to be resolved with basic understanding, patience and peacefully. If not then one bad actions leads to another and the chain reaction continues leading to more severe consequences, everyone has got sand in their shoes when they go to the beach.

It is also good to have passions and dreams ,one of the facts that keep our lives occupied. A willful child is not reformed by confining him to a dark closet and passions are not controlled by the pretense that they do not exist. We must aim to discipline our passions and not repress them. This is very important as excess of anything just kills the quality of your life.

We are human beings at once timeless and temporal, spiritual and physical so try to act wisely.

Establish your objectives, make the most of yourself

It is necessary to establish some aim and objectives in your life so that there is never a dull moment and your life is always occupied and in working condition. Wasted years and time once gone don't come back for anyone. Idle time and laziness just destroy your ability to make the best of your life and given an open invitation to unwanted thoughts and evil to have its workshop set.

Your life loves you a lot so you do want to love your life, these are two magnetic poles of a healthy life. Between these two everything flows, everything else fits. We find no need for a multiplicity of devotions, we are not troubled by theoretical questions or "intellectual difficulties", we are not unduly cast down by the apparent slowness of our progress or too discouraged even by a humiliating fall.

There will be times of darkness and doubt. But over the long duration there should be a sense of accomplishment, a conviction that your life is meaningful, a certainty that somehow you have made contribution towards your precious life.

Find your way of life

Our journey is a longer one, it stretches through years and the route is not quite the same for anyone of us. Somehow we must manage to reflect on our life, learn from it the next on the way. It is faith which will give acuteness to our belief in our own lives. Very likely you think of your faith as being reasonably firm. But it is sufficiently strong enough to merit a miracle that makes that difference.

Some skills are essential and valuable in all our interpersonal relationships. The skills may be described as (1)the ability to allow another person to make a mistake without feeling personally affronted by lapse, (2) the ability to admit one's own mistakes quite frankly without feeling a need to justify oneself, (3) the ability to be right and still be silent. This third one is the important of all.

It is an excellent exercise in character building to watch ourselves for evidences of insincerity and dishonesty. It even can be fun to try to outwit ourselves as very humanly but very foolishly, we try to create a false image of our true self.

Get along with yourself and your loved ones

An individual whose personal wants a few and simple is an emotionally healthy person, on the contrary one who must depend upon "things" to give himself status is suffering from some form of emotional insecurity. The person who is content with himself as he is and who has what the psychologists call a "positive" feeling" towards himself is happy with what he has.

It is the person with deep seated feelings of insecurity who feels a hunger for popularity or who cannot bear to share his loves, even to a small degree with others. So it should be obvious that the more we grow in love for this gifted life and the more conscious we become, the less of a problem do we have with envy, anger, jealousy and other evils. When we secure in the knowledge of an enlightened life we no longer feel a hunger to be the exclusive object of any human love.

Remember, behind every event and outcome in our lives, at the heart of our loves and fears, there is a miracle waiting to be discovered and a gentle presence that makes itself felt through surprises all along the way...............Goodluck Amigos!!!!!

SAURABH MALGAONKAR
Assistant Professor
Computer Engineering Department

Love handles, thigh gaps, muffin tops —these words have made their way into people's everyday vocabulary because when our bodies don't match the ideal social image, that is when society starts to become judgemental.

A woman goes into a salon to get herself groomed, because in however small a way, it makes her feel better about herself; it makes her feel confident. But in turn, the parlour lady decides to point out all of her flaws — "You look like a bear. When was the last time you waxed?" "You should put on some make up. It'll hide all of your zits and make you look pretty." — and that is when the woman realises the terms and standards she needs to live up to, to be accepted by this society.

Whereas, men are expected to be macho and buff. Their worth is decided based on their muscles and how they ex-hibit their masculine traits. Young boys look up to Superman, and a physique that is anything less is deemed imper-fect. When these men don't meet the standards of society, they're termed as 'fat' or 'skinny'. They're always judged for not being tall enough or muscular enough and it just proves how women and men, both, have to bear the judgemental glances thrown their way every time that they walk out of their houses.

Quoting what J. K. Rowling once said during an interview — "Fat is usually the first insult a girl throws at another girl when she wants to hurt her. I mean, is 'fat', really the worst thing a human being can be? Is 'fat' worse than 'vindictive', 'jealous', 'shallow', 'vain', 'boring' or 'cruel'?"

People like to point out the fact that someone has put on weight because society has turned the word 'fat' into a syn-onym for 'ugly'. We have started to uphold unrealistic expecta-tions and have begun to agree with them — we look up to people who are perfectly built and it only fuels a fire that results into a chain reaction causing even more people to body shame others or themselves.

Overly sexualised, photo-shopped and unrealistic pictures of women in the media, as well as stick-figure Barbie dolls, have a terrible impact on women's self image. The number one wish for young girls aged 11-17, is to be thin. This is because we have bought the lie that diet culture has sold to us— that if I am thin, only then will I be happy. It is the reason why eating disorders like Anorexia and Bulimia are on the rise among the younger generation. Boys and girls choose to stick a toothbrush down their throats just because society tells them they're not good enough. And what is nau-seating is that we accept weight loss in absolutely any form but completely frown upon weight gain.

It's time society realised that a person's body type doesn't determine if they're 'worthless', 'lazy' or 'undeserving'. They don't need to wait around for someone to swoop in and tell them that they are worthy because the only person whose acceptance they need is their own.

SHRUTI NAIK
F.E. (COMPUTERS)

WHY
WE
NEED
POSITIVE
BODY
IMAGE

HANG IN THERE.....

It hits you in the least expected of times. During another one of those night-outs, when someone you'd never thought of as a friend, becomes your confidante. While eating out at Frisbees, when you look into your best friends eyes, daring him to touch your food, and he does. In the midst of the comfortable silence that builds up while you're all lying down at a beach in Goa, gazing at the stars. On your way back to Mumbai, throughout the time 'Iktara' plays on someone's portable speakers. As you're singing half-naked at a friends place, not even trying to get ready for the last Traditional Day. While practicing for the B.E. Dance, when you're laughing on all fours, watching a classmate move in the sassiest way thought possible. Amidst the euphoria that builds up after the last night of Trifles. The snowball hits you. How in the world can someone be capable of carrying so many emotions simultaneously?

Because you're also the person that often wakes up at three thirty in the morning, gasping out of sheer anxiety. There's only so much that can be done when there's no time left. You're the same individual who curls up, like origami, wanting to occupy lesser space. You don't fit in just yet, and the fear of an inevitable empty abyss after the year end is paralyzing. You're the very being that stifles those sobs of heartbreak. Not all the puzzle pieces fit out to be picture perfect. So, you find yourself leaning your head against your own. Mirrors make great reflections.

But our pep talks make splendid personalities. We learn the lessons meant, breaking out of the clutches of every insecure and fearful thought. We realize how letting go is the most difficult thing to do. And how it's beyond ecstatic to watch everything fall in place so beautifully, in its own time. And the bromides that go "What is meant to be, will be", "Everything happens for a greater good", and "It all works out in the end" start making sense. Our lives stand at crossroads, as we stay confused about the makings of our destiny. Perhaps life has more than just one purpose. Maybe we're simply meant to enjoy and grow out of every instant as it comes. So that, when we believe we're not ready to leave just yet, this span of time shortens.

And I swear, in that moment, we're infinite.

Ankita Nagpal
B.E (EXTC)

WINGS FOR LIFE

About Wings for Life Spinal Cord Research Foundation

Worldwide, millions of people are dependent on a wheelchair after having sustained a spinal cord injury, most often as the result of a traffic accident or a fall. Wings for Life is a not-for-profit spinal cord research foundation with the single mission to find the cure for spinal cord injury. Since 2004, Wings for Life has funded life-changing research projects and clinical trials around the globe. While the cure is still to be found, steady progress has been made. One hundred percent of the Wings for Life World Run entry fees and fundraising from this global running event will help work toward Wings for Life's ultimate goal. Every step taken at the Wings for Life World Run and with the Wings for Life World Run App is a step in the right direction – www.wingsforlife.com

About the Wings for Life World Run

On one day each year the Wings for Life World Run is held simultaneously in numerous locations and the App across the world, all starting at the same time, whether day or night, and all with the same goal – to raise money for the Wings for Life Foundation. Under its unique format, participants run as far as they can until they are passed by a moving finish line, the "Catcher Car," which chases runners along the course, gradually getting faster until each runner has been caught. This moving finish line allows participants of any ability to complete the run – the slower ones are passed early while the last man and woman to be caught after starting from an event location are declared Wings for Life World Run Champions. 100% of entry fees and donations goes toward helping to find a cure for spinal cord injury; and in just three years since it was launched in 2014, the World Run has attracted more than 280,000 people from 193 nationalities to run in more than 38 countries across six continents. Altogether they have raised €13.8 million euros while covering more than 2.8 million kilometres. The Wings for Life World Run has one goal: to find a cure for spinal cord injury. One hundred percent of entry fees and donations goes directly to the nonprofit Wings for Life Foundation, for life-changing spinal cord research.

The Wings for Life World Run App

The Wings for Life World Run App allows anyone, anywhere in the world, to join the global movement. By activating the App on his or her phone, a runner can take part in the Wings for Life World Run, chased by a virtual Catcher Car, at the same time as all the other Wings for Life World Runners around the globe.

THE EVENT

This year, the Wings For Life Run was held worldwide on the 8th of May, 2017. In all, 155,288 registered participants raised 6.8 million euros for spinal cord research. An unprecedented 155,288 people, from everyday heroes to elite running champions, registered for Sunday's event across 111 locations. The global movement began at 11:00 A.M. UTC (4:30 P.M. IST), when participants simultaneously crossed start lines in 58 countries, whether it was day (Brazil) or night (Australia), heat and humidity (Taiwan) or a hailstorm in Slovenia, which didn't stop enthusiastic participants including the Slovenia's President, Borut Pahor, who ran 20.48 KM. Wheelchair participant Aron Anderson of Sweden is the new Men's Global

Champion (92.14 KM), while Bartosz Olszewski of Poland was the men's runner who achieved the longest distance (88.24 KM). Another Polish athlete, runner Dominika Stelmach (68.21 KM), was crowned the women's Global Champion. Some chose to participate alongside thousands of others at one of the event locations around the world, while others downloaded the Wings for Life World Run App at the App Store or Google Play and ran – anywhere they choose – at exactly the same time, chased by a virtual Catcher Car. Below is the list of cities/venues where the App runs took place across India that witnessed huge participation:

- Hyderabad – People's plaza, Necklace Road
- Ahmedabad – Karnavati Ground
- Goa – Campal Grounds, Panjim
- Pune – Hill Top, Symbiosis Lavale Campus
- Mumbai – IIT Bombay
- Chandigarh – Sukhna lake
- Patiala – Thapar University
- Kolkata – Eco Park and Uniworld
- Guwahati – Khanpara Ground
- Bangalore – Cubbon Park
- Delhi – India Gate

To download the global newscut visit https://www.redbullcontentpool.com/wingsforlife-worldrun/AP-1RTNDFZGW2111

To download images and videos, visit https://www.redbullcontentpool.com

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So what's your next big idea?

Entrepreneurship is increasingly emerging as an exciting new career choice for many young people across the globe. The advent of Internet has been a significant game changer for our generation. Inspirational names such as Steve Jobs (Apple), Bill gates(Microsoft), Eric Schmidt (Google) and many more. A new breed of entrepreneurs is emerging in India powered by the internet and the opportunities it has to offer. Digital entrepreneurs are mushrooming at an astonishing speed in India venturing into hitherto uncharted territory like jewellery and groceries- one a very high value product and other highly perishable. Most of these startups are also challenging the very idea of a physical store.

Till the advent of free for all internet, creative professionals were those who could find space in the limited pages of newspaper, magazines, books, or time bound radio and television. Cinema was freer but the number of screens were limited. Internet brought in unlimited space for creative minds, who can write blogs now, make videos and express to all and a lot more.

Such companies can be categorized by the verticals they serve, or Business models like B2B (business to business), B2C (business to consumer), C2C (consumer to consumer), or their offline predecessors.

There are three basic categories in the business Commerce, Content, Connectors. E commerce space is driven by transactions like offline traders and retailers, these companies procure products and sell at higher rates with difference being their profit. However it is not as simple as it appears, selling products online has its own nuanced challenges. The seller needs to have a supplier base, logistics for order fulfillment & secure transactions. These key components drive an e-commerce website. The game is how many visitors consume your content and how attractive is your content for them to come back. Technology platforms are the brick and mortar of the website. Though entrepreneurs do not talk much about the role of technology in their ventures, it is a vital component. The simpler the portal, the more sophisticated and robust technology is used at the back end & higher the chances of the portal becoming a success!

Flipkart, BigBasket are among the most successful e-commerce websites of India. Content enterprises like Zomato, sell ad space on their electronic real estate thus earning money. They create and curate content and this content is the core asset. The presentation of this content, the ease of accessing the required information is what brings the users back to the portal. However, the job doesn't end here & frequently updating the content is as important. The theory of evolution says if we do not evolve we will become extinct. Connecting with the locals is also a vital factor in the business. Like games2win is a portal which picks up a game going viral and gives it a cultural twist.

Besides being the connectors for players in their segment they also have become a knowledge centre for their domain. A key characteristic of this platform is having a large database and creating sophisticated tools to connect the users. Many successful portals from commonfloor.com to shaadi.com are bringing the offline world online. In our country where arranged marriages are a quintessential concept, Shaadi.com has pulled off a tremendous job in breaking the traditional paths to help you find your right partner.

The concept of a startup need not be new, the idea is to solve a problem. So some startups pick up ideas from other successful businesses, and remodel it for the locals.That said, such examples prove that nothing is impossible. An idea, no matter how unreal is not a fugazy. The second you think about it, you just make it real!

So what's your next big idea?

DIGITAL ECONOMY

VRAJESH SHARMA
SE (EXTC)

GIRL,
YOU WERE BORN WITH IT

Girl, you were born with it.

No short skirts no showing skin
Salwar kamiz is the tradition, oiled hair tied with ribbon
Wear those lovely jeans, slim and fit,
Where is the culture? Girl you weren't born with it.

A busy road, the fuzzy crowd,
But no one to her rescue when she screamed out loud,
Snatched her dupatta; she was bruised and hit,
But tolerance is your destiny, girl you were born with it.

Raped by lust disguised as men,
Yet not satisfied, removed her organs then,
Threw her naked, broke down her lingering spirit,
It's your fault you have a vagina, girl you were born with
it.

News spread like a forest fire,
An anguished nation wept seeing her suffer,
The mob revolted, and candles were lit
Fought death with great strength, 'cause girl you were
born with it.

"Hang them till death", announced the judiciary,
Four dreadful years of battle, now the girl got her victory,
Yet there lay stories, untold by souls so anxious to admit,
I ask you where is the dignity, of the girl who was born
with it.

ADITI KAKU
S.E. (BIOMEDIAL)

224

ISSUES OF
BOYS AND MEN
IN SOCIETY

In the last century, we as a society have made great progress in terms of gender equality. As a result, it has now become synonymous with women's issues. Meanwhile, men's issues have gone entirely unnoticed. Uncomfortable as they may be, we must address them for the sake of societal well-being.

The thought of 'Domestic Violence (DV)' conjures up the stereotypical image of a wife being battered by an alcoholic husband. However, today's reality is different. In the US and Canada, over 30% of DV victims are male, the subjects to emotional and physical abuse. As a result of laws which automatically prosecute men as the abusers, male DV victims are more likely to be arrested themselves, instead of the female aggressor, when calling for police help. While major cities in the Western countries have multiple women's shelters, only a handful of men's shelters are found all over the world. In fact, the founder of the first Canadian men's shelter (a former victim of domestic violence) was forced to shut it down after being denied any support from the Government, and later committed suicide.

This insensitivity towards men ties into the attitude of male disposability, that translates to male lives being less valuable than female lives. Consider this International Business Times report as an example- "ISIS executed 1362 people, including 19 women..." The effects of male disposability are evident through the mention of the 19 slain women.

75% of suicide victims are men, meaning thrice as many men in the US commit suicide compared to women, and twice as many in India. In some parts of Europe, the male suicide rate is 5 times more than that of women. This is because boys are told from an early age to not cry, and to 'man up', causing them to bottle up all their emotions. Suicide is now the #1 killer of young men in countries like the UK and South Korea. Yet their mental health is neglected. Surely, if women had been killing themselves thrice as frequently as men, it would have been one of the most pressing issues today.
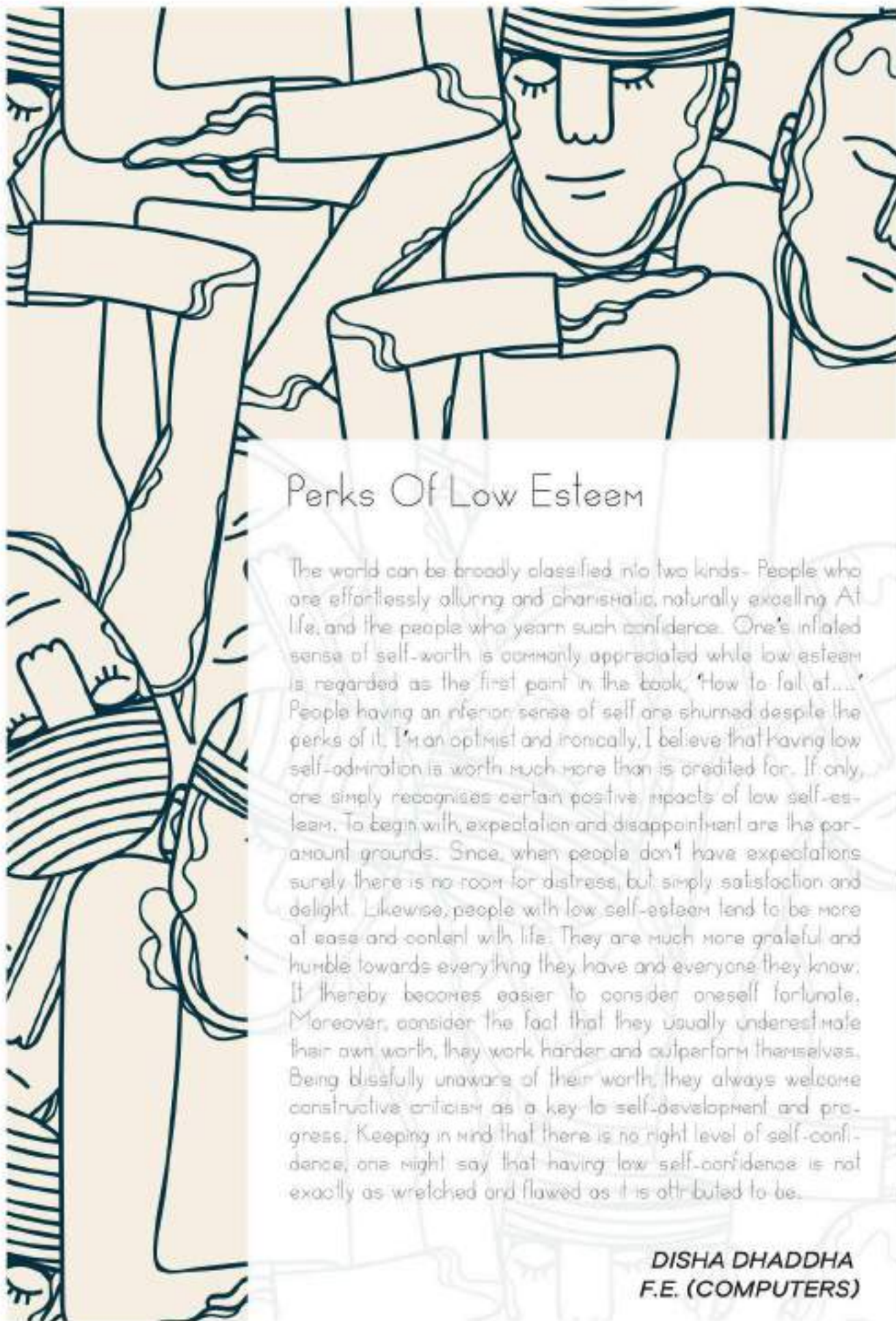
Another huge aspect of being a man, is fatherhood. In India, during divorce, women receive full custody of the child unless she is mentally ill or has run away, thus pushing the father off his parental role. On the flip-side, fatherhood is also thrust upon men by the courts. If a child is born soon after marriage, it is considered the husband's despite DNA evidence stating otherwise. In Germany and France, paternity tests are considered illegal and men are not even allowed to find out if the child is theirs. India could soon follow suit.

This brings us to the modern issue of misuse of rape and anti-dowry laws. The Delhi Commission of Women, a Govt. body reported that 55% of recent rape cases were false. They are demonstrably false, even possibly resulting in acquittal. When a young couple elopes, the girl's parents deliberately report it as a case of kidnapping and rape to set the police after them. A mere accusation alone is usually enough to destroy a man's image, career, family and more. Worse, real rape victims may have to endure the suspicion of having made a false case. Section 498A, an anti-dowry law is routinely misused as a blackmailing tool when the demands of the bride's family are not met. The male's family members, including the elderly, can be jailed without bail and without proof causing severe distress.

These are just some of the many issues like uneven prison sentencing, male rape and human trafficking which go unnoticed despite their severity.

Men & women together form the backbone of society, hence their well-being is of utmost importance. Men's issues directly affect 50% of all people, thus it is not a gender issue, but chiefly a societal one. Acknowledging that these issues exist is the first step towards a healthier, more robust society.

- VEDANT PIMPLEY
F.E. (I.T.)

225

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Perks Of Low Esteem

The world can be broadly classified into two kinds- People who are effortlessly alluring and charismatic, naturally excelling At life, and the people who yearn such confidence. One's inflated sense of self-worth is commonly appreciated while low esteem is regarded as the first point in the book, 'How to fail at....' People having an inferior sense of self are shunned despite the perks of it. I'm an optimist and ironically, I believe that having low self-admiration is worth much more than is credited for. If only, one simply recognises certain positive impacts of low self-esteem. To begin with, expectation and disappointment are the paramount grounds. Since, when people don't have expectations surely there is no room for distress, but simply satisfaction and delight. Likewise, people with low self-esteem tend to be more at ease and content with life. They are much more grateful and humble towards everything they have and everyone they know. It thereby becomes easier to consider oneself fortunate. Moreover, consider the fact that they usually underestimate their own worth, they work harder and outperform themselves. Being blissfully unaware of their worth, they always welcome constructive criticism as a key to self-development and progress. Keeping in mind that there is no right level of self-confidence, one might say that having low self-confidence is not exactly as wretched and flawed as it is attributed to be.

DISHA DHADDHA
F.E. (COMPUTERS)

STORY
OF
A
B.E.

Entering into a world where things are unknown
Bit of a realisation that we are somewhat grown.
Preschool, school, secondary and junior high
Engineering College, my dear friend, is stage five.
Many wise preaches and some misconceptions are bound to be true in the future
As we all jump into the pool of a similar culture.
Travelling, meeting new people, exploring the streets and eating roadside food
This routine is followed by every student for a particular mood.
Practicals, lectures, tutorials assignments and Projects are a major part of the four years
Looking at ourselves ourselves trying to bring about a change and developing our personality are also Things that people in future would lean in to listen and give you all ears.
Many bonds form, but some break due to misconceptions and fights
Some are so extremely broken that they cry about it for a lot of nights.
There would be many dreams that an engineer would live and forever cherish.
Yet certain dreams are left out and they may turn out to be realities in the future, it's always a wish.
Experience, friends and blessings of the teachers

this gives us wings and courage to achieve our goals just like the confidence seen in the flight of a dove.
Placement or higher studies are the two mostly available options for us
Decision making has to be done in the early years as the world demands a rush.
Prepared to face the bitter and the wild that the universe has to offer to you as an Engineer
Again stepping out of this pond in which you felt secure, will definitely be a fear.
Before leaving for the next adventurous trip
We spare a moment or two to relive the moments and get back the grip.
Spending time with friends, family and all others in the last few days
Hoping and promising that we will see each other once in a while, is what we say every May.
This lovely journey of our lives will come to an end one day
No words, actions or expressions are enough to make a non-engineer feel the same way.
Starting as a young adult and leaving behind the innocence
These four years take us to the next level of world observance.

KANCHANGAURI KULKARNI
B.E. (CHEMICAL)

MOBILE
SECURITY WARS

A quick Google search, "How to unlock your phone without knowing the password" reveals about 2-3 methods to achieve the same. This brings up a pretty serious question – How secure are we? Especially when mobile devices, earlier just a communication medium, now are akin to a mirror of our lives. Earlier your privacy could be ensured by checking whether you closed the bathroom door or not. Today, your phone knows secrets which even your parents or your best friend might not. Blend that with digital wallets and financial data and you have the perfect recipe for identity theft. Now there are three types of security threats – Malware, device vulnerabilities and data leaks and two major OS – iOS and Android (Yes, not Windows).

A cursory glance makes it seem that iOS would win hands down with each app being rigorously tested and no options for side loading apps. Is it really that simple? Although the open source nature of Android makes it more susceptible to security issues, it also means that these are recognized faster and fixed rapidly. With thousands helping in the process, the total number of bugs discovered in Android are more while Apple relies on its in-house team.

Yet, as of 2017, according to CVSS, the number of vulnerabilities discovered in iOS numbered 1227, while on Android they were 1027. And due to the guarded nature of iOS, many more could have gone unnoticed by Apple. This means that everyone using the latest version of Android would be more secure than iOS if all the updates are installed and all the security procedures followed.

Android's freedom, however,
has a flip-
side.

Having endless stock customization, few realize the security concerns involved with enabling seemingly inane options like allowing side-loading. This enables malware to travel much faster and result in a high percentage of devices getting infected before discovery. And an even bigger problem exists – manufacturer customization.

Manufacturers are allowed unrestricted control over their devices and updates, resulting in unprecedented fragmentation and added vulnerabilities. Even if the security concerns are addressed, it is meaningless if a device does not get the update. Only 0.5% have the latest version of Android (even fewer with the latest fixes) and 1% are still on the one released in 2010. In comparison, a staggering 70.6% users have the latest iOS version with a measly 0.01% on the 2012 iOS. This makes a solid case for Apple.

Trying to bypass OS restrictions? Jailbreak an iPhone and all security protections are thrown out of the window with Cydia while many android manufacturers still support rooting. Additional features extended with jailbreaking are generally default on Android. The real security depends on how many malicious agents are attempting to exploit these issues. This depends on the product of customer value (where iOS leads) and potential infections (where Android wins) and how that is expected to change in the future.

Which is more secure? That is a toss-up. However, which should you choose? An iOS device or an Android device that keeps you updated to the latest version, if you want customization. Most security enthusiasts keep both – an iPhone for sensitive data and financial purposes along with an Android to tinker with.

- Nimish Sule
S.E. (I.T.)

'Damn!', he said to himself as he left the boardroom amidst the congratulatory chaos. He had lost today. Not that the contract wouldn't bring in profits to the company, but the amount of profits he expected, was not achieved. The company won, the contract was theirs. But for him, it was a let-down, not a touchdown. This was his (strength). This was something he was better than the rest at. Probably the best. How could this happen! He had panicked, uttered something that was close to what he intended to say but not what he trained for. This shouldn't have happened. He kissed his nomination to the prestigious Forbes' 30 under 30 list goodbye. He rushed home. Walked straight into the restroom, splashed some water on his face. Looking at this face anyone could say, he was one of the best. Not today. He messed it up in overconfidence. When he looked up, he could see his eyes turning red. Not with anger, but with fear. He rushed to his study, face still wet, shoelaces untied, and briefcase in hand. He frantically searched for his Adelaide. He loved that fountain pen. It was a gift by his father, with his initials engraved on it. His father never usually did gifts. But this was beyond special. This was a symbol of pride. The pride that his father had in his potential. He pulled out his diary. He gazed at the empty pages. Picking one, he started writing,

Today is the day I realized where I stand. Today is the day, I have come to my senses. Today is when I've learnt a simple truth. The truth that was reminded to me each and every day. I listened to it, but I always contemplated. For me, they were just clichéd words. Champions grind more than the others. There is no substitute for hard work.'

Earlier today, I lost. Missed my target and fell in my own eyes. I could not do what I wanted to. That hasn't happened since I graduated High School. I was supposed to win. For them, I did when I put the meeting in place, designed the contract. I knew what needed to be done. Or at least I thought I did. But I couldn't deliver it.

I wasted all my time the previous day, doing what is called 'chilling'. I didn't go through the contract. I woke up this morning, had a quick scanning session of the documents, and rushed to the office. Little did I know that it would turn out to be exactly what I wanted it to be, but I wouldn't be prepared to do it. 'Tune hi toh banaaya hai bro poora contract. Tujhe toh sab samajh mein aata hai', they said. Not that I am pointing fingers at them for making me feel overconfident, but their push cannot be deemed insignificant. I did believe in it for a second there. I did not know outcome. I did hope for the best. But I let it come to this. I let myself come to this, where the fear of losing out made me more and more irrational and desperate. This day made me learn, champions need to grind more than others. They do. The climb is easy. What's tough is staying there.

Surprisingly enough to me, just moments before I understood this, I was wishing I could do it all over again. I wanted to request a meeting again. This time, I thought to myself, 'Faad ke aaunga. Bas ek chance aur mil jaaye.' The next moment, the whole feeling reversed to guilt. I wasn't raised like this. I was born to be tough. To become great. Greater than I was yesterday. Not to ask for second chances, but to fail gracefully, if I ever did.

So, here I am. Not angry, but afraid. Afraid to fail. Again, I wasn't infallible anymore. It was like someone took my bulletproof vest away and shot me right in the guts. But I was also aware that this was my fault. AMAT VICTORIA CURAM makes sense now. I'm sorry I messed it up. I'm sorry for myself. And I hope this never happens.

"Sir..." "Sir..." "Sir, it's time. The meeting starts in 10."

He heard the faint voice of his assistant trying to wake him up from the slumber he'd slipped into. He woke up with the empty diary in one hand and his Adelaide in the other.

THE LESSON

~Saurabh Manwani
B.E. (EXTC)

Mumbai is the city of pride,
Where everything is lively and full of light.

Mumbai has roads which run throughout while it beeps,
Even at night, Mumbai never sleeps.

It is the people of Mumbai that make the city shine,
As they believe that a new day comes with bright sunshine.

It takes care of professional files,
And brings on the faces, huge bright smiles.

The museum so historic and the sea link so bright,
It looks as if she is dressed as a bride.

The best business capital of India is Bombay,
Where people of all standards are cheerful, merry and gay.

It is a foot ahead in driving out the unwanted,
In case of a crisis, it is always united.

AISHWARYA NAYAK
T.E. (COMPUTERS)
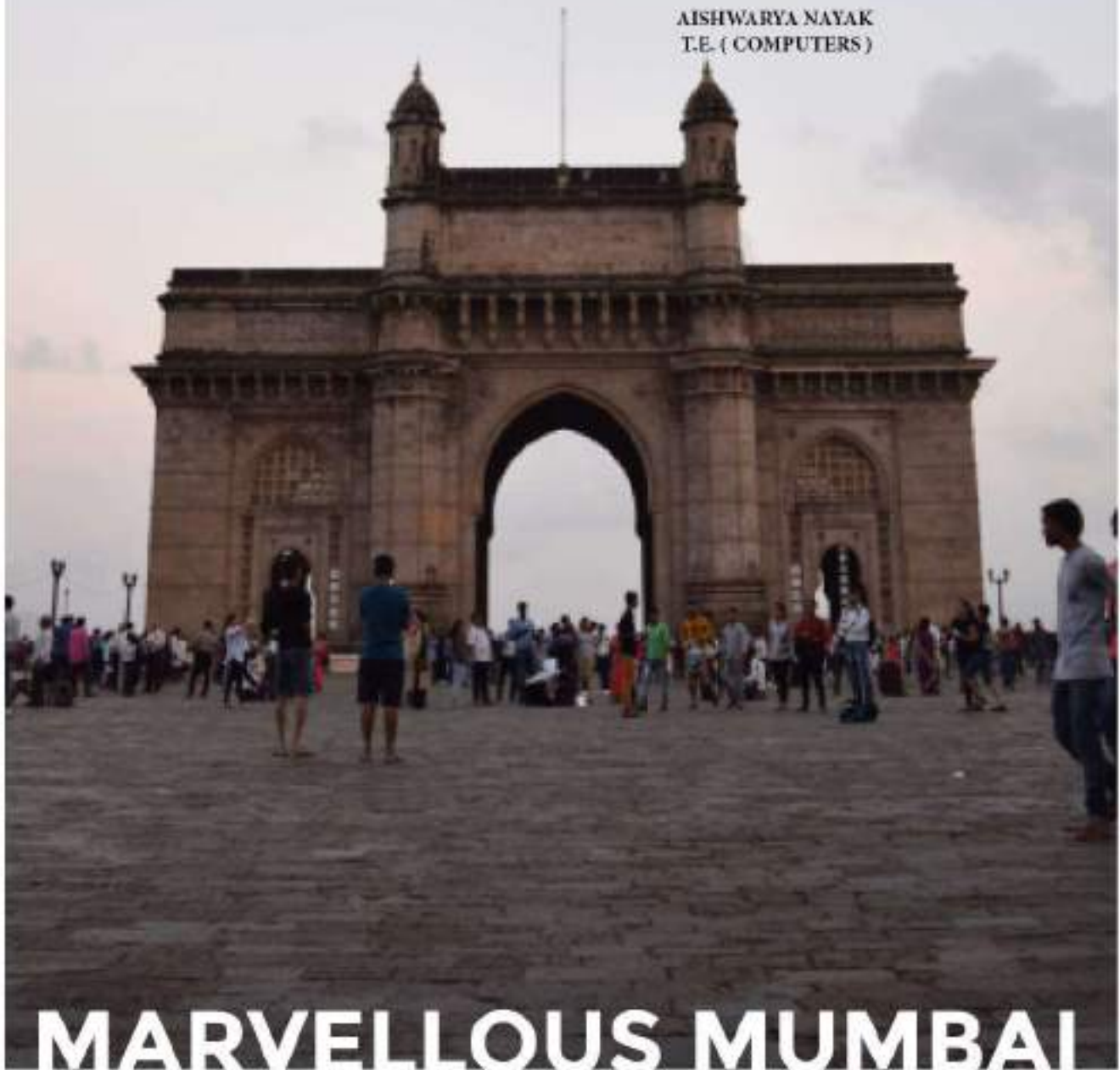
MARVELLOUS MUMBAI

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We always think of giving the best to our children. My opinion on the most valuable thing we can give them is, "Something that will help them flourish naturally into the best human being, helping them sustain in the world against all odds, and becoming successful in whatever field they choose." To achieve this is no mean feat. It could be The Ultimate Dream for parents everywhere. How can we imbibe into their tender minds all the values for becoming responsible citizens? How can we avoid all bad thoughts creeping into their minds until they are mature enough to choose between good and bad? All parents think of this and try to do their best in achieving it. I said they try, because of so many practical difficulties. The resources to do so are not available to all the parents all the time. We look for the best schools and expect the schools to do the rest. We rarely have any time to assess our satisfaction with the chosen school, and keep wondering if there are any schools that are up to the mark. Internet, hobby classes, workshops, courses, sports clubs, etc are additional means that we employ. But, is there any standardized education system which can cater to all types of kids? Or is there a need for a system to take care of it all?

The primary education system can play a huge role in moulding children the right way. Nowadays, homeschooling is gaining popularity. Teaching and carefully moulding children in a home based environment, while trying to give them all the experiences provided by the school is the goal. The efforts put in by the dedicated home-schooling parents is commendable. They also end up saving a lot of time and money. But here, success can only be ensured by 100% dedication. And that is possible, only if the concerned parents do not have full time, or even part time jobs. Thus, the number of schools/parents achieving their purpose in such a scheme is very low. Meanwhile in schools, pre-primary and primary teachers need to be highly qualified, as well as specially trained and educated to understand, assess, and cultivate tender minds. Though it is of top-most priority, the current situation is contrary to the ideal.

Hence, the question of proper education methods still remains unanswered, as education nowadays only helps build a career. It doesn't teach

the kids to face the world, do simple financial transactions, respect elders, etc. There are numerous ancestral ways of teaching, as well as lessons, scientifically proven to promote the health and well-being, but they can only be implemented by a highly invested teacher. Hence, they are not a part of the curriculum. Even if they were, current teaching methods will not allow the students to fully understand them. Almost all the problems in the world are related to wrong mindset. These problems can be tackled with a change in the upbringing. Be it terrorism, heinous crimes, corruption, communal rites, hatred, greed for money or deteriorating human values, problems are everywhere in the world. And the people involved are not always uneducated, or at least the leaders of these factions are not. So we can easily nip it in the bud, during the formative years of primary education. Worldwide experts in all the related fields of study could be commissioned for this purpose. If the governments work together, it is possible to establish a standardized method of primary education. Though the governments shoulder majority of the responsibility here, we can't just shrug off ours. It would have the potential of developing an ideal future generation, resulting in elimination of all problems slowly. No administration would refuse to implement it.

Nowadays, parents are increasingly worried about teaching the right things to their children. With time, all that could possibly corrupt children, is becoming easily available. Be it junk food, drugs, or porn movies. There are many issues which all revolve around the correct moulding of children at a tender age.

There is a need to standardize the primary education to cater to this issue. The best tools & techniques from all over the world can be adopted. Child psychiatrists, philosophers, gurus, ancient scriptures, literatures from all over the world can help us build a better world.

SACHIT G. NALASKAR

"The best things to be invested on children are our time & good values. Remember, developing one child with ideal character is better than building hundred schools." – Swami Vivekananda

STANDARD PRIMARY EDUCATION

- SACHIT NALASKAR
ASST. PROF. IN MECHANICAL ENGG.

A LOSS OF
SELF AWARENESS

Have you ever said or done mean things while trolling or pranking someone along with your friends which you wouldn't have done otherwise? Have you ever felt guilty about bunking a lecture alone, but the same act seems alright when your friends are by your side?

The phenomenon we're talking about here is none other than deindividuation. It is the loss of self awareness in a group and becoming absorbed into a hive-mind under the right conditions. The conditions or the three ingredients of deindividuation are-

Anonymity: the more well hidden you are, the better; Group size: the bigger the group, the better; and arousal, just a speck of motivation is all it takes.

Now to show you how powerful this force is, let's talk about it's dark side first.

In 2008, a 17-year old boy jumped from a rooftop in England after around 300 people chanted, asking him to do it. As the poor guy fell to his death, the strange spell broke and the crowd walked away thinking what came over them.

Cases like this aren't unusual.

In our position right now, it would be difficult for us to even imagine ourselves doing such a thing. But most of us would have done the same thing.

For security forces, the gathering of large crowds or mobs is alarming because there's a fear of them turning violent if the three ingredients of deindividuation are mixed together. Activities like lynching, looting, rioting have all been done under the influence of deindividuation.

On a positive note, organizations or groups often promote deindividuation when it is necessary to decrease inhibition and get people to do things they might not have done by themselves. Big conglomerates are seen spending millions on team building exercises. The concept of uniforms is also to instill a sense of togetherness in groups. This is why schools, armed and security forces have uniforms, and football and cricket players wear jerseys. The festivals that bring us together and make it seem alright to throw colors and water at each other is another example of positive deindividuation.

People who forget their sense of self and work together to save a life or search for a missing child show deindividuation is a neutral force of the human will. Once the three ingredients are mixed together, and the force of deindividuation is activated, the resulting behavior of the group is determined by prompts from our surroundings. The norms of the mob, good or evil, replace the norms of everyday life. "The banality of evil shares much with the banality of heroism. Neither attribute is the direct consequence of unique dispositional tendencies; there are no special inner attributes of either pathology or goodness residing within the human psyche or the human genome."
-Phillip Zimbardo from his book "The Lucifer Effect"

Now this is important, the prompts from our surroundings shape the group's resulting behavior. Sharing anti-Islamic or hate provoking information and objectifying women on social media groups are huge negative prompts. This force is powerful enough not only to control our emotions but also destroy our morals. So it is very important for us to spread love and not hate.

Concluding, I would like to quote the seriously inspiring Sirius Black, "The world isn't split into good people and bad people. We've all got both light and dark inside us. What matters is the part we choose to act on. That's who we really are."

OMKAR YADAV
F.E. (COMPUTERS)

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" **N**ortheast student thrashed by landlord, forced to lick shoe "
" Daylight attack with iron rods killed college student Nido Tania "

Discrimination towards North-East Indians in our country is nothing new. Every time a person physically attacks another in the name of language or culture because the other is different, it is an attack on India's pluralism. We are a nation of different nationalities, languages, races, communities, ethnic regions and religions. The country belongs to all. The plural mosaic of India is built on the foundation stone of unity in diversity. Yet such incidents make us think "Do mainland Indians really care about the seven sisters or can they even recall their names in the Northeast along with the capitals?" If yes, then why do most of the mainlanders abuse them racially or not consider them fellow Indians? Leaving that, most of the people don't know that there's a region in our nation that awakes every morning only to find itself still reeling under the darkness of ignorance, from the people and the leaders of the country which they call their own. Meghalaya, Mizoram, Tripura, Nagaland, Manipur, Assam, Arunachal Pradesh and to some extent even Sikkim have been neglected a lot in our country. These states are an integral part of the Indian nation. But today they are being alienated by majority of the population. Even the government of India itself is very negligent and many a times, completely ignorant about their condition. This is not only from the developmental point of view, but other aspects as well like- sports, culture and entertainment. The region has suffered from so much neglect and apathy that it seems next to impossible for them to catch up with other parts of India. Today, these states cover about 7% of India's total area and also account for about 4% of India's total population. But even after 69 years of Independence, the plight of these states is outlined as follows:
- 5 out of the 7 state capitals in the region are not connected by rail.
- Itanagar, Kohima and Shillong do not have a proper airport.
- The entire Northeast has to import essential goods worth nearly Rs. 2,500 crore annually since the states in the region couldn't modernize their agricultural practices.
- Nearly two-thirds of India's tea, 60% of its plywood and a substantial part of its oil is produced is in this region but not even a tiny percentage of the profits are re-invested there.
- Vital sectors like education, health care and communication are still in a primitive state in the region.
We cannot forget the unparalleled dedication of the brave Gorkha regiments during the Kargil War in 1999. We ridicule them by calling 'Nepali, Momo, Chinky' with such impertinence.
We are aware of these misdemeanors yet we discriminate against one another. Countless North Easterners endure physical and verbal abuse for not speaking Hindi.
Even the auto drivers and the rickshaw pullers double their fare if the passenger happens to be a North Easterner. The treatment meted out to them is like the one given to step children. Many of them are eligible for getting reservations in educational institutions in India, and in the public sectors meant for them, but ignorance about constitutional rights and the policy of protective discrimination of the Indian government, proves to be a hurdle. All this breeds a feeling of separatism in the people of the Northeast. But this wide gap between the mainstream population of India and the Seven Sister states needs to be bridged. More and more student-exchange programs should be encouraged between the students of the Northeast and the rest of India. Writers and poets from the Northeast should be encouraged by giving a prestigious platform to express themselves. People must give up discriminating against the people of the Northeast and learn to treat them with due respect. They should refrain from using words which address them in a derogatory manner. Youth can be of immense help in strengthening the ties of the Northeast with the rest of the country. Therefore more communication should be encouraged with the people of the Northeast through internet. We must remember that even they are an integral part of India & owe India as much as we do. JAI BHARAT.

NORTH EAST INDIA CRISIS

PARTH MANTRI
FE (COMPUTERS)

दीर्घ दर्शन समाज का

बैठा आशा लिए देखो हर एक दीन ।
आज नहीं तो कल आयेंगे उसके भी अच्छे दिन ।।

विद्या की हालत देख हर कोई पकड़ता सर ।
किताबों के बोझ तले रोज रहा वो मर ।।

व्यापकता के मायने आज बन गए व्यापार ।
धन भी है, मन भी है, बस नहीं रहा आधार ।।

सफेद है ये पोशाक और झूठ भी है सफेद ।
देश फिर भी इनको हम कर देते हैं भेट ।।

वर्षा कितनी भी हो, किसान को पानी कब है मिला?
खेत बिलकुल सूखे और आँखों का हाल गिला ।।

आरती कर हम ईश्वर को जगाले ।
पर अपने मन की निद्रा को क्या हम कभी भगाले ?

होंठों पे सिगार और हाथों में है ग्लास ।
विवेकहीन समाज का आज बना ये क्लास ।।

ग्लानि होने पर भी सुधर रहा है कौन ।
शालीन व्यक्ति भी बस खड़े हुए है मौन ।।

मनुष्य! उठ, जाग जैसे स्वामी ने था कहा ।
अपने मानस को गुना करने का यह ही पथ रहा ।।

माधव उपाध्याय
टी ई बायोटेक्नोलॉजी

जीना इसी का नाम है

सुख-चैन मुझसे मुँह मोड़ने लगे।
वीरान रातों से नाते जुड़ने लगे।।
अधर हैं व्याकुल, मुस्कान की आहट को।
अश्रुओं में डूबे, नैन सिकुड़ने लगे।।

पी गया नदी, सागर और महासागर।
प्यास है कि बुझती नहीं।।
जकड़ी हैं समस्याओं की विकट लताएँ।
जो सुलझाए सुलझती नहीं।।

चञ्चल कोमल हृदय, आज स्तब्ध पत्थर बन गया है।
भावशून्य, भावनाहीन; अपनों के प्रति कट्टर बन गया है।।
मनुष्य प्रगति कर गया, किन्तु मनुष्यता पिछड़ गई है।
भौतिक, आर्थिक साधनों के मध्य, संस्कृति ही बिछड़ गई है।।

अधूरे स्वप्न कन्धों पर लिए, आगे बढ़ते रहना आम है।
प्रत्येक व्यक्ति के आञ्चल में, अपनी विडम्बना महान है।।
शत-कोटि जनसंख्या में, अस्तित्व गुमनाम है।
पर क्या करें बन्धु
जीना इसी का नाम है।।

रोहन राम वास्वानि
टी.ई. (ई.एक्स.टी.सी.)

थडोमल शहानी अभियांत्रिकी महाविद्यालय कोणालाही सांगितलं तर समोर असतं एक भलं मोठं प्रश्नचिन्ह की हे आहे तरी कुठे ? सर्वसामान्य लोकांसाठी नॅशनल कॉलेजच्या मागचं.... ते लिंकिंग रोडच्या आसपासचं कॉलेज.... इतकंच काय, आपल्यातल्याही अनेकांना सी. ई. टी. कॅप राऊंडच्या यादीत असल्यामुळे नाव-ओळख झाली असेल पण एकदा का प्रवेश मिळाला की सुरुवात होते ती चार अविस्मरणीय वर्षाच्या प्रवासाला....नुसती नाव-ओळख ते अगदी गळ्यातील ताईत बनण्याच्या प्रवासाला....

पहिल्या आठवड्यापासून नवीन प्रवेश घेतलेल्या मुलामुलींना गराडा पडतो तो सिनिअर्सचा (मैत्रीसाठी नव्हे तर कमिटीची मेंबरशीप घेण्यासाठी). ही कमिटीच्या पोरांची टोळी वर्गाच्या बाहेर टपूनच बसलेली असते. कधी प्राध्यापक लेक्चर संपवून बाहेर पडतील आणि कधी आम्ही मुलांवर मेंबरशीप , फेस्टिवल्सची मोहिनी टाकू....... लेक्चर नंतरच्या सुट्टीत (लंच ब्रेक) मध्ये मस्त नवीन मित्रांसोबत गप्पा मारू, कॅंटिनमध्ये टाईमपास करू, फ्रेशर्स पार्टी, वेगवेगळ्या कमिटीचे फेस्टिवल, लेक्चर्स, प्रॅक्टिकल्स च्या नादात पहिलं सेमिस्टर कधी संपतं ते समज-तच नाही. आणि येतो अभियांत्रिकीच्या अभ्यासक्रमातील महत्त्वाचा टप्पा तो म्हणजे ..."सबमिशन्स" नावाप्र-माणे हे एक मिशनच. वेगवेगळ्या विषयांचे Assignments, त्यातले इतके प्रश्न......पण त्यातही गंमत म्हणजे सर्वांनी उत्तरे शोधून लिहायची गरज नाही , जो कोणी सर्वात आधी लिहून पूर्ण करेल . त्यानेच लिहिलेली उत्तरे अगदी जशीच्या तशी उरलेल्या सर्वांच्या शीट्स वर बघायला मिळतात. उत्तरांसाठी हुशार मुलांच्या आजूबाजूला पडलेला गराडा. -मेडिक्रो दुकानाबाहेर फाईल्ससाठी लागणारी मुलांची रांग ही सेमिस्टर संपायला येण्याची लक्षणं. हो मुंबई विद्यापीठ अख्यारित आपली पहिली परीक्षा. या परीक्षेचा ज्वर (Exam Fever) अगदी महिनाभर चालतो. मग येते ती इंडस्ट्रियल विजीट. (याच्या नावावर न गेलेलं बरं. नाव जरी एकदम प्रोफेशनल, इंजिनीय- रिंग आपल्यासारखं वाटलं तरी आठव- ल्याच्या या सहलीत २ - ३ तास सोडले तर इंडस्ट्रीचा कांहीही संबंध नाही). मस्त मजा करायची. फिरायची, शौल अनुभवण्याची, मैत्री घट्ट करण्याची ही वेळ. शाखानुसार वेगळे होण्या- आधी एकत्रवेळ घालवण्याचा काळ. आपापल्या शाखांमधील टाळकी दुसऱ्या सेमि- स्टर मध्ये एकाच वर्गात येतात... पुढील ३ - ४ वर्षं शिकण्यासाठी, मैत्रीसाठी, मजा करण्यासाठी (अपवाद: काही प्रवाशांचं नाव सुवर्ण

चार मैलांची सफर

अक्षरांनी नोंदवून (गोल्डन केटी) त्यांना मध्येच निरोप दिला जातो). नवीन व्हॉट्सअपचे ग्रुप, त्यावर येणारे Assi-gnments, त्यांची उत्तरे, प्राध्यापकांचे संदेश, CRची निवड, विद्यार्थी आणि प्राध्यापक दोघांच्या मधला दुवा बनताना त्याची होणारी गडबड, मॅकडोनल्ड - कार्टर रोड - KFC- फोर्ट ला होणारे Hangouts व मधल्यासुट्टीत रघी राईस, जय सँडवीच, योगी सँडवीच, द जे मध्ये होणारी गर्दी हे चक्र अविरतपणे चालू असतं

दुसऱ्या वर्षात २० - २५ जणांची डिप्लोमाची टोळीही वर्गात सामील होते . पहिल्या वर्षी असणारे मित्रांचे ग्रुप्स विभागायला आणि नवीन मित्र बनायला सुरूवात होते. हे वर्ष काही अर्थाने कलाटणी देणारंच म्हणाव लागेल कारण पहिल्यावर्षी वेगवेगळ्या कमिटीच्या पोरांना टाळणारे आपल्यातील बरेच त्याच कमिटीमध्ये जाण्यासाठी मुलाखती देतात. आधी वर्गात बसून कंटाळवाणी वाटणारी कमिटीची बडबड आता स्वतःहून करण्याची वेळ आलेली असते. मेंबरशीप ड्राईव्ह, आकर्षक पोस्टर्स बनवणे, फेस्टीवल जास्तीत जास्त लोकपर्यंत पोहोचवण्यासाठी नवनवीन Tricks करणे, त्यासाठी मिटींग्स आणि सहाजिकच लेक्चर्स ला बुडी. या सगळ्यात सेमिस्टर मागून सेमिस्टर. वर्षामागून वर्ष कशी जातात काही समजतच नाही .

मधले आणि बाहेरचे असे बनत जातात . एव्हाना इंटर्नल मार्क्सचं महत्त्व समजलेले या लिस्ट मध्ये जाण्यासाठी धडपडत असतात.

हा चार मैलांचा प्रवास कधी आनंद-उत्साह तर कधी सुख-दुःखाची वेडीवाकडी वळणं , मैत्रीची रेशमी गुंफण घालत अविरत चालूच रहावा हेच सर्वांच्या मनात असतं. हा प्रवास संपल्यावर मागे वळून पाहताना मित्रांशी झालेली भांडणं, हेवेदावे, वाद- विवाद अगदीच झुल्लक वाटतात. उलट यापुढे आपली रोज भेट होणार नाही. ना शेवटच्या बाकांवर बसून गप्पा; ना मधल्या सुट्टीत एकेमकांच्या डब्यांच शेअ-रिंग; ना लेक्चर्स बंक करून गप्पा मारायची मजा; यामुळे जीव कासावीस होतो. पण तरीही असतात सोबत गोड- खट्याळ आठवणी, कठीण प्रसंगी लाभलेली मित्रांची साथ आणि मदतीचे हात. कमिटीच्या कामांनी शिकवलेलं व्यव-स्थापन आणि योग्य वेळी दाख-वलेलं प्रसंगावधान, विट्यापीठा-च्या इतर मुलांकडून मिळवलेले प्रश्न असोत वा रात्र- रात्र जागून परिक्षेच्या आधी सर्वकाही संपवण्याची धडपड... ह्या आठ-वर्णींचा संचय कधीही न संपणा-राचा. हा प्रवास ही एक प्रक्रियाच होती; कोळशाच्या खाणीतील हिऱ्याला पैलू पाडण्यासारखी; ते जनसागरातही लखलखणाऱ्या; अगदी रात्रीच्या काळ्याभोर अंधारात चमकणाऱ्या अविचल ध्रुवताऱ्यागत !

-वेदांत कदम
(बी.ई केमिकल)

असंवेदनशील तरुणाई?

एकविसाव्या शतकात वावरणारी आजची तरुणपीढी, आमच्या हातात आज जग उलथवून टाकण्याची ताकद आहे.

कारण आजची आमची ही टेक-सॅव्ही पिढी, केवळ काही बोटांच्या हालचालीवर आमचं आयुष्य चालतं. गेल्या शंभर वर्षात जितके शोध लागले नाहीत, तितके शोध हे गेल्या दशकभरात लागले. अँड्रॉइड ही संकल्पना किती अफाट आणि अचाट आहे याचा अनुभव आज आपण प्रत्यक्षात अनुभवतो आहोत. आणि इंटरनेट ही तर आज गरज बनली आहे, अगदी सरकारी कामे बघा ना, आज अगदी छोट्या गावातील शेतकऱ्यांनकडून सुद्धा पीकविमा ऑनलाइन भरण्याचा आग्रह केला जातो. तर एकंदरीत काय, इंटरनेट शिवाय भविष्यात पर्याय नाही.

मार्क झुगरबर्ग या एका तरुणाने कॉलेज मधील तरुण मंडळींना जोडण्यासाठी फेसबूक नावाचा एक भन्नाट पिल्लू या इंटरनेट वर सोडलं आणि त्या पिल्लाने इतका धुमाकूळ घातला की अगदी आजी-आजोबांनी सुद्धा त्याला कवटाळलं. तरुणाईला आणि इंटरनेटला दोष देणाऱ्या या वयस्कर मंडळींनी सुद्धा हे आधुनिक तंत्रज्ञान वापरायला सुरवात केली. हळूहळू इन्स्टाग्राम आणि इतर प्लॅटफॉर्म सुद्धा आले. आणि कॉर्पोरेट विश्वाचा वरचष्मा या प्लॅटफॉर्म वरदेखील दिसला आणि लिंक्डइनसारखं ॲप आलं. माणसाची प्रगती प्रकाशवेगाने सुरू झाली. पण या प्रगतीत माणसांची संवेदनशीलता हळूहळू हरवू लागली. आधी शेजाऱ्यांना सुद्धा कुटुंब मानणारे लोक हळूहळू घराची दारं बंद करून आपला स्वार्थ साधण्यासाठी वाटेल ते प्रयत्न करू लागले. म्हणूनच परदेशात गेलेल्या मुलाला आपली एकटी आई मेली आहे की जिवंत आहे हे बघण्याची तसदी सुद्धा घ्यावीशी वाटत नाही , या मुलाला आपल्या आईबद्दल एवढं कर्तव्यसुद्धा बाजावसं वाटू नये? किमान आईच्या प्रेमाची किंमत चुकवावीशी वाटू नये?, हे असंवेदनशील तरुणाईचं एक उत्तम उदाहरण झालं, पण फक्त तरुणच असंवेदनशील आहेत का? आजुबाजूला राहणाऱ्या शेजाऱ्यांचं काय? एक बाई एक वर्ष नजरेस पडली नाही तर चौकशी करणे हे त्याचं कर्तव्य नव्हे? किती दिवस ' आपण बरं आणि आपलं बरं 'हे धोरण हा आजचा समाज अवलंब-णार आहे? खरंच दोष फक्त तरुणांचा आहे का? आधीच्या पिढीचा या पिढीच्या जडणघडणीत काहीच वाटा नाही का? जसे मुलांचे सगळे हट्ट पुरवले तसेच मुल चुकलं तर त्याच्या कानशिलात लगावणे यात काहीच चूक नाही. आई-वडील आपल्या मुलाला वेळ नाही देऊ शकत? आपण जरी असा तर्क काढला की दोन्ही पालक नोकरी करतात, तरी आधीच्याकाळी काय आई-बाप नोकरी करत नव्हते का? अगदी मी स्वतःच उदाहरण सांगतो, मला जेव्हापासून कळायला लागलं अगदी तेव्हापासून माझे आई-बाबा नोकरी करतात पण मला नाही आठवत की माझ्या कुटुंबातील लोकांनी माझ्याकडे दुर्लक्ष केलं. मग आता का? आपला मुलगा काय करतो याची सुद्धा चौकशी करू नये का?

मग मुलांच्या वागणुकीवर प्रश्नचिन्ह उठवणं कितपत योग्य आहे? मुलगा एखादा भयानक खेळ मोबाईल वर खेळतोय पण पालकांना कल्पना देखील नाही, ही असंवेदनशीलता नाही का? माझा स्वतःचा अनुभव, लोकलमध्ये चढताना काही लोकांचा इतरांच्या आई-बापाचा उद्धार केल्याशिवाय दिवस जात नाही, आणि यात वयस्कर मंडळी आघाडीवर आहेत. ही असंवेदनशीलता नव्हे? लोक-लमध्ये चढताना इतरांचा विचार न करणे, आपल्याला जागा मिळाली बाहेर लटकलेला पडला तरी चालेल. ही असंवेदनशीलता नव्हे? अरे लेडीज कोच मध्ये बायका प्रेग्नंट बाईला बसायला जागा करत नाही, तर काही धडधाकट पुरुष मंडळी वयस्कर व्यक्तींना बसायला जागादेखील देत नाहीत. पण आम्ही संवेदनशीलतेची अपेक्षा करणार कोणाकडून... तर नुकताच प्रात्यक्षिक जगात पाऊल ठेवलेल्या आणि हार्मोन्स ने ताबा घेतलेल्या तरुणांकडून. पण जेव्हा हे तरुण एखाद्या ॲसिड पीडित, बलात्कार पीडित व्यक्तीसाठी, या देशासाठी धावून जातात, तेव्हा हेच लोक सर्वप्रथम बढाई मारतात, कारण त्यांची छाती गर्वाने मोठी होते. आजची ही भारताची तरुणाई आहेच अशी. आम्हाला अगदी कितीही असंवेदनशीलतेचा शिक्का मारला, तरी जेव्हा आमच्या माता-भगिनी, देश यांच्यावर कोणीतरी वाकड्या नजरेने बघतो, हिच असंवेदनशील पिढी सर्वप्रथम धावून येते.

-सर्वेश सोवनी
टी. ई. (केमिकल)

TSEC ची मुले

जेव्हा मी TSEC मध्ये झाले JOIN
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मागच्या Batch पेक्षा ही मुलं आहेत 'ढुकार'
पण दुसऱ्या COLLEGE मध्ये EXAM घ्यायला
गेल्यावर कळतं .... आपलीच मुले आहेत 'हुशार'

तसं पहायला गेलं तर , आमच्याकडे आहे SINDHI QUOTA,
पण, TSEC ची सगळीच PASSED OUT मुले छापतात भरपूर नोटा

करतात सुंदर नाच,
वाजतात मस्त गिटार......
COMMUNICATION SKILL, SMARTNESS,
GRASPING POWER ह्या गुणांकडे पाहून
एकच ह्यावीशी वाटते 'पुकार'
एक दीन तीन चार ....
TSEC ची मुले हुशार

-साक्षी सुर्वे (असिस्तन्त प्रफेसर)
कोम्प्यूटर डिपार्टमेन्ट

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मुहिंजा प्यारा सिंधी ,छा तूँ पाण खे सुनाणिथो ?

अजु भारत देश हर पल वाधारे जे तरफ वधंदर देश मां हिक ओह। एं मुखे इन गाल जो ढाडो फखुर आहे त भारत देश खे इन मुकाम त पहुचाइण में असीं सिंधी मणहुनि जो भी योगदान आहे । इतिहास जा पन्ना उठलाए दिसूँ त हिन देश जी रचना करण में ए हिंदुस्तान जी नीव रखण में इहो योगदान अविस्मरणीय आहे । पर अजकल जे सिंधी नवजवानन खे शायद ही इये गालिहयुन खबर आहिन ।

सिंधू नदी जे किनारे रहंदर असीं सिंधी भारत जे विरहांगे खां पोए पहंजा घर, संपती , जमीन्यूँ ,सोन जहडी सिंध खे छदे, भारत जे हुन पासे खां भारत जे हिन पासे में मजबूरन शरनार्थी थी आयासे । खिसा खाली जरूर हुवा पर खून में वहन्दर सिंधू माता जे पाणी मयां विश्वास बुलंद हो । विश्वास हो उन पर अखरन जी सुहिणी बोलीअ ते, विश्वास हो उन बोलीअ में दिनल लोलीअ ते ,विश्वास हो असांजे इष्ट देवता यानि " झूलण" जे दर अग्यां पलव पाईंदर झोलीअ ते । एं दिसंदे दिसंदे असीं सिंधी वरी पहिंजे पेरं ते उठी बीठ से ।

अजु सिंधी माणुन जा शुरू थ्यल कॉलेज बम्बई जे टॉप कॉलेजन मां हिक आहिन । सिंधी सत एं गीतकार - मास्तर चंदर, दादा राम पंजवाणी, भगत कंवरराम , कुमारी भगवंती नावाणी भले ही असांजे विच में हाजुर कोनन पर अजु भी असांजे दिलियुन ते राज करे रट्या आहिन । हेमू कालाणी, जयरामदास दौलतराम , होशू शीदी इ. अहड़ा हजारें नाला आहिन जिन भारत जी आझादी लाए पहिंजो पाण खे कुर्बान करे छदयो । अजु जे दौर में फिल्म इन्दस्ट्री में सिंधी कोम जो नालो मथे कंद्ड घणेही सिंधी सितारा आहिन जीअ त - रनबीर सिंग, अफ्ताब शिवदासानी , हनसीका मोटवाणी बबीता सधना प्रीती झांग्याणी , तम्माना भाट्यिा, रमेश बदस विशाल ददलानी, जी. पी सिपी आनंद एल राय मशहूर हस्तीयूँ जीअ त - पकज आदवाणी बम नेठमालाणी , महेश जेठमलाणी , लाल कृष्ण आदवाणी इह न लिखदे लिखदे शायद सजी मेगजीन भरजी वञे ।

हेरानी जी गल आहे त हेडो अग्यां वदण खां पो भी असीं अजु सिंधी बोलीअ में गलिहायण खां शर्मायूँ था । वक्त अची वयो आहे त असां पाण खे सुञाणू पहिंजे कोम खे सुञाणू , उन सोन जहड़ी सभ्यताखे सुञाणू एं पहिंजे सुहिणी बलीअ खे सुञाणु जेकी बोली असांजी नीव आहे । मुख गर्व आहे त मां सिंधी आहियान !

अभीशेक मूलचंदानी
एफ. ई. (कंप्यूटर)

सिंधी बोलीअ खे बचाइण जा उपाव ।

"हर कहिंखे पहिंजी बोली हुंदी आहे,
असीं सिंधी आहियूँ , अस्ताजी बोली सिंधी आहे "
पर छा असाँ पहिंजी बोली सां इन्साफ करे रहया आहियूँ ? जिंह बोली में मायटन असांखे लोली
दिनी छा असां उन बोली जो मान करे रहिया आहियूं ? छा असी पहिंजे बारन् सां , मिटन मायटन सां सिंधी में
गालिहायूँ ता ?

असांखे सजी दुनिया 'मोहन जे दरे जा माणू" इन नाले सां सुञाणींदी आहे पर अफसोस अजु चारों
तरफ सिंधी बोली जी हालत हीणी आहे । सिंधी स्कूल हिक-हिक करे बंद थींदा ता वञन ।

हिक अहिड़ो बी वक्त हो ,जो बम्बई में शुरु थियल सिंधी प्राईमरी ऐं सेकेंड्री स्कूल जोर शोर सां
हल्ंदा हुवा । सभिनी क्लासरूमन में सवन जे तादात में बार सिंधी सिखंदा हुवा । पर अचानक केटरन माइटन खे
अहिड़ो भूत सवार थियो जो पहिंजन बारन खे अंबेजी स्कूलन में विहारण चालू कयऊ । वक्त गुजरंदो वयो एं
सिंधी बोली पुठ ते पवंदी रही एं अजु गणेही सिंधी माणुन खे सिंधी लिखण छा सिंधी गालिहायण बि घट वद ईंदी
आहे।

वई सा वई .हाणे भी वैल वई नाहे । असीं हाणे बि पहिंजी बोली खे बचाए सघंदा आहियूं जे असीं हेठ दिनल
गालिहयुन ते अमल कयों सें:-

१) मायट पहिंजन बारन खे घर में सिधी लिखण, पठण ऐं गालिहाइणु सेखाणिन ।

२) नायट पहिंजे बारन सों हर हंद सिंधी में गालिहाइणजी आदत विजन !

३) सिंधी सभ्यता, सिंधी लाडा, तथा असांजे सिध्यत जा अमर संत ए महात्मा इनन जे बारे में जानकारी बारन खे
दय्ण घुरजे ।

४) पहिंज बारन सां, दोस्त यारन सां सिंधी त्योहार मनाइणु घुरजन एं इहे त्योहार असीं छो मनाईंदा आहियूं इन जे
बारे में जानकरी हुजण खपे ।

५) पाण एं पहिंजे बारन , आसे-पासे वारन खे सिंधी नाटक एं नृत्य दिसणलाए हिमध्याण घुरजे ।

६) सिंध ए सिंधू नदी जी महिमा पहिंजे बारन खे गीत तथा किताबन जे माध्यम सां बुधायण खपे ।

७) अजकल गूगल प्लेस्टोर ते इंदर सिंधी रांद्यूं, सिंधी बेत एं सिंधी बोली सेखाणींदर अप्स जो उपयोग करे बारन
खे सिंधी बोली सेखारे सगजेथी ।

८) बेहराणा, चेटी चंद, चालीओ, थदड़ी, गोगो, सावा दिहन् तथा ब्या बि सिंधी त्योहारन जे बारे में बारन खे
जाजकारी दियणु गुरजे।

९) असीं सिंधी, सिंध में अलग-अलग गोठन में रहंदा हुयासी । उनहन गोठन जा नाला जीअ त - पीरगोठ,
सखर,मधेजी,   खाई जो गोठ, जेकम्बाद, रहड़की इ. एं शहरं जा नाला यानि शिकारपुर, कराची, लाहौर,
हैदराबाद (सिंध), बारन खे बुधाइण जरूरी आहे ।

१०) नद्यूं - नद्यूँ शयूं जींज त सिंधी में भाज्यन जा नाला, फलं जा नाला, जानवरं जा नाला बारन खे सेखारण
जरूरी आहे । इहे शयूँ बारन खे घर में सिंधी गालिहायण में मटट कंदियूं आहिन ।

इन नक्शेकदम ते जे असीं अज खा हलण चालू कयोसी त झूलण जी रहमत सां जरूर असांजी बोली हमेश वदंदी
एं फुलंदी ।

करन नागपाल
एफ. ई. (कंप्यूटर)

कुछ वक्त तर्सु

ए मौत तूं मूते केत्रो न मेहेरबान आहीं
तू दर जि वित्शी खोले डिसी थी
त हीय लिखण में मेहरूफ आए एं पो दब्बे
पैर मोटी वजे थी
जिय मुहिंजो ध्यान तोडां न छिकजे _
पर इहो न भुल त मुखे याद आहे
त मुँ मेहमान खे मुलाकात लाए काफी
तरसायो आहे
पर माँ छा कयां ; हीयु सफर मुहिंजो
खतम न थ्यो आहे

अंशुल वलेचा
टी. ई. (बायोटेक्नालॉजी)

कुमारी भगवंती नावाणी

रोहिता रोहरा (एफ. ई. इंफॉर्मेसन टेक्नालॉजी)

" आयो बीहु सभागो .....

अगर इहे अखर पढ़ही तवूहांजे दिलि ए दिमाग मे भी इन सुरीले गीत खे गाईंदर हकि सुरीलो , सुन्नो ए मटिड़ो आवाज गूंजी रह्यो आहे त हा, तवूह्ब भी इन महान हस्ती जा दीवाना आहियी । ही आवाज आहे "सधि जी कोयल " यानि कुमारी भगवंती नावाणी जो । भगवंती सरिफ गायका ज पर हकि अदाकारा भी हुई । हिनि केतरन ही सधी नाटकन मे , फलिमिन मे अदाकारी देखारी । भारत जो एहड़ो कोई गोठ यान शहर न हूंदो, जिति भगवंतीअ लाडा, भजन ए सधी गीत न गाया हूंदा । हिनि लाए रेल्वे जो सेकंड क्लास डब्बो ही घर जे बराबर हो । उन वक्त रेल्वे जे डब्बन मे लकड़ीय जूं बैन्चें हूंदयूं हुयूं । सज़ी रात ट्रेन मे बैन्च ते सुमूह्ब वे हीह पूरोग्राम मे पाण गाईंदी, नचंदी, टपंदी हुई ए बयिन् खे भी जचाईंदी हुई । सदाईं मुर्क चप ते, गले मे सरस्वतिअ जो वासो, रा रा मे शदियत समायल इहा हुई असांजी भावांती ।

कुमारीअ जो जनम ०१ फरवरी १९४० ते ,जासरपुर, सधि मे थयी हो । कुमारीअ जी डाड़ी साहेब पाण सधी भजन ए लोक नृत्य गाईंदा हुवा । उन्न ही भगवतीअ खे संगीत सां सुञाणप कराई । इन्करे भगवंतीअ खे नंडपणि खां संगीत मे रूची हुई । उन पहुंजि संगीत जी अग्यां जी सखियां देवगई म्युसकि स्कूल ए पो अरुन संगीत विद्यालय मां पूरापत कयाई । भगवंतीअ जो आवाज़ उनजे उमर सां सुरीलो थींदो ए्सो वधे । भगवंतीअ पहुंजि सुरीले आवाज़ सां सरिफ सधी कौम खे ही ज पर सज़े जहान खे पहुंजो दीवानो बणाए छड्यो । कुमारी जो मार्गदर्शन करण वारा हूवा महान सधी लेखक ए ुह्राणी कव्वि" गोबदि मालूही " । गोबदि मालूही सहाव ,कुमारी खे हकि दफो सगझाईंदे च्यो हो त कुमारीअ खे सधी ए सरिफ सधी मे गाइणु खपे । मालूही साहब जे हिसाब सां कुमारी सधी कौम जो हकि अनूमोल रतन आहे, जेको ईंदड़ वक्त मे बिल्कुल सही साबति थ्यो । उन्हन नावाणी खे शादी न करण जी सलाह भी दनी हुई ,छाकाण त उन्हन खे इहो डप हो फी शायद शादी खां पोए ईंहड़ड जयाबदारयुन जे करे कुमारी गाएण छडे दींदी । भगवंती गणेही सधी फलिमुन लाए पहुंजो आवाज दनी जीए त - झुलेलाल ,लाडली, सधिअ जे किनारे, मल चींअर न जमन , होजमालो, कंवरराम , हलु त भजी हलकं , परदेसी पूरीतमु । ३००० खां मथे स्टेज- शो कुमारी करे चुकी आहे । भगवंती ,गोबदि मालहीअ जे लखियल गणंही नाटकन मे अधाकारी निभायी जीएं त मेहमान, गुसताखी माफ , तुहजो सो मुहुंजो , देस जी ललकार । कुमारीअ सधी फलिमुन गे भी कम कयो आहे - "सधिअ जे किनारे" ," छल चींअर न जमन" । भगवंती लाडन सां गढ भगत भी वजिंदी हुई। नावाणीअ एस. पी. मेघाणी ,मास्टर चंदुर ए दादा राम पंजवाणी इनन सां भी कम कम हो ।

पर चवंदा आहनि न ," लखियी जो ललाट मे सो कयिड़ो कीन थीए " । भगवंतीअ खे डाक्टरं पहरां ही आगाह क्यो हो त उनजे केंसर जे करे गाइण जानलेवा आहे । पर भगवंतीअ गाइण न छद्यो । उन जे लाए गाइण ए वजाइण ही उन जी जिंदगी हुई । गाईंदे ,वजाईंदे, नचंदे, तपंदे असांजो अनूमोल रतन २२ डिसिम्बर १९८६ मे असांखे छदे उन भगवान सां हकि थी वयो । पर अजु भी कुमारी भगवंती नावाणी पहुंजे लाडन्, गीतन् ए भजनन् सां असांजे दिलिन् ते राज कंदी आहे ए हमेशा कंदी रहूंदी ।

..... लाड़ा छो न गाइयूं "

6.ARTWORK

Jatin Valecha
TE IT

Rome

Akash Kini
TE IT

Sagar Shah
SE Computers

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Vijayalekshmi Nair
TE EXTC

Suman Duseja
TE IT

Akash Kini
TE IT

THE HARDEST PART
OF ENDING IS
STARTING AGAIN.

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Neeraja Rane
BE EXTC

Priyanka Kannan
TE Computers

Sachit Nalaskar
ASST. PROF. , Mechanical Department

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Sohail Khan
FE Chemical

Alishka Garg
SE Biotechnology

Ipshita Bijlani
BE Computers

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KARAN MAKHIJA
TE (COMPUTERS)

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai-400 050.

NEERAJ KHADAGADE
SE (EXTC)

SUHASINI LULLA
TE (BIOTECHNOLOGY)

PRATIK BAJAJ
TE (COMPUTERS)

BHAUMIK BHEDA
BE (CHEMICAL)

DEEPAK RAICHANDANI
SE (EXTC)

7.ALUMNI

Deepak Chhatani

CAMBODIA- A KINGDOM IN RUINS

At dawn, waiting for the sunrise in front of Angkor Wat is mesmerizing; it leaves you in a state of trance & the moment is permanently etched in your memory. There is something so beautiful and special about this view, that it's even a part of the Cambodian flag. Built in the 12th century, it still remains the largest Hindu temple on earth. The beauty and peace associated with the outside, is lost when we look closer. Past differences between the caretakers of Hinduism and Buddhism, multiple invasions, natural calamities and the civil wars post French colonization have left most of the monuments in ruins and Angkor Wat is no exception. Broken statues, torn out stone carvings, broken walls, signs of loot and destruction are evident everywhere. Many countries have undertaken projects for restoration of these old temples, to make them presentable, if not back to its former glory. Germany is trying to fix Angkor Wat, while India is restoring the pride of Ta Prohm Temple.

Cambodia has a complicated history, in addition to the present. It hasn't paced well into the 21st century like its neighbors Thailand & Vietnam. Corruption is evident everywhere. The country suffered turmoil during the Khmer Rouge rule in the '70s followed by genocide. Many of the victims, then kids, are the builders of present day Cambodia. Justice hasn't been given yet to the victims and survivors of the past torture. According to a UN survey, most of the population suffers from PTSD. The present government (a form of democratic dictatorship) is disliked by the educated. Unemployment is a major problem, and for many Cambodian youth, escaping to Thailand is the goal. Poverty is footsteps away even from the glorious Angkor Wat. It is not a typical tourist destination, and yet it attracts many.

Traveling to Cambodia feels like time travel. You can see for yourself what life would have looked like in the early centuries with its serene beauty, calmness & parts of the countryside that are untouched by modernisation. In towns, French architecture and remains of the colonization are still evident. Long before Buddhism flourished here, Cambodia was a Hindu Kingdom, evident from the stone carvings depicting the tales of Ramayana and Mahabharata on the walls of Angkor Wat. Lord Vishnu's idols were then converted to Lord Buddha's, and history was rewritten. Sanskrit is still alive here. The present day Khmer language which is widely spoken here has roots in Pali and Sanskrit. There is a river few kilometers north east to Angkor Wat, where thousands of Shiva lingas are present, one of a kind outside India, which attracts devotees from India. Leaving history and mythology behind, many from the west come here to enjoy the nightlife, evident from spending an evening at Pub Street. I happened to be here during the Khmer New Year, the biggest festival in the country. These celebrations were a match for our Holi celebrations in India. Cambodia is a story of hope, of trying to find small joys in life amongst the myriad of problems. What makes me sum up my views on Cambodia, was the thought that if this Kingdom still retains so much beauty in ruins, just imagine the magnificence of its Golden Age.

Atul Khatri

TSEC has seen a great alumnus, and there is one personality who went after his calling in what is traditionally viewed as 'late' in life. Synapse is lucky to have caught up with this stand-up bigwig, who is ruling the industry since the last ten years, at his alma mater itself. Atul Khatri, a man who is unabashedly proud of his Sindhi origins doesn't shy away from addressing their peculiarities too in his humour. Here are a few excerpts from the interview.

Q: We have read a lot about how your 'second' career grew over the years. How has studying in TSEC helped you in this line?

A: The whole process of engineering opens you up. It is not uncommon for me now to be receiving messages from various students saying, "Sir, jam nahi raha", "I am not cut out for this", "I am dropping out". But I think the process develops your personality altogether. TSEC has helped me in this manner. It has also given me a strong network base, which I think is most crucial these days. I have a close group of six buddies from TSEC and we still hang out. These things might seem trivial, but they are important in the long run. So yes, TSEC has influenced me a lot.

Q: You're popular for your jabs at Sindhis. Have you faced any severe backlashes for this?

A: Not really. Sindhis have a good sense of humour thankfully, and the easy-going nature helps us enjoy a good laugh, even if it is at ourselves.

Q: It is a matter of great concern these days, the whole aspect of getting offended at trivial issues, calling for a ban on comedy artists etc.,. So basically, Indians are modernised to a great extent, but ability to get offended has not. Why so?

A: If I am to put forth my way of managing through this ever-present concern, I would say that my humour is not offensive for the heck of being offensive. It is all a matter of presentation. The very fact that these protests are gaining prominence is because a wide majority has a problem that humour is not being appreciated. There is a substantial amount of population that is now acquainted with English stand-up. It is not even about small towns being conservative anymore, everywhere new avenues are opening up. There are a variety of trolls made about our PM, and these are especially preferred by the younger set of artists in the scene today. But they most often do it without using his name and yet, it is well received by most. The cases where it is not is actually a travesty of it's own. So the presentation of such 'sensitive' content is what matters.

Q: What was the scenario regarding college festivals during your days here?

A: Actually when I was a student, TSEC was a college that operated out of two floors of the current Watumull campus. By the time I came to the Bandra campus, it was my final year and time to leave college! There were no festivals per se. Not just here. All of Mumbai literally had just Mood-Indigo (IIT Bombay). I had attended that, and there was no frolic in the manner of shows or such events that are synonymous with college festivals today. But I do remember about the time when we had organised a Fun Fair kind of a thing for a couple of days. That was the only extra-curricular activity in our time.

Q: Do you think it is easier for children to choose unconventional careers with respect to parental pressure today?

A: I think if any of my daughters, aged 22 and 18 currently, told me that they want to pursue a career in art, direction, tourism or such I would let them go ahead. Of course, one would think it is easy for me to say so because I myself left my business and branched out from the engineering life. But in general it is common knowledge that there are so many different and diverse opportunities today. If you observe the film industries, a few years back it would be surprising to learn of a designation such as the Casting Director. Compare that to now, when there is a separate fraternity altogether for this purpose. As parents we do realise that there are quite a lot of options available today. What matters is whether or not you are willing to take the risk of failing initially and also to put your points forth to your parents methodically. The basic aspect of any communication is it's presentation. When well presented, sooner or later, parents will also agree.

Q: If you were to describe TSEC in a line from a Bollywood movie...

A: Errm.. I am not very good with Bollywood dialogues, but I think one from Baazigar fits well enough, "Haarke jeetne waale ko Baazigar kehte hai", because TSEC gives you a tryst with all kinds of adversities that you face when you move to corporates or basically, when you step into life and it ensures you find your way to success.

Q: Something you'd like to tell the current lot of TSECites in general?

A: Don't take offence. Life is too short to get offended over silly Facebook posts or their comments. I say this because most of your active phases in the day are spent online and the negativity can be avoided if we stop taking these things so seriously. Take it easy. Make the most of life's opportunities.

-As told to Anushree Jai in February 2017

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Learn By Doing

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I am going to try and keep this as short as possible because students who will be reading this couldn't care less about acadnion or me. Let's get the boring stuff out of the way then. I am an alumnus of TSEC, having studied there from 2012 to 2016 (yes, only 4 years). InstaDev Private Limited was incorporated in August 2016 and we started work on acadnion in September 2016. It is nice to have your own business but it is by no means cool or commendable. People who start companies for the sake of it often fail as they have absolutely no idea what they are doing. Starting a Private Limited or LLP company is no joke and if you don't handle everything properly you could end up with hefty fines and a ton of problems.

Since the time I was in junior college, I always wanted to do something to help improve the education system in India. Although it seems naïve and far-fetched ,you must aim high to get somewhere. I started working on a concept in the 3rd year of engineering. I made a business model, a Pitch Deck amongst other things and approached investors after which InstaDev successfully received angel investment, which was enough to get us started. acadnion stands for academic companion and it is an online interactive platform for students, teachers and parents. acadnion.com went live on 18th March 2017 after a 2 month delay due to technical hurdles. Since then, 7500+ students, 500+ teachers and 650+ parents have registered on acadnion.com. We recently launched acadnion kids and graduated from our incubator to shift into a new office space. In the past year, acadnion has employed (full time and interns) around 10-15 people from TSEC.

Enough about acadnion now. The main reason I chose to write this piece was because I wanted to convey an important message to everyone who bothered to read this. Do what you like and do it with conviction. Study well but only to pass your exams. If you study or learn something but you cannot implement it, what's the point of learning? You should either do internships or work on honing your skills, learning by doing is the only way you can lead a successful and happy life.

"

Devansh Lala
Founder, CEO at acadnion

Harish Rijhwani

Who Am I?

"It has been approximately around One hundred and Thirty-One thousand hours since I passed out as an Electronics Engineer from Thadomal Shahani (TSEC). Life has come a full circle and I have an opportunity to share my experience with all of you. I still remember the day when I had come to TSEC for taking admission. My grandfather insisted I take up Computer Science but I chose to follow my childhood passion and took up Electronics Engineering, though I am working in the IT Industry currently.

In the second semester we had PASCAL while the Computer branch had COBOL. Little did I know that I would start my career in COBOL. After working at Syntel I realized that COBOL and mainframe were the most used technology in the world (more than 70%), the reason being mainframe is still considered highly robust and secure.

By the 3rd year, many of my batch-mates were already planning for an MS abroad. It was a known fact then that approximately 90% of the students from Thadomal travel to the USA for MS. Very few decide to stay back, gain some experience and then pursue MS or MBA. I was amongst the few. Thadomal provided me with a platform from where I could get a job. I had a decent grade so I could take the aptitude test conducted by all the companies that came for recruitment. At that time, not many companies came because 9/11 was still fresh. It was only in September of that year did Syntel come to Campus for placements. One question that I can never forget – "Do you have any preference for any technology" – I said no and landed the job.

When I started working in Syntel I was very focused on growing technically and got into the depth of many technologies. It was only after some years I realized that beyond a certain point technology alone cannot help me grow/move forward in my career. One example which I like to relate to this is that of Facebook. Mark Zuckerberg did not create Facebook because he knew ASP .Net / Java or any other technology. He created Facebook because he saw a business idea of creating a platform which can be used to connect/share content with friends. So, it is very important to know the What, Why and How of things. The gist of what I am trying to say is that most of the cases we come across are those of "Business Driving Technology" and not the other way around.

In conclusion, three things which I would recommend:
1. Understand the business need/problem
2. Look at the big picture
3. Link the use of technology to solve the business problem.

I had the most memorable four years at Thadomal Shahani Engineering College. In the end I would like to thank all my teachers: Dr. Ashwini Kunte, Anuradha Rao Ma'am, Mani Roja Ma'am, Rajput Sir, Medha Ma'am, Mathew Sir, Anushree Gupta Ma'am, Vijaylakshmi Badre Ma'am, Shristi Bhatia Ma'am, Neeru Phatak Ma'am, Uttara Bhat Ma'am, Jyoti Kashyap Ma'am, Amit Hatekar Sir, Professor Honawar and the then Principal Professor Kranti Kumar.

I am TSEC.

"Speaking about TSEC always reminisces some of the greatest memories I've had in my four years of engineering. For me, TSEC was more than becoming an engineer (and I guess every TSEC Alumni will agree to this point). It was about making the greatest friends, participating in events, enjoying the frequent cultural trips/industrial visits and surviving the gruelling months during exams.

Working with the Students' Council was another important chapter in my life that helped me grow apart from academics. It's a great start towards becoming accountable. Speaking about academics, one thing I regret is not being able to master all the concepts offered in our curriculum. The learning environment may not be short at best, but a little more effort now will save a lot of time from looking up Google and taking online courses when you are faced with applying those concepts.

One advice that I would like to give everyone who is still studying is TSEC; be progressive. Our college offers great opportunities for personal development. There are events all year round, and some people might feel taking part in those is a total waste of time. It's true that your grades might get affected, but good grades will not always get you in the best place. In the industry, what matters more is how effectively you communicate, how you work with people around you. Most of your success in career can be attributed to your personality and ability to communicate, negotiate and lead and much less to technical soundness. So go out there, spend some time outside the classroom, it won't do you any harm!"

Sahil Kotwal

Ram Mirchandani

"Hello, Dear Impossibility. Yes, I called you that because I want you to realize the infinite number of things that had to go right to ensure YOU were born. Billions of years of evolution, the right people meeting each other at the exact right place and time, all to ensure you would be able to see this day. The next time you say something is "impossible", stop for a moment and consider the odds of you being alive. Then, think again about what you initially thought was "impossible"

Dear Impossibility, I want you to realize why you exist. Or at the very least, question your existence. Whoever made sure you exist, why did they bother? You are here for a purpose. That purpose is not to drink and talk about unicorn frappucinos. To find this purpose, just start listening to yourself. Your internal GPS will tell you if it agrees with your decision or not. The more you listen to yourself, the stronger your inner voice will be. You will be in touch with this voice - which is coming from the universe itself. You will be in touch with the Creator. You will be able to listen to the Creator's instructions and sail through with ease.

Once you are strong enough at this level, you will proceed to Level 2, the stage where you meet the Creator. You ask the Creator - what was the point of all this? The Creator replies - I made it just for you. All of this. Just so you could mature and go to the next stage, my stage. Every single person you met was an incarnation of you. It was just you all this while. Every single person who ever lived and died. You were them and they were you. You have seen the world through their eyes and they have through yours. You were Gandhi, you were Hitler and you were Stalin and Einstein. Every time you had a deja vu, your spirit was recollecting the experience that you had already been through in another incarnation. The brain remembers facts, the spirit remembers feelings. That's why it felt so real. Because it had already happened in another lifetime, in another incarnation. Every time you felt happy you were tuning in with all the happiness you've had in all your lives collectively. That's why I made you laugh so much and loved it when you did. There are many like me, and you will be one of us. But first, you will pass through all the lives until your soul has fully matured. This playground is yours to explore, and you can fill it up with whatever you want. There Is No Spoon.

If at this point, there is an inkling of thought in your mind – "how do I become such a person?"
A. Go ahead and be the kind of person you would enjoy spending time with, not that cute crush. Impress yourself, not others. If you want to be a life saving vigilante who mountain bikes on weekends, go be one. This piece is inspired by such a person's life, who was once in your shoes and after a backyard full of mistakes and listening to others finally decided to listen to himself.

Lovingly,
Ram Mirchandani

8.ENTREPRENEURS AT TSEC

SAVING A MILLION LIVES WITH DATA ANALYSIS

Every 33 seconds a person dies from heart attack in India, because they are not diagnosed correctly or did not receive proper medical care. There are many other diseases that often go misdiagnosed. This provides a problem for us to solve. The available technology has reached a point where we can conduct preliminary diagnoses of diseases without the need of trained doctors. The recent development in AI, Machine Learning, and Biosensors facilitates the growth of new and innovative healthcare solutions.

Fitness bands in the market serves as the best example for a very good technology that has been used limitedly. These fitness bands generate loads of data but the data isn't analyzed properly. If the data generated by the bands is harnessed properly they can be used for diagnosis of various diseases and can be personalized for that particular treatment. This data can also allow us to get an accurate diagnosis of diseases at the proper time, saving millions of lives.

We at Iband handle the above problems through customised algorithms that use Machine Learning & AI to determine the diseases with the help of the health band that monitors your vitals constantly and alerts the patient in the case of an emergency.

My advice to you would be to build something of value and not just earn a degree and score marks.' INVENTING A JOB IS MUCH BETTER THAN FINDING ONE'. Find out what your real passion is, what you are best at. Find a problem that you think no one is solving. The solution is often in the back of your mind.

Pritesh Mistry

WORRIED ABOUT CERTIFICATIONS?

This android app named MCQBuddy is for the candidates who are preparing for certification exams(Especially Oracle).

This free app constitutes of four modules:
1. Java (OCJP 8) Certification
2. SQL(OCA) Certification
3. PL-SQL(OCA) Certification
4. Android

& much more coming on the way.

With 1000+ Question-Answers, you can easily crack the exams, helping you build a strong profile.

All the best and get certified.

Developed By:
Rohit Lalwani & Pawan Jeswani

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WE CRAFT YOUR WORLD!
-FOXALIGN

In today's world when each book is judged primarily by the cover, making a lasting first impression is mandatory. This objective can be only achieved by eye-catching designs that leave the viewer impressed. FoxAlign promises and intends to fulfill this objective.

FOXALIGN is a subdivision of GITAN-JALI INNOVATIVE SOLUTIONS PVT LTD(GIS).

Our mission is to capture your vision and create a design that is effective and engaging.

We add a touch of creativity everywhere such that your brand is well recognized. We will always be there to assist you.

Our services include Web Development, Logo Designing, Poster Designing, Banner Designing, Brochures , Pamphlets, Visiting Card, Video Stock Motion, On Site Photography and Videography.

By: Hima Lalwani
    Sagar Shah
    Neeraj Khadagade

9. OPTIONS AFTER ENGINEERING

A prestigious degree at one point of time, engineering is now the interim period after 12th grade or diploma as students try to figure out their calling. Wherever you may be in the engineering life cycle, it is imperative to know what lies ahead of this. The next stage can be generally divided into 3 broad parts.

- Starting your own venture
- Pursuing higher education
- Seeking employment

Starting your own venture:

If you have an innovative idea that can be monetized, a more efficient method to a known process or some way to improve the world, this is the best time to work on it. The planning itself takes a long time and can be done concurrently with your education. It is a risk not just with finance, but more so with your time. This risk can be minimized by starting as early as possible.

We have to realize the risk involved in not taking a job. We aren't foregoing the first few years but rather the last few years of our income where our earnings are at our peak. This might mean multiple crores depending on where you might rise to. Similarly, not working on your big idea might mean losing an even higher amount.

However, switching mid-career may pose a greater risk. Loss of years of experience and dependents to deal with make this tough. It is thus better to start early and make it or break it as early as possible while gaining valuable lessons through your journey.

Advantages:

- Greater returns if business model succeeds
- Valuable experience in managing
- Gaining multiple skills

Disadvantages

- High risk. Needs investment and can fail
- Low returns in the beginning

Higher Education:

This means continuing your studies for at least 2 more years. This can be broadly divided into 4 categories:

- Management degrees in India (Such as PGDM etc.).
- You can choose among the several eligibility exams depending on your desired institute such as CAT (for IIMs, and most colleges all over India) and MAH-CET which test your English, logic and quantitative ability.
- This could be followed by resume screening and interviews for further selection.
- Management degrees abroad (MBA etc.)
- For most institutes, this requires giving the GMAT, some accept the GRE while others may have their own examinations.
- Complete evaluation of your profile aside from the exam score is standard practice.
- Expensive, with average fees ranging above $120000 or Rs.76,80,000/-.
- While most institutes require job experience, there are some that don't consider it a necessity.

- Technical degrees in India (MTech, ME, PhD, MS)
- GATE is the branch specific examination that can get you admission in the IITs and IISc for your post-graduation;
- Usually admission is granted solely on the examination;
- Technical degree outside India (MS, MS+PhD)
- Most institutes require a GRE score and a language exam such as TOEFL or IELTS.
- Academic record and overall development is taken into consideration.
- Pursuing further education in your own branch is recommended, however doing so in a completely different branch is also possible

If you are contemplating higher education, letters of recommendation from people who have worked with you and extracurricular activities might give you that much needed edge over your competition.

Advantages:

- Opportunity to study further in field of interest.
- Take advantage of geographical pay differential (if working in foreign companies)
- Get exposed to new cultures

Disadvantage:

- No (or) low income earned during period of study.
- No job experience earned
- Expenses incurred while studying

Employment:

This can be divided into two sections, popularly known as core and non-core. Core means the jobs relating to what is taught throughout the engineering curricula related to your respective branch. All other profiles, including the ones for other branches are called as non-core. There are also exams such as UPSC, MPSC which you can give for government jobs.

A majority of the jobs are related to the IT industry which consist of various roles such as technology analyst, developer and consultant. This generally requires a high level of proficiency in problem solving and programming. Other non-engineering roles might include finance, teaching, marketing and sales.

While criteria for eligibility changes from employer to employer, these are the general rounds that they use to filter candidates:

- Cutoff percentage (Usually 60%), branch eligibility and KT filters
- Aptitude Test or competitive programming test.

- Group Discussion (G.D)

- Technical Interview

- H.R interview

- Impromptu speaking test

Recommendations to obtain the job of your dreams.

- Participate in competitive programming, which includes websites like Hackerrank, Codechef

- Improve your communication skills

- Improve specific skills related to specific technologies

- Learn a new language (which can help with foreign placement)

- Internships

Advantages

- Start earning immediately

- Gain experience while others are studying or building a start-up

Disadvantages

- Low job satisfaction possible

- Future earnings might be lower

There are a plethora of options after engineering and each student needs to decide his/her own path to achieve success.

DECIDE.
COMMIT.
SUCCEED.

With inputs from Assc. Prof. Sunil Gidwan

10. HALL OF FUN

ACROSS

1. As far as autowaalas are concerned, you belong here
2. You just got to #WaitForIt
3. A Haven for the ignorant
4. This is out of bounds
5. Everyone's Sindhi vocabulary begins here

CROSSWORD
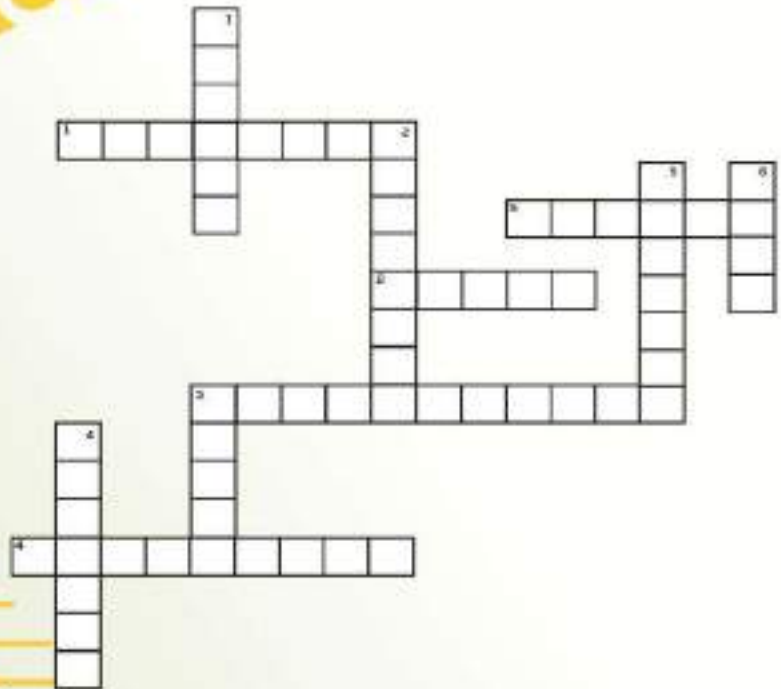
DOWN

1. The main reason why NB citizens know OB exists
2. Don't break this one, guys
3. What goes around, comes around
4. Sabka Maseeha
5. Massive Cultural potboiler
6. The apparent reason you don't see crows around TSEC

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A prisoner was brought before the king to be executed. The king was in a peppy mood and asked the prisoner how he would like to die. The prisoner told him and the king laughed heartily. The prisoner was released and sent on his way, alive.

What did the prisoner say?

A man comes up to the border of a country on his motorbike. He has three large sacks on his bike. The customs officer at the border crossing stop him and asks, "What is in the sacks?"

"Sand," answered the man.

The guard says, "We'll see about that. Get off the bike."

The guard takes the sacks and rips them apart; he empties them out and finds nothing in them but sand. He detains the man overnight and has the sand analysed, only to find that there is nothing but pure sand in the bags. The guard releases the man, puts the sand into new bags, lifts them onto the man's shoulders and lets him cross the border.

A week later, the same thing happens. The customs officer asks, "What have you got?"

"Sand," says the man.

The officer does another thorough examination and again discovers that the sacks contain nothing but sand. He gives the sand back to the man, and the man again crosses the border.

This sequence of events repeats every day for the next three years. Then one day, the man doesn't show up. The border official meets up with him in a restaurant in the city. The officer says, "I know you're smuggling something and it's driving me crazy. It's all I think about. I can't even sleep. Just between you and me, what are you smuggling?"

What is the man smuggling?

BRAIN TEASERS

A rich and handsome man named James Leonard was murdered on a Sunday afternoon. At the time of the murder there was: the maid, the cook, the butler, the gardener and the wife. They gave the following statements.

Maid: I was fixing the table.

Cook: I was cooking breakfast.

Butler: I was polishing the silverware and the dishes.

Gardener: I was planting tomato seeds.

Wife: I was reading a book.

Who did it?

FIRST YEAR

Finally in College!
I made new friends!
Should I participate in the group dance?
What do I wear for Freshers?
I am going to get a straight 10 pointer !
Work is getting on me

SECOND YEAR

engineering.

This is not what I had expected
Why did I join this committee ?
Why is this happening to me?
I hope I pass
Stress has stopped affecting me now
Do I have any friends?

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THIRD YEAR

I am getting used to this now
I think I can manage things better
I made a true friend!
This is my home :)
I am not ready to decide my future yet
My friend has got my back
I will make it through

FOURTH YEAR

Project group is family
I need to buy formals
What colleges should I apply to?
I don't want to leave this place
Goa finally!
The most memorable Trifles !
* hugs random batch mates and cries *
Graduated!

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COMIC STRIP

~Sohail Khan
FE (Chemical)

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ALSO, OUR HEARTFELT GRATITUDE TO PROF. SANJAY PANDEY

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THE WHOLE Purpose OF education is to turn MIRRORS into WINDOWS

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TSEC SYNAPSE 2017

Annual Report for A.Y 2017-18
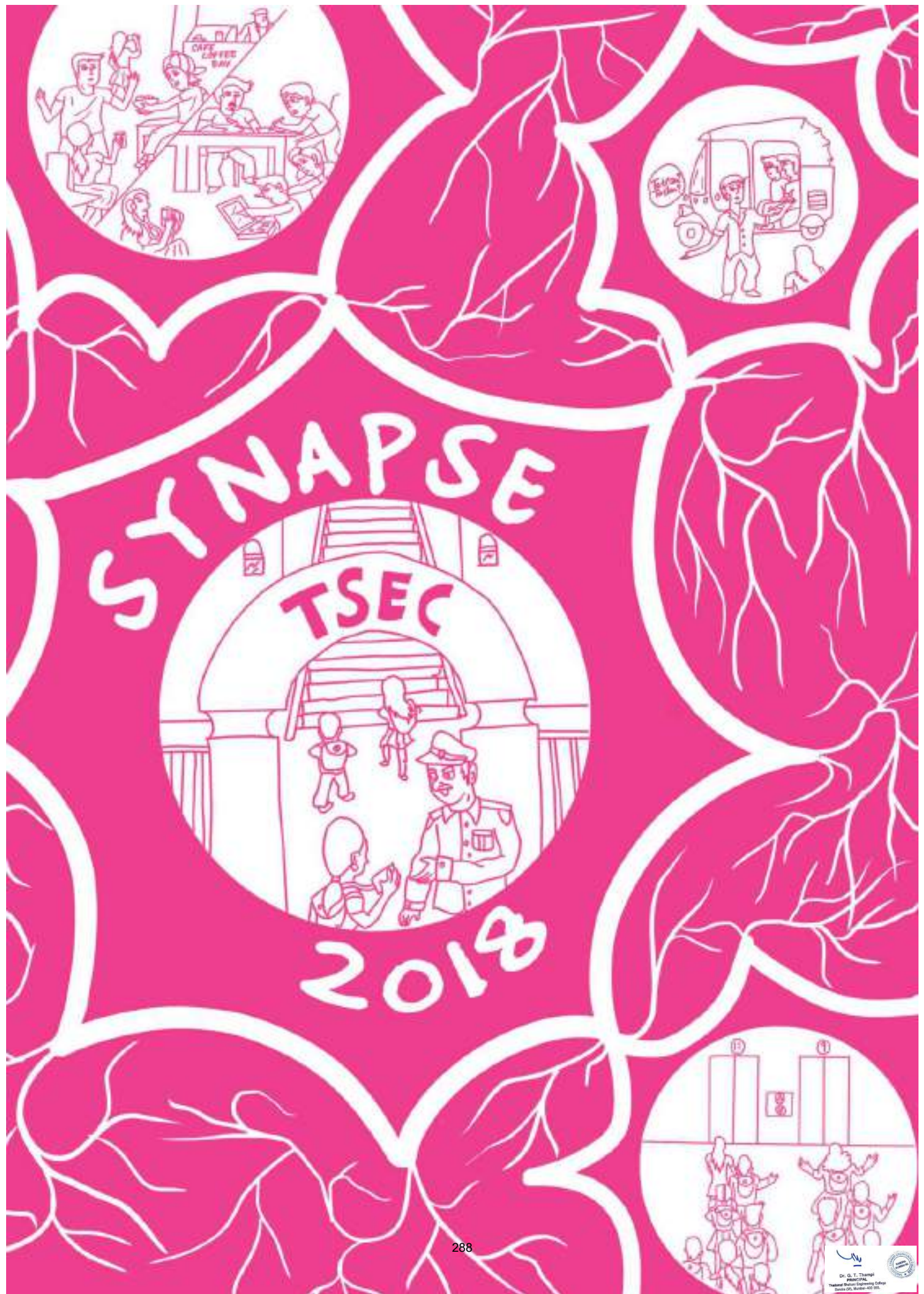
SYNAPSE
2018
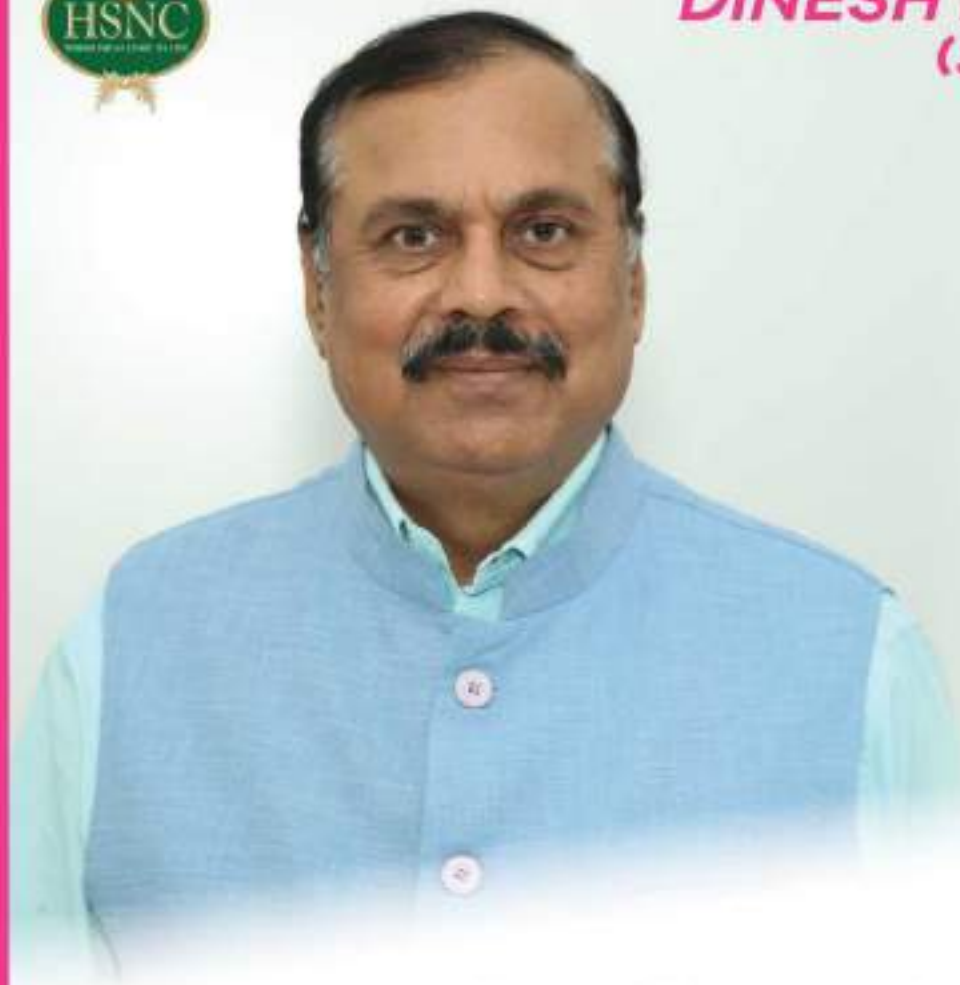
Science can amuse and fascinate us all, but it is engineering that changes the world.

– Isaac Asimov

It is my pleasure to send my good wishes once more to Synapse, the creative, graphic annual College Magazine of Thadomal Shahani Engineering College. TSEC, since 1983, has been responsible for providing quality education in Engineering, under the umbrella of the H(S)NC Board and has come a long way in fulfilling the aspirations of our founding fathers – Vidyasagar Principal K M Kundnani and Barrister H G Advani. As a brand ambassador for the College, the Magazine Synapse coordinated by the faculty and the students of the College has provided a vibrant platform for the inhouse training of students in creativity and for expression of their multiple talents. My congratulations to Principal G T Thampi and his team.

In the 70th year of the H(S)NC Board, when we are in a celebratory as well as introspective mode, we can look back to the achievements of TSEC as exemplary. Apart from producing industry-ready professionals in Engineering, TSEC has shown its sensitivity towards social causes and issues with its wide range of NSS related and other outreach programme. Instilling human values in students and the youth has, therefore been one of its core successes.

The journey ahead is one in which new challenges will arise with the growth of technology and ever–evolving and ever-expanding field that Engineering is and which is reflected in the various courses offered by TSEC. George Bernard Shaw has said, 'Science never solves a problem without creating ten more'. And each new problem is a new challenge leading to further innovations and inventions. That is what engineering is all about: consistent inventiveness in the service of humankind and nature.

Synapse is a symbol of connectivity, of joining at the micro nerve levels. Aptly named, the TSEC College Magazine Synapse connects: with students, faculty, alumni on one level; with science, technology, engineering on another level; and also with human values, with the pursuit for excellence, with art and with social good. It is a like between the concepts of engineering in its truly technological aspects with the wider idea of social engineering, in the best sense of the term.

Once again, I congratulate the Synapse team of TSEC for another excellent issue of the Magazine.

Dr. G.T. THAMPI
(PRINCIPAL)

Disruptions written all over, possibly last phase of massive cycle of changes driven by new knowledge gushing out of enterprises in the business of making wealth for its shareholders. Huge spectacle on display on the technology innovations both in product and processes. Exigencies of Indian Educational enterprises are driving institutes in to a learning curve to facilitate creation and maintenance supply chain of human capital. Fixating the new found dynamism shall be a huge task for any learning organization of any standing.

Altruism assumes massive proportions and witnessing realizations of dreams, daring to go to mars and space tourisms, autonomous car, and extreme longevity. We at TSEC remained focused to capture the changes taking in technology market place, gearing up to be the first mover in creating an ecosystem to build efficiencies in teaching learning process.

We as a country aspire to be labeled no more as an outsourcing country, instead positioning as innovation partners/ knowledge partners and emerging as total solution providers. Independent of the headwinds, in financial markets at perceptible level, great learning is happening in Indian professional colleges and bothering about creating new knowledge.

Some amazingly talented students are graduating from this institute and our collective consciousness shall have lasting memory of their presence and contribution. Starts up culture are increasingly creating opportunities for building endemically Indian business. Product and process innovations are more esoteric and innovations can be agnostic and shall be subject to Monte Carlo Localizations.

Block Chain Technologies and Artificial Intelligence shall drastically change the way business get carry out in coming time. A new world is waiting for you to flourish and thrive and be productive. I take this opportunity to congratulate the Magazine Secretary and her team for doing a wonderful job in collating the contents for publications.

TSEC
THADOMAL SHAHANI
ENGINEERING COLLEGE

DR. CHUMKI BISWAS
(EDITOR-IN-CHIEF)

It is my sincere pleasure to welcome you once again to Synapse 2018, the annual magazine that encapsulates exemplary writing, enchanting art work and laudable achievements of the students of TSEC. My hearty gratitude to the editorial team for their relentless endeavor, spanning a year, towards collecting, selecting and illustrating contributions from students, staff and alumni in an effort to capture the essential spirit of TSEC that marks us not only as a quality academic institution but also as one that believes in propelling our students towards a futuristic India. I wish to extend my sincere thanks to all the contributors who submitted their work for consideration. They can be justifiably proud of having their work selected for publication. Also, it is my sincere request to all our readers to come forward with a robust profusion of contributions for our next year's publication echoing the parable that reminds us not to "hide your light under a bushel". And now, I invite you all to go through our magazine and hope you have a great time appreciating the talent and creativity of our future engineers.

D. Pranita Rao
(Magazine Secretary)

Written in these pages are the stories that can't be explained, filled with staccato bursts of incommensurate joy and ephemeral pangs of exasperation. My tenure as the Magazine Secretary for Synapse'18, wasn't just about compiling this brilliantly conceptualised piece of literary and artistic excellence, but also about the myriad of interactions I've had with different people throughout the tenure. As daunting as it was, to lead such a variegated and vibrant institute on its literary front, it is an experience I've thoroughly enjoyed. Everything from Reading Day, to Awards Night, to the Annual Photo shoot, metamorphosed me into a better, stronger and more resourceful person. This tenure has taught me to tackle exigent situations and insurmountable odds with resilience, diligence and the support of a terrific team. On this note, I thank my entire team (Core + Volunteers) for their unwavering belief in me and OUR Magazine. Their passion and dedication was truly commendable and has resulted in the manifestation of my dream in the form of this magazine. I thank Dr Chumki Biswas Ma'am, our Editor-in-Chief from the bottom of my heart; her faith in me and my writing skills was the reason why I applied and made an attempt to excel as the Magazine Secretary. She has been a beacon of light in our pursuit of excellence and Synapse'18 wouldn't have been possible without her encouragement, guidance and support. I thank Dr M Mani Roja Ma'am, the Dean of Student Affairs for her elegance and altruism. My heartfelt gratitude goes out to Dr G T Thampi Sir, our Principal, for his magnanimity and eternal graciousness. I'd like to thank my parents, for their indomitable support in accomplishment of this endeavour. I would also like to thank the Department of Chemical Engineering for being accommodating and supportive of me. I hope this edition of Synapse, lives upto the expectations of everyone in TSEC and Team Synapse'18 has made you all proud.

Ruchika Mulchandani
(Joint Magazine Secretary)

As cliché as it may sound, Synapse has always strived to put across one message: 'For the people; by the people; of the people, of TSEC". Its true motive is to preserve and exhibit the talent pool of the masses of this institution. Each individual belonging to TSEC has been a valuable contributor to this institution's current stature and that's the essence Synapse is meant to capture. During the course of this tenure, the magnitude of talent comprising in this two-building institution was an implausible revelation. Our key goal to do justice to the same via Synapse was a process involving skilled minds of a tiny but strong team armed with varied perspectives that explored multiple possibilities of perceiving the art being showcased and helped narrow down to our choicest picks. I've been fortunate to have worked with such amazing minds, owing to which this tenure has been an experience paralleled with learning. Our envisioned Synapse 2018, wouldn't have been a reality if it wasn't for the constant support and guidance of our Principal Dr. G.T Thampi, the Dean of Student Affairs Dr. Mani Roja and our dearest mentor and Editor-in-Chief Dr. Chumki Biswas, they can't be thanked enough. Every journey imparts us with wisdom and so did this entrusted responsibility: 'Obstacles are like punctuations and the path is like a sentence, without the prior the latter makes no sense.'

Srikala Kondamudi (Editor)

The whole experience was just like attending the meetings of an enthusiastic book club. Ideas, ideas everywhere. It felt very new to be surrounded by the people who have similar interests but different perspectives. Also, I've been taught that good decisions come from experience and experience comes from bad decisions.

Akshita Gulati (Editor)

Working with the Synapse team was a better learning experience than I could've hoped for. The team is remarkable. As a freshman, Synapse was the only team that allowed me to have a tangible output at the end of my term and I'm truly grateful to have been a part of it.

Neha Makhija (Editor)

Any college magazine hopes to reflect the ethos of the institution: its people, happenings, festivities and achievements. The process of attempting to capture this quintessence of college life in Synapse was fascinating. Our college is storehouse of inventiveness, creativity and enthusiasm. I am grateful to have contributed some effort to preserve this unbounded spirit within the pages of this magazine.

Nikhil Kotian (Editor)

Putting together a college magazine can be a gargantuan task but I have been fortuitous enough to have a team that has made it look like a breeze. Being part of the Magazine Team as an Editor has allowed me to explore new horizons, be it while editing any submission or while trying to write a piece of my own for the Magazine. I hope that as you flip through the pages, you find the staggering achievements and the people behind them just as riveting as they truly are.

Nikhil Palande (Editor)

When we strive to become better than we are, everything around us becomes better too. It is said that often the journey is more beautiful than the destination. The tenure of Synapse'18 was indeed a beautiful journey for me which helped me discover a better version of myself.

Harsh Sharma (Graphic Designer)

The journey of reflecting upon an eventful year for an institute, other than boring annual company reports, can only be experienced by being a part of the college magazine team. Synapse has been a fun and enriching experience for me and now that I think about it, I feel a very unusual sensation – if it's not indigestion, I think it must be contentment.

Raj Bohra (Graphic Designer)

Experiencing the process of putting together a college magazine was fun and also involved a lot of challenges. Synapse helped me showcase my skills and also improve them further. I am grateful for the opportunity to be a part of Synapse 2018.

Khushboo Galrani (Graphic Designer)

It started with random people sitting together but now it's a team. Synapse has been a journey which taught me a lot of things and as it's said it is all about the climb. This climb was indeed one I would remember forever.

Karan Nawani (Photographer)

Synapse 18 was the most wonderful experience which a student like me can ever get. It means a great deal to me to have worked and contributed for The TSEC Magazine.

Tanay Ganeriwal (Photographer)

These 6 months with the Synapse Team were really special. Why? Because Synapse has given me a platform to take my photography skills and use them in a very productive way.
Working with this team has taught me a lot. I learned how important Team Work is in life. Cheers!

HONORABLE MENTIONS

STUDENTS

Rishabh Laheja
(Graphic Illustrator)

Sohail Khan
(Graphic Designer)

Harsh Navani
(Graphic Designer)

Ashay Changwani
(Graphic Designer)

Priyanka Fernandes
(Graphic Designer)

Shardul Prabhu
(Photography)

Aayush Makharia
(Photography)

Apurv Vaidya
(Photography)

Pratik Choudhari
(Photography)

Dr. M. Mani Roja

Prof. Mukesh Israni

TEACHERS

PREFACE

We, Team Synapse-TSEC are thrilled to present this year's reflection of TSEC to you; and in our rendition of the annual magazine of TSEC, SYNAPSE'18, we hope to electrify you with the happenings of our college.

The magazine is an amalgamation of scintillating articles and poems, breathtaking artwork and photographs, and jaw dropping hand drawn graphic illustrations. Through our choicest picks, ranging from articles on Herd Mentality to poems about embracing our faults; from Refugee Crisis to a pressing reiteration of the unparalleled power that women possess, we have strived to allow your imagination to run wild and to offer you a Canvas for your Thoughts. We were delighted to have received such a wide variety of poetic and creative entries, which stand witness to the fact that boundaries between art and science are quickly vanishing. We are proud to present the Research section to you, which is our humble attempt at providing a platform to the budding Newtons and Einsteins to showcase their talent and efforts.

With countless contributions of the highest calibre, the team had a tall order while sifting, shortlisting, editing, designing and finally compiling the best works and they did so with aplomb. Each and every member of the team, be it core or extended put in the hard yards and significant time for the magazine to attain fruition.

This magazine would not have been possible without the unwavering support and guidance of our Principal Dr. G.T. Thampi, Dr. Mani Roja (Dean, Students' Affairs) and our Editor-in-Chief Dr. Chumki Biswas. Their mentoring and inspiring words enabled our ambition to create a magazine that represents the inner creativity and imagination of the TSEC populace.

We hope that as you flip through the pages of this magazine, it strikes a chord with you as you enjoy experiencing the ethos of the college, and exploring the culture and way of life that makes TSEC a treasured place for all of us.

-Signing off,
Team Synapse-TSEC (2017-18).

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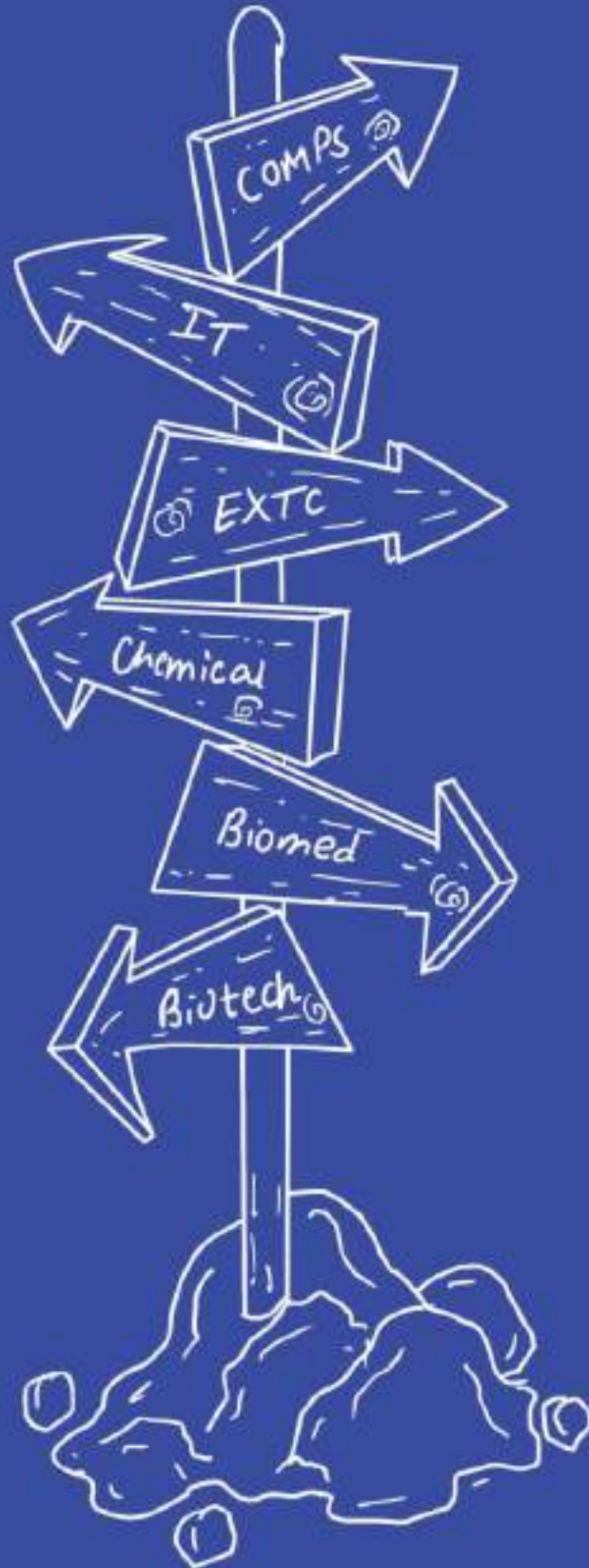
BIOMEDICAL

The Department of Biomedical Engineering was established in 1983 to provide an undergraduate program in Biomedical Engineering. The department works with the motto of transcending to a high quality research driven curriculum with excellence in graduation and to perpetuate supply chain of human capital to support the business growth of Bio Medical equipment manufacturers to make these equipment pervasive and ubiquitous in the world. Dr. Mita Bhowmick was invited to talk on "Research Methodology and Technical writing for Short Term Training Program (STTP) course on "Contemporary Trends and Practices in Inter-personal Communication and Business Arbitration" held at Department of Humanities, Thadomal Shahani Engineering College, 23rd April-5th May, 2018. She is also a Member of the Committee assigned by the University of Mumbai for scrutinizing the Minor Research proposals and recommend research grant for the year 2017-2018. She participated in the 2nd Wadhwani Research Center for Bioengineering (WRCB) Day which was based on "From Lab to Bedside: Challenges and Opportunities in Converting Proof of Concept to Product" on September

8, 2017 at IIT Bombay. She is also a member of Project Evaluation Committee (PEC) constituted by Technology Development Board, a statutory body under DST, Government of India, May 2017. Prof. Bharati Ingle was appoint ed as the Dean of AICTE at TSEC. She is also the Counsellor for the Management Society-TSEC. She also attended AICTE-ISTE approved Induction/Refresher Programme "Internet of Things and its Applications" dated 3rd to 8th July 2017. Prof. Dhananjay Theckedath is a member of Exam Grievance Committee. Prof. Gauri Shukla has worked for and is also member of theAdmission Committee, Alumni Association, E-Cell and the faculty body of Triffles. She attended AICTE-ISTE approved Induction/Refresher Programme "Internet of Things and its Applications" dated 3rd to 8th July 2018.Prof. Rithesh Kini attended AICTE-ISTE Approved One Week Short Term Training Program on Sensor Technology and Innovations from 4th to 9th December, 2017 organised by the Department of Electronics Engineering.

K. J. Somaiya College of Engineering Vidyavihar, Mumbai. He attended AICTE-ISTE approved one - week sttp on Programming with PYTHON and R, from 2nd to 8th January, 2018, organized by the Department of Information Technology, Thadomal Shahani Engineering College. Prof. Anuradha Mistry attended AICTE-ISTE approved One Week Short Term Training Program On Sensor Technology and Innovations from December 4 to 9, 2017 organised by the Department of Electronics Engineering, K. J. Somaiya College of Engineering Vidyavihar, Mumbai. Prof.Rithesh Kini and Prof. Tanvir Daphedar have been appointed as Deans of Infrastructure of TSEC. Ms. Bhawna Wadhwani (Technical Assistant) and Ms. Savita Bokade (Laboratory Assistant) went to WRIC at Mumbai University Kalina, Mumbai for attending 3 days training programme on maintenance of Measuring Instruments and Medical Instruments. The department arranged visit to Nanavati hospital for BE Biomedical students to Radiology and Imaging Centre for understanding the principle of operation, system description and applications of various Medical Imaging Modalities like CT, MRI, Ultrasound, Digital Radiography machines on October 26, 2017. The department also organised multiple seminars by noteworthy alumni and industrialists as follows: Mr. Sagar Apte, Philips Healthcare delivered a lecture on Challenges in Biomedical Engineering.

BIOTECHNOLOGY

The Department of Biotechnology Engineering understands that Biotechnology Engineering is an amalgam of pure biological sciences and chemical engineering principles applied to improve the quality of human life. Biotechnology Engineering involves scientific manipulation of biological systems at genetic and molecular level to manufacture useful products and to provide services under controlled conditions. The department focuses on various areas of study like Applied Microbiology, Biochemical Engineering, Bioprocess and Enzyme Technology, Unit operations, Plant Tissue Culture, Immunotechnology, Genetic Engineering , Bio informatics. Fermentation Technology, Downstream Processing, Bioseperation techniques, Food Biotechnology, Environmental Biotechnology, Protein Engineering. Review Paper by Mr. Madhav Upadhyay, Mr. Anshul Valecha, Ms. Urmi Patankar, Ms.Simran Kushwaha and Ms. Shraddha Kadam on the topic – " Edible Vaccine – A Future of Facile Immunization' in the March 2018 edition of IJCRT Journal. Ms. Simran Kushwaha published a

review paper on HIV in IJSART Journal in the January 2018 Volume 4, Issue 1. Ms. Suhasini Lulla has presented a paper at eBBT conference at IIT Indore in January 2018. Mr. Himanshu Chuglani participated at 'Voice for BT' organized by Novozymes South East Asia held at D.Y. Patil Medical College on October 13, 2017. Mr. Madhav Upadhyay completed an online course in Forensic Science. Ms. Athira Madhusoodhanan,Ms. Ruchita Rane and Ms.Apurva Patil attended a student conference at IISc, Banglore Ms. Athira Madhusoodhanan,Ms. Ruchita Rane and Ms.Apurva Patil attended a workshop organised by BioEra. In the E-Cell Project Expo, the following students bagged laurels for the department. Ms. Reeti Prajapati, Ms. Suhasini Lulla and Ms. Simran Kushwaha presented a paper on DNA Barcoding of of Fish and secured the 1st Prize. Mr. Chetak Dalvi, Ms. Urmi Patankar, Mr. Roshan Iyer and Ms. Apurva Shinkar presented paper on disruption of Biofilm and secured the 2nd Prize. Both the groups were from the Final Year. Ms. Suhasini Lulla (BE) completed

an internship at Biocon, Banglore. MS. Shraddha Kadam (BE) also pursued internships at Mondelez International (Cadbury), Thane and Gokul Milk Dairy, Kolhapur. Internship by Ms. Devanshi Mistry (TE) at SRL Diagnostics, Mumbai. Ms.Ruchira Patil and Ms. Yavnica Poddar (SE) successfully completed internships at Mahananda Diary, Mumbai. The department organised industrial visits to Serum Institute of India and MITCON, Pune. The students with their zeal and enthusiasm along with constant support from the department and under the patronage of the CHEMTECH Foundation- Jasubhai Media Pvt. Ltd. spearheaded the initiation of the Student Outreach Program – Biotechnology. Ms Devanshi Mistry served as the Student Convener for the same.

CHEMICAL

The Department of Chemical Engineering, TSEC was established in 1983. It has a long and distinguished history of successfully educating leaders for a wide variety of industries. It strives to impart high quality technical education with a delicately struck balance of fundamental knowledge, practical exposure and novel concepts.

The department has organized multiple guest lectures throughout the year. A two-day workshop on 'Process Engineering' was organized for the Final Year students on 7th and 8th October, 2017 by Neon Infotech. Mr Sudeep Paralkar, Hydrocarbon Engineering Services, spoke on the 'applications of Process Engineering software' on January 25, 2018. Mr. Prathmesh Pande, SMEC delivered a lecture on 'Industrial Instrumentation' on February 22, 2018. Mr. Samir Shah, Director, Ciron Drugs and Pharmaceuticals conducted a seminar on 'Chemical Engineering from the perspective of the industry and what's needed from Chemical Engineers today. Mr. Akhil Subramanian (passed out in 2017) secured AIR 66 and is pursuing his master's in Chemical Engineering at IIT Bombay. Mr.

Akash Bhat (passed out in 2017) received the prestigious Ravindar K. and Kavita Kinra research fellowship covering his entire tuition fees and expenses for MS in Environmental Engineering at the Univeristy of Illinois, Urbana. He is currently working on the Electrochemical Desalination of Water and Microbial Electrochemical Cells. Mr. Pranav Majgaonkar (passed out in 2017) was admitted in the Chemical Engineering Master's program at Ulm University, Germany. He has received the esteemed research assistantship wherein he is modelling the air flow over the radiator of the world's first hydrogen powered hybrid airplane.

Mr. Rahul Gupta and Mr. Namit Gadge (TE) won 2nd prize in Poster Presentation at Vortex the Chemfest, ICT, Matunga. Ms. Akhila Nair and Ms Prachee Prabhutendolkar (BE) won 2nd prize in Poster Presentation at the CHEMTECH Student Outreach Program, Gujarat -2018. Mr. Divyam Mandaliya and Mr. Shreyas Joshi (BE) won the zonal level of Chem-O-Philia (Chemical Engineering Quiz), Azeotrpy, IIT Bombay. Many other students from the SE, TE and BE participated in various other Chemical

Engineering based quizzes and competitions. In TSEC's annual Project Expo organized by the E-Cell, the following students won and added feathers to the department's cap. Mr. Saransh Jain, Mr. Vatshal Bhanushali and Mr. Atharv Deshpande (BE) won the 1st Prize, while Mr. Nitesh Ratnani, Mr. Kunal Jain and Mr. Shreyash Gujar (TE) were the Runners Up.

Mr. Divyam Mandalia and Mr. Shreyas Joshi (BE) completed their summer internship at CSIR- National Chemical Laboratories (NCL), Pune. Mr. Pratik Khare (BE) successfully completed an internship at L & T Hydrocarbon Engineering Ltd., Mumbai. Mr. Abizer Sodawalla (BE) pursued an internship in Process Engineering at Aker Solutions Pvt. Ltd., Mumbai. Ms. Preksha Vichare, Ms. Kajol Malekar and Ms. Shraddha Suresh (BE) underwent summer training at Bhabha Atomic Research Centre (BARC), Mumbai. Ms. D. Pranita Rao (TE) successfully completed internships at Godrej Industries Pvt. Ltd., Mumbai and Bharat Petroleum Corporation Ltd. (BPCL), Mumbai. She is also a recipient of the most coveted Indian Academies of Sciences- Summer Research Fellowship 2018. Mr. Abhishek Pandey (TE) completed his internship at Hindustan Petroleum Corporation Ltd. (HPCL), Mumbai. Mr. Venkata Subramanian (TE) pursued a winter internship at BASF, Mumbai. Mr. Vatshal Bhanushali (BE), Mr. Vivek Patel and Ms. D. Pranita Rao (TE) were instrumental in making the maiden edition of CHEMTECH Student Outreach Program Gujarat-2018 a grand success as members of the student organizing body. Mr. Vivek Patel and Ms. D. Pranita Rao (TE) also played a pivotal role in the organization of the 1st ever CHEMTECH Student Outreach Program Nuclear Edition- 2018.

COMPUTERS

The Computer Engineering Department of TSEC was established in the year 1984. Over the years it has successfully maintained its standards with good placement records and also keeping the faculties and students updated with latest technologies. The department has always been supportive to students who are keen to explore the technical field not only through the subjects taught but also beyond the syllabus. They are encouraged to participate in various project exhibitions, coding competitions and technical paper presentations to enhance their skills. The batch of 2016-17 graduated with flying colours. Out of 161 students, 93 students secured distinction, 46 students secured first class. Around 145 students appeared for placements and received 100 placement offers. Dr. Tanuja Sarode was appointed as a member of Academic Council for Science and Technology. Dr. Archana Patankar recieved the Best Faculty Award in CSI Technext 2018 held at IIT Bombay. An AICTE-ISTE approved One Week STTP on Internet of Things and Its Applications was organised for the faculty members. A career seminar was conducted by 'Hiranandani Institute of Learning. A guest talk was organised on 'Mobile Application Development' by Prof. Carlton McDonald, University of Derby, UK. A seminar on 'Cyber Security' was delivered by Mr. Sachin Dedhia, Founder of Skynet Secure Solutions. A state level compettion named 'SEED IT Idol' was conducted by SEED Infotech Ltd. A workshop on 'What After College?' was conducted by Mr. Manmeet Singh Akali(Co-Founder, Klarity) and Mr. Geetansh Merani (CTO, Brand Touch) Pratik Jugat (passed out in 2017) secured 98.91 percentile in CAT 2017. Shivani Hanji (TE) secured 12th rank in and Yash Gondkar (B.E) won SEED Maha-IT Idol 2018 (State Level Competition). Neeral Mulchndani, Ruchika Mulchandani, Kaustubh Khavnekar, Dhanesh Mangtani, Pranav Manglani, Kamal Keswani were the finalists of Smart India Hackathon 2018, Bangaluru (National Level Competition). Rahul Joshi, Saqlin Kadiri, Karan Manghani were first runners up of "Unscript", Hackathon held in Fr.CRCE, Vashi.

The TSEC E-Cell organizes an inter-departmental Project Expo every year. The following students won laurels in the same:

Winners: Rohit Singh, Zainab Delawala, Jitesh Kale

(Guide: Prof. Seema Kolkur)

1st Runner Up: Nayana-Smriti Rao, Prachi Rahurkar, Deepa Ramrakhiyani.

(Guide: Prof. Vaishali Suryawanshi)

2nd Runner Up: Mayur Rohra, Rahul Dingria, Piyush Budhrani

(Guide: Prof. Vaishali Suryawanshi)

ELECTRONICS AND COMMUNICATION

The Department of Electronics and Telecommunication formerly known as the Department of Electronics Engineering (till 2001) was established with the view to evolve towards excellence and adapt itself to the rapid advancements in specialized communication related fields. The department aims to provide a program of high quality to develop outstandingmanagers and technocrats who will make valuable contribution to the global business and society to suit their ever changing needs by fostering technology worldwide. Dr. Ashwini Kunte has chaired a session in "International Conference" organized by PVPPOE on October 26, 2017. Dr Ashwini Kunte and Dr. Mani Roja have been appointed as members of Staff Co ordination Committee, TSEC. Dr. M.Mani Roja has delivered a lecture on "Modern Communication Techniques" in Atharva College of Engineering on September 20, 2017. Prof. Anuradha Rao attended a two days workshop on Image Processing at SPIT, Mumbai on 16th & 17th of March 2018. Prof. K.Y. Rajput attended orientation program for the subject Optical Communication. Prof. Medhda Somalwar attended the orientation program on

EDC-I. She has served as BOS for the subject TV and Video Engineering. Prof. Anushree Gupta has attended Orientation programs on EDC-I and EDC-II. She has been appointed as a member of IIPC of TSEC. Prof. Vijayalakshmi organized an orientation program for the subject CTL as a member of BOS. Prof. Uttara Bhatt attended orientation program on signals and systems. Dr. Mani Roja and Prof Anushree Gupta arranged an Industrial visit to Copper Track Industries, Nasik on April 10, 2018.

B. Thakur and A. Kunte, "Compact dual-band patch antenna using triangular complimentary split ring resonators for WiMax/WLAN", International Conference on Communication information and Computing Technology (ICCICT) 2018, Mumbai, India, 2018. B. Thakurand A. Kunte, "Compact Dual Band Patch Antenna using Meandered Complementary Split Ring Resonators" 2018 3rd International Conference for Convergence in Technology, Mumbai, India, 2018. B. Thakur and A. Kunte, "A Survey of Antenna Miniaturization Techniques Using metamaterials", IEEE (Bombay Section) Sponsored "4th International Conference on Innovation and Research in Technology and Engineering (ICIRTE) 2017". Mamta Kurvey, Ashwini Kunte, "Harvesting RF Energy- A Review", in Asian Journal of Convergence in Technology, Volume III, Issue III, ISSN No.:2350-1146. Mamta Kurvey, Ashwini Kunte, "Design and Optimization of Stepped Rectangular Antenna for RF Energy Harvesting", 2018 International Conference on Communication, Information & Computing Technology (ICCICT), 2nd and 3rd February, 2018, Mumbai, India, . Mamta Kurvey, Ashwini Kunte, "RF Energy Harvesting System", International Conference On Smart City And Emerging Technologies, (ICSCET 2018) 2018, 5th Jan , Mumbai, India. Mani Roja, John Britto, "Gaussian Noise Analysis in ECC Encrypted Images", IEEE International Conference on Intelligent Sustainable Systems, 2017. Archana, Vrinda, Priyanka and Mani Roja, "Digital dermatology", ICICCS 2017. Sejal Mane, Rohan Nalvade, Akash Khemani and Mani Roja, "Five Fingered Prosthetic Arm", IEEE EECCMC, on 28th and 29th January 2018. Sanjay, Saurab, Vrunal and Mani Roja, "Digital Authenticator", IEEE-ICPCSI, 21st and 22nd September 2017. Vijayalakshmi Badre, Pankaj Agarwal, Sameer Chavan, Pranav Kabra, "Smart Fire Fighting Robot", IJSRCSEIT | Volume 2, Issue 3, pp: 96-99. Mani Roja and John Britto, "Audio watermarking with Encryption",

IJERT, Vol: 6, Issue 9, September 2017, PP: 344-347. Shristi Bhatia and A.S. Kunte, "Adaptive Power control Scheme to mitigate cross tier Interference in two tier Femtocell Network", December 2017. Siddharth, Shubham, Mangesh, Kunal and Amit Hatekar, "Object Detection and Tracking Using Image Processing", IJERA,vol. 8, Issue 2, (Part -1) February 2018, pp.39-41. Prof. K.Y Rajput and Prof. Amit Hatekar published many articles on operational Amplifiers and Micro controllers in Exponent Group of Journals. Karan Sharma from TE won Gold Medal in National level Tennis Tournament organized by COEP, Pune. Karan Kamaraj, Naik Naresh and Danish Shaikh from BE won Second Prize for their project "Transliterating Gloves" in national level project competitions organized by RGIT and SFIT. Divyashree Shinde (passed out in 2017) was appointed as a scientist in ISRO by securing AIR 3 in GATE 2017. Around 20 other students completed their summer and winter internships at prestigious companies like ONGC, Air India and BSNL.

INFORMATION TECHNOLOGY

The Department of Information Technology of TSEC, established in year 1998, has grown vastly over the past few years. With new technologies coming through, the department is preparing students for new challenges with the help of efficient faculty. Our commitment to provide all students with quality learning experiences will help us continue to see improvement and making it amongst one of the topmost in Mumbai University. All the staff members in the department are now postgraduates with some pursuing Ph.D. in various domains. The Department is very proud to announce that Dr. G.T.Thampi, Principal has obtained three patents whereas Dr. Madhuri Rao, HoD of IT Department has bagged one patent to her credit. Three research students from IT Department, TSEC, research centre have successfully completed their Doctorate under the guidance of Dr. G.T.Thampi in this academic year. Dr. Madhuri Rao, Prof. Shanti Therese, Prof. Nikhilesh Joshi, Prof. Bhushan Jadhav and Dr.Shachi Natu have published papers in prominent International Journals like IEEE, Springer and in international conferences during this academic year. IT Department has conducted

ISTE approved short term training programmes on "Programming with Python & R" convened by Dr. Madhuri Rao and coordinated by Prof. Chetan Agarwal & Prof. Sanober Sheikh in January 2018. The Department also conducted STTP jointly with Computer Department on "Internet of Things and its Applications" in July 2017.

In January 2018, as a member of Syllabus Revision Committee, Prof. Archana Kale and Prof.Bhushan Jadhav delivered lectures in the orientation program for the subjects Automata Theory and Python respectively. Prof. Arun Kulkarni and Prof. Bhushan Jadhav have delivered lectures on subjects such as Neural Network, Cloud Computing in various Technical Institutions in Mumbai and Nanded, Maharashtra. Prof. Bhushan Jadhav has also conducted many workshops on Python Programming, Cloud Computing and Big Data Analytics at different colleges across Mumbai. This year Prof Himani Deshpande, Prof Darshan Ingle, Prof Vijal Jain and Prof Monica Tolani have joined as Asst. Professors in IT Department.The Department arranged a lecture on the topic, 'Search Engine Optimization', in April 2018. This lecture was conducted by guests from industry. More

than 120 TE IT students attended and got benefitted. The department has always encouraged students in pursuing technical and cultural activities. Krissha Jirawla, Ashna Shetty, Ritu Arya, Nehal Malap, Mohit Sharma, Raunak Bhagwani from TE participated in the prestigious SMART INDIA Hackathon 2018, NOIDA and out of numerous students from all over the country, these students made their presence noticeable.

Many other students from TE participated in different Hackathons. TSEC E-Cell conducts Project Expo for the last two years. The event is open to all the departments of the college. This year Ritu Advani (BE), Manoj Lalwani, Yashil Kalyani, Nishant Kothari (TE)and Yogesh Malpani, Pranav, Danika Rao, Abhishek Nair (BE) won first, second and third prize respectively.

PhD PROGRAMME OF TSEC

In affiliation with the University of Mumbai, the Ph. D program at Thadomal Shahani Engineering College is being conducted under the supervision of the Ph. D coordinators Dr. Archana . B. Patankar and Dr. Pallavi Halarnkar. From TSEC, 35 Ph. D scholars are registered under the University of Mumbai, amongst which, 5 students have been awarded the Ph. D degree.

5 professors mentioned below are approved Ph. D guides from TSEC

- Dr. G. T. Thampi
- Dr. Ashwini Kunte
- Dr. Tanuja K.Sarode
- Dr. Madhuri Rao
- Dr. Archana B. Patankar

In addition, Ph. D students at TSEC are also guided by faculty from other institutes, they include

- Dr. J.W.Bakal
- Dr. S. K. Shinde
- Dr. D. R. Kalbande
- Dr. R. G. Karandikar
- Dr. Y. S. Rao

The research papers of the Ph. D students at TSEC hold valuable recognition in the following journals and at various conferences as stated below

CONFERENCE / JOURNAL	NUMBER OF PAPERS
Tata Magrow Hill Series	1
Indian Patent Journal	1
International Conference	26
International Journal	14
National Conference	2
UGC Approved Journal	1
MCI Approved Journal	1
Others	4

APPLIED CHEMISTRY DEPARTMENT

APPLIED MATHEMATICS DEPARTMENT

WORKSHOP FACULTY

ACCOUNTS AND ADMINISTRATION

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EXAMINATION DEPARTMENT

LIBRARY STAFF

HUMANITIES DEPARTMENT

MECHANICS DEPARTMENT

ALUMNI ASSOCIATION

TSBC Alumni Association was formed in 1994 and since then it has maintained a constant interaction with the Alumni. On 24th March 2018 Alumni from different batches gathered to relive old memories and take a walk down the corridors of nostalgia. The meet was attended by over 120 alumni from all the branches and all the teachers from different departments. The meet was organized by the teaching members of the Alumni Committee Prof. Tasneem Mirza, Prof. Mudita Dixit, Prof. Uttara Bhatt, Prof. Gauri Shukla and Prof. Kumkum Saxena with the support of our student volunteers from different branches backed by our Principal Dr. G. T. Thampi. The event was compered by one of the students Ms. Anushree Gupta. The evening started with The Heads of Departments briefing on the department progress and highlighting the department activities followed by enthralling singing performances by the students Mohit Budhwani, Harsh Nahar, Salman Khan Deshmukh, Shubham Salvi and Aditi Dixit. Fun interaction and nostalgic games were hosted by Prof. Mudita Dixit and Prof. Gauri Shukla.

The evening took on an unforgettable atmosphere as a few alumni shared their experiences as well as interesting moments of campus life with the audience. The event ended on a positive note with a department wise photo shoot and hope of further interaction with the Alumni in the future.

To facilitate greater interaction with alumni a TSBC Alumni App was developed in early 2017. It acts as a connector to various alumni providing mentorship, expert blogs, networking opportunities and much more. This application can also be used to support the institution.

TSEC CODECELL

TSEC CodeCell is a student body with the simple aim of nurturing a keen interest in programming within the students of TSEC and enhancing their coding skills. It is a community of coders who wish to learn industry-relevant skills beyond academics. TSEC CodeCell works to this aim with three basic types of activities: competitions, workshops, and weekly challenges.

Novice to veteran coders all have something to learn by regularly participating in these initiatives. Weekly challenges were introduced to inculcate a regular coding habit. Problems of varying difficulty were put up at www.tseccode-cell.github.io/weeklychallenges and students were encouraged to discuss and attain a solution for the same. The workshops are live coding sessions held in college, designed for students to gain confidence by implementing important programming algorithms and concepts.

Competitions were conducted on a monthly basis over the popular and competitive programming website, CodeChef to test the students' dexterity. Students from all years compete online with a live rank list to solve the given problems in a race against time. A nascent organization, TSEC CodeCell promises to grow and keep nurturing passionate coders in TSEC by presenting valuable learning opportunities to all the students.

COMPUTER SOCIETY OF INDIA – TSEC

The Computer Society of India's student branch at Thadomal Shahani Engineering College (CSI-TSEC) completed another successful tenure during the academic year 2017-2018. Its year commenced with the formation of an exuberant and resolute committee in July 2017 and concluded with its flagship event RUBIX'18 in February 2018. CSI-TSEC initiated its journey with the Membership Drive where it introduced the first year students to CSI and established its role in students' development in order to enrich their technical skills. The students were introduced to the TSEC app - A one-stop source to know everything about TSEC and were given fun and useful goodies. CSI-TSEC 2017-18 redefined the endeavours of technology with its first fest in August'17 'TECHNEXT'-where technology goes beyond periphery. This fest focused on developing the basis of technical knowledge of the budding engineers by workshops on Power Bank making and Robotics Level-1. Mr. Adhitya Iyer, who documented some of his interesting findings in his book, The Great Indian Obsession, glistened the fest with his enthusiastic talk show while Mr. Rizwan Shaikh introduced the audience to the world of Ethical Hacking and guided them about cyber security. The response was absolutely fantastic and all the registration records were broken. After a successful run in the year 2017, CSI-TSEC came up with its annual fest RUBIX in February 2018. It redefined certain technical hurdles in an effortless way with the workshops and seminars where distinctive topics of Augmented Reality and Artificial Intelligence were put forth in order to expand the reach of current technical advancements to the students. Students were taught to develop their own AR app, and were acquainted with the extraordinary machine intelligence applications. After establishing the foundation of robotics in Technext'17 with Robotics level-1, Robotics Level-3, which involved Arduino coding to construct a line following bot was introduced. Thus, with great enthusiasm and profuse perseverance, CSI-TSEC gave its contribution to escalate and encourage the presentgeneration about the significance and growth of technology. "We come as a team, we conquer our goals unanimously. If we believe that the future will be excellent and bright, we can bear the hardship today and excel towards victory with no barriers restraining you from achieving it". With this motto, the tenure was completed with sheer dedication and a resolution to add its contemporary and unique zest to the extensive field of technology to celebrate the advancement of it. Consequently, CSI-TSEC was glorified with the "Best Institute of the Year-Introduction of Innovative New Programmes and Courses" award for exploring and working with a true essence to achieve its objective. While the world sits back unwinding the complex web of technology, CSI-TSEC has worked towards challenging and resolving it in an exciting and unique method.

TSEC - ECELL

TSEC Entrepreneurship Cell has the sole mission of providing its students with a platform where they can think, innovate and create. TSEC E-Cell kicked off the year with its first event Embark'17. It is a youth festival which aimed at pivoting the mindset of the students towards entrepreneurship. Embark started with TSEC Talks wherein Mr Shrirang Tambe, Founder & CEO, Origa Leasing and Mr Sumeet Jain, Co-Founder, StupidSid shared their startup journey experience. Startup Pitching competition, Entrepreneurial Tussle, Stock Market Workshop led by Mr Mihir Malani from CheckerBoard Solutions and many other events were all sincere efforts in the same direction.

Crack The Cocoon, a career-centric event saw two sessions. First one had the authorities from the US Embassy enlighten students about all the details regarding overseas education in the United States of America. In the second session, seniors who got placed in the Day 0 companies shared tips and tricks on cracking campus placement interviews successfully. This initiated a state of excitement and competitive spirit in most of the third-year engineering students.

TSEC E-Cell made the final stop with its flagship event, Project Expo'18, which received an overwhelming response from all the departments belonging to all four years of study. Projects exhibited in this competition were built around emerging technologies which left the judges and students completely bewildered. Project Expo'18 was successful in catalysing the thought process invoked during the previous events. TSEC E-Cell lived upto its motto of channelling undying energy towards accomplishing the ultimate mission of setting up an entrepreneur-friendly environment in TSEC.

IE(I)

The Institution of Engineers (India)-TSEC (IE(I)-TSEC) strives to guide, educate and motivate the young and ambitious engineers in their respective fields. Its idealistic vision and desire to excel is epitomized by its motto: Innovate, Experiment, Implement. Kick – starting the new academic year, IE(I) – TSEC organized its annual inauguration ceremony amongst great zest and zeal. The theme of the year was 'GREEN TECHNOLOGY AND SUSTAINABLE ENGINEERING'.

The chief guest Mr. Meenakshi Sundaram, General Manager, Research and Development, Head of Hindustan Composites Ltd, shared his knowledge and motivated the recipients to carry out well informed measures towards a more sustainable future. The second edition of the newsletter Technoflash was launched during the inauguration ceremony too.

The academic year of 2017-2018 witnessed the launch of IE(I) – TSEC's eponymous app which consists of past year's papers, reference books and a lot more. IE(I)-TSEC conducted one-day Industrial Visits for students to renowned companies as a part of Engineers Month. Students of the Chemical Engineering visited Mahanand Dairy process plant in Goregaon-East as well as Gini Silk and Textile Mills in Boisar, students of Biotechnology Engineering visited Serum Institute of India in Pune and Biomedical Engineering students visited Lokmanya Tilak Municipal Medical College and General Hospital, Sion, Mumbai.

This was the first time that Engineers Month observed participants from many Engineering and Diploma colleges all around Mumbai. The flagship event of the fest, the Internship Expo played host to companies like Mahanand Dairy, Tacto Infomedia, House of Coders, Lee Electronics and hospitals like Raheja, Holy Spirit, Kokilaben etc. along with research labs like SDG's Genetics Center. The committee also organized 2 workshops - HAM radio workshop which was conducted by the Mumbai Amateur Radio Institution and Augmented and Virtual Reality Workshop conducted by RoboKart. The committee fest TantrAvishkar 2k18 was carried out on the 24 th and 25 th of February 2018 encompassing a total of six events. The chief guests of the opening ceremony were Dr. Alpana Mahapatra, former HOD of D.J. Sanghvi Engineering College and Dr. D. Mandal, Head AMMD, BARC. The Third Annual Edition of Technobuzz, a technical magazine by IE(I)-TSEC was unveiled during the opening ceremony of TantrAvishkar 2k18.

Icon Lectures for students of Biotechnology Branch were conducted by Dr.Krishanu Ray and Dr.B.J. Rao from Tata Institute of Fundamental Research and for students of Chemical branch by Dr. P. R. Gogate from Institute of Chemical Technology and Mr. Saurabh Golam from BASF.

IETE

IETE-TSEC is one of the leading student chapters of the Institution of Electronics and Telecommunications
Engineers (IETE) in Mumbai.
Established in 2012, the committee, in Thadomal Shahani Engineering College, has seen a positive exponential growth through the years. This year, IETE-TSEC was honoured to host the inauguration of IETE-Mumbai division & under the guidance of Dr. Tanuja Sarode (Branch Counselor, IETE-TSEC and HOD [Computer Engineering]) and in the presence of Dr. G. T. Thampi (Principal, Thadomal Shahani Engineering College), Prof. Uttara Gogate (Secretary, IETE Mumbai), Dr. Mani Roja, Dr. Archana Patankar, Prof. Nabinita and Mr. Sachin Dedhia.

Adding another feather to the hat, IETE-TSEC was exalted to host the F.E inauguration this academic year and guide the students through the college via the app, TSECAssist. Also, for the first time, IETE-TSEC introduced a Chatbot, an interactive virtual bot, made by the Technical team to resolve any queries of the
students of TSEC.
We have always believed that classroom learning makes sense only when it is practically implemented.
The odd and even semester techfests-Elan'17 and Oscillation'18, vindicate the same idea.

IIChE

The Indian Institute of Chemical Engineers -Mumbai Regional Centre is a confluence of streams of professionals from different industrial, academic and research institutes. It works with the objective to promote advancements in Chemical Engineering and Allied Science, by drawing a code of ethics in profession by being beneficial in opening up doors of new possibilities to all its associated constituents. To realize such professional activism, the student's chapter of the Indian Institute of Chemical Engineers in TSEC aims to instill a desire for technical expertise, rational and logical thought process and astute decision making alongside forging and developing leaders undergraduate students.

IIChE-TSEC is instrumental strengthening the community at the graduate level by creating opportunities for students in the form of the technical symposium ChEMERGENCE.

The inauguration ceremony of ChEMERGENCE 2017 saw the presence of Ms. Leja Hattiangadi (Ex-Vice President-Business Development, Jacobs) and Mr. R.G. Rajan (Chairperson, IIChE-MRC) enlightening the young and aspiring chemical engineers about the way forward and urged them to obtain practical experience by engaging themselves with the industry. The theme for the year was Harnessing Exergy which paved way for technical discussions on the topic during the course of the symposium.

ChEMERGENCE 2017 kick started with IIChE's proprietary lecture series event, ChemLect that saw established executives from renowned institutions, help develop and expand students' abilities to solve new and more challenging engineering problems and to promote their skills in independent thinking and learning in preparation for careers in manufacturing and research. A huge number of innovative ideas were presented and judged in the Technical Paper and Poster presentations competitions. Salt Act tested the knowledge and accuracy of the students while performing experiments.

The designing competitions HeatX, CoolIt and Enact to React saw an overwhelming response as the participating candidates ensured that they fabricated and designed their models to perfection. The newest edition to IIChE-TSEC's Scratch Design involved designing an entire plant from scratch. The event was designed to engage the students to address society's most urgent issues.

The quiz competition, ChemQ was hosted by Mr. Anansh Prasad showcased the intellectual mastery of the graduate students in fields like reaction engineering, unit operations, biotechnology and polymer engineering.

The symposium concluded with a warm closing ceremony where the teacher faculty presented the prizes to the winners of the individual events.

7-8 OCTOBE

ISTE- TSEC

The Indian Society for Technical Education (ISTE) is the leading National Professional non-profit making society for the technical education system in our country with the motto of career development of teachers and personality development of students and overall development of our technical education system. The objective of the ISTE is to provide quality training programmes to teachers and administrators of technical institutions to update their knowledge and skills in their fields of activity and to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industry and other organisation. In the month of July, a new committee was formed with new ideas and old motivation to help the TSEC students to enhance their knowledge and abilities. 'All work and no play makes jack a dull boy' is something ISTE-TSEC believes in, hence events are conducted to encourage different ideas and opportunities. This year the committee organised two technical festivals namely CRYPTECH in the month of October, and ASCENT in the month of February. CRYPTECH'17 was an intra-college festival held on 7th October consisting of a practical hands-on workshop on 'LOW LEVEL REVERSE ENGINEERING'. It witnessed an astonishing amount of participants, adding prestige to the festival and becoming a moment of pride for the team. The positive response from CRYPTECH encouraged the committee for the intercollegiate event 'ASCENT' held on 3rd February 2018, also recieving a huge number of participants. This festival consisted of two events namely Technical Paper Presentations and Workshop on 'Smart Home System Using Arduino'. Technical Paper Presentation gives a chance to enhance the skills of presenting and being able to communicate the idea appropriately. It is a competition wherein participants present their paper in the IEEE format and are questioned on it, and the best paper wins. The event was judged by Mrs. Anushree G. and Mrs. Medha S. The 'Smart Home System Using Arduino' Workshop highlighted the recent advancements in technol-

ogy that enable smarter homes where everything from fans to lights can be operated automatically/ remotely, saving energy and human effort. The main objective of this workshop was to help the students to gain an overall knowledge of the applied technology, its functioning and implementations in real world. The workshop was conducted by Mr. Avish Porwal (an aspiring EXTC Engineer of TSEC and co-founder of 'Electronic Developers Ltd.') along with Mr. Aquib Ansari in the new building premises of TSEC campus. ISTE-TSEC meticulously manoeuvred their tenure and can boast of a great illustrious year full of excitement, thrill, friendship, passion and dedication in which ISTE strived for excellence with the complete support of the faculty co-ordinator Ms. Uttara Bhatt. This year will be regarded as a milestone for ISTE-TSEC paving for many more in the coming years. ISTE-TSEC crafted everything scholastically and with agility, thrived and pioneered with experience.

MANAGEMENT SOCIETY - TSEC

The Management Society of Thadomal Shahani Engineering College (MS-TSEC) is represented by a group of individuals who believe that change needs a difference, which begins with understanding.

The 2017-18 tenure began with a seminar hosted by Bharathon, an informative and interactive session to discuss the problems and solutions regarding Indian rural education. At its end, participants left with a deep sense of the Indian education system and its deep-seated flaws.

Carma, hosted by MS-TSEC, the premier literary festival of the college was a 2 day event, which attracted several students from various educational institutions to take part in events such as Classic Jam and Science of Deduction to name a few, which brought together the aspects of knowledge and entertainment. The Slam Poetry event saw a huge turnout of talented and expressive poets from all over Mumbai.

Their pieces were a source of great inspiration and emotions. The following week MS-TSEC organised TM-MUN, a simulation model of the United Nations. Delegates representing different countries of the world debated and deliberated on topics from the Korean peninsula tensions to the humanitarian crisis in Syria. TM-MUN proved to be an excellent base for first time participants to realise the issues and problems in the world.

NSS - TSEC

NSS or National Service Scheme is a government initiative that helps the youth contribute toward society in whatever way possible. The NSS-TSEC Committee was created to facilitate these contributions and focus the efforts through properly planned events throughout the year. The objective of NSS is "Not Me But You" and the committee tries to realize this by searching and organizing various social service oriented events and motivating students to volunteer for these events. On Independence Day, a tribute was given to the fighters who laid down their lives so that our country could breathe freely and the volunteers got to know the importance of this day and how they should stay patriotic. Awareness about the Rally for Rivers campaign was created by explaining the causes of river depletion. On September 1, volunteers did this on Linking Road by standing with placards in unison with the entire country. Around 60 volunteers asked 100 people to give missed calls on 8000980009 respectively to support the campaign. They also attended an awareness event at NSCI Dome, Worli. In the same spirit, NSS-TSEC celebrated Ganesh Chaturthi in a different way. 40-50 Volunteers joined in the cleanliness drive at Juhu Beach to clear out all the waste left behind after the festival. Garbage and waste products at Tourist spots decreases the value and importance of the national heritage spots. More than 100 Volunteers picked up all the waste on route to the fort and then discarded it properly on September 17, 2017. NSS also organized Blood Donation Drives. More than 100 volunteers worked for both the Blood Donation Drives. With Lokmanya Tilaka MG Hospital and Tata Memorial Hospital DTM we collected 121 and 109 blood units to facilitate availability of blood for the cancer patients. We also got 170 people checked for Thalassemia out of which 4 were detected as Thalassemia minors by Transasia Bio-Medicals Ltd. With the aim of reducing plastic bags, NSS took the initiative to reuse old newspaper and make paper bags out of it which could be used to carry small items. Also, a couple thousand paper bags in our local adopted area to vegetable vendors and grocery/medical shops were donated. Residential Camp is an event where we visit our adopted village and try to help out as much as possible through various events. The dam at Anandwadi was broken during the heavy rains of 26th July, 2005. 45 volunteers with the help of the villagers covered up the damage. A Health check up was organized in the village for betterment of villagers. A cleanliness drive (Swachata Abhiyan) was also organized during the camp. NSS also participated in 'Save Mangroves, Save Mumbai'. 20 Volunteers joined this cause. The aim of this campaign was environment protection and restoration of mangroves in Mumbai under the iCare initiative of Holy Family Hospital NSS had a seminar with one goal to train as many people as we can for cardiac arrest emergencies. Doctors from the hospital came to the college to educate the staff and students about the various aspects and first aid.

RC - TSEC

The Rotaract Club of Thadomal Shahani Engineering College is one of the 10,000 chapters of the global Rotary International, aimed at making the world a better place with the motto "Service Above Self". RC-TSEC is a community of students which hopes to inspire change in the society, alleviate societal suffering by using their knowledge and life-experience and providing its members with all round development opportunities. RC-TSEC kicked off 2017's activities with the Nepal flood donation drive on August 24, 2017. It contributed essentials like glucose biscuits, ORS powder and mosquito coils to support the rehabilitation effort of the victims affected by the severe floods in Bihar and Nepal. Over 100 Rotaract clubs from India donated other essentials. On September 11, 2017 RC-TSEC conducted its formal installation procedure wherein the Board of Directors were instated by various dignitaries of Rotary International. RC-TSEC's flagship event of the odd semester, FUTSAL-PLAY FOR A CAUSE was a turf football tournament which focused on raising awareness about the importance of sports and outdoor activities in one's development. RC-TSEC partnered with the renowned NGO – The Candle Project - and invited its mentees under the age of 15 to learn football on the turf with the above aim in mind. On October 1 st and 2 nd 20 skilled teams competed in this competition to win the FUTSAL cup and other lucrative prizes. With the aim of overall development, an M.A.D. classroom workshop was organized for kids mentored by the NGO, The Candle Project. Held on January 26, 2018 the workshops included activities in the fields of Music, Art and Dance to promote extracurricular activities amongst the kids while giving them a platform to explore their talents and interests. RC-TSEC, in association with NSS TSEC, spear-headed the effort of collecting sanitary napkins to be distributed among the females in rural parts of Maharashtra as a part of The Real Padman Challenge on March 9, 2018. Access to this facility is very limited in the rural areas. This effort was aimed at alleviating the suffering of females in these areas and to help them achieve the basic human right of sanitation. The Mix Bag Open Mic was the flagship event for the even semester and was help on March 16, 2018, the full-house event aimed at helping The Hunar Foundation-India raise awareness about the lack of opportunities for people with special-needs. Various bands, poets, musicians and stand-up comedians showcased their talent and supported the cause by customizing their performance to be in-line with the cause. A donation drive was conducted for Bal Anand Trust on March 25, 2018. Plenty of donations in the form of toys, clothes and books were collected for the children at Bal Anand Trust who were ecstatic to have received such gifts and spent a fun-filled day with the team.

TSEC STUDENTS' COUNCIL

The TSEC Students' Council is responsible for the smooth and synchronised functioning of all the other student bodies of the college. It comprises of the student Secretaries, Joint Secretaries and their teams and covers all disciplines ranging from Cultural to Sports to Literary activities.

This year the Students' Council more commonly known as the Council was formed in the first week of August. This body was responsible for the Organizing the Reading Day celebration on October 15, 2017 and the most coveted annual prize distribution ceremony of the year, the Award's Ceremony.

For the very first time, elections for the post of Class Representatives were conducted in 2018 and thus TSEC witnessed the formation of its very own Council of Class Representatives. The job description of this new body of students was similar to that of the already existing Council and thus, the activities to be performed by these two bodies were wisely distributed which lead to the Convocation Ceremony being organised by this new body. The speedy formation and acceptance of this new body into the social fabric of TSEC bears testament to the maleability of the students and teachers of this esteemed institution.

DR A.P.J. ABDUL KALAM

I feel glad, thankful and honored at the same time for giving me this opportunity of sharing my experience as General Secretary of TSEC Students' council 2017-18. It was a great learning experience and as its said "With Great Powers, Comes Great Responsibility", It was more of responsibility and how we deal with stress and pressure and staying calm even when all odds are against you. I learnt about sacrifices we have to reach an ultimate level of selflessness and Honesty. However the Journey was challenging with full of ups and downs, similar to line in ECG, If it's straight that means you're dead.

Tanmay Padwal
General Secretary

Akash Mishra
General Secretary

Not very often, there happens to be this one opportunity that knocks on your door and re-defines multiple paths for you. One such opportunity knocked my door, with the dawn of the new semester in January and that is exactly what leads me here today to write as the first elected General Secretary for the annual magazine of TSEC, Synapse.

From being a Junior Committee member of TSEC Students' Council, to the General Secretary and also the college representative at Mumbai University, it was a long journey for me stuffed with life altering experiences. My tenure was short-lived but enthralling along with my co-general secretary, Tanmay Padwal. With major events like the BE-Convocation of 2017 Batch, Traditional day and Trifles, the hurdles tackled and experiences earned shall always be a milestone in my life.

I would like to express my sincerest gratitude towards Dr. G.T. Thampi and Dr. M. Mani Roja for their support and guidance throughout the tenure

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CULTURAL COMMITTEE

Thadomal Shahani Engineering College popularly known as TSEC has been renowned to encourage students to excel in not just academics, but provides equal opportunities in extracurricular activities as well. The TSEC Cultural Committee organises various events to make sure that the teachers, students and the staff create and cherish new memories throughout the year.

The tenure for this academic session began with AVALANCHE'17 in August, the first festival of TSEC exclusively for first year students welcoming them to their college life. The new year began with 'Contingent Auditions' on 2nd January 2018 that provided talented students an opportunity to exhibit the talents and get selected in our college's dance, drama, fashion show and band teams. Republic Day was celebrated on 26th January with a gathering of few students, teachers and staff singing patriotic songs, covered by Media Eye channel. Our respected principal, Dr. G.T. Thampi hoisted the national flag and the Jana Gana Mana palette.

The most awaited annual event, 'Traditional Day' was held on 9th March 2018 where students in large numbers turned up in their best traditional attires dancing to the beats of the dhol. This was followed by the most anticipated part of the day, unveiling of the line-up for TRIFLES'18, the annual cultural festival of TSEC. It featured the melodious singers Arko Pravo Mukherjee, Yasser Desai, Priyanka Negi, Navraj Hans and Shuchismita Das for the Bollywood night, young and energetic DJ Teri Miko and Candice Redding for Electronic Dance Music along with the witty talks of Varun Thakur and Anirban Dasgupta to end the show laughing out loud.

TRIFLES 2hazaar18 hosted a set of enthralling events of grand stature, which witnessed nationwide participation and celebrity judges. Various colleges across Mumbai came to participate in the dance, drama and fashion show competitions on 23rd and 24th of March. BE dance, tug of war, hogathon and other fun events were enjoyed with a lot of cheering and joy.

We honour and acknowledge the tireless efforts of Dr. Mani Roja Ma'am, Dean of Students' Affairs for her altruistic guidance and unwavering support. We whole heartedly thank the entire TRIFLES Teachers' committee without whom Trifles'18 would not have been successful. Most importantly, we express our gratitude to Dr. G.T. Thampi Sir for being an enlightened visionary we all look up to.

Cultural Committee

The day I started with graduation I saw the names of CS and JCS written in golden words on the notice board and ever since I wanted to see my name there. This enforced me to join 'The TSEC Students' Council' in the second year, since the odds were not in my favour I had to resign, but the spark of seeing my name on the notice board was still lit.

After getting selected , within 20 days , with all the permissions and the help of the senior and junior committee members we held 'Avalanche'17 , and as our TSEC tradition we carried the contingent auditions for the students to show case their talents, then the traditional day , last but not the least 'Trifles'18'

Trifles'18 was not just a college festival for me , it was beyond emotions.

I'm very thankful to our college principal Dr. G.T Thampi -to place this opportunity and to grant us permissions ,to Ma'am Mani Roja and Sunil Sir- for their support and the council members- for their persistance ,efforts and for sticking up to their commitments also to Abhishek Pandey , Jinit Patel , Aditi Kamat ,Chinmay Gupta ,Uddhav Zambhre, Rohit Bhatt, Akash Mishra to go out of their way to help and guide me.

Right from square one I've learnt a lot, Dr. G.T Thampi Sir's words " You are very different person now Chirag, compared to what you were during Avalanche Dec'17" empower me to strive for something which is impossible and challenging .It made me realise that nothing is beyond my league if I've got enough nerves .

Chirag Ostwal
Cultural Secretary

I would like to thank Synapse for giving me the opportunity to share my experience as the Cultural Secretary. First of all I am grateful to everyone who has always been a part of my journey from our Principal to teaching staff and Students' Council. Time Management and Team Work truly define my tenure.

I would like to quote,"A good leader is a person who takes a little more than his share of the blame and a little less than his share of the credit". I would like to thank Dr.Mani Roja Mam for standing by our side and guiding us throughout the journey and making this experience much more valuable and enriching, and Most Importantly a sincere thank you to our Principal Dr. G.T. Thampi Sir for his support and guidance.

Pawan Punjabi
Joint Cultural Secretary

Cultural Contingent

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TSEC Sports Committee

Having been put in charge of organizing all recreational and competitive sports events for the year, the TSEC Sports' Committee did not disappoint from the get-go. They started on the right note within a month of being formed as they organized TSEC's first ever intra-collegiate football tournament, the TSEC Footcup. Backed by the Principal, supported by Mumbai City FC, and inaugurated by Mr. Raju Gaikowad of the Indian National Football Team, this event received a splendid response as it saw 16 teams strive for victory.

The Sports Contingent's visit to College of Engineering, Pune proved to be fruitful as it ended with a couple more laurels added to the college's name as Karan Sharma struck gold in the Men's Lawn Tennis Singles Tournament and the Girls' Handball Team finished third in the Handball Tournament.

Things only got bigger with Yudh 2018, TSEC's solitary inter-collegiate sports fest that saw over 600 participants from colleges all over the city fight it out in a number of indoor and outdoor sports including Leather Ball Cricket, Box Cricket, Badminton, Table Tennis, Chess and Carom. Each individual sport saw a commendable turnout and everyone returned with a memory to cherish.

The final step of the journey was of course the flagship event of the year, the TSEC Marathon.

The Fifth Edition of the Marathon, dedicated to Child Rights and Welfare, saw an exponential rise in runners as over 1500 runners from different sects of life, from all over the country came together and ran for Child Rights. Lauded by the Principal, covering the scenic locations of Bandra including Bandstand and Carter Road, this year's Marathon was a sight to behold.

It was indeed a fruitful year for the TSEC Sports' Committee as they upheld TSEC's high standards and continued to strive forward towards its goal of keeping a balance between academics and sports.

Sports Committee

Varun Shenoy
Sports Secretary

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I didn't even expect to get this post to be honest, but a year later, it feels as if it was meant to be. From organising the first ever TSEC FootCup, to one of the biggest Marathons in TSEC's history, it's been a hell of a ride. Doing all of this with the most amazing team one could ever have was just an added bonus. I might have messed up a few times, but the moment I stood on the stage to receive that certificate, everything was fine. (Except for the tug of war that followed. We demand a rematch.)

Harsh Tulsianey
Joint Sports Secretary

Sports Contingent

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WOMEN'S DAY

"The way to achieve your own success is to be willing to help somebody else get it first."

This year witnessed some powerful movements like #MeToo when women came together to bring sexual harassment and assault to the forefront of the national conversation. On the heels of this came the realization of the importance of women to stay united and with that in mind, International Women's Day was celebrated on 8 th of March this year at Thadomal Shahani Engineering College with the theme of 'Power in Unity'.

The celebrations, were kicked off by the college Dance Team's stunning performance and were followed by a Tug of War competition with teachers actively participating and students cheering for them with all their might.

Moving forward with the program teachers and students showcased their singing and dancing talent to bring a smile on everyone's face and encouraging each one to be a part of this celebration. Marking the true essence of Women's Day, everyone came together and danced to music that showcased

the beauty of India's diversity.

Lack of safety is one of the biggest problems of Indian women today. Selfdefence has become important, if not essential. To educate in preventive and combative measures that can be taken in life threatening situations, an experienced team from Kung Fu Arts and Foundation conducted a seminar.

Also, in collaboration with NSS-TSEC and RC-TSEC the Real Padman challenge was conducted where students and teachers were encouraged to donate sanitary napkins to help those in need. The celebration came to an end with lunch and warm feelings of gratitude and contentment. The success of this celebration is attributed to all the wonderful women who actively participated and came together to show the Power in Unity. The organisers thank the Principal, Dr. G.T. Thampi and the dean of Students, Dr. Mani Roja for all their help and support.

Gauri Jamsandekar
Ladies Representative

Lack of safety is one of the biggest problems of Indian women today. Selfdefence has become important, if not essential. To educate in preventive and combative measures that can be taken in life threatening situations, an experienced team from Kung Fu Arts and Foundation conducted a seminar.

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The day I was selected for the post of Ladies' Representative of TSEC was a proud moment for me. Thanks to our principal Dr. G.T. Thampi sir and our Dean Dr. Mani Roja ma'am for giving me such a great opportunity. The tenure was good and there were many things to learn throughout the tenure. During the tenure we identified that the sanitary pad wending machine which is installed in Ladies' Common Room was not working because of which some girl students and few teachers were facing problem. So we put over the problem in front of our dean and our principal and got the sanitary pad wending machine repaired.

The main responsibility of Ladies' Representative was to celebrate Women's Day successfully in a college premises on 8th March 2018. The General Secretary Tanmay Padwal helped us a lot for the arrangement. I along with Joint LR contacted a decorator, made arrangements for food, arranged speakers and did so many things in order to make Women's Day 2018 a successful event.Lack of safety is one of the biggest problems of Indian women today. Keeping this in mind we arranged a Self Defence Workshop with the help of Kungfu Arts and Foundation.On that day we also did a Padman Challenge in collaboration with NSS-TSEC and Rotaract-TSEC by collecting pads from women of our college and donated the pads to child health organization. This was so satisfying to me.

My overall experience as a Ladies Representative of TSEC was awesome. I learned many things and also interacted with many students of college. I learned management and leadership skills which as a person is very important in today's life.

Pavandeep Chadha
Joint Ladies
Representative

TRAINING AND PLACEMENT CELL

The Training and Placement Cell of TSEC, works very hard throughout the year to make sure that all the final year students have access to information pertaining to Campus Placements. The success of this organisation can be attributed to the Training and Placement Officers Associate Prof. Sunil Gidwani and Prof. Mudita Dixit along with the student envoys.

The student envoys for the year 2017-18 are as follows:

- Mr. Abhinav Gerela
- Ms. Divya Ratanpal
- Mr. Yogesh Malpani
- Mr. Dhruv Phansalkar
- Mr. Karan Nadar
- Mr. Danish Shaikh
- Mr. Mohit Mordani
- Mr. Naresh Naik
- Mr. Rohan Ram Vaswani
- Mr. Parth Mehta
- Mr. Yash Khatanhar
- Mr. Saumya Shah
- Ms. Prajwala Shetty
- Mr. Hitesh Dayaramani
- Mr. Meet Sanghvi
- Ms. Prachee Prabhutendolkar
- Mr. Sahil Shaparia
- Ms. Sailee Kulkarni
- Ms. Rasika Bhutkar

AWARDS

AWARDS

Consistently adding golden feathers to their hats and excelling in all walks of their lives, individuals in TSEC have an expansive skill set. Myriad factors are taken into consideration to identify and bestow awards to achievements of TSEC students annually. The following section is a commendation to jewels of this institution that are the pride of not only their family but of TSEC as well.

GOLD MEDALISTS

Ms. Suhasini Lulla

Ms. Samidha Tamhankar

Mr. Rohan Vartak

PRINCIPAL'S AWARDS OF EXCELLENCE

Sanjay Rajpal

Arjun Malik

Rohit Singh

Vatshal Bhanushali

Saransh Jain

Ankush Jain

Pallavi Borkar

Shraddha Suresh

Priyanka Kannan

Bhavi Shah

Preksha Vichare

Unma Desai

Hall of Fame

Mr. Rishab Lalwani
Ms. Shikha Makhija
Ms. Lavina Bhatia
Ms. Heena Bhatia
Ms. Sonali Basu
Mr. Mohit Ochani
Mr. Rohit Singh
Ms. Jui Thombre

Mr. Pratik Jugat
Ms. Pranali Majmundar
Ms. Jigna Bhatija
Ms. Kritika Mukherjee
Ms. Shivangi Modi
Ms. Miloni Shah
Mr. Husain Rasiwala

Mr. Divyam Mandalia
Ms. Shraddha Lulla
Mr. Yash Khatanhar
Ms. Akhila Nair
Mr. Saad Posharkar
Mr. Mohit Nathani
Mr. Nishant Bakhru

TSEC Ambassadors

BIOMEDICAL
Ms. Samidha Tamhankar
Ms. Bhavi Shah

BIOTECHNOLOGY
Ms. Simran Kushwaha
Mr. Madhav Upadhyay

CHEMICAL
Mr. Vatsal Bhanushali
Mr. Saransh Jain
Ms. Shraddha Suresh

COMPUTER
Ms. Kanika Yadav
Mr. Jayesh Walavalkar
Mr. Eshan Chawla
Mr. Krish Lalwani
Mr. Chaitanya Roygaga
Ms. Steffi Nazareth

EXTC
Ms. Ankita Vartak
Ms. Anujaa Biwalkar
Mr. Prajwal Shetty

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Ms. Neha Agarwal
Mr. Abhishek Malik
Mr. Vinay Gupta
Ms. Poonam Kanojia
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Ms. Pallavi Bulchandani
Ms. Neha Deshpande
Ms. Preksha Vichare
Mr. Anshul Valecha
Mr. Pranali Majmundar
Mr. Vikram Shenoy
Mr. Pratik Khare
Mr. Madhav Upadhyay
Mr. Rushab Luhade
Mr. Vikram Shenoy
Mr. Pratik Khare
Mr. Madhav Upadhyay
Mr. Rushab Luhade

Mr. Mohit Nathani
Mr. Dheeraj Manchandia
Mr. Abhinav Gerala
Mr. Yash Kalwani
Mr. Advait Nambiar
Ms. Akansha Salunkhe
Ms. Saili Kulkarni
Mr. Arjun Malik
Ms. Prajakta Joshi
Mr. Rohan Ram Vaswani

Semester Toppers

FIRST YEAR

SEM I   Sakshi Parekh
SEM II   Ankita Kar

BIOTECHNOLOGY

SEM III   Ms. Rakshita Phatak
SEM IV   Ms. Ruchita Rane
SEM V   Ms. Alishka Garg
SEM VI   Ms. Suhasini Lulla
SEM VII   Ms. Urmi Patankar
           Ms. Simran Khuswah

BIOMEDICAL

SEM III   Ms. Tejal Kangane
SEM IV   Mr. Jatin Hemwani
SEM V   Mr. Jatin Hemwani
SEM VI   Ms. Bhavi Shah
           Ms. Rashi Gupta
SEM VII   Ms. Bhavi Shah

CHEMICAL

SEM III   Mr. Yash Pathari
SEM IV   Ms. Nandita Chattopadhyay
SEM V   Ms. Nandita Chattopadhyay
SEM VI   Mr. Nishant Bakhru
           Mr. Divyam Mandalia
SEM VII   Mr. Vatshal Bhanushali

COMPUTER

SEM III   Ms. Priya Gianchandani
SEM IV   Ms. Ashwathy Menon
           Ms. Raina Bangani
SEM V   Ms. Shivani Hanji
SEM VI   Ms. Unma Desai
SEM VII   Ms. Pranali Majumdar

EXTC

SEM III   Ms. Simran Saxena
SEM IV   Ms. Gauri Jamsandekar
           Ms. Pallavi Kadam
           Ms. Tanvi Shivang
           Mr. Avish Porwal
SEM V   Ms. Pallavi Kadam
SEM VI   Mr. Karan Nadar
           Mr. Karthik Kothari
           Mr. Danish Shaikh
SEM VII   Ms. Siddhi Sawant

IT

SEM III   Ms. Nivedita Lodha
SEM IV   Ms. Urvashi Chauhan
           Ms. Muskaan Shaikh
SEM V   Mr. Shubham Singh
SEM VI   Ms. Suman Duseja
SEM VII   Mr. Aaditya Desai

For An ImagiNation

My mind tends to imagine myself in a ridiculous adventure sometimes, something outright preposterous, something out of a medieval fantasy, some sci-fi fiction novel or a crime-solving detective show. From dramatical murders to epic fights, from damsels in distress to cracking codes, all these imaginations are provoked by a single emotion, boredom. Boredom is the source of all creativity, so if an empty mind is a devil's workshop then let the devil work away, let him do the work and create humanly inconceivable ideas.

Mundane routines tend to suck the fun out of life, the same set of activities each day just blurs the concept of time. You never even realize how time just slips out of your hand and goes down the drain. Focussing on our routines tends to fade out the plethora of lively activities that take place around us. How long has it been since you just lied down and stared at the clouds go by or counted the stars at night, staring at a little puddle at the end of the road watching the tiny insects swim around, observed birds make their nests in trees, a squirrel run up and down a pole or a line of ants carrying food? Might have been a while, everyone is in the same boat. We are missing out on so much. They say imagination is made up of things you see in real life and dreams are made up of things that you might think are impossible, so if the mind is trying so hard to show you amazing things, why not let it go free. Why not let this world be governed by our imaginations?

Imaginations lead to ideas and ideas lead to inventions. Inventions are what make the world a better place to live in. In our current age, where we need to proactively think up of new solutions to resolve impending world problems if logical ways don't work out then why not let our creative power take over. If someone is interested in a particular thing they won't get bored and if and when they do get bored, the things that they are interested in coming out in incredible ways through their imaginations.

The news is littered with mentions of people dropping out of school and making successful careers and innovations. Maybe they found what piqued their interest and let their passion go free. Imaginations allow you to explore worlds as the protagonist of a story that some people might have not even thought possible. So my view is this, if you have found something you're interested in, follow it the best you can and then let your imagination do the rest.

-Siddharth Menon
(TE Computers)

WHERE'S MOTHER, AGAIN?

Born only yesterday,
Where's mother, again?
The nest is here, and that's that.
But, where's mother, again?

I see there are the clouds.
I see the cold, hard ground.
And then there's this emptiness between.
But, where's mother, again?

My wings must have grown,
It has been only today, so far.
There may be a today again,
And there may be another me.

I have spread my feeble wings,
Must I risk it all?
But, mother isn't coming back again,
Why have you left me to die?

Was it not yesterday,
that I was born?
and that I was nurtured?
and that I was abandoned?

Mother, do I hate you.
Why did you have to go away?
Why did you never return?
Why was I left alone?

I have left your abode now.
I have my wings, mother.
I do not need you.
Look, I am flying.

Look mother, I really am.
Look how fast I fly towards you.
Look how fast the ground approaches.
I wonder, where was mother agai...

-Saransh Jain
(BE Chemical)

Yes, you 'herd' it right

We have all come across the term Herd Mentality and most of us, at a certain point in time have, knowingly or unknowingly, done things that make us belong to a certain group or 'herd'. There's enough evidence around us to support this claim. Whether it's choosing a popular career path, participating in riots or processions, buying popular products, listening to the same music, watching the same movies or the things we do just to gain approval from a group or society, are all an indirect consequence of the Herd Mentality.

Herding is a concept found in social psychology. When applied to human beings, the herd instinct, and its offspring's herd behaviour, herd mentality, herd attitude, or herding, can be defined as the rather widespread tendency to behave instinctively in the way most other people do. Herd mentality or mob mentality, to be more precise describes how people are influenced by their peers to adopt certain behaviours.

But unlike popular opinion, being part of a herd is not detrimental in all cases. Our ancestors wouldn't have been able to fight off the wild, harvest crops, form political systems, and revolutionize living if there was no herd instinct. Our species needs cooperation and a strong group instinct to grow as a community. In fact, at the instinctual level nature condemns our species to conformity and uniformity. Our brains are hardwired in a way that belief takes precedence over reason and conformity over individual judgment. So it's alright to feel the need to be part of a greater whole.

The downside is in places where critical thinking is absent. When political and religious leaders manipulate the crowds to fulfil their own selfish needs, when societal norms are followed without prior evaluation and when conformism trumps individual judgement. One such popular example is choosing engineering as a career option. With over 13 lakh aspirants apply for engineering in India, the popularity of the field is mainly due to the belief that becoming an engineer will provide financial security in the future. This notion has been proven to be false as around 70-75 % engineers are categorized as unemployable after graduation.

One of the earlier attempts in understanding the group instinct was by Gustave Le Bon, a French psychologist who wrote The Crowd: A Study of the Popular Mind all the way back in 1895. The passage sums up his findings pretty well (emphasis mine):
"The most striking peculiarity presented by a psychological crowd is the following: a crowd puts individuals in possession of a sort of collective mind that makes them feel, think and act in a manner quite different from that in which each individual of them would feel, think and act were he/she in a state of isolation. There are certain feelings that do not come into being, or do not transform themselves into acts, except in the case of individuals forming a crowd."

Social psychology does offer relevant explanation for herd mentality. When people are part of a group they often experience a phenomenon called de-individuation - loss of self-awareness. In this state humans are less likely to follow moral restraints or any type of inhibitions. Being part of a group can generate a sense of emotional excitement which can lead to provocation of certain behaviours that a person would not typically engage in, if alone. A group makes certain behavior seem acceptable, that might not be otherwise. Thus, the greater are the pressures to conform and de-individuate, the greater is the tendency to identify with a group. For instance, while rallying for a cause, or supporting a certain team in sports or a political party, or choosing a particular career option.

Psychology, combined with neuroscience, gives us a more biological aspect of it. The neurochemical oxytocin triggers a "bliss response" in the brain when we all engage in any form of social interaction. When we are in a group we feel safer, warm and content due to the bliss response. When we don't have a connection, our brain compels us to seek new connections until we can get the bliss response again.

Another recent study has discovered a new insight into mob mentality. Isolated individuals are less likely to riot, protest or cause any kind of violence. But priorities change when there is a group. In the study, the subjects were hooked to MRI brain scan machines so that scientists could monitor activity in different parts of the brain. A section called the medial prefrontal cortex lights up when people think about themselves and is more dormant when people think act in groups. The subjects were seen to self-reflect least when they made decisions in a group and self-reflected most when judged individually.

Evidently, our concept of 'I' is an illusion. Man is a social animal and he will always depend on the people around him. It is not easy to resist group conformity anywhere in the world. Our desire to somehow fit in moulds attitudes. We value social acceptance, seek assimilation, and fear rejection of our views. In fact the smaller a minority, the more it hesitates to express a contrary opinion.

Herd Mentality has existed since the evolution of mankind. Its presence has affected society in several walks of life, positively and negatively. Social growth in various areas, including intellectual, would have been more difficult without the presence of the herd instinct. However, there have been major damaging and undesirable effects too. Evolution has lead individuals to overuse social information, and depend on others too much than they should. Hence, the challenge is in evaluating personal beliefs when they contradict what others are doing and act accordingly, without giving in to the group or herd instinct.

- Pranav Manglani
(TE Computers)

FAULT IN POETRY

Loss of words, lack of experience,
Tired of relying on unreal semblance,
Exploited nature's metaphorical modesty,
Poetically beautified every stale simplicity.

Painting emotions in love and pain,
Personifying unreality for the impact to sustain,
Depression becoming a broken heart's fetish,
Love magically carved without any blemish.

Preaching and empowering for conventional reforms,
Boasting perspectives that defy the norm,
Portraying harsh truths in harsher expressions,
An art of words, a mere misdirection.

Until reality becomes a huge let-down,
We start looking for all the 'unusual' around;
Only to realise, the hype only exists in rhyme,
This fault in poetry, every poet's crime.

-Deepakshi Kasat
(SE Biotechnology)

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Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
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The Halo Debate

Formula 1 is the premier category of motor racing in the world, with a glamorous history and a huge fanbase. Four wheeled single seater cars race each other over a certain amount of laps around purpose-built race tracks or public roads modified to suit the purpose. The cars can reach speeds of upto 370 km/h at some tracks. High speeds mean high danger and there have been many tragic incidents in the early years of the Championship. Improvements in safety mean such incidents have become progressively rarer over the years.

In 2018, drivers walking away from crashes are the norm. However, Jules Bianchi's unfortunate demise in 2014 after losing control and hitting a recovery vehicle served as a cruel reminder to everyone about the dangerous nature of Formula 1. The FIA responded by introducing Virtual Safety Car (VSC), to slow down cars in marginal situations, where a Safety Car period (all cars are forced to slow down behind a much slower Safety Car) is overkill and yellow flags (indicating caution for some part of a track) are not enough.

Formula 1 cars have changed a lot since the championship's inception in 1950, but one aspect has remained constant: the open cockpit nature of the cars. Whether it be the 1950s or the current days, fans have had an unhindered view of the driver. This means the driver's head is left open with only the helmet as protection. Helmets worn by Formula 1 drivers can withstand tremendous forces, much more than any helmet seen on Indian streets, but at high speeds even a small piece of debris can have enough energy to cause serious damage. The FIA identified this as a weakness and set about identifying ways to counteract the danger.

Three methods were tested based on proposals by different teams. These included: the Ferrari 'Shield', the Red Bull 'Aeroscreen' and the Mercedes 'Halo'. After various FIA mandated static load tests as well as on track tests by drivers to check for any visibility issues, the Halo was adopted by the FIA as the design for 2018.

The Halo is essentially a central pillar in front of the driver, supporting a loop around the driver's head. Henry Surtees (Formula 3) and Justin Wilson (Indycar) have lost their lives after being hit by a tyre and piece of bodywork respectively. The Halo is designed to protect against such large pieces of debris

Acceptance of the Halo among drivers, team personnel and fans has been far from unanimous. Critics of the Halo have pointed out various flaws. The Halo fails to protect against small pieces of debris, if it misses the central pillar or the loop above the driver. Concerns have been raised about the drivers' ability to get out of the car in case of a fire or other such emergency, although the effect has been described as marginal once the drivers get used to it. Concerns about visibility have also been dismissed. The main area of criticism, by far, has been its ugly design and a perceived change in the sport's DNA. The Halo is certainly not the most aesthetically pleasing part of the car. The move from an open cockpit to a partially closed one, has been described as changing the very nature of the sport, accelerating progress to a completely closed cockpit design. An extreme analogy is banning all bouncers in cricket because of the danger of head injuries. Many people feel the changes are unnecessary, protecting against incidents which are very unlikely to occur.

Indycar, where Halo can cause visibility issues on banked turns in oval courses, recently tested a windscreen device similar to the two options rejected by Formula 1. While Formula 1 cars will race with the Halo in 2018, it is possible that another design will be adopted by the FIA in the future, depending on improvements in other implementations as well as how the windscreen device fares in IndyCar.

While there have been many controversial rule changes over the years, the introduction of the Halo has generated more discussion than any change before. Ask any kid in the last 30 years to draw a Formula 1 car, and the drawing will be more or less similar. The Halo changes all that.

-Kaustubh Khavnekar (TE Computers)

WEAK

Sometimes it's good to feel weak.
It's good to feel empty.
It's good to have nothing, and yet want nothing.
It is good to have a delicate crack.
A flaw hard to ignore, like tiny speckles on the moon,
like withered leaves on a flower bed.
Life proves my weird claims.
The powerful, the mighty meet a nasty end.
The weak, the fragile wave goodbyes in peace.
Power often leaves the bearer alone.
Lose the burden and you know who are your own.
Do not mistake the weak for a coward.
Because in weakness lies true strength.
Weakness gives us volatility.
The chance to explore.
The chance to learn.
The chance to shut the pride ridden thoughts.
They say the proud are the first to fall.
Oft comes pride to the tough.
The weak are elastic, free to fly.
So my friend do not fear weakness,
because only the weak can be truly strong.

-Apoorva Iyer (TE I.T.)

My Boat

On the waves of uncertainty, sails my boat of hopes,
Having my belief as my anchor I hold on tight to my ropes.
Swaying up and down in storms of failure,
I shiver, I tremble but I'm my own savior.
My instincts, my conscience plays the sail,
Carefully I remember and follow my trail.
And through the dark nights with winds untamed,
I hold on to my faith, as it is all that remains.
But as they say, drop and drop becomes the ocean,
A little faith is enough to break the regulations.
Sailing to reach my port of happiness I strive,
On the map I trace the journey of my life.

- Sadiya Chowdhary
(FE Biomedical)

THE DECIBELS
OF CHANGE

He wakes up. No, he bolts from his bed and smashes his alarm clock with a sledgehammer before it even has a chance to ring. He goes ahead with his screaming exercises (with an emphasis on 'NEVER' and 'EVER') because he does not skip 'scream day'. He gets dressed in his 'loudest' suit, garbles up headlines for breakfast, neatly parts his hair and the eardrum-bursting news journalist is ready to answer the most pertinent questions the nation has to throw at him.

The doors fling open and the hero we need AND the one we deserve enters his office. He has his game face on and he wants to begin his search for the day's big question as soon as he has answered all his fan mail. The intern brings him his coffee and the myrmidons queue up with all the news from different pockets around the country, some of which could be the big stories of the day.

Selecting the feature story of the day is an arduous task in itself. For instance, The Wire did a report on the how the turnover of the company of Jay Shah, Temple Enterprise Private Ltd, increased 16,000 times over in the year following the election of Narendra Modi as prime minister and the rise of his father, Amit Shah, to the post of party president and they were subjected to a 100cr civil defamation lawsuit. Upon hearing this, our journo and his team sprang into action and did what was expected of them. They went through the grind, carried out thorough investigation and they made some hard calls as one would expect of a responsible journalist. Finally, after a hard day's work, filled with flashy headlines, sponsor integration and a highly skilled panel, the story about the crackdown on meat shops in Gurugram received its richly deserved primetime attention.

What if there is no juicy story in the day? Will the viewers be let down and their blood pressures return to normal? A catastrophe like that is something that a senior journalist like ours would never allow. As seen in the aftermath of the unfortunate demise of renowned actress Sridevi, the art of concocting a story is quite nuanced. Firstly, there must be a series of misleading headlines complete with hashtag. Secondly, the five year old graphic designer must create some patchy visuals coupled with a few numbers thrown in under the garb of facts to aid us in jumping to conclusions. The journalist has a pivotal role to play here. He must go to great lengths at times to present the story. In the case of Sridevi's untimely death, the journalist even got into a bathtub to lend credence to the story. Another story required a few esteemed guests to grace the channel who were polite enough to bring their own swords and casually issued

death threats to Deepika Padukone on air if her movie Padmaavat was released.

Move aside Marvel because the most ambitious crossover is hands down the one that involves the most prestigious panel on the most watched news channel in the country. It is a formidable task to find a panel that can add to the 'T.R.P (Temper Raising People). Once you have found the group of remarkable individuals that can collectively raise their voices to decibels that can put jet planes to shame, all you need is a moderator to reside over the incoherent mess. And who takes on this laborious job? That's right! It is our not-so-friendly neighbourhood journalist. He is the one that has the power to mollify a member of the panel if they are digressing (by digressing themselves), he is the one that stays on the fence in the debate (unless it is a debate about religion, caste, creed, nation, war, politics, government in power, economy, external affairs, internal affairs, culture and society) and he is the one that holds the members to their limit (by speaking most of the time himself). Sometimes our journalist may ask questions to the members to allow them to frame their arguments better, elaborate on their point, it is these cases to literally speaking mouth on the member. The member could be a retired army general from a neighbouring country, could be disagreeing with a decision of the ruling party or worse, could be trying to use an unusual and logical argument.

When the show finally about to end, a lowly tenth grade event is gonna walk up to the anchor. "Do you do you know what the nation wants to know?" The ever-fuming anchor again "It's obvious yes my dear child, what else again?" Never mind "There is only a question and there will never be a question. If we obsess the question, and who doesn't love a good show?"

-Nikhil Kotian (TE IT)

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THE HUMANS OF SCIENCE

Approximately 1,000,000,000,000,000,000,000 or a billion trillions. That is estimated number of stars in our observable universe. And alongside the umpteen stars, dark matter galaxies, rogue planets, black holes is our very own humble planet Earth, described by astronomer Carl Sagan as simply 'a mote of dust suspended in a sunbeam', a cosmic nobody on first sight. But then you notice Earth's teeming life: on the frigid poles, in acidic mines, volcanoes, and in recesses of the deep sea. Humans have cataloged nearly 2 million different species, and that is universally agreed to be a gross underestimation.

This scale and opulence of nature is often overwhelming and unfathomable. Yet, we humans have always tried to unlock nature's mysteries. Faced with the grandeur of the night sky, numerous humans began to chart the movement of the stars day after day. And just like that, distant strangers in the vast sky became friends that acted as anchors to help navigate the gigantic planet. So slowly, with rational thought and ingenious experimenting, humankind not only crafted wheels and tools and machines, but humans also crafted the art of Science.

Science is definitely an art, and not some cold, emotionless calculation. However in the complexities of abstract equations and hypotheses, especially in technical writing, it is easy to lose sight of the non-mechanical aspects. Taking a step back often reveals the insights, passions and struggles that go into every discovery. Scientists are often looked up for having a great intellect, but history shows that there are far greater attributes required. Passion, often in the face of persecution and adversity, is a staple. Galileo, Charles Darwin, Gregor Mendel, and countless more had to swim against the tide to gain acceptance for their revolutionary ideas.

A much-need but under-looked virtue of science is raw determination. Barry Marshall was confident that ulcers were caused by the H. pylori bacteria instead of being a stress and lifestyle disease as believed by the medical community. However he had no way to prove it short of ingesting a petri dish full of bacteria himself and then biopsying his own gut! He did just that and not only saved the lives of many patients with ulcers and even stomach cancer, but also won a Nobel prize. This conviction in one's work is a reoccurring attribute of scientists. This conviction helps achieve what is thought to be impossible: From the invention of powered flight by the Wright brothers to teaching a chimpanzee to speak sign language by Drs. Allen and Beatrix Gardner.

Science is often painstaking: An apt example is the famous pitch drop experiment, the longest-running laboratory experiment. Professor Thomas Parnell started this experiment in 1927 to demonstrate that solid appearing substances can flow like a liquid, albeit very slowly. So slow that just 9 drops have fallen so far and the next drop is expected to fall in 2028! An experiment of this length is not a rarity, many such tedious endeavors are undertaken regularly. A most remarkable undertaking was the Human Genome Project which mapped all the genes of the human DNA. This colossal task was accomplished with the collaboration of scientists worldwide over a period of thirteen years. It is characteristic of scientists to devote their lives to push the boundaries of knowledge in their specific sub-field: whether they are searching for dark matter, or for elusive narwhals, the unicorns of the freezing arctic, or trying to understand the inner working of a single disease-causing cell.

These humans of Science are not the ones we often see in mainstream media or popular culture. We only see the select few who capture public imagination and catapult to fame beyond the scientific community. These scientists then become instrumental in becoming a bridge to the masses and influencing the public's opinions of what scientists do. Whether it be Newton, Curie, Tesla or Einstein, their stories have intrigued and inspired generations to come.

And today, with the proliferation of online media new research reaches people quicker, and this is made more exciting with the breakneck speed at which new technologies are emerging. Self-driving cars, virtual reality, artificially intelligent robots all seem within reach. While all this is exciting, it is also chilling. Take the situation with Artificial Intelligence. There exist machine learning algorithms can accurately guess your ethnicity from your name or shopping preferences or even sexual

orientation from your activities and interests. Such tools can be used to identify discrimination or to discriminate. AI needs to be molded with the insights and intelligence of people: social scientists, philosophers and general public alike.

Just like the best tool needs a craftsperson, science needs people. It needs determined humans who strive to explore the unknown, it needs open-minded policy makers who can leverage new technologies with the best interest of the public at large, it needs effective science communicators who can spread an intuitiveness, awareness and love for science, and it needs passionate learners who are ready to be analytical and receptive in their quest to fit into place one small piece in the grand jigsaw puzzle of the universe. This is how experiment by experiment, idea by idea the corpus of human knowledge expands and a human legacy is built. We may never achieve true understanding of anything around us, but attempting to do so has demonstrably brought immense value to the entire human race. Just for the small glimmers of understanding alone, it is worthwhile to continue in the glorious tradition set down by the humans of science.

-Neha Makhija (TE Computers)

A MONSTER

You're in the constant battle with yourself every day, trying to fight

something that you're not, something that you do not want to be, something that makes you feel uncomfortable, that is not comforting.

What is this? What have you become? You ask yourself, living under the dogma of your existence, a paradox, that you cannot solve, because you do not realize what you've become, a monster.

You cannot understand why this is happening, why a certain individual is inside of you, trying to escape from this existential crisis that you're in, because you've got yourself into this position, because all you did was listen & act, but never questioned why?

"Why" was the key to everything, curiosity never killed the cat, it liberated it from its constant suffering, the dilemma of its own existence, curiosity is what led man to discover fire,
The fire in your eyes is what fuels your ego, your mind, but, is that what your heart wants?
the lust, the greed, the filth, the pride, filling your mind and spilling over your body, emboldening your thoughts, and you cannot see anything but yourself in front of everything,

You hate what you've become even though you like it, because it's a constant battle between your mind and your heart, but in reality, it's just a battle between you and everyone else,

You think you are the perfect amalgamation of success and talent, which gives you the hall pass of a**holery, you're dependent on serotonin and dopamine for happiness, but you're still not content, because your heart isn't,
Your heart does not strive on chemicals, but it does on feelings, but, you've moulded yourself in such a way that you don't have any, and you do not feel a thing,

you tell yourself that you'd be better, you tell others that you're a good person, that the situation has moulded you into what you are today, that you'll change, but deep inside, even you know that there's no escape,

You continue to destroy the structures built by others called feelings, you just don't care because you do not feel anymore, you care about nothing but yourself, only yourself, beep, beep, beep, is all you can hear now, no one around you except the unknown lab coats and the masked snakes, who aren't there for you but what you've built, you think to yourself, is that what I dreamt of all my life? Is this what I really wanted to be? Is this what my heart really wanted? I could finally see the light in my eyes, not ascending to the stars in the skies, but deep down somewhere, because all my mind wanted, was to be the best.

-Digvijay Ghotane (TE EXTC)

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Live and Let Die
The Global Refugee Crisis

It's 1947, eleven-year-old Viren sat on his doorstep, waiting to hear the verdict. Would they get to stay?

He's from a family of shopkeepers, who though successful enough, being part of a stationary occupation will have to leave everything behind. The news arrives, his little village of Bomeli, which never even had its own train station, would now be a part of the newly formed subcontinent. One hostile to his faith. So, the family starts preparing and within the next 24 hours, they've grabbed everything they can and set out in a caravan of people fleeing their own land to escape the massacre.

Over the course of the next three months, little Viren was witness to atrocities, enough to leave even an adult with nightmares for the rest of their lives. He still, can perfectly recall the rivers of blood, recall being caught in a shootout, recall his own uncle getting shot and recall the crippling relief of making it into his own country's 'new' border. But this relief was short lived, they now had to build new lives, with very little to their name. No, they were not immediately accepted into the local community, because they competed for jobs, but they worked very hard, and with the whole family contributing, within the next decade this family had integrated themselves into the community and started contributing to it. They were no longer REFUGEES. This is how refugee stories are ideally supposed to go. But imagine, if after so many years of the supposedly 'happy ending', this family was asked to GO BACK. As if their lives and the lives of their progeny –who were very much born here- in this country, meant nothing.

Unfortunately, this is what is currently happening all over the world. As of 2017 there are 68.5 million forcibly displaced people worldwide.

57% of these refugees come from Syria (6.3m), South Sudan(2.4m) and Afghanistan(2.6m) due to various reasons, civil war being one of the major ones. Also, a rapidly rising major refugee population of 1.2 million, belongs to the Rohingyas of Myanmar, who were declared stateless after escalating violence against them, in the Rakhine state.

Among the top-refugee hosting countries, Pakistan is probably the country which has been hosting Afghan refugees for the longest period of time, and as of 2016 they have repatriated about 4.6m of them, voluntarily or otherwise. In the case of Syrian refugees, initially the Lebanese and Turkish people accepted them wholeheartedly, but with the current norm of labelling refugees a threat to national security, the Turkish officials have asked these people to return, citing cultural differences and competition for jobs. These 'people', who have built completely new lives for themselves and are very much part of the economy.In fact, our very own country, is threatening to deport the population of Rohingya refugees it hosts.

This is not okay. You see, the little boy I mentioned? I'm his granddaughter, and as the granddaughter of a refugee, I completely understand when they say that they're only looking for some peace and quiet and a chance to start over in life. That they truly just want to belong. Yes, hosting refugees is expensive, both fiscally and otherwise. But it's also that many more people that contribute to the economy and society. Indeed, a study by the Department of Health and Human Services that found that refugees in US, brought in $63 billion more in government revenues over the past decade than they cost.

In the end, quoting Melissa Fleming, who's the Head of Communications and Chief Spokesperson for the UNHCR. "Not investing in refugees is a huge missed opportunity. Leave them abandoned, and they risk exploitation and abuse, and leave them unskilled and uneducated, and delay by years the return to peace and prosperity in their countries. I believe how we treat the uprooted will shape the future of our world. The victims of war can hold the keys to lasting peace, and it's the refugees who can stop the cycle of violence."

- **Akshita Gulati (FE EXTC)**

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CONUNDRUM

Inhaling confidence, I prowled from the washroom. My senses were once again immediately pelted with the familiar wave of burnt espresso beans and brewing coffee. It was a rather slow day at the Aroma Café, not more than four tables were occupied. One of them, the corner booth, was occupied by him. Suvit Mishra with his tired brown eyes.

He was thoughtfully stirring his coffee, his third coffee since I stepped into the café. The table before him was covered with thick bundles of papers in which he seemed to have lost interest.

Enough of watching, it's showtime.

"Hi, may I join you?" I asked gauging his reaction.

He peered at me scratching his stubble before pointedly looking at the empty tables beside him. When I didn't answer his unasked question, he carefully collected his papers and set them aside.

A man of few words then.

"I'm Maya," I leaned forward to offer my hand.

"Hello, Maya. I'm Suvit," he sighed accepting my offered hand and then immediately went back to stirring his coffee. The 'I know' almost escaped my lips.

"So Suvit. What do you do?" I asked business-like, crossing my legs.

He spread his hands indicating the mess of sheets without taking his eyes off the table and said, "Guess."
"Professor or something?" I answered even though I knew exactly what he does for a living.
"Or something" was his gruff reply.

"Won't you ask me what do I do?" I asked a bit impishly.
"What do you do, Maya?" he parroted tapping the stirrer on the rim of the mug.

"Guess," I replied pulling out the gun from the waistband of my jeans and placing it in front of him. Now, that got his attention.

His forehead creased in a frown and he warily replied, "Um... police?"
"Not quite, Mr. Suvit Mishra. I'm an assassin."

There are two categories of people; people who work for money and people who work for their passion. I definitely belong to the second category. The fear in their eyes gives me a hold on them. I love to see them plead and beg for their lives. I get drunk on that power.

His features moulded into a grim surprise but he made no attempt to move.
Deciding to take his silence at its face value, I continued, "Remember Dr. Nair? Apparently, he's not a fan of your 'oh-so-honest' articles. He hates the one you wrote about him the most and I'm here to give his review on it."
Suvit recoiled in shock and before he could even think of doing anything, I tapped the gun with my fingers and stage-whispered, "This is faster than you."

A myriad of emotions passed on his rather handsome face before, surprisingly, settling on mirth. He grinned manically without any humour. I looked around to spot any curious spectators but to my immediate relief and their better luck, no one was particularly vested in our conversations.

"Want to share your last thoughts?" I asked barely veiling my irritation.

He shifted a bit uncomfortably at my tone and then explained, "Look, Maya, it's like... I'm under a lot of debt, of over 50 lakhs: my college loan, house loan and of course, I've been fired, courtesy Dr. Nair. My stories were not getting published anymore. I was still doing okay." Taking a deep breath, he continued, "Until last week, when I found Swetha in bed with my brother, my brother! I just... couldn't. So finally I decided to abandon everything and commit suicide but apparently," he snorted, "Shwetha was right, I've 'commitment' issues."

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I leaned back in my seat studying his face. There was no sign of fright and I was itching for... for something. What should I do now? I unlocked my phone as if it had answers to all my questions. Then I realised, it actually did.

A ping went off in his phone. "Check it," I said with a hint of smugness.
Raising an eyebrow, Suvit checked his phone. A surprised gasp fell from his lips. He read the message again, then looked up at me, then at his phone before finally locking his eyes with mine.
"One crore!" he exclaimed.
"Do you want to live now?" I leaned towards him from across the table.
Suvit still did not recover from the shock. So I continued, "Now, I want you to convince me not to kill you." I was revelling in his obvious shock and confusion.
"You transferred crore rupees in my account just to see me beg," he said. It was not a question; it was an assertion. A correct one at that.
"Can you at least give me a little more time to process this?" The familiar phrase falling easily from his lips as he looked at his watch.
I grabbed his now lukewarm coffee and replied, "You've until I finish this."

He leaned back in his seat and looked at me with the same blank expression he had when we met this morning. He zoned out as I finished the drink so I cleared my throat bringing him back to the reality.
"So," I fingered the trigger of the gun, "let's hear it."
"A great man once said, 'You never know what worse luck your bad luck has saved you from.'" Suvit started gathering his sheets and neatly piling them up. "But you know what Maya? I never believed in luck."

He leaned forward, "Until now."
"What do you mean?" I asked, searching for my gun as my vision started blurring.
"Thanks for everything," he loosened my trembling grip and carefully put the gun away using a paper napkin.

SUICIDE OR MURDER?
MUMBAI: A woman was found dead under mysterious circumstances at Café Aroma, Ghatkopar on Thursday afternoon. Police recovered a gun and a wallet with 3 fake IDs of the dead woman. The further forensic investigation had shown that there were traces of Tetrodotoxin, a poison, in her blood. Same traces were also obtained in the coffee cup on her table. Tetrodotoxin has been used clinically to relieve a headache associated with heroin withdrawal.
There is a healthy speculation regarding the nature of her death. It still could not be said if it is a suicide or a homicide. Victim information has yet to be released. This story will be updated as more information is known.

-Srikala Kondamudi (TE Biomedical)

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The Pride of Being a Woman

"No nation can rise to the height of glory unless your women are side by side with you."
- Muhammad Ali Jinnah

It is perhaps not a surprise that most empires have had women at the forefront of their rule. Even modern times bear testimony to this; Oprah Winfrey, Hilary Clinton and JK Rowling are pioneers of revolutions in different facets of life. Why, even India has seen the likes of Rani of Jhansi, Indira Gandhi, Kalpana Chawla and Mother Teresa emerge as raging tigers, taking the world by storm and etching their names firmly in history for years to come. From the Vedic times to the age of Siri, women have time and time again proven to be the backbone of humanity. Why, even Shiva, one of the principal deities of Hinduism, also referred to as the Ultimate Man, became half-woman (or Ardhanarishvara) to attain perfection.

Even language has many of its stronger words women-oriented. The land in which we spend our childhood in, where we spread our roots is historically referred to as 'mother-land'. The words that we first speak; the language we learn as we grow up is referred to as 'mother-tongue'. Why, even most of the rivers that have such geographical importance in India – Godavari, Yamuna, Ganga, Kaveri, etc. all have names of feminine origin.

The long-standing idea of 'Behind every man's success is a woman' is now a cliché. Women are leading revolutions across the world, not by standing behind anyone but by assuming equal positions in the game of power. This is the case of most of the standing and emerging superpowers. However, this is perhaps not true in India, where women are seen as little more than a burden, a necessary evil that supposedly exists only for filling numbers. The fact that a country that worships women Goddesses to the highest peaks is one of the lowest ranked ones in the women safety radar is extremely ironic. Unless the situation changes soon, no advancements in technology will be enough to elevate our country's status to that of a superpower.

8th March is internationally celebrated as Women's Day. Women empowerment campaigns are at their peak across the world on that particular day. Perhaps, if we looked at each of the remaining 364 days of the year as Women's Days, we put ourselves in a far better position to appreciate more the marvel of creation called 'Woman'!

-Dr. M. Mani Roja Ma'am
(Associate Professor, EXTC Department)

पत्रास कारण की...

..... यास,

खरंतर खूप दिवसांपासून मनातल्या भावना तुझ्याकडे व्यक्त करायच्या होत्या. पण निमित्तच सापडत नव्हतं. मग म्हटलं, आज स्वतःहून तुला एक पत्रच लिहू आणि नकळत निमित्त सापडलं! मी तुझ्यावर लहान असताना लिहिलेल्या कवितेचा तो जुना कागद कुठूनसा हाती पडला. कागद जरी विरला असला, तरी त्यातल्या भावना अजूनही मनात तशाच जिवंत होत्या आणि का असू नयेत? होत्याच त्या तेवढ्या विशेष आणि त्याहूनही विशेष होतास तू, अजूनही आहेस! तू विचार करत असशील, एवढं मोकळेपणाने बोलायला घेतलंयस, तरी ..... का? काही विशेष संबोधन का नाही वापरलं; तर मुळात ना, आज तुला काय बोलवावे तेच कळत नाही. तू माझा मित्र आहेस, प्रियकर आहेस, पाठिराखा आहेस, सोबती आहेस, पालनहार आहेस आणि अजून काय काय... मग कुठल्या एकाच विशेषणाने संबोधावं, तर इतरांवर अन्याय नाही का?

खरंतर तुझ्याशी माझी मैत्री अगदी लहानपणापासूनच. म्हणजे मला नक्की नाही आठवत, पण जेव्हा केव्हा समजायला लागल्यावर मला तू भेटलास तेव्हाच माझा तू लाडका झाला होतास. अख्खा दिवस गच्चीमध्ये तुझ्यासोबत वेड्यासारखी नाचले होते. तुझ्यामुळेच खरंतर मी कागदाची होडी बनवायला शिकले आणि मग दरवर्षी तुझ्या सोबतीने पाण्यात सोडलेल्या त्या होड्या आणि म्हटलेली ती गाणी ह्यांनी माझ्या बालपणीच्या आठवणी अगदी व्यापून टाकल्यात.

जसजसं वय वाढत गेलं, तसा तू कळायला लागलास आणि तुझ्याविषयी मनात प्रेमासोबत आदरही वाढला. तू सोबत असलास ना की वातावरण नकळत प्रेमळ होऊन जातं. तो गुलाबी दरवळ सगळीकडे जाणवू लागतो, अर्थात ही सारी तुझीच किमया असते. मग असं वाटतं तुझ्याकडे फक्त पहातच बसावं. तुझं ते रूप न्याहाळत तुझ्यातच हरवून जावं आणि तसंच तासन् तास बसून रहावं. गरम वाफाळत्या चहा/कॉफीच्या साथीने तुझ्यासोबत मस्त गप्पा माराव्यात. तू नेहमीच काही न बोलता, शांतपणे माझं सगळं बोलणं ऐकून घेतोस. तुझी काहीच तक्रार नसते. तुझ्यासारखा प्रियकर कुठेच सापडणार नाही.

प्रत्येकवेळी तू भेटतोस ना तेव्हा तुझ्यात दडलेलं एक वेगळंच रूप सापडतं. तुझी प्रत्येक भेट वेगळी आठवण देऊन जाते. तसा तू खूपच समंजस. तुला तुझ्या जबाबदाऱ्या नेहमीच कळतात आणि त्या तू सावकाशीने निभावतोसही. कधीतरी मध्येच लहान मुलांसारखा खोडकर, लाडिक होऊन अचानक प्रकट होतोस अन् सगळ्यांची झांदल उडवतोस. मागे तर एकदा कधी नव्हे ते तुझं रौद्र रूपही दिसलं. तू अगदी बरसलासच! सगळ्यांना घाबरवून सोडलं होतंस. तुझा राग काही शांतच होईना. असं वाटलं होतं, आता हा करतोय आणि काय नाही, थोडा वेळ गेला आणि मग तू शांत झालास. पण प्लिज परत असं कधीही वागू नकोस हा, कारण त्यामुळे सगळ्यांचंच नुकसान होतं.

तुला परत जाऊन आता खूप दिवस झाले. किती दिवस तुझ्याशी काहीच संपर्क नाही. सगळेच खूप डोळे लावून बसलेत रे तुझ्या परतण्याकडे. अगदी चातकासारखे आतुर झालेत, तुझं स्वागत करायला; पण तुझा काही ठाव ठिकाणाच नाही. तुझी नुसती चाहूलही सगळ्यांना सुखावते. तू म्हणजे सगळ्यांचा अगदी जीव की प्राण. आम्हाला आता अजून वाट पहायला नको लावूस रे. सगळेच व्याकुळ झालेत तुझी एक झलक पहायला. माणसांकडून चुका होतात; पण आपल्या माणसांना आपणच माफ करून पुढे जायचं असतं, नाही का?

तू आमच्यासाठी एक शूर सैनिक आहेस. तुझ्याही विविध पातळ्यांवर लढाया चालू आहेत. तूही बदलांना सरावण्याचा प्रयत्न करतोयस. तुलाही आमच्याबद्दल ओढ आहे. आम्हालाही आमची चूक कळतेय हळूहळू. ही लढाई तुझ्या एकट्याची नाही, आम्ही सगळे तुझ्यासोबत आहोत. फक्त तुझ्यातला सैनिक असाच जिवंत ठेव. आम्हाला तुला विजयी झालेलं पहायचंय. प्रजेच्या सुखासाठी राजा सर्वतोपरी प्रयत्न करतो आणि आपल्या प्रजेचं रक्षण करतो. आमच्यासाठी तूच आमचा राजा आहेस. ताकद आहे तुझ्यात तापमान वाढ, प्रदूषण, दुष्काळ यासाख्या शत्रूंना मूठीत ठेवायची. तेव्हा हे पाऊसराजा, तुझं हे युध्द संपवून आपल्या मेघांच्या पालखीत बसून लवकर परत ये!

तुझी,
धरा

-निखिल पालांडे (टी. ई. केमिकल)

घारापुरी लेणी - एक ऐतिहासिक शिल्पाकृती

भारत हा विविधतेने नटलेला देश आहे, हे आपण प्रतिहेतून नेहमीच म्हणत आलो आहोत. एखादा प्रदेश हा जसा त्याच्या भौगोलिक वैशिष्ट्यावरुन ओळखला जातो, तसाच तो लोकप्रिय होतो, सर्वश्रुत होतो, ते तिथल्या इतिहासामुळे. जितका जाज्वल्य इतिहास, वितका तो प्रदेश लोकप्रिय असतो. अशा ऐतिहासिक गोष्टींमध्ये समावेश होतो, गडकोट, किल्ले, लेण्या, बेटे इत्यादी. पण आजकाल आपण या वास्तूकडे फक्त पर्यटनाच्या दृष्टीनेच पाहतो, सहलीचे ठिकाण म्हणून जातो आणि परत येतो; पण आपल्याला त्याबद्दलचा इतिहास माहितदेखील नसतो आणि तो जाणूनदेखील घ्यायचा नसतो. खरंतर सर्वात महत्त्वाचा हा इतिहासच असतो.

तर असेच एक पर्यटनस्थळ म्हणून लोकप्रिय झालेले, सोबतच उत्कृष्ट इतिहास असलेले एक ठिकाण म्हणजे 'घारापुरी लेणी'. मुंबईपासून ६-७ मैलांवर समुद्रामध्ये असलेल्या घारापुरी या लहान बेटावर, डोंगरात ही लेणी कोरलेली आहेत. ही लेणी भव्य आकाराच्या शिल्पांसाठी प्रसिद्ध आहेत. पाषाणांत कोरलेली ही लेणी इ.स.चे ९ वे शतक ते १३ वे शतक या कालखंडात निर्माण करण्यात आली होती. १९८७ साली युनेस्कोने या लेण्यांना जागतिक वारसा स्थानाचा दर्जा दिला. या लेण्यांच्या प्रवेशद्वाराजवळ एक प्रचंड आकाराचे हत्तीचे शिल्प होते, त्यावरुनच त्यांना 'एलिफंटा' असेही म्हटले जाते. हे शिल्प सध्या मुंबईच्याच, राणीची बाग या ठिकाणी हलवण्यात आले आहे.

'घारा' म्हणजे गुरव आणि 'पुरी' म्हणजे नगर. शिवमंदिरात पूजा करणाऱ्या पुजाऱ्यांना पूर्वी गुरव या नावाने संबोधले जायचे. अशा गुरव पुजाऱ्यांची वस्ती असलेले नगर म्हणून या बेटाला 'घारापुरी' असे नाव पडले. इथल्या लेण्यांत शैव परंपरेतील शिल्पाकृती असल्याने, पूर्वी गुरवांची वस्ती असणे शक्य आहे. दुसरं म्हणजे, 'घारा' हा शब्द किल्ल्यासाठी किंवा बुलंद तटबंदीसाठीही वापरला जातो. किल्ल्यासारखी तटबंदीची नगररचना म्हणूनही या ठिकाणाला, घारापुरी असं नाव पडलं असावं, असा अंदाज बांधता येतो. तसेच नंतर या बेटाचे 'एलिफंटा' असे नामकरण पोर्तुगीजांनी केले, ते त्यांना दिसलेल्या हत्तीच्या शिल्पावरुन.

एका अखंड पाषाणात एलिफंटा लेणी कोरण्यात आली आहेत. ज्या काळी पाश्चात्य देशांमध्ये मानवी वसाहतीचा मागमूसही नव्हता, त्याकाळी आपल्या भारतीयांनी इतक्या दुर्गम भागात इतकी अफाट कलाकृती निर्माण केली, ही खरंच खूप आश्चर्यचकित करणारे आहे. कोकणातल्या मौर्य वंशाची घारापुरी ही राजधानी असावी. त्यानंतर चालुक्य, राष्ट्रकूट, यादव आणि मोगल यांनी तेथे क्रमाने आपली सत्ता प्रस्थापित केली. सोळाव्या शतकाच्या पूर्वार्धात हे बेट पोर्तुगीजांच्या ताब्यात गेले. शिवाजी महाराजांच्या काळात ते मराठ्यांनी हस्तगत केले. सन १९७४ मध्ये त्यावर इंग्रजांनी आपले प्रभुत्व प्रस्थापित केले. तर असा आहे ह्या लेण्यांचा व बेटाचा इतिहास, जो ह्या लेण्यांतकाच रंजक आणि महत्त्वाचा आहे.

या बेटावरील डोंगरात एकूण पाच लेणी कोरलेल्या आहेत. येथील शिल्पकाम शैव संप्रदायाचे असून त्यात अनेक वेचक व निवडक शिवकथा कोरलेल्या आहेत. या कथांपैकी अतिशय वैशिष्ट्यपूर्ण अशी शिव-पार्वती विवाह, गंगावतरण, तांडवनृत्य, अंधकासुर वध इत्यादी दृश्ये अतिशय रमणीय असून, साक्षात शिवाचे जीवनच आपल्यापुढे दाखवले आहे, असे वाटते. तसेच अर्धनारी, महायोगी शिव, भैरव - महाबलाची मूर्ती अशा अन्य शिल्पेही आपल्याला स्तंभित करतात.

तेव्हा या सर्वांचा इतिहास जाणून घ्यायला व ते पहायला, त्यांचा अनुभव घ्यायला एकदा तरी ह्या लेण्यांना भेट द्यायलाच हवी आणि पूर्वजांकडून आलेला हा ऐतिहासिक वारसा, हे देणे जपायला हवे.

-आकाश पवार (टी. ई. बायोमेडिकल)

माय तू

जन्माची शिदोरी तू,
वासराची गाय तू,
नऊ महिने पोटात असणाऱ्या
चिमुकल्या जीवाची लाडकी माय तू .

तुझ्या संस्कारांची शाळा,
बालवयात सुरू होते
त्याचे धडे नीट गिरवले,
तर आयुष्य मार्गी लागते
लेकराने मोठं व्हावं, इतकंच स्वप्न उराशी बाळगतेस तू .
नऊ महिने पोटात असणाऱ्या चिमुकल्या जीवाची लाडकी माय तू

प्रत्येक दिवस तुझ्यापासुन सुरू होऊन,
तुझ्यावर येऊन संपतो.
एकदाही तू नसलीस,
तर दिवस अपुरा वाटतो.
इतकं सगळं अगदी हसत-खेळत सांभाळतेस तू,
नऊ महिने पोटात असणाऱ्या चिमुकल्या जीवाची माय तू.

घरकामात स्वतःला गुंतवून ठेवतेस तू ,
त्याचबरोबर ऑफिसची कामं तितक्याच जबाबदरीने करतेस तू .
सून, मैत्रीण, उद्योजिका अशा अनेक भूमिका साकारतेस तू,
नऊ महिने पोटात असणाऱ्या चिमुकल्या जीवाची माय तू.

जन्माची शिदोरी तू ,
वासराची गाय तू
नऊ महिने पोटात असणाऱ्या
चिमुकल्या जीवाची माय तू .

- शुभम साळवी
(एफ. ई. बायोमेडिकल)

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याद नही है..

खामोश है लब, चूप है नजर..
कुछ याद नही है..
था कुछ कहना आप से,
मगर याद नही है..

अंधेरी से लोकल में, जब चढ़ी वो मेरे साथ..
आगे का सफर बस अब याद नही है..
वाकिफ तो था, आपके दिल की हर गलियोंसे..
पर जब आपकी धड़कन बदली,
तब हमारे दिल की धड़कने, हमे याद नही है..

शाम से फिर सुबह हुई है..
मुझको खिड़कीमें बैठे रहने की, आदत हुई है..
लेकीन आपका वादा आज भी आपको याद नही है..
था कुछ कहना आप से, मगर याद नही है..

वह ज़िंदगी भी क्या ज़िंदगी होगी,
जिसमें ज़िंदगी ही ना हो..
कोई ग़म नही, और कोई शिकवा भी न हो ..
तेरी याद भी न हो, न तेरा कोई जिक्र हो..
फिर भी तुझसे मिलने की दुवा की है..
खामोश है लब, चूप है नजर..
कुछ याद नही है..
था कुछ कहना आप से,
मगर याद नही है..

-अभिषेक पांडे (टी. ई. केमिकल)

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गलत है

मिलना भी गलत है, मिलवाना भी गलत है
मिलाकर उनसे फिर, हसाना भी गलत है
जब लेहरानेही थे सफ़ेद झंडे दरमियाँ
तो खामोशी में फिर आँखें लड़ाना भी गलत है|

मुस्कुराना भी गलत है, शरमाना गलत है
सुलझी हुई लतों को फिर, उलझाना भी गलत है
हमें देख तुम्हारा मुस्काना अगर ना भी गलत हो तो
मुस्कान के सवालात पर, फिर यूँ गर्दन झुकाना भी गलत है|

पीना भी गलत है, पिलाना भी गलत है
बीच दौर-ए-जॉम में रूठ जाना भी गलत है
मेरी बेवकूफियों पर गुस्सा गलत हो न हो
पर फिर मेहफिशाँ नज़रे मिलाना भी गलत है|

कहना भी गलत है, छुपाना भी गलत है
बिन कुछ कहे, फिर लौट जाना भी गलत है
अगर, बना लूं इस मायखानें को अपना पता
तो कह दोगी, की ये मायखाना भी गलत है|

- हर्ष दुलानी
(टी. ई. इन्फॉर्मेशन टेक्नॉलॉजी)

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मिट्टी

मिट्टी के बने हम भी।
मिट्टी के बने तुम भी॥
मिट जाना एक दिन हमको भी।
मिट जाना एक दिन तुमको भी॥

या चिता बन कर जल जाओगे।
या क़फ़न बन कर गढ़ जाओगे॥
मिट्टी में तुम ऐसे भी मिल जाओगे।
मिट्टी में तुम वैसे भी मिल जाओगे॥

मिट्टी न बोले, "मैं हिन्दु की मिट्टी"।
मिट्टी न बोले, "मैं ईसाई की मिट्टी"॥
मिट्टी न बोले, "मैं मुसलमान की मिट्टी"।
मिट्टी तो बोले, "मैं हर इन्सान की मिट्टी"॥

जब मिट्टी ने न किया कोई भेद-भाव,
तो मिट्टी के पुतलों में क्यों यह कुःभाव?
क्यों मचाते हम देश के नाम पे आतंक?
क्यों करते हम धर्म की आढ़ में घाव?

क्यों हुए आख़िर इस मिट्टी के बँटवारे?
क्यों छूटे इतिहास के पन्नों पे रक्त के फव्वारे?
क्यों बिके मानव व मानवता;
कपट के हुए वारे-न्यारे?
सम्बन्धों व नक़्शों में दरारें पेश कर,
क्या मिला तुम्हे प्यारे?

पुष्प खिल-ते हिन्दुस्तान की मिट्टी पर भी।
पुष्प खिल-ते पाक़िस्तान की मिट्टी पर भी॥
सूरज उगे इस शमशान की मिट्टी पर भी।
सूर्योदय तो उस क़ब्रिस्तान की मिट्टी पर भी॥

मिट्टी से मिला अस्तित्व हमारा।
मिट्टी में ही है मिल जाना दोबारा॥
मिट्टी से ऊँचा उठने का गुरूर न कर।
स्वयं को मिट्टी से, मिट्टी को स्वयं से दूर न कर॥

मिट्टी के बने हम भी।
मिट्टी के बने तुम भी॥
मिट जाना एक दिन हम-को भी।
मिट जाना एक दिन तुम-को भी॥

- रोहन वासवाणि
(बी. ई. इलेक्ट्रॉनिक्स)

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सभ्यता, सिन्धयत

हा मां सिन्धी आहियां, मूखे सिन्धी हुजण ते नाज़ आहे इहो इनकरे नाहे त असांजी सिन्धी भाषा ऐं सिन्धी सभ्यता हजारे साल पुराणी आहे, जहिंजी साबिती सिन्धु जो मोहन जो दड़ो आहे, पर इहा सभ्यता तमामु सुठी, शाहूकार अऐं ऊची आहे।

मोहन जे दड़े जी खोटाई कंटे, उनजे हेठां जेके वेकरा रोड रस्ता, बज़ारियूं, रिशा सां ठहिपल घर, नालियूं ऐं बियूं रोज़ानी जिन्दगी अ में कमि ईंदड़ शयूं मिलियूं आंहिन, उन्हन खे दिसी इऐं समिझो वियो त हिते जा रहंदड़ सिन्धी माणिहूं महिनिती, वापारी, पड़िपल ऐं तमाम सुठे, शानदार नमूने रहदड़ हुआ।

इहोई सिन्धयुन जो विरसो ऐं संस्कार अजु बि सिन्धयुन में मौजूद आहिन। सिन्धी महिनिती आहिन, भिरवारी नाहिन। १९४७ में, जदहिं हिन्दुस्तान जो विरिहाड़ो थियो, तदहिं पहिंजो सब कुछु सिन्धु में छदे हिते हिन्दु में हथ खाली आया, हुनिन दिलि न हारी, पर पहिंजे मेहनत, अकुल ऐं दूरंदेसीअ सां पाणखे मथे चाढ़ियो ऐं पाण खे पाण वसायो। सिन्धी हरि फन में होश्यार हुआ ऐं अथा ताईं आहिन।

सिन्धी वड़ा बिल्डर आहिन, कारखानेदार आहिन, वापारी आहिन, वकील आहिन, इन्जिनेर ऐं डाक्टर आहिन, ऐक्टर, प्रोड्यूसर, डाइरेक्टर ऐं गायक कलाकार आहिन, हुनिन बिना कहिं सरकारी आरक्षण जे, बिना कहिं सरकारी योजना ऐं मदद जे, पाण खे पाण वसायो ऐं मज़बूत बणायो आहे। हू घणे में घणी इन्कम टैक्स सरकार खे दींदा आहिन, मदद कंदा आहिन।

हू दानी ऐं दयावान आहिन। केतिराई स्कूल, कालेज, इस्पतालू, धर्मशालाऊं ऐं आश्रम ठाराए, मुल्क जो मलो कयो अथनि। मूखे उमेद आहे त उहो दीहुं परे कोन्हे, जदहिं हू पाण में बधी करे ऐं हिक बिए खे मदद करे हिन दुनिपां ते राज्जु दा।

जय हिन्दु। जय सिन्धु। जप झूलेलाल।

-राज बथिजा.
(टी. ई. केमिकल)

सियाचिन ग्लेशियर

जमीन ऐरी बंजर ऐं ऐतरी ऊंची कि सिर्फ़ पक्का दोस्त ऐं कट्टर दुश्मन ही पहुँची सघन था, ईयो आप सिपाचिन ग्लेशियर। दुनिया जो सभनी खां ऊंची बर्फ़र्तीं जगह। अगर नाले जो मतलब समझणी जी कोशिश कयूं त सिया - मतलब गुलाब जो गुल ऐं चिन - जो मतलब घणी तादाद में, मतलब गुलाबन जी घणी तादाद वारी घाटी, पर भारत-पाकिस्तान जे सैनिकन जे लाए इन गुलाब जा कांटा कुझ वधीक ही चुभजन था।

सियाचिन जे चैनी तरफ़न खां सिर्फ़ ऐं सिर्फ़ ऊंचा पहाड ऐं गहरी खाई आहे। हिते न वण , न जानवर ऐं नाही कोई परिंदा आहिनि। चैनी पासन खां ऐतरी बर्फ़ आहे जो अगर मंजन जो ऊस पई ऐं केन जी अखियूनि में सिधी रोशनी वई त उहो अंधो थी सघंदो आहे।

असांजा जवान उते तंबु में रहंदा आहिनि। जहनखे गरम रखण जे लाए बुखारी जो इस्तेमाल कंदा आहिनि। जवान लकड़ी जे चौकी ते सुमण जी गोयरी (स्लीपिंग बैग) में सुमंदा आहिनि। जवान खे निंद पुरी न मिलंदी आहे छाकाण त उते ऑक्सीजन जी घटताई हुजण जे करे के जवान निंद में ही भगवान खे प्यारा धी वेंदा आहिनि। जवान दाढ़ी भी लाए नथा सघन छाकाण त चमड़ी ऐतरी नाजुक थी वेंदी आहे जे अगर कट जी वेई त घाव भरजन में घणो ही वक्तु लची वेंदो आहे।

१९८४ (1984) तांई सियाचिन ते का भी मिलट्री ताकत न हुई। पर भारत-पाकिस्तान जे झगड़े जे करे बिनी देशन पहिंजी मिलट्री तेनात करे रखी आहे। १९८४ (1984) खां सियाचिन ग्लेशियर पिघुलन चालु थी वियो आहे। सियाचिन खे मिलट्री जे रहण लायक जगह ठापण जे लाए ग्लेशियर खे रसायनिक जो इस्तेमाल करे कट्न था। नॉन-बायोडिग्रेडेबल किचरो घणी तादाद में वधी रह्यो आहे सियाचिन ते। बम, बंधूक ऐं ऊन जे धूएं सां उतां जे आबओ हवा ते फ़र्क पियो आहे। हिक जानकारी जे हिसाब सां भारतीय मिलट्री रोज १००० (1000) किलो जो किचरो साफ़ कंदी आहे। सियाचिन ग्लेशियर खे साफ़ रखण जे लाए " ग्रीन सियाचिन , क्लीन सियाचिन " ना

ले जो प्रोग्राम चालु कयो वियो आहे। सियाचिन घर आहे दुनिया जे कुझ नायाब जातीं जे लाए जीअं त - हिम तेंदुओ, भूरो भालू , औबेक्स जेका हाण मिलट्री जे हुजण करे खतरे में आहिनि।

ड़ीह भर ड़ीह सियाचिन ग्लेशियर पिघुले थो अगर ग्लेशियर खे बचायण जे लाए जल्द ही कुझ कयो न वियो त २०३० (2030) तांई ग्लेशियर जी लंबाई अध थी वेंदी।

सियाचिन ते बु नेशनल पार्क आहिनि। सियाचिन खे दुनिया जी हिक नायाब जगह ठायण जो प्रस्ताव भी आयो हो पर UNESCO हिन प्रस्ताव खे नाकारयो छाकाण त हिते हलंदड़ भारत-पाकिस्तान जी लढ़ाई ऐं वधंदड़ प्रदुषण जी तकलीफ़ जे करे।

मां पहिंजनि सभनी भाउ / बहण खे ईय प्रार्थना तो कयां की असां सब हिक कसम खणू कि असां हिन भारत-पाकिस्तान जे लढ़ाई खे खत्म करे दुनिया खे शांती वारी जगह ठायूं ऐं सियाचिन खे दुनिया जे नायाब जगह में शामिल कयूं।

हिक गाल याद रखण सभी माणू कि कहिंखे भी मारे करे फ़ायदो न आहे। अगर असां अखं जे बदलां अखं मारण-दासीं त दुनिया अंधी थी वेंदी। असांखे वासुदेव कुटमबकुम खे समझी पहिंजे ईंदड़ मुस्तकबिल खे सुठो ठायणो आहे।

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-जगदीश किशनानी.
(टी. ई. कॉम्प्युटर)

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Über die Bildung in Deutschland

Let me quickly introduce myself. I am Er (I feel proud to use this title). Pranav Majgaonkar, BE Chemical Engineering, a TSEC pass-out from the 2017 batch. I am currently pursuing my Master of Science in Chemical Engineering from Ulm University in Germany and that exactly is the reason why I have got this opportunity to feature an article in this section. So without beating around the bush much, let us understand the key facets of completing your MSc in Germany.

1. High Academic Standards

Irrespective of their ranking on the numerous ranking websites, German Universities are held in high regards across the globe. The innovation that is pioneered in Germany doesn't come out of thin air. They excel in being perfectionists. Needless to say, to earn this opportunity to study in a global innovation hub and to broaden the horizons of knowledge, you will have to pay a dear price. This won't be a monetary sum but a highly illustrious academic track with keen focus on internships, publications and participation in dignified competitions. Unlike other Universities across the globe, German Universities don't allow you to compensate for your disintegrating academic record with GRE and other competitive examinations. They are sheer worshippers of academic excellence and take pride in being so. Thus, aim for a German University, only if you have a rational faith in yourself to meet its academic requirements, while enrolling and also while undergoing the training.

2. Education System

The German Education System is funded by the government. This implies that, students, both bonafide and international, have a waiver from their tuition fees. While the state of Baden-Württemberg has imposed a tuition fees of 1,500 Euros per semester, the fees are still legitimate and differ drastically from its global counterparts. Since you aren't paying for your education, please don't expect specialized personal attention while pursuing your studies here. While the faculties are vividly talented and are always willing to lend a helping ear to each student, you really have to be self-motivated and substantially prepared to meet their expectations during those rigorous discussion sessions. German Education is pretty accommodative towards failures but any act of treachery and deceit will land you between the devil and the deep sea with no escape ropes. So, be honest, put in your best and the rest will be evident.

3. Expenses

This section is for all the parents who are already planning to mortgage their assets for the ambitions of their wards. Trust me, I belong to a typical middle class Marathi family and I assure you that, studying in Germany contradicts the taboo symbiotically associated with expenses and studying abroad. The living expenses vary depending upon the location of your University and the lifestyle of the student. A self-cooked meal, twice a day with occasional treats on every alternate week is not bound to supersede 150 Euros/month. As in regards to education, the German government is also considerate towards the health of its citizens and inhabitants. Thus, you have to pay a relatively hefty sum of 90 Euros/ month as a share of your health insurance. The rent in a typical student dormitory won't exceed 400 Euros/month (exceptions do exist). The overall estimate for your stay in Germany for two years exclusive of the tuition fees, if any, should typically fall in the range of Rs. 14 to Rs. 16 lakhs. While working as a Research Assistant is advisable and is most sought too, there are other ways in which one can finance your stay in Germany. Though such jobs are not recommended during the first semester of your course, you can work for as long as 20 hours per week in the other three semesters.

Europe has always been an attractive travel destination. With a Schengen VISA at your disposal, studying in Germany allows you to travel across Europe. Can education get any better than this? Please note:

1. It is a myth that you would require German language proficiency to ease your stay in Germany. The country has grown cooperative towards international inhabitants and hence, there is an increase in the English taught programs. You would need to know elementary German (A2 is sufficient, unless a higher grade is required by your University of choice) in order to facilitate your daily life.

2. You won't need a counselor to pursue your dream to study in Germany. The application procedure is quite relaxed and if you are self-motivated, it would be a cake-walk. So save the counselor fees for your first trip in Switzerland, once you arrive here!

In a nutshell, it is a privilege to embark on this stimulating learning odyssey in Germany and I wish you ALL THE VERY BEST for it!

-Pranav Majgaonkar
(Batch of 2017)

Start up Stories

What exactly is a startup?

It's a starting step for a venture to be. So, you have a great idea, you shared that idea with a couple of your best friends, they loved it and you guys plan out overnight what should be done about it and bam! Here's your startup! No, it isn't. Why, you ask? Well, I did the same! All I have learned in the last 3 years with Tux Foods (my startup), I learned most of it after failing a lot of times.

Many of you aspiring entrepreneurs, must have a lot of questions about your career. For instance, when shall I pursue entrepreneurship? What exactly is an entrepreneur supposed to do?

To have a clearer idea, you need to get the answers to the following simple questions:

a) Is a job a financial necessity for you?
b) Do you really love the field of the job you are searching for?
c) Do you think that you will be satisfied with some steady income every month?
d) Do you think that you will be happy with that life from the beginning of your career?

If most of the answers to the above questions are 'Yes!', take that job.
And if no, then think about entrepreneurship.
If you're resolved about starting up, these are some points to think of initially:

1. If you have some service or product idea you think can be implemented to solve a problem. Check if it's already out there. If it is being implemented, do some research on how it is being implemented, search for how scaled up the idea really is, and is it available locally?

2. If it is available locally, is there any way you think that it can be improved (best example here is Foodpanda and Swiggy).

3. If not, try and get the answer to why it isn't.

4. Whatever idea you have, talk to somebody in the industry and you will be amazed to get insights about your idea from an industry expert.

These points will help you understand if your idea is viable or not.

Also, one very important aspect in a startup is FUNDING. Never start something just to seek investment from the market. It never works that way. Build your product so strong that your consumer response should make the investors want to invest in your startup.

But for starters, Bootstrapping is the way to go. This way, all your mistakes are on a smaller level, and these experiences will make you more successful. On a personal note, I've never worked in a professional organization. I missed being exposed to how conglomerates think and work. Professional high achievers are folks I haven't been groomed by. When young grads (or failed entrepreneurs) ask me what they should do next, my suggestion is to "get a great job & learn". Why? Because according to Mr. Alok Kejriwal or rodinhood.com:

1. Great Companies are gigantic 'orchestras' of people of the most diverse backgrounds who have assembled together to make beautiful things. You must be exposed to more experienced awesome people to plot your own growth.

2. Big Companies have big problems, especially politics, inefficiencies & lethargy. YET they manage to remain profitable. You need to understand what MATTERS. Often Startup entrepreneurs miss the woods for the trees.

3. Understanding MARGINS & profitability is the biggest lesson for startup entrepreneurs.

Where else can they learn this other than Fortune 500 Companies? Also, keep in mind these two very important things.

1) TEAM is one of the most important things to move ahead in your entrepreneurial journey, without a proper team, it would be very difficult to achieve what you desire.

2) NEVER depend on just one person, or one source for any of your projects. Always keep a couple of options with you (from my own disastrous experiences).

If and whenever you do start something of your own, your friends and family are the ones you should go to first for getting some help. This is the start of networking which you need to do throughout your life.

On a last note, FOLLOW YOUR GUT.

Even if you aren't successful initially, you will gain a tremendous amount of experience.

The definition of success lies in failures.
Cheers!

- **Gaurav Takrani**
(Batch of 2014)

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Nostalgically Yours!

Reminiscences of a TSEC Alumnus

Its been 6 years since I graduated from TSEC. Depending upon which side of life's unforgiving speed you lie on, that might seem like close to a decade, or just like yesterday! In my case though, when I put things in perspective, TSEC seems like another lifetime. One that I vividly remember and miss! While life has been kind to me post my Chemical Engineering days in the 'Old Building', my rendez vous with TSEC was unbelievable. Some words that come to mind when I think about the experience, are unique, eclectic, different, amazing! Given a chance, I'd happily flip most things in life to get back to it.

Throughout my time in TSEC, I was fortunate to have had the opportunity to get tremendous exposure. Back in my times, TSEC probably had the most bustling extra-curricular environment in all of Mumbai University. So much so that Vir Das, during one of his gigs at TSEC said that the college has more festivals than India does! This was quite close to the truth I must say! And I was glad to have been at the epicentre of all of this.

My association with the Management Society-TSEC (MS-TSEC) from the day I entered college and the Chemical Engineering department were two things that were instrumental for me. Having been the chairperson of the society in my third year, my team organized CARMA 2011 which was among the biggest festivals in Mumbai University back then. The whole process of organizing a festival and running a society is probably the biggest lesson I learnt at TSEC. It has helped me develop leadership qualities and organizational skills that have been integral in my professional life as I run my own enterprise today. I am extremely fortunate to have spent 4 years there, the department especially offered us a plethora of opportunities. I am lucky to have been a part of it as well and each of these experiences played a major role in helping me secure the gold medal at the end of my four years at TSEC.

Post my graduation from TSEC, I decided to pursue my passion in the field of skill set development training and public speaking. I founded my own start up called SkillSphere Education which is based out of Mumbai. It conducts a range of skill set development programmes for students in schools and colleges across India. It has grown over the past 5 years into an organization with over 20 employees conducting workshops for over 50000 students in schools across India. One of the major factors that allowed me to expand into this field and begin my own enterprise, was the 'society' experiences at TSEC and my participation in numerous extra-curricular activities in colleges across India during the period. It really helped me broaden my outlook and gain perspective. After consolidating operations at my organization, I decided to pursue a Masters in Energy Economics and Engineering at Cornell University, USA in 2017. I was always interested in the field of sustainability and having received the opportunity to go to an Ivy League college, I did not want to miss the chance. While it was a very intense year managing my company in India and also pursuing my Masters, It is was another unforgettable experience. The whole method of teaching and learning is quite different in the US and I was really able to refine my skills further as a Chemical Engineer. It has opened up new avenues in the field of renewable energy for me. Post my return from USA in June 2017, I have also been consulting for a company called SunFund which is in the field of solar energy and its development across India. I do hope that if everything goes as per plan, my next start up will be in the field of energy and sustainability!

To conclude, if I were to give some 'words of wisdom' to chemical engineering students at TSEC, it would be to understand what field of the broad subject are you interested in. There are tons of opportunities but only in areas of specialization – petroleum, surfactants, renewables etc. Work well on your B.E project as that's one of the things that also decides your future course. Its importance goes way beyond the marks that your project guide gives you.

To all engineering students, my advice would be to gain as much exposure during engineering college as possible! Whenever people ask me what do I think about my life at TSEC, I often tell them that according to me, more than anything else engineering is the best personality development course! We learn how to do things at the nth hour, develop the knack to get things done, and also get exposure to such co-curricular skills as the MS-TSEC offered me.

Lastly, enjoy every moment of your life at TSEC. Because once you leave, life on the other side is nowhere close to as fast and eclectic! I wish I could be back to it! Its truly been a pleasure writing for a magazine I was once the editor of. I wish all TSECites the very best!
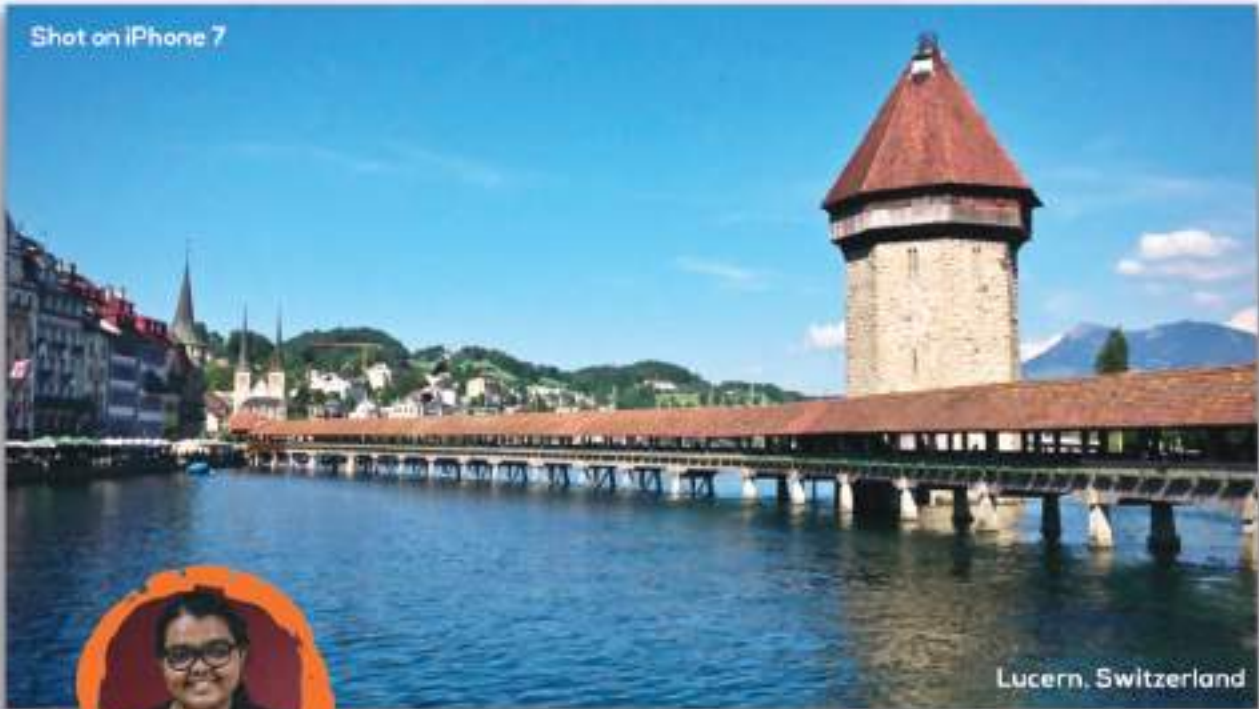
Nostalgically Yours,
Anansh Prasad
(Batch of 2013)

PHOTOGRAPHY

PHOT⊙GRAPHY

Shot on iPhone 7

Lucern, Switzerland

Siddhi Gaiki, FE Biomedical

Shot on Canon EOS 500D
10-20 Wide angle lens

Koyna Backwaters, Satara

Shardul Prabhu, TE Chemical

Shot on Canon EOS 1200D
18-55mm Zoom Lens

The Golden Temple, Amritsar

Chinmay Patil, FE IT

Shot on Asus Zenfone 5

Kandill Gali, Mahim

Deep Kanakia, BE Chemical

Shot on Canon EOS 1300D

Myanmar Gate, Igatpuri

Aayush Makharia, SE IT

Shot on Nikon D500
Sigma 70-300 APO

Lake Nakuru Game Park, Kenya

Apurv Vaidya, SE Biotechnology

Shot on OnePlus 2

Sabarmati River, Gujarat

D Pranita Rao,
TE Chemical

ARTWORK

ARTWORK

Raj Bohra, S.E. Computer

Jatin Valecha, B.E. IT

Faizah Ansari, T.E. Biomedical

Sohail Khan, S.E. Chemical

Shubham Bakshi, B.E. Computer

**Poonam Soni,
Lecturer, Applied Mathematics**

Medha Somalwar,
Associate Professor, EXTC

Alishka Garg,
T.E. Biotechnology

Yashashree More,
T.E. Biomedical

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BIOTECH

Taxonomic classification of vertebrates and invertebrates is one of the most important and challenging method for biologists. Previously, special morphological features, ecology, reproductive isolation, or behavior were observed in order to classify a given specimen. In some cases, a trained technician could make routine identifications using morphological keys, but in most cases an experienced professional taxonomist is needed. If a specimen is damaged or is in an immature stage of development, even specialists may be unable to make identifications. Hence, to overcome this problem, in 2003, Paul Hebert, researcher at the University of Guelph in Ontario, Canada, proposed "DNA barcoding" as a way to identify species. Barcoding uses a very short genetic sequence from a standard part of the genome the way a supermarket scanner distinguishes products using the black stripes of the Universal Product Code (UPC). This new technique requires the generation of a barcode library to match with the sample specimens, in order to identify their species'.

Barcoding uses a very short genetic sequence from a standard part of the genome the way a supermarket scanner distinguishes products using the black stripes of the Universal Product Code (UPC). This new technique requires the generation of a barcode library to match with the sample specimens, in order to identify their species". Our project aims to enrich these libraries with the barcodes of select species of fish and shellfish that have little or no representation.

Mentor: Prof Pallavi Bhalerao
Students: Suhasini Lulla, Simran Kushwaha, Reeti Prajapati

BIOMEDICAL

There are differently abled people who have some obvious problems that make them feel that they are different and which makes them feel very difficult when they want to communicate with the rest of the normal world. Deaf and dumb people cause serious problems when sharing their feelings to the people who cannot understand their Sign Languages.

Motion of any body part like face, hand is a form of gesture. Gestures are performed by deaf and dumb community to perform sign language. Sign language is a communication skill that uses gestures instead of sound to convey meaning simultaneously combining hand shapes, orientations and movement of the hands, arms or body and facial expressions to express fluidly a speaker's thoughts. Signs are used to communicate words and sentences to audience. A gesture in a sign language is a particular movement of the hands with a specific shape made out of them.

This project aims to lower the barrier in communication between the deaf and dumb and normal people. It is based on the need of developing an electronic device that can translate sign language into speech in order to make the communication take place between the mute communities with the general public possible. A Wireless data gloves is used which is normal cloth driving gloves fitted with flex sensors along the length of each finger and the thumb. Mutepeople can use the gloves to perform hand gesture and it will be converted into speech so that normal people can understand their expression.

The Smart Glove Interpreter needs to be worn on the hand by the disabled and depending on the variation of the movements; the device will convert it intelligently into voice and in a text. This message will be out from the speaker and LCD display. The glove senses the movements through the flex sensors which detect the different patterns of motion. The device can sense carefully each resistance and each movement by the hand.

Mentor: Dr.Mita Bhowmick
Students: Bhavi Shah, Sneha Nair, Juilee Wani

CHEMICAL

Over the past few decades, waste management and the impending energy crisis have assumed significant importance. A novel and proposed solution is the implementation of two novel approaches to mitigate the problem – Microbial Fuel Cells and production of Biodiesel from Municipal Waste. Microbial fuel cells (MFCs) offer a novel method for treating wastewaters and simultaneously producing electricity. A microbial fuel cell (MFC) is essentially a bioreactor that converts chemical energy present in the chemical bonds in organic compounds to electrical energy by means of catalytic reactions of microorganisms under anaerobic conditions. It has been known for many years that it is possible to generate electricity directly by utilising bacteria to break down organic substrates. Along with this application, MFCs can also be used in wastewater treatment facilities to break down organic matters. They have also been studied for applications as biosensors such as sensors for biological oxygen demand monitoring. The results of the experiments performed on a dual chamber microbial fuel cell used to treat dairy water have also been included in this poster. The pursuit towards a sustainable and greener alternative solution to fossil fuel has facilitated research options leading to biodiesel production. This poster presents the financial feasibility using organic solid waste as a feedstock, which results in the production of biodiesel through the conversion of volatile fatty acids into lipids (VFA). As a result, based on current references of capital and operating costs, production and extraction yields for VFA and lipids and an internal rate of return of 15% in real terms, it can be concluded that biodiesel production is competitive compared to subsidized biodiesel traded in regions of Europe and the United States.

Mentor: Dr. Sadhna Purohit
Students: Saransh Jain, Vatshal Bhanushali,
Atharv Deshpande

COMPUTERS

In today's time, most people are health and fitness conscious. They all wish to lead a healthy and fit life. Hence, many of them look out for online resources to manage and maintain their health and fitness since such resources are easy to use, time-saving and efficient. The use of image processing has been tremendous in the field of medical science and diagnosis. The proposed application makes use of this technology to enable the users to know about their health and fitness on a regular basis. The proposed application helps the users to keep a track of the various parameters related to their fitness and record the fluctuations. Hence, the users can accordingly maintain their fitness. The application enables the users to calculate their heart rate, respiration rate, blood pressure and oxygen saturation. It also enables users to maintain their fitness by calculating the steps taken, body mass index, calories burnt and also by keeping a track of the weight loss or gain. Lastly, it generates a report containing diet plans and fitness related information for the user as and when required. Hence, the application not only gives the users information related to their health and fitness, but also provides a diet and health maintenance schedule in the form of a report. The proposed system is developed using android programming and is divided into modules for ease of access for the user. The heart rate, respiration rate, blood pressure and oxygen vsaturation modules are implemented using image processing and the other functionalities like calculation of steps, calories burnt and body mass index are implemented using predefined formulas and algorithms. There are existing systems today which enable a user to manage their fitness related activities, although, the proposed application is an integration of the existing systems.

Mentor: Prof Seema Kolkure
Students: Rohit Singh, Jitesh Kale, Zainab Delawale

Signal processing ranks among the most demanding applications of digital design concepts. It is a mature technology domain wherein the demands for enhanced performance and reduced resource utilization have risen exponentially over the years. The aim of the project involves the development of FIR filters on Field programmable gate arrays (FPGAs) using IP cores. The advantages of the FPGA approach to digital filter implementation include higher sampling rates than are available from traditional DSP chips, lower costs than an application specific integrated circuit (ASIC) for moderate volume applications, and more flexibility than the alternate approaches. Since many current FPGA architectures are in-system programmable, the configuration of the device may be changed to implement different functionality if required. This describes an approach to the implementation of digital filter based on field programmable gate arrays (FPGAs) which is flexible and provides performance comparable or superior to traditional approaches, low-power, area-efficient re-configurable digital signal processing architecture that is tailored for the realization of arbitrary response Finite impulse response (FIR) filters.

Mentor: Prof Neeru Pathak
Student: Rohan Nalavade, Gurkiran Singh Bhatia,
        Harsh Rathore

INFORMATION TECHNOLOGY

Manufacturing process / project management experts responsible for large scale automotive manufacturing process. This project aims to analyze the effectiveness of applying Software Engineering Principles to Automotive Manufacturing Industry and then use the analysis as a basis to map software engineering techniques to the automobile manufacturing process in order to have a positive impact on efficiency, cost and time to market. Upcoming manufacturing companies looking to zero in on an effective model as a basis for beginning their manufacturing process. Application of Software Engineering Principles such as Agile Development, Scrum and Extreme Methodology has increasingly gained momentum as the next big step in automotive manufacturing. These principles may prove to be critical in improving the overall efficiency and productivity of automotive manufacturing giants. The most common process framework that applies Agile methodologies is known as Scrum. It is widely praised for its usefulness in greatly increasing the productivity, efficiency, and quality of the work of software development teams. The paper goes on to describe the basics of the Scrum approach in the traditional sense and how it has been the forerunner of the software development industry by mapping benefits to the hardware development process. Still, many Scrum teams have found success in using Agile methodologies for the purposes of hardware development. This document serves the purpose of describing the basic building blocks of the Scrum framework and exploring the challenges and benefits of applying it to hardware development. Paper shows essential statistics on how Agile is being increasingly adopted and accepted with the prime reason being increase in efficiency. Over 70 percent of interviewed R&D managers considered the desire to decrease time to market and cost pressure as the driver for the implementation of agile approaches. A multitude of agile development approaches exist. However, across all studied automotive companies, only Scrum is currently applied. Agile is above all a mindset that is supported by principles and methods. Moving away from the traditional development approach is commonly viewed as a "MUST" to manage the rising complexity and constantly growing pace of changes. Agility is a competitive weapon for automotive companies; however, the principles from the Manifesto and methods need to be tailored to the constraints. Agile are very ambivalent. On the one hand it is seen as the silver bullet that will solve all our software problems while, on the other hand, there is a very strong negative apriori attitude that it is not applicable to Automotive. Using the Experiences and Lessons Learned with agile adopters built up new organizations almost from scratch, taking into consideration current trends, including Agile. So basically it proves how the adopter perceives and utilizes Agile to make it useful for his project.

Mentor: Prof Kumkum Saxena
Students: Abhishek Malik, Anmol Mehta, Mrunmayee Kode,
Sagar Rijhwani

STUDENT OUTREACH PROGRAM BIOTECHNOLOGY

Biotechnology is a broad and interesting discipline, but we realised that we, as students of this esteemed branch didn't have enough opportunities to showcase our talent in front of the world. However, we were determined to not get deterred by this fact but to take this as a challenge and create a pedestal for all the students of Biotechnology and allied branches. At this point we must agree that the challenge was a thorough one and it took a lot of team work, dedication, structuring and coordination on our part to organize an event like the CHEMTECH Student Outreach Program Biotechnology 2018. This was for the very first time that such an event was organized anywhere and we are elated to inform you all that this entire event was conceptualized by us, the students of TSEC. We faced many obstructions through out our journey but conquered all of them to put up a phenomenal event. Due to the response that SOP Biotech 2018 received, our patrons at Jasubhai Media Pvt. Ltd. are helping us arrange another event of even greater proportions in the form of SOP Biotech 2019, scheduled to take place in concurrence with the CHEMTECH World Expo - BioPharma. This experience has given us tremendous exposure and has edified us in ways we couldn't even begin to imagine a year ago. We would like to thank our Principal Dr. G. T. Thampi for allowing us to organise SOP Biotech 2018; Mr. C. S. Kulkarni, our Head of the Department for helping us at various stages and all our faculty members at the Department of Biotechnology, TSEC for their continued support. We would also like to thank our mentors at Jasubhai Media Pvt. Ltd., Ms. Mittravinda Ranjan and Mr. Hemant Shetty, with out whom this event wouldn't have been possible.

-Team SOP Biotechnology

SMART INDIA HACKATHON 2018

Smart India Hackathon 2018 was the world's largest Hackathon, a nation-Building Digital Initiative of the HRD ministry. Initially an online idea selection round was held. Two teams were selected to participate in the finale from TSEC - out of which our team, The Skeptics, had our centre in Bangalore, at the Sri Venkateshwara College. Our problem statement included building a login and file upload system secured using asymmetric key cryptography in .NET for the Ministry of Defence. We began working on the same when we got selected for the finale, approximately a month prior, completing a prototype of our system.

The event started with a live opening ceremony held concurrently across all the 28 centres. There were three rounds of evaluation: first day evening, second day morning and second day afternoon. The first round, we presented our idea and a few of our features. Around this time, PM Narendra Modi had a live chat with students at some of the centres, including one team at Bangalore. By the second round, we had almost completely implemented our website, and gave a live demo of the site. The judges told us to add more features (digitally sign multiple files and I don't remember the other) and we managed to implement one of it (again don't remember for sure). Unlike other teams though, we had to face one more round of judgement before selection for the final round! Evidently the judges had decided that it was a tie between us and another team with the same problem statement, and sent a third judge to evaluate both the teams. Unfortunately for us, it was the other team who got selected for the final round. We were disappointed that we weren't able to make the final round, but we still learned a lot from this experience. Tips for anyone who wants to participate next year:

- Submit more ideas if possible in the idea selection round to increase your chances of selection.
- Different centres have different judges who may evaluate your ideas differently but the scheduled format is generally followed. At our centre, judges were willing to listen to us for more than the specified amount of time in the schedule.
- Remember, presentation is key! While technical details should still be kept ready for your presentation, you are more likely to have a non-technical judge.

A special shout-out to our mentors, Ms. Nabanita Mandal and Ms. Juhi Ganwani who guided us throughout the competition and Ms. Tasneem Mirza for co-ordinating everything for us.

STUDENT OUTREACH PROGRAM CHEMICAL

"The CHEMTECH Student Outreach Program or SOP as we like to call it is organised by the CHEMTECH Foundation under the patronage of Jasubhai Media Pvt Ltd. Up until 2018, it used to be a biennial event organised only in Mumbai. SOP'18 was the first time SOP was organised in any city other than Mumbai and we're immensely glad to have been a part of such an incredible phenomenon. We were a team of 12 Chemical Engineering undergraduates from colleges all over Mumbai. Everything from finalising the events, to recruiting judges was our responsibility and it gave us a tremendous amount of exposure. The work used to get a bit overwhelming sometimes, but it was all worth it in the end when we hosted 600 students per day for our Flagship Event (Icon Lectures), 80 posters from all over the nation in Poster Presentation Competition and 12 Ideas for the Industry Defined Problems session. We helped a lot of students receive internships in reputed firms from Gujarat through our Internship Initiative. SOP'18 has truly taught us the value of dedication, time management and teamwork. Being engineering students, we tend to concentrate more on our academic growth, but SOP'18 gave us an exclusive opportunity to enhance our managerial skills while being connected to our Chemical Engineering roots. All in all, it taught us to multi - task and develop our improvisational skills. It also provided us with a platform to meet and interact with many stalwarts of the Chemical Industry and get first hand inputs on what is the current scenario in the industry and what recruiters expect from us freshers. We had a similar experience with SOP Nuclear which was organised in Vashi, Mumbai. Albeit a comparatively small endeavour with just one event, it taught us a great deal about networking with people and working under extenuating circumstances. We would like to thank our coordinator Ms. Mittravinda Ranjan ma'am, who guided us through the toughest of times in the most elegant manner. We also thank Mr. Hemant Shetty and Mr. Maulik Jasubhai for giving us this opportunity. We would like to thank the Chemical Engineering Department of TSEC, for helping us out in managing our academics while pulling off this great feat."

Signing off
Team SOP'18 (Gujarat Edition)
TSEC Sub-Division

SMART INDIA HACKATHON 2018

"When we found out that our application for the Smart India Hackathon 2018-Software Edition had been selected, we could not contain our excitement. Little did we know how life changing this opportunity will be. Barely a month later, were we in Noida, seated on our respective tables working on our project.

The first round of mentoring, which took place at 10 AM, consisted of a casual but insightful conversation with a Government Official who told us his expectations. Soon, at 2 PM, the First Round of Judgment began during which the Judges told us to speed up.

Later that evening, we decided to enjoy a bonfire in the breezy weather, but we knew we had work to complete, so left soon enough. We got back to our work and took turns sleeping that night. Barely a few hours had passed and we were already up and coding. The AICTE representatives advised a few more changes and by the Second Round of Judgment, our front and back ends were prepared. The judges were so impressed that one of them gave us his Business Card. Now all that we were left with was collaboration of the front and back ends.

We worked on our code but the collaboration didn't go by as planned and due to the lack of time, we were unable to present a complete project. Expectedly, the top 10 teams did not include our name. We weren't very upset because we had learnt a lot more than only coding in these past few hours. We met new people, learnt their way of lives, learnt time management and realized the importance of teamwork. We may not have won, but we learnt life changing lessons and that, in itself, is a win."

TECHNICAL PAPER WRITING

A technical paper is a document that describes the process involved, progress status, the results obtained and conclusion of a technical or scientific research problem. Technical poster is a pictorial representation of the research paper, which aims to give a general outline of the entire research paper. Generally at the undergraduate level, technical papers are classified into two broad categories, as far as paper presentations are concerned – research papers and review papers. Research papers include original research work carried out by the students, whereas review papers comprise of an amalgamation of information from various sources of literature within a very specific topic, with the aim of updating the readers about the current trends and advances of a particular technology. In paper and poster competitions, first and second year students generally try their hand by presenting review papers, but pre-final and final year students are expected to showcase the research which they have done during their internships or as minor/major projects. Not only do these competitions help in building a stronger Résumé for jobs or higher studies, but these events provide wonderful networking opportunities to build a strong professional network and interact with peers sharing common research interests. The general flow of any technical paper is as follows -

1. Introduction
The introduction serves a twofold purpose. Firstly, it gives the background and motivation for your research, establishing its importance. Secondly, it gives a summary and outline of your paper, telling readers what they should expect to find in it. When you write the background review, you should consider including technological trends of the area, open problems and recent promising developments. Close your introduction with a general overview of your paper, what do the individual sections contain and what the reader will find in each. After completing the introduction, readers will decide if they want to continue.

2. Related Work
The purpose of the related work section is the most misunderstood by young authors. Therefore, it is important to pay extra attention in writing this section. Similar to the introduction, the purpose of the related work is twofold. First, it gives a list of research works that are related to your paper—necessary to show what has happened in this field. Secondly, it provides a critique of the approaches in the literature—necessary to establish the contribution and importance of your paper.

3. Problem Statement
State your problem clearly. Be as exact as possible in stating what the question of the problem is. It reflects poorly upon an author if he cannot describe or does not know what problem his solution addresses. But most importantly, it will be easier for successive researchers to classify your work.

4. Solution
You should begin this section by providing an overview of your solution. Give a good explanation of its rationale, concepts and mechanisms. If your solution relies on a theorem or some other undocumented concept, make sure that you explain them before you move on to the detailed description. The main part of this section is the thorough description of the solution and its functionality. The description should not contain arguments on validity or design decision debates; simply, describe the mechanisms of your solution and avoid explanations of the "why so" type. Dedicate a separate paragraph or two on the latter, if you deem necessary.

and why you have selected the specific metric. Choosing a metric that has been widely used will make the comparison to other solutions easier.

5. Analysis

Analysis can be of two types: qualitative and quantitative. The former means to show some properties (qualities) of your solution, while the latter means to show some performance aspects of your solution. Qualitative analysis is usually proof of correctness; however it could be proof that the solution possesses some desired property. For algorithms or protocols, a proof of correctness is always welcome. Quantitative analysis is mostly performance analysis. It is important to explain what performance metric you use and why you have selected the specific metric. Choosing a metric that has been widely used will make the comparison to other solutions easier.

6. Simulation and Experimentation

Depending on your budget and available time, you may have performed simulations or even some experiments. In either case, it is important to describe the environment of your experiments or simulations. This includes stating the parameters and conditions of the environment (simulated or real), what measurements were taken and how they were taken. You need to establish the fact that your simulation or experiment results are statistically stable, meaning that they are representative of the space of all possible results. Performing experiments and simulations is a serious matter, always putting the validity of your data at risk in many aspects. Before you perform the simulation or experiment, educate yourself on how to perform simulations, how to interpret the results and how to present them in graphs and figures. Each figure (or graph) should be well explained. Dedicate at least one paragraph for each figure. Describe what the reader sees in each figure and what he should notice. Moreover, reason on the results—are they the way they were expected to be? Avoid giving tables of numerical data as means of presenting your results.

7. Conclusions

The conclusions section, similar to the introduction and related work sections, serves two purposes. The first is to elaborate on the impacts of using your approach. The second is to state limitations or disadvantages of your solution, thus enabling you to provide direction for future research in the field.

8. Bibliography

Use a bibliography utility to generate the bibliography. Do not hesitate to include textbooks in your bibliography; mention them in the introduction or in the related work section.

9. Citations

Citations or reference are the sources from which some information is derived. Spend the effort to make all citations complete and consistent. Do not just copy random inconsistent entries from the web and call it a day. Check your final bibliography carefully and make sure every entry looks right.
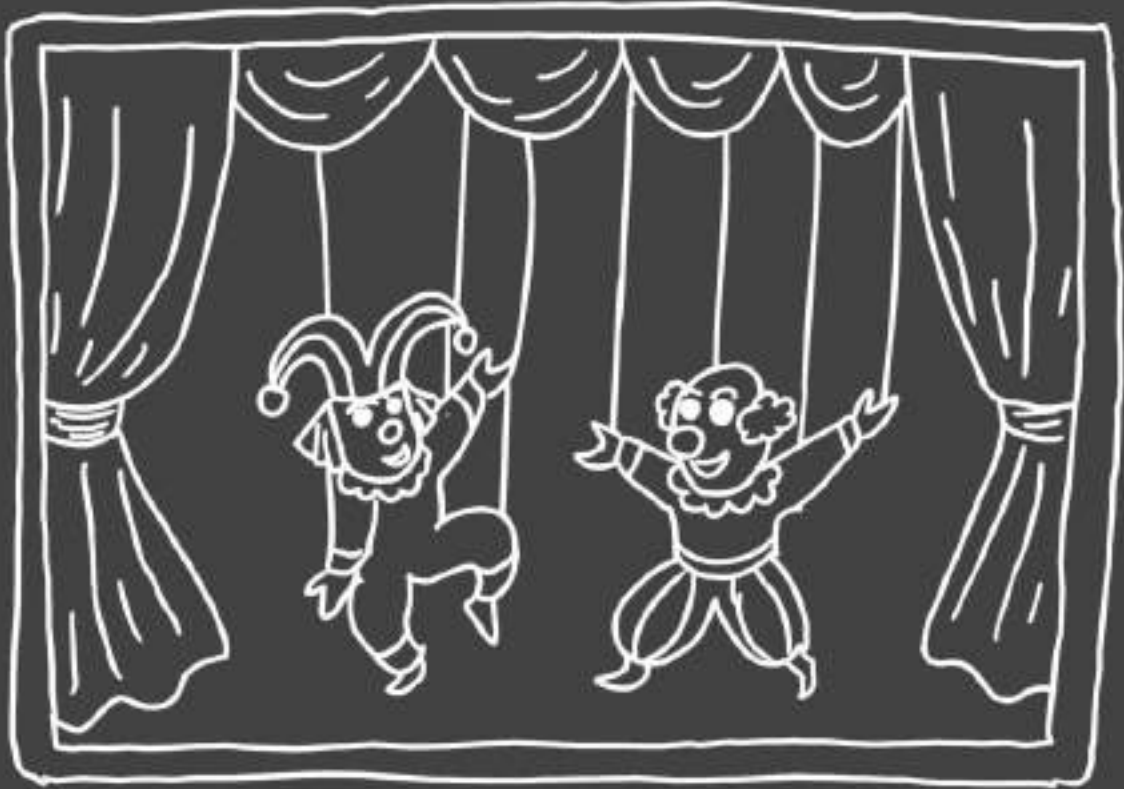
As strenuous as it is to write a technical paper, it is equally rewarding as well. It expands your horizons in the practical and technical aspects of your domain.

Happy learning!

- Vatshal Bhanushali
(BE Chemical)

THE MOTH AND THE STAR

Synapse 2018 is happy to present to you a unique artistic offering, a graphic retelling based on the story 'The Moth and the Star', by James Thurbur, a story that gives flight to one's imagination and dreams. We thank Rishabh Laheja (TE Computers) for the exquisite illustrations of not just this story, but also the Individual Section Dividers and the Cover Page of the magazine. We also thank Miloni Vasa (SE IT), who brought the comic to life with vivid colours and paint. Lastly, we acknowledge the efforts of Nikhil Kotian (TE IT) and Neha Makhija (TE Computers), who adapted the original story for a comic format.

Rishabh Laheja   **Miloni Vasa**   **Nikhil Kotian**   **Neha Makhija**

PUZZLE

A group of people with assorted eye colors live on an island. They are all perfect logicians -- if a conclusion can be logically deduced, they will do it instantly. No one knows the color of their eyes. Every night at midnight, a ferry stops at the island. Any islanders who have figured out the color of their own eyes then leave the island, and the rest stay. Everyone can see everyone else at all times and keeps a count of the number of people they see with each eye color (excluding themselves), but they cannot otherwise communicate. Everyone on the island knows all the rules in this paragraph.

On this island there are 100 blue-eyed people, 100 brown-eyed people, and the Guru (she happens to have green eyes). So any given blue-eyed person can see 100 people with brown eyes and 99 people with blue eyes (and one with green), but that does not tell him his own eye color; as far as he knows the totals could be 101 brown and 99 blue. Or 100 brown, 99 blue, and he could have red eyes.

The Guru is allowed to speak once (let's say at noon), on one day in all their endless years on the island. Standing before the islanders, she says the following:

"I can see someone who has blue eyes."

Who leaves the island, and on which night?

Directions to solve:

There are no mirrors or reflecting surfaces, and this is not a trick question. The answer is logical. It does not depend on tricky wording or anyone lying or guessing, and it doesn't involve people doing anything like creating a sign language or making use of genetics. The Guru does not make eye contact with anyone in

CRYPTOGRAPHY101

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---------- -- - ------ ---- ----- --- --- ----
REAHWGTQA TU M VEAMZ ZTNA UMJAE OIW QMD LIEN

--------- ------- ------ -- --- --- -----
IRTDTIDU XTZPIWZ FMJTDV ZI VAZ ZFA LMQZU
               - E.B. White
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---------- -- ------- ---- ---- --- ----- --
FMGRDPLL RL LDESURDB AEZP SUMD SUP UMVRS EI

-------- ------ --- --- -----
ZFLSRDB VPIEZP KEJ BPS SRZPC
               - Jules Reynard
```

RULES : The above two puzzles are substitution ciphers. A phrase has been encrypted and needs to be solved. The key to solving those is to find which letter has been substituted for which other letter. The substitution remains constant throughout. For instance if 'S' has been substituted by 'Y' every occurence of 'Y' should be read as 'S'.

Switches and Lights

There's a standard filament-type light bulb in a closed room upstairs. It is controlled by one of three standard on-off switches downstairs. You are downstairs. How can you discover for certain which switch controls the light by operating one or more switches, and then taking only one trip upstairs into the closed room?

Bacteria

In my laboratory I have a Petri dish that contains a colony of bacteria. Every minute every bacterium divides into two. The colony was started by just one cell at noon. 47 minutes later the Petri dish was half full. At what time will the dish be full of bacteria?

The Race

Two journalists go to an athletics meeting. There were three contestants in the 100 m race – John, James, and Jack. One journalist reported that John won the race, while James came in second. The other journalist reported that Jack won the race while John came in second. But you know how unreliable journalists are – in fact, each reporter had given one correct statement and one false statement. What was the actual placing of the three contestants?

The Cannibals

Imagine that you are trekking through a remote jungle and being captured by cannibals. You are brought before the chief and told, "You may now speak your last words. If your statement is true, then we will burn you at the stake. If your statement is false, we will boil you in oil." Logically, what statement can you make to ensure that the cannibals have to let you go?

Feathers

You are drugged and wake-up in a locked room with a man. There is a table in the room and there are 11 feathers on the table. A voice booms over a loudspeaker explaining that the two of you are going to take turns removing feathers from the table. Each time you and the other chap can choose to take either one, two or three feathers. Whoever ends up taking the final feather from the table will be shot. You get to go first – how many feathers should you take from the table?

The Combination

Imagine that you are trapped in a prison cell. The only way out is through the door, but the door is locked. There is a combination lock on the door, and the following sequence of numbers appears above the lock:

$$1$$
$$11$$
$$21$$
$$1211$$
$$111221$$
$$312211$$

...to open the door you have to enter the next number in the sequence into the combination lock. What number should you enter?

The Bible

According to the Bible, who killed 25% of the world's population?

The Cute Puppy

You have been captured by a small cute puppy. He has two identical opaque vases, and 100 white beads and 100 black beads. The puppy will allow you to arrange all of the beads in whatever way you like between the two vases, but neither of the vases can be empty. The puppy will then close his eyes, put his little paw into one of the vases, rummage around, and remove just one bead. You have no idea which vase he will choose. If the puppy chooses a black bead, you will be allowed to stroke his head. But if he chooses a white bead he will bite you. How do you arrange the beads to give yourself the best chance of getting a stroke?

ARIES - THE EMPEROR (March 21 - April 19)

In the Emperor tarot card, a stoic figure can be seen on his throne, which is adorned with the heads of four rams, representing his astrological sign - Aries. In one hand, he carries a sceptre, representing his reign and his right to rule, and in the other an orb, a symbol of the kingdom that he watches over. The long beard of the emperor represents his vast experience. Behind him, the barren mountains shows his determination, his ambition for greater heights and his leadership capability.

Strengths

As the name suggests The Emperor card stands for authority, control and leadership. People belonging to this zodiac sign are blessed with the intrinsic power to create their own destiny and the determination to bring about positive changes. The mantle of leaderships rests easy on their shoulders and their ascent to the top is achieved through sweat and blood. At their best, these people can be benevolent leaders looking out for the best interests of all around them.

Drawbacks

Since power corrupts like nothing else, the Emperor can also become a controlling tyrant. Aries can often use their position and authority for wicked ends and can turn to selfish personal profits as opposed of the greater good of a greater number. If push comes to a shove, these people won t hesitate to manipulate even their close ones. Also, they might often start something with great passion but not see it through till the end.

THE EMPEROR

LEO - STRENGTH (July 23 - August 22)

In this tarot card, you will see a woman who calmly holds open the jaws of a fully grown lion. Despite the fact that the lion looks menacing and strong, the woman seems to have dominion over it. What is captivating is how gracefully she controls the lion. She is calm and collected, which is representative of being in control and disciplined especially in times of great adversity. The fact that she is holding the jaws of a lion, also shows that she has courage and mental fortitude. Simultaneously, her control of the lion without being too rough shows love and compassion.

The Card

Strengths

As the Strength card shows, one can never force a lion to open its jaws by sheer muscle power but rather, by using mind-control to dictate the actions of the lion. Therefore, this card tell that the Leo s true power comes from inner strength rather than physical strength. For a Leo, the key to success is to know when to use mental strength. Even in the absence of a support system, the Leo can always call upon their inner strength and look every adversity in the eye and face them head-on.

The Leo who learns to tap into their inner strength to control life situations often becomes too self-reliant and hence disdainful of others weaknesses. They might suffer from extreme vanity and an inflated self-image. Alternately, the weaker Leo, who hasn t realised their true potential try to get through life by using physical power, intimidation and bluster to hide their inner lack of courage and low self-esteem. They often tend to bully others and throw tantrums when things don't go their way.

Drawbacks

STRENGTH

SAGITTARIUS - TEMPERENCE (November 22 - December 21)

On the Temperance card, there is an angel with wings, whose gender is not immediately obvious, which suggests that there is a balance between the sexes. One foot of the angel is in water, to represent the subconscious, while the other foot is on dry land, a representation of the material world. She holds two cups in a manner where she can mix the contents in the perfect proportions of alchemy. Everything about this card represents balance, the perfect harmony that comes from the union of dualities. Her advice is to test any new waters, before jumping into the deep end.

The Card

Strengths

The Sagittarian is known for his spontaneity and impulsiveness. The Temperance card weaves into Sagittarius the constant thread of reminder of finding balance in all their actions and mastering the art of patience. This card tells that it might be in their best interest to slow down, analyse a situation and then take off in the direction they want to. Therefore, their key to success lies in cultivating patience and learning to look before they leap.

The unevolved Sagittarian suffers from indulging in excesses as they don't have the word moderation in their dictionary. They might be the kinds who either study too hard or party all night, either live like a religious bigot or be an out and out atheist. They might also suffer from the foot in the mouth disease and often want to say something but can t find the right words and hence, end up sounding either very rude or mentally off-kilter.

Drawbacks

TEMPERANCE

CANCER - THE CHARIOT (June 21 - July 22)

The Card

The Chariot tarot card depicts a figure sitting inside a vehicle that is being driven by a black and a white sphinx. On his head sits a crown, symbolising that he is enlightened and that his will is pure. The sphinxes are black and white - a symbol of opposing forces that the charioteer must learn to control. Though they appear calm, they frequently get into scuffles as they seem to want to move in different directions. The charioteer s task is to guide these sphinxes towards a destination.

Strengths

Most people unacquainted with the shy crab will be surprised to know that the Cancerian have a thirst for adventure and the outdoors. Despite being a nurturing person, closely bound to home, hearth and family, the Chariot cards shows the Cancerian s penchant for galloping through unknown territory with the wind rushing through their hair. Like a skilled charioteer, these people have a firm control over the reins of their life and their strength lies in the fact that after every thrilling adventure they return home rejuvenated.

Drawbacks

An unskilled rider can very well lose control of the horses and over-turn a chariot. Similarly, a reckless Cancerian can go overboard in the search of an adventure fix. They often suffer from a sense of being invincible when they fool themselves into believing that they have everything under control. Also, like the Emperor of the Tarot, Cancerians can become over-controlling and over-protective, ultimately managing to suffocating the ones they love.

SCORPIO - DEATH (October 22 - November 21)

The Card

Here, we see Death represented by a skeleton, riding a beautiful white horse while holding up a black flag with a white pattern. He wears an armour, which gives him his invincibility - signalling that no one can destroy death. The white horse that he rides stands for purity, as death purifies everyone. Beneath him, all classes of humans lie in the dirt - a king and a pauper, meant to remind us that death does not differentiate between class, race, gender.

Strengths

The Death card associated with the Scorpio, scary as it may seem, in fact has a very positive message. It talks about the need for letting go of useless, rotting things and starting fresh. It s akin to clearing your cupboard of old rubbish to make space for new things. The strength of the Scorpio lies in their uncanny ability to survive every calamity, get up, dust themselves and start all over again. The triumph of this sign resides in their ability to cut their losses and re-invent themselves every time.

Drawbacks

With a surfeit of emotions the Scorpion can frequently get lost in unhappy pasts, feeling of jealousy and revenge. The unevolved Scorpion who cannot let go of things that are harmful for their well-being might just be hammering a nail into their own coffin and heading towards a figurative death. They can suffer from repressed emotions that fester deep inside, poisoning them like a gangrene-ridden part of the body.

PISCES - THE MOON (February 19 - March 20)

The Card

When we encounter the Moon, we see a path that leads off into the distance. On either side of the path stand a wolf and a dog, representing our animalistic nature - one is civilised, and the other wild and feral. There is a crawfish that is crawling out of the pond representing rising from the subconscious to the conscious. In the distance, we can see two towers flanking the central path, once again alluding to dualities. Everything in this card seems to echo the other, as if to allude to two possibilities. The path marks the fine line between conscious and unconscious.

Strengths

While most people deal with the conscious world, thanks to the Moon card, the Pisces are able tap into their unconscious and understand its prompts. In simple words the Pisces are the most intuitive of all people and hence are also the most empathetic of all the zodiac signs. The strength of this sign lies in the fact that they rely heavily on their instincts and are incredibly creative. With a soul as deep and vast as the oceans they can easily love and understand people around them.

Drawbacks

The dreamy Pisces can have great trouble distinguishing between fantasy and reality. Since many of them cannot reconcile their idealistic and romantic fantasy with the harsh realities of the world, they often tend to become escapists and find solace in drugs, alcohol and other addictions. At times they may almost seem fey and disconnected with things around them and it becomes hard for people to reach out to them and connect to them on day-to-day matters.

GEMINI - THE LOVERS (May 21 - June 20)

The Card

In the Lovers card, the man and the woman in the image are being protected and blessed by an angel above. This is Raphael, the angel of air - the same element of the zodiac sign that governs this card: Gemini. Air is associated with mental activity, and communication in particular, which is the foundation for healthy relationships. His blessing seems to give this card a sense of balance and harmony, symbolising a cosmic union between two opposing forces. The fruit tree with the snake behind the woman is a reference to the story of the temptation of Eve.

Strengths

The strength of this card lies in forming partnerships, based on open communication leading to trust, harmony and a lasting relationship. Despite the name Lover, the partnership can be of any kind - business, companionship or romantic. This card also talks about having the conviction to follow your heart as opposed to following fail-safe and pragmatic options in life. So even thought they might make hard and unconventional choices (the fruits tree with the snake vs the harmless flower tree), they never regret their choices and are at peace with themselves.

Drawbacks

The weaker Gemini who cannot make clear-cut choices often suffer from inner conflict leading to strained relationships and imbalance in behaviour. Sometimes they avoid taking responsibility of their own choices and can easily turn the blame on others when they cannot handle the consequences. These people are also well known for their ever-changing belief system to justify their choices in life. Also the ones who go for the easier choices in life keep regretting their inability and lack of courage in following the true promptings of their heart.

LIBRA - JUSTICE (September 23 - October 22)

The Card

The Justice tarot card is a symbol of truth, fairness, and law. As she sits in her chair, the scales in her left hand represent the right balance between logic and intuition. Her judgement is not made just on the basis of cold facts but also by using compassion and intuition. The double-edged sword in her right hand symbolises impartiality and precision. The sword can cut through all confusion with a clean sweep and get to the heart of the matter. The clarity in thought which is required to dispense justice is symbolised by the square on the crown she wears.

Strengths

These are the scrupulously fair, fearless seekers of truth and justice. They will do everything in their power to get to the bottom of things and if the need arises they will not hesitate to even judge themselves. They understand that all actions past or present have consequences and are forever willing to make efforts to equalise any imbalance and bring about justice. They strive more towards making adjustments to end inequality than meeting out punishment. Therefore, the Libran understands the need for adjustments by the simple act of redistributing from the haves to the have nots.

Drawbacks

The most common failing of a Libran is his ability to turn a blind eye and not take any action even when they know what is the right thing to do in the given circumstances. These people are in state of denial and as a result are frequently running away from a sense of guilt. They go for short-term, stop-gap solutions instead of looking for a permanent solution. They might fail to understand that it is never too late to start doing the right thing.

AQUARIUS - THE STAR (January 21 - February 18)

The Card

The Star card shows a woman kneeling at the edge of a small pond. She is holding two urns of water. She is refilling this pool, so that those who are thirsty may drink, and also watering the earth so that more fruit trees will grow to feed those who are hungry as shown by a single fruit tree that stands nearby, a nightingale singing amid its branches. She has one foot in water symbolising intuition and the other on land symbolising stability.

Strengths

The bright, incandescent star symbolises the over-reaching message of providing guidance, nurturing hope and aspiring for a better future. The Aquarian will always stand out from the crowd like the North star. They follow their own judgement and intuition and even at the cost of being labelled an eccentric or a rebel, they relentlessly pursue their dream of doing something big for humanity as they believe in the greater good for the greater number. Their boundless intellect is symbolised by the Ibis bird on the tree.

Drawbacks

The shaky Aquarian may lose touch with his intuition, which is the true source of their strength and conviction. Once they lose faith in themselves everything they do takes a downward spiral. They become discouraged and start feeling useless, both as an individual and towards society, as they think they are no longer an instrument of change and innovation. Interestingly, the over-achieving Aquarian may also have a proclivity towards being egoistic and narcissistic in equal measures.

TAURUS - THE HIEROPHANT (April 20 - May 20)

The Card

The card depicts a religious figure that sits in a rather formal environment characteristic of a church. He is wearing three elaborate vestments which are designated to represent the three different worlds. His right hand is properly raised in an act of benediction, a sign of blessing. In his other hand, he carries a triple cross, which is associated traditionally with the pope. Each of the horizontal bars in the cross are thought to represent the Father, the Son and the Holy Ghost. Beneath him, two acolytes are seated, representing the transfer of sacred knowledge within institutions.

Strengths

The strength of this card is to be found in the solidness that it promises in a world of confusion, suffering and things that are beyond the comprehension of the common man. The Hierophant stands for well-established institutions that bring people together by propagating shared values like faithfulness, kindness, appreciation of the good and beautiful and procreation. The Taurus can help people around them to find meaning in life and achieve a sense of security and stability. Therefore, they make excellent teachers, priests, mentors, gurus, advisors and therapists.

Drawbacks

The Hierophant's only problem is that, like the Bull, he can be stubborn and hidebound. He can become very dogmatic and stubborn and sometimes cannot see beyond established practices and ideas. They can be quite intolerant towards creativity and unconventional thought processes. Also, like a crooked religious preacher they can often misdirect people for their own personal gains. The weaker Taurian can often get caught up in living the high life surrounded by luxuries and lose touch with the spiritual aspect of life.

VIRGO - THE HERMIT (August 23 - September 22)

The Card

The Hermit depicts an old man standing alone at the peak of the mountain while holding a lantern in one of his hands and a staff on the other. The mountain denotes the renunciation of worldly possessions to climb the summit self-actualisation. As the secret corners of the world are illuminated and explored by him with the help of the lantern, he feels that he is also illuminating hidden areas of his mind. Inside the lantern, you will notice a star with 6 points known as the Seal of Solomon. This symbol represents wisdom. The staff that he holds depicts spiritual power unlike the power of authority represented by the spectre of a king.

Strengths

The strength of the Hermit card lies in its relentless search for knowledge. They like to wander and explore new experiences. Inherently they want to shine the light on dark area in search for knowledge cause they know that true power lies in the pursuit of knowledge. They often like to go far from the maddening crowd to gather information, analyse and make connections. They are very rational, organised, and never hasty and hence they make very great counsellors and mentors.

Drawbacks

The Virgo, being an earth sign, can become obsessed with material things as opposed to spiritual wealth. They fail to understand that power of self-actualisation is rather more effective than the power that money and position can bring. They can become disdainful towards people who are not very knowledgeable and can't see or understand what they see. Also in the desire to 'be alone' they may come across as anti-social and low on empathy.

CAPRICORN - THE DEVIL (December 22 - January 19)

The Card

This card shows the Devil represented in his most well-known satyr form. Along with being half-goat and half-man, the devil has bat wings and an inverted pentagram on his forehead. He is standing on a pedestal, to which are chained a nude man and woman, as if to show that he has dominion over them. Both the man and the woman have horns indicating that the more time they spend with the Devil, the less human they become. The man has a flame on his tail while a woman has a bowl of grapes on her tail, which symbolises their addiction to power and finer

Strengths

The Devil card does not represent Satan as is often mistakenly thought by the uninitiated. It is infact the most powerful card that depicts the Goat-god of great power. Like all power, it is frightening and dangerous - but it is also a key to freedom and transcendence. This card is about being honest with yourself and knowing what makes you tick, what has power over you and what makes you feel powerful. The most powerful person is the one who can consciously decide when to indulge and when to walk away from indulging without hesitation or regret. Therefore, the Devil is a card about ambitions, single-minded commitment and resourcefulness. The strength of the mountain goat is that it aims to get to the top and does all its needs to do to get there.

Drawbacks

The Devil card is synonymous with temptation and addiction - anything that we find hard to resist. The weaker Capricorn is a hedonist, living in the moment, looking out only for gratification of the physical aspects of life. As shown in the card, the chains around their necks is loose and if they so desire they can easily shake off the fetters. However, they chose to stay back and become a slave to their own desires.
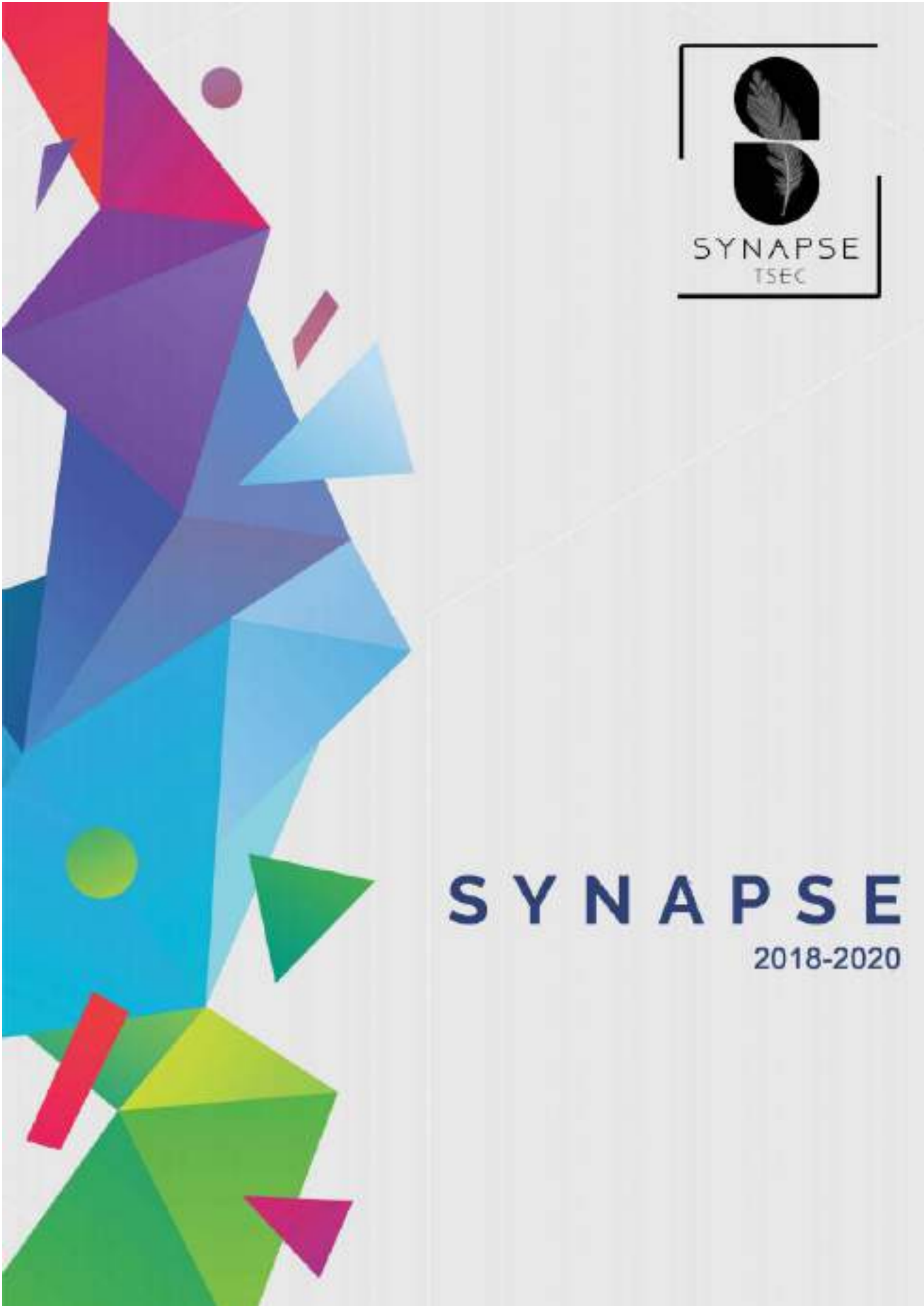
SYNAPSE
2018

Annual Report for A.Y 2018-20

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai-400 050.

SYNAPSE

2018-2020

Principal's Musings

We are marching ahead in reimagining the times even though externalities are forcing us to be part of the trials and tribulations of the pandemic. It is heartening to observe learners transcend the way they learn leveraging instructional content available with various world class MOOCs and also undertake virtual internships in enterprises with profound understanding of the future of mankind in an uncompromised fashion without an iota of doubt about the cessation of hardship we are subjected to.

The way the market conducts business processes is in a state of accelerated change and is unabashedly redesigning business and revenue models and underpinning nascent development in Artificial Intelligence and Data Science.

We at Thadomal Shahani Engineering College capture the impeding radical redesign of futuristic industrial 4.0, driven by Artificial Intelligence and its allied artefacts. We are proud to create a culture of Coding and Hackathon to make these budding graduates remain focused on competing in the global market place.

Soft skills, interpersonal intelligence, intrapersonal intelligence, social outreach are desired graduate attributes in the coming times and we are committed to create an environment where pupils thrive.

Students involved in cultural and sports activities in the campus are doing an excellent job in promoting extracurricular activities in the campus and acting as our ambassadors for the outside world.

Creative talents demonstrated through writing, painting, story telling, dance, drama won enviable awards and prizes all over the country and won our whole hearted congratulations!

Our extended congratulations to Aadil Mukhi, Prithvi Punjabi and team as they remain focused on documenting both the collective consciousness and the juvenile impatience of the campus.

Dr. G.T. Thampi
Principal TSEC
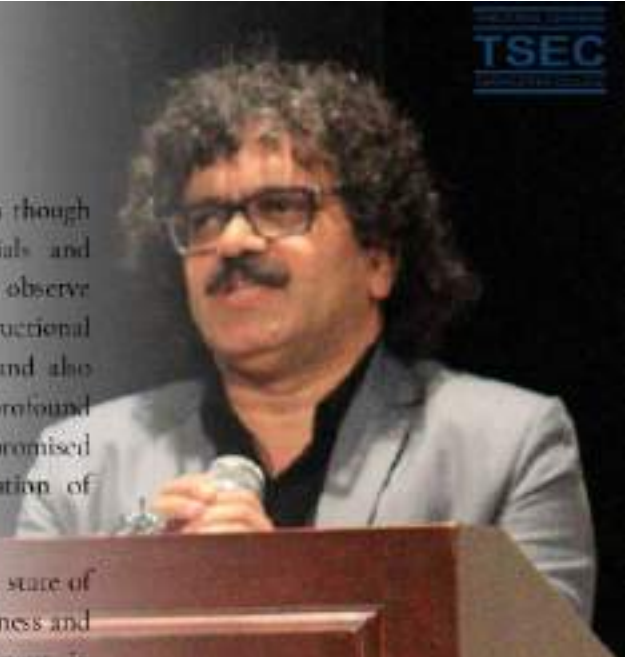
A word from the President

It is often said 'The Copy of a College Magazine tells you about the quality of the College'. SYNAPSE encapsulates the spirit of TSEC. A Centre of Excellence in Engineering Studies, a 'Game Changer' supporting National and Human aspirations, TSEC continues to impart quality education, discipline and respect for work ethics in its wards.

It is a matter of gratification that TSECites are accepted as dependable and responsible engineers with skills of leadership that can be counted upon to shoulder individual responsibilities, build and lead teams. This is a product of motivation, instructional content and quality education that arises from focusing on learning paradigm from teaching paradigm.

TSEC concentration on Energy, Education, Environment and Healthcare sectors, and beyond, is an exemplary contribution to National needs, as is the emphasis on Project Management and Collaborative Development.

I conclude with some thoughts that may find use in TSEC progress to the excellence it is capable of 'The only way in which one human being can properly influence another is by encouraging them to think for themselves instead of endeavouring to instil ready-made opinions'.

Wishing You All Every Success and Happiness in Your Life.

Mr. K.H. Mansukhani
President HSNC Board

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A word from the Editor-in-Chief

With great pride we present to you, the TSEC in-house magazine Synapse . Grave apologies for the late release of this much-awaited, creative aggregate of articles, poems, artwork, practical information and trivia. Though it took us some time to get to the final product, the quality of the contents and the aesthetic presentation will not only invigorate your mind but will also motivate you to get pro-active in these trying times of the Covid lockdown. The Synapse team has to put in great efforts to collect, curate and present a selection of muse-inspired creations that the students and staff generously contributed. It is all thanks to the enthusiasm of the contributors and the hard-work of the editorial team, that Synapse has transcended beyond a college magazine to a collective magnum opus that reflects the premium quality of intellect possessed both by the students and faculty of TSEC. The team had a wonderful time putting together this magazine and I sincerely hope that you will also share the same wondrous feeling and a sense of pride when you read through the magazine, to be part of such a glorious institution that moulds the minds of learners capable of such magnificent deliberations. Happy reading

Dr. Chumki Biswas
Editor-in-Chief
2018-2019

A word from the Professor In-charge

It is with immense pleasure that I present to you the Synapse 2018-2020 edition. The Magazine Secretary and his team have put in hours of hard work and dedication to create this wonderful publication that documents all the happenings of our magnificent college. In the trying times of the COVID-19 pandemic, we may sometimes get too mired in the negativity and forget about the great times we have shared as part of Thadomal Shahani Engineering College. This magazine will remind you all of what it means to be a TSECite, and will help keep the feelings of nostalgia at bay. It is my sincere hope that when you go through this magazine, you appreciate and commend all the effort it has taken our exceptional team to create such a magnificent product. They have overcome impossible odds and deadlines, to ensure that the students and teachers reading this, have a smile on their face. It has been a great experience to work with such a talented team. It is my hope that we continue to do good work and grow holistically; not singularly focused on subject matter but also on the other aspects of college life.

Dr. Mani Roja
Dean Student Affairs
TSEC Synapse Professor In-charge
2019-2020

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A word from the Magazine Secretary

Behind any great success there is a team. A team of supporters that can-do things when the odds are stacked against them. A team that stands by you when it gets tough. A team that makes the impossible happen. Compiling this magazine was nothing less than an impossible feat, and it would not have been possible without the continued efforts and support of TEAM SYNAPSE. I would like to thank each one of you for standing by me and seeing this through.

Engineering is a journey, from the awkward first days of the college in the first year, followed by making friends and taking part in the fests, to getting lured into joining a committee in the second year, to slogging it out in the third year all the way upto graduation day of the fourth year. I have spent the greatest days of my life at this magnificent institution. And what better way to immortalize this wonderful adventure than through the pages of a book.

I am extremely pleased to reveal to you the marvelous journey of TSEC over the last academic year. The magazine is a showcase containing the enthusiasm, the emotions and the spirit of every TSECite. It is a collection of our most treasured memories. I hope that you feel proud of holding in your hands, this journey, that we call SYNAPSE.

Aadil Mukhi
Magazine Secretary
2018-2019
TSEC Synapse

A word from the Magazine Secretary

Engineers often see the world in binary; 1's and 0's define our existence. We are adept at writing code and fixing things that don't work. That being said, however, when it comes to the art of creating magic with words, engineers are expected to fall short. The Synapse team is here to eradicate these misconceptions by bringing you the amalgamated 2018-2020 edition of our beloved college magazine. We have worked tirelessly to capture the essence of our college and transcribe it on these pages, to show each and every one of you why it is an honour to walk the hallowed halls of Thadomal Shahani Engineering College.

This edition of Synapse is a special one, not because I have had the opportunity to spearhead its creation, but because it is so much more than just a magazine. Amidst this pandemic, most of us are still adjusting to what may be the new normal. Synapse 2018-2020 will now serve as a reminiscence; a way to relive those fun, ebullient and marvelous memories that we have created in the past 2 years. Scroll through the pages and bring those memories back to life!

I would like to thank the Synapse team, without whom this magazine would not have been possible. Thank you, for dealing with my deadlines and for putting your blood, sweat and tears into this edition. But most importantly, thank you for being a part of this team, and immortalizing TSEC through Synapse. I would also like to thank Dr. Thampi and the teachers in charge of the magazine, who have constantly acted as my friends, philosophers and guides during this process. I hope that everyone who reads this, recognizes it for what it is: a testament to the greatness of our college.

Prithvi Punjabi
Magazine Secretary
2019-2020
TSEC Synapse
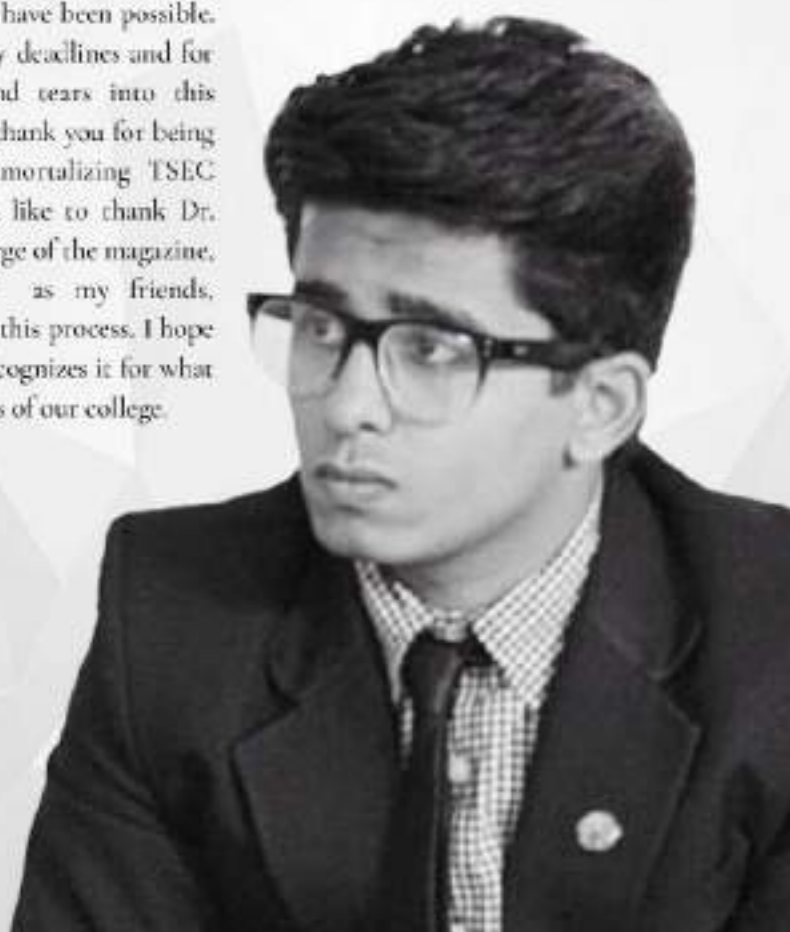
Meet the Team

2018 2019

Aadil Mukhi
Secretary

Sumit Pethe
Editor

Tanay Punjabi
Editor

Prithvi Punjabi
Editor

Ishita Kotian
Editor

Soham Madhav
Editor

Noynica Ahuja
Editor

Rachaell
Nihalaani
Editor

Tanay
Ganeriwal
Photographer

Harsh Navani
Designer

Megh Jhaveri
Designer

Harsh Kapadia
Designer

Our Volunteers

Nikita Moryani

Moksh Jain

Vaibhav Mestry

Ananya Arora

Harsh Harwani

Ayush Makharia

Karan Nawani

Neeraj Khadagade

Meet the Team

2019 2020

Prithvi Punjabi
Secretary

Dr. Mani Roja
Professor In-Charge

Dr. Arti Deshpande
Joint Professor
In-Charge

Ms. Monica Tolani
Coordinator

Our Volunteers

Harsh
Lohana

Girish
Chawla

Pallavi
Vaswani

Rachaell
Nihalaani

Yukta
Sethi

Harsh
Navani

Meet
Merchant

Moin
Mhatarnaik

Jash
Singhaniya

Noyniea
Ahuja

Naman
Purohit

Nayni
Shah

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DEPARTMENTS

Biomedical Engineering

Vision

Transcending to a high quality research driven Biomedical Engineering department with excellence in graduation and to perpetuate supply chain of human capital to support the business growth of Bio Medical equipment manufacturers to make these equipment pervasive and ubiquitous in the world.

Publications & Books by Faculty

1. Mita Bhowmick, K. Shetty, R.Choudhary, M.Nagar "Smart glove: Hand Gesture Recognition System for Speech Impaired People using Indian Sign Language", 2nd International conference on Recent trends in Biomedical, MIT-ADT University, Pune, Feb 2019. This paper won First Prize

2. Mita Bhowmick, R.Jain, P.Joshi, L. Nagawekar,"Current Assistive Devices for the Paraplegic", 2nd International conference on Recent trends in Biomedical, MIT-ADT University, Pune, Feb 2019.

3. Dhananjay K. Theckedath and R.R Sedamkar, "Improved Affect Detection Algorithm on Face Patches using Local Binary Patters and PCA", IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661, p-ISSN: 2278-8727, PP 23-30, 2018 (www.iosrjournals.org).

4. Gauri M Shukla, Nirmal Punjabi, Tapanendu Kundu, and Soumyo Mukherji,"Optimization of Plasmonic U-shaped Optical Fiber Sensor for Mercury Ions Detection using Glucose Capped Silver Nanoparticles", IEEE Sensors, 2019, DOI: 10.1109/JSEN.2019.2893270.

5. Image Processing and Machine Vision, Dhananjay Theckedath, Techmax Publication, 2018 Edition.

6. Control System, Engineering , Dhananjay Theckedath, Techmax Publication, 3rd revised edition, 2017.

7. Image and Video Processing, Dhananjay Theckedath, Techmax Publication, 4th revised edition, 2018.

8. Suparna Mukherji, Sharda Bharti, Gauri Shukla and Soumyo Mukherji, "Synthesis and Characterization of Size and Shape Controlled Silver Nanoparticles", Chemistry of Metallic Nanomaterials – A Practical Guide ; Vol 4, Issue 1, De Gruyter Book Series, Aug 2018.
https://doi.org/10.1515/psr-2017-0082.

9. Anuradha Mistry, F. Ansari, S. Kondamudi, Y. More, "Analysis of Forward Head Posture", 2nd International conference on Recent trends in Biomedical, MIT-ADT University, Pune, Feb 2019.

Student Accomplishments

1. Krish Shetty, Rakesh and Mehul securing 1st position 2nd International Conference on Rent Trends in Bioengineering (ICRTB 2019) at MIT - ADT University with their project 'Smart Glove: Hand Gesture Recognition System for Speech Impaired People using Indian Sign Language'.

2. Priyanka Benny Fernandes and Jyoti Yadav received 'Prize for Innovative Idea' for their project 'Model of Bio - Impedance Analyzer' at VCET's National Level Project Showcase.

Biotechnology

Workshops & Programmes

1. Bioinformatics workshop at MITCON Pune, 21st September 2018 (speaker: Dr. Sagar. Barage)

2. Computational approaches in molecular modeling workshop on 29th September 2018, Amity Institute of Biotechnology, Amity University Mumbai (speaker: Dr. Sagar. Barage)

3. The Faculty Development Programme (FDP) and workshop on elementary concepts of systems biology and molecular modeling, 10-11th January 2019, Amity Institute of Biotechnology, Amity University Mumbai. - (Manasvee Dhanesha)

Seminars

1. Guest lecture on 'Introduction to wine and brewing techniques in Food Industry, 29th August 2018 Guest lecturer - Mrs Apoorva Tendolkar Jaitly, Proprietor, Pride Enterprise, Expertise in Brewing.

2. 'Application of spectroscopy in Biotechnology, conducted by Dr. A.K. Maiti, Dr. Sayandeep Analytical Instruments Pvt. Ltd. Dated 26th July 2018

3. 'Renewable energy and environmental engineering' conducted by Bhattacharjee Manab Kanti (Chief Manager Strategy, Corporate affairs, Bharat Petroleum Corporation Ltd.) on 31st August 2018.

Other Activities

1. Attended Infocomm India, 26 -28th September 2017 for educational expo- they deal with projectors and smart classrooms technology, Goregaon Exhibition Centre- (Manasvee Dhanesha).

2. Participated in TSEC marathon, category- 8 kms, 2017, TSEC Bandra- (Manasvee Dhanesha).

3. Performed Dance at Trifles with B.E 2017 Batch- one minute performance with students, TSEC Bandra- (Manasvee Dhanesha).

4. Attended Infocomm India 18-19th September 2018 for educational expo- they deal with projectors and smart classrooms technology, Goregaon Exhibition Centre - (Manasvee Dhanesha).

Papers Published

1. Rapid Escape Response, A behavioral response on Esina. Fetida , S. Halwasia, M. Dhanesha, H. Udhani, K. Deore, Journal of veterinary science and tech, 2018, 9:1, DOI: 10.4172/2157-7579.1000502, ISSN: 2157-7579

2. Dr. Jekyl- Mr. Hyde Role of sox family- from neurogenesis to cancer - A Review, S. Halwasia, H. Udhani, M. Dhanesha, Journal of Molecular Biomarkers and Diagnosis, 2018, 9:3, DOI: 10.4172/2155-9929.1000393, ISSN: 2155-9929

Chemical Engineering

Vision

To be a learning organization to provide total solution for sustainable industrial business in the realm of chemical engineering process, bio-technology, material technology, energy and environment by leveraging evolving information communication technology.

Mission

1. Radically modify the curriculum design process to be abreast with new changes in the core and auxiliary enabling technology.
2. Create world class experimental facilities for carrying investigation and research in biotechnology.
3. Create center of Excellency in environmental studies and research.
4. Train students about ethical and societal impact of their professional activities.
5. Create world class laboratories to further the cause of material technology.
6. Initiate startup in space based energy generation and related research.
7. Initiate students to entrepreneur training, industrial finance and risk management.
8. Constitute a chair to promote the necessity and virtue of sustainable development model for industrial activity.

Achievements

1. "DWSIM" for Chemical Engg. Faculty, in association with IIT, Bombay, on 28th July 2018.
2. "Process Simulation Using DWSIM", by Mr. Sumit Asrani (Alumni, Chemical, TSEC and Freelancing Process Engineer) for Faculties and Students of Chemical Engg. Dept., from 7/01/2019 to 13/01/2019
3. TSEC-Start-up Stories held on 6th September, 2018 having speakers,
    1. Mr. Jayesh Tekchandaney: Director (Technical), at "Unique Mixers & Furnaces Pvt". Lt; Director (Projects), at "Unimix Equipments Pvt. Ltd".
    2. Mr. Rohit Shetty: Founder of "First Step Publishing and Transdigi", which provides the platform for talented new writers.
    3. Mr. Sohail Gupta: Director at "Sureflo Techcon Pvt. Ltd.", an ISO certified company. Expertise in automatic filtration systems, advanced separation systems, diffused aeration systems, online robotic cleaning systems
    4. "Project Expo 2018-19" held on 11th March, 2019 displaying a total of 11 Projects.

Computer Engineering

Vision

Metamorphosis into a center of excellence in higher education and enterprise computing to nurture and facilitate the learners who ought to be the cream of society in terms of their irresistible ambition to be part of entities inventing breakthrough technologies to further the cause of mankind through emerging technologies.

Mission

1. Building state of art laboratories with the help of government and industry funding.
2. Collaborative research initiative with premier research organizations in the country.
3. Subjecting and initiating learners to entrepreneurship training program and nascent technologies which shall be beyond curriculum.
4. Developing instructional content leveraging new findings of cognitive load theories and visual learning.

Student Achievements

1. TE Computer Engineering Students SIH team "Gully Bois" lead by Ashay Changwani, with team members Saisha Chabria, Pratik Devnani, Moksh Jain, Harshit Gupta and Prea Jain, has won SIH for problem statement "Tracking of Preventive Maintenance" in March 2019.
2. SE Computer Engineering Students SIH team lead by Vikyath Shetty, with team members Harshdeep Mishra, Rittick Sinha Roy, Hariharan Pillai, Pearl Jain and Amol Sawant, has won SIH for problem statement "Centralized Portal for Managing Employee-Employer relations" in March 2019.
3. Piyush Budhrani, Mayur Rohra, Rahul Dingria – 1st Position at GK Tech Fest (Project Competition).

Faculty Achievements

1. Prof. Archana Patankar was invited to chair a session at the International conference on Technologies for Future cities held at PCE (April 2019) and along with Prof. Tanuja Sarode, for ICESTMM-19 held at TSEC (Jan 2019)
2. Prof. Darakhshan Khan and Prof. Vaibhav Ambhire had organized and conducted a hands on session on "Neural Network", in "AI and Machine Learning Workshop, under Leading India Initiative.

EXTC

Vision

The department aims to provide a program of high quality to develop outstanding managers and technocrats who will make valuable contribution to the global business and society to suit their ever changing needs by fostering technology worldwide.

Student Achievements

1. Mr. Rohan Patil cleared IES examination as a topper from Maharashtra in 2018.

2. Ms. Pallavi Patil cleared her B.E degree by securing second rank in Mumbai University with a grade point of 9.83.

3. Mr. Vrajesh and Ms. Gunjan attended " Parikshe pe Charcha" with Prime Minister Modi.

Publications from Faculty & Students

1. Thakur and A. Kunte "Improved design of CELC meta-resonators for bandwidth improvement a miniaturization of patch antenna" Applied Physics A: Materials Science & Processing, 124: 860, 2018 ISSN: 0947-8396, Vol 124, No 12 doi: (published in Springer Verlag journal).

2. Mamta Kurvey, Dr. Ashwini Kunte, "Tri-Stepped Rectangular Antenna (TSRA) for Efficient RF Energy Harvesting," Journal of Communications and Information Networks, Vol.6, No.2, Jun. 2018, DOI 10.1007/s41650-018-0018-1, pg. no. 23 to 27, [ISSN No: 2096-108] (print version), 2509- 3312(electronic version), Journal no. 416501 (Published in Springer Journal).

3. Mamta Kurvey, Dr. Ashwini Kunte, "Harvesting RF Energy- A Review: in Asian Journal of Convergence in Technology, Volume III, Issue III, ISSN No.: 2350-1146, www.asianssiorg, DOI.

4. Shrishti Bhatia, Ashwini Kunte "Performance enhancement of two tier wireless network using an adaptive hybrid scheduling algorithm, published in JETIR (ISSN : 2349-5162),

5. Ishan, Chirag and Maniroja, "Applications of Neural Networks in Image Processing", ISMAC, May 16th b and 17th 2018.

6. Prerna Khandelwal, Parshwa Sheth, Ria Shetty, Amit Hatekar, "Collision Avoidance System" IJSRD ,Vol. 7, Issue 02, 2019 I ISSN (online): 2321-0613

Workshops & Seminars

1. Industrial Visit to Pune Satellite training centre on 11th Sept 2018.

2. Visit to BARC on Feb 26th as a part of National Science Day celebration.

3. Guest lecture on "Career in Armed Forces " by Lt. Goying Mishra on 10th Sept 2018.

Information Technology

Vision

The department should be known globally for its core competence in terms of intuitive and intelligent architectural solutions on "conversion of problem to logic".

Achievements & Activities

Majority of the staff members in the department are pursuing Ph.D. in various domains and Prof. Darshan Ingle has successfully completed his Doctorate Degree.

The Department is proud to announce that Dr. G.T.Thampi, our Principal has filed one patent.

Three research scholars from IT department research centre have successfully completed their Doctorate under the guidance of Dr. G.T.Thampi and Dr. Madhuri Rao.

Prof. Shanti Therese, Prof. Nagaveni Hebbar, Prof. Sanjay Kumar Pandey, Prof.Reshma Malik and Prof. Sanober Shaikh have published papers in prominent International Journals like IEEE, Springer and in international conferences.

The Department has conducted ISTE approved short term training programmes on "Digital Forensics" convened by Dr. Madhuri Rao and coordinated by Prof Nagaveni Hebbar & Dr. Shachi Natu in Jan 2019.

The Department conducts multiple events round the year such as Industry-led Internships, Hackathons, Project Exhibitions, Paper Publications, Guest Lectures from Experts and various Training Programs.

Student Achievements

1. Students have showcased their calibre by bagging multiple placements in various hi-tech companies with a top placement package of 37 Lakhs by Uniqlo Co., Ltd. (Mr. Arshit Chabukswar).

2. Won first prize at SMART INDIA Hackathon 2018, COIMBATORE and second prize at TSEC Hackathon 2018.

3. The students have also established various technical groups such as MAD club, Codestorm, AI club, etc. to encourage their colleagues in their technical growth.

4. Won First prize at SMART INDIA Hackathon (Software Edition) 2020, MGM College of Engineering & Technology Ernakulam, Kerala. Winners received cash prize of INR 1,00,000.

EVENTS

Avalanche

24th August, 2018

Conducted as an icebreaker exclusively for the first-year students, the vivacious festival included a tug-of-war, the zany hogathon, a personality contest and several other entertaining games and exciting events.

Technext

7-8th September, 2018

The Web Application development workshop using Python was a definite highlight. Participants made both front and back end for a shopping site. Among many speakers, Ms. Nabomita Majumdar, a Top 100 Women Achiever's Awardee, glistened the fest with her enthusiastic talk show.

BeN
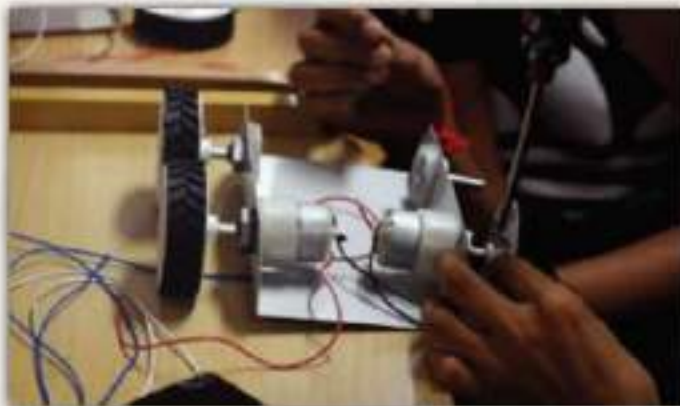
The Bio-entrepreneurship competition organized by the students of the Biotechnology Department effectively brought together like-minded people. Ideas like the commercialization of neuroprosthetic arms, bio waste effluent disposal using microbial fuel cells and lignin bags using sugarcane bagasse shone with unusual brilliancy.

Nature Trail

8th September, 2018

The gorgeous hike to Karnala took the volunteers through the lush green plateaus, gushing streams and flower-bedecked groves filled with twittering birds. This perfect monsoon getaway also served as a window to understanding the biodiversity and the challenges faced with conservation in the country.

Engineer's Month

Résumés of the candidates who excelled at the Internship Expo were sent to various partner companies, such as Mahanand, Kartographer, Digital Systems, etc. The Hands-on PCR Workshop for biotechnology students was a roaring success.

Elan

30th September, 2018

The Ethical Hacking workshop conducted by the famous Cyber Crime Investigator Mr. Sachin Dedia was a total attention grabber. MSI, a world-leading gaming brand, conducted a seminar with the students, helping them explore new avenues.

Open Mic

2nd October, 2018

The headliners included popular artists such as The Alchemy Band, Saachi, Aishwarya Mohanraj and many others who with their sincere commitment to art, had the crowd erupting in deafening roars and cheer. All proceedings were handed to Angel Xpress Foundation to help them uplift the underprivileged.

Blood Donation Drive

4th October, 2018

NSS-TSEC organizes two blood donation campaigns annually, in association with the Tata Hospital.

ChEMERGENCE

5-6th October, 2018

Various cool events like Cool-IT - involved designing a natural draft cooling tower; Enact to React- where the acquired results after analyzing the given experiment were to be compared to predefined values- and Salt Act wherein the participants had to identify the given unknown compound, rendered ChEMERGENCE a huge success.

Cryptech

16th October, 2018

One of the most memorable events of Cryptech'18 was the Technical Quiz, which tested both the theoretic and practical intelligence of students.

Footcup

Uniting all football fanatics at TSEC, the tournament got everyone spectating on the edge of their seats. The BE team won the victory cup against the FEs in the finals.

Residential Camp

1st-8th January, 2019

A one of a kind experience, each of the volunteers experienced the life of the common village-folk, away from the hustle and bustle of the city. The residents devoted eighty hours in the reconstruction of the rural areas adopted by NSS to help improve the living conditions of economically and socially weaker sections of the community.

Yudh

Spread across two days, YUDH saw some of the best young athletes battle it out at various games such as Badminton, Chess, Carom, Gully Cricket, Tug of war and Table tennis.

TSEC Hacks

6-7th February, 2019

This 24-hour Hackathon tested the budding programmers' mettle in 5 domains, namely Machine Learning in Healthcare, Application Development for NGOs, E-commerce, Gamification and Cybersecurity.

Convocation

9th February, 2019

Caps were happily tossed mid-air! Graduates of batch 2018 posed with their proud parents and friends, their smiles mingled with tears of farewell. A million memories stored away to be taken out, perhaps a generation later.

Ascent

ASCENT'19 comprised of two major events namely Circuit Sprint and Arduino (Level-ll) workshop. Circuit Sprint is a circuit building competition where the students had to identify a circuit, interpret its functionality, build and debug it to get an output.

Rubix

23rd February, 2019

Participants explored and identified the various domains of Web application development, Internet of Things and many more. The SYNC project exhibition saw some of the most profound projects including a Blind-Friendly Career Guidance App, Heartbeat Monitor, Employee Connect, Fire Fighting Robot, etc.

TEDxTSEC

2nd March, 2019

Caps were happily tossed mid-air! Graduates of batch 2018 posed with their proud parents and friends, their smiles mingled with tears of farewell. A million memories stored away to be taken out, perhaps a generation later.

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Women's Day

The Women's Day celebration, centered on the theme, "She Inspires Strength", involved many fun games and interesting events for both teachers and students. The ceremonial college dance troupe put up a stunning performance, which was followed by a tug of war between the teachers of different departments. Other activities included passing the parcel and paper dance, each pair comprising a teacher and a student.

Tantravishkar

9th March, 2019

The Flagship event namely Internship Expo aimed to bridge the gap between Academia and Industry, allowing the students to gain critical technical skills.

Marathon

10th March, 2019

TSEC Marathon'19 aimed at raising awareness and funds to support the education of the underprivileged. More than 1600 people crossed the finish line, covering a distance of 8km, stretching from Bandra Fort to the college campus. The marathon was preceded by a quick warm-up and a fun Zumba session.

The Traditional Day was celebrated with great gusto and enthusiasm. The campus reverberated with the musical strains filled with ecstasy, joy and euphoria as the ethnically dressed students and staff members danced away the afternoon. Trifles'19 managed to draw the largest crowd since its inception. The glorious affair housed a myriad of perennial emotions, endowed with stimulating performances by the dazzling singer and composer Arjun Kanungo, the hilarious Vipul Goyal, Piyush Sharma and the electric DJ Meraki and DJ Shan.

Tree Plantation Drive

22nd July, 2019

TSEC Green Army coordinator Dr. Arti Deshpande in association with NSS-TSEC and with the help of MCGM organised a Tree Plantation Drive at Pali Hill Railway Colony, Bandra West. This event was up-lifted by the presence of Minister Mr. Ashish Shellar, Corporators of our area and our honourable Principal. Students from various branches participated in the plantation drive. The TSEC Drama Team amazed us with their talent by performing a moving street play to create awareness about the adverse effects of deforestation.

TSEC App Launch

10th August, 2019

The MAD (Mobile App Developers Club) of TSEC organised a stellar launch of the TSEC App at its first flagship event, 'Internship Mela'. The event was lively, with a spirit of competitiveness in the air it contained an aptitude test and a series of challenges that engaged the technical as well as non-technical students to test their skills in a myriad of domains to all contributing to the massive success of the events.

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HSNC Board Post Release

22nd July, 2019

The Government of Maharashtra and India Post released special covers for the Hyderabad Sind National Collegiate Board (HSNC) on 30th August, 2019. This event was glorified by the presence of Adv. Ashish Shelar, the education minister of Maharashtra, Mr. Kishu H Mansukhani, the Trustee and President of HSNC Board along with the Principal and Vice Principal of all the colleges. The special cover was released to commemorate the seven colleges under the HSNC board by the Maharashtra State Government and India Post, namely:

1. Thadomal Shahani Engineering College, Bandra
2. R. D. National, Bandra
3. M. M. K College, Bandra
4. G. J. Advani Law College, Bandra
5. K. C College, Churchgate
6. H. R College, Churchgate
7. C. H. M College, Ulhasnagar

Chemergence

21st September, 2020

TSEC proudly entered it's 14th year of Chemergence. The occasion was covered by IIChe TSEC. The event was honored by a number of international delegates who appeared as judges and guests. Dr. Elizabeth Joseph, Dr. Anita Kumari, the HOD of Chemical Engineering and Prof. Ravindra Joshi graced the event with their presence and expertise. This two day event covered various competitions such as Hazop, Cool-It, HeatX, Chem-Debate and ChemQuiz.

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Hackathon

20th July, 2019

TSEC Codestorm - Campus Chapter of CodeChef, organized an Inter College Hackathon under the esteemed guidance of Dr. Madhuri Rao, Prof. Sanobar Shaikh and Prof. Chetan Agarwal. The hackathon acted as a platform for students to use their creativity and innovative spirit, to tackle real world problems. The coders competed non-stop for 32 hours to find the most efficient solution problems based on BlockChain and Social Causes.

Silver Lining

24th September, 2019

Organized by TIE Club in association with RoundGlass Peace, this event helped the students discover the silver linings to their clouds: body positivity and self-care. The ultimate goal is to create a better culture in terms of acceptance and not giving in to the stigma surrounding mental illnesses.

Blood Donation Drive

25th September, 2019

Let us remember, a donor today can be a recipient tomorrow!
NSS-TSEC in association with Tata Memorial Hospital organizes a Blood Donation Drive twice a year, which witnessed an overwhelming response from students, faculties, and staff of our college. Almost 160 donors registered. Within its capacity, TSEC will always strive to help save a life.

Railway Painting

26th September, 2019

The walls and boards at Bandra station were given a facelift by the students of TSEC. The paintings were centred around the topic of Swachh Bharat and the Plastic ban. Students and teachers actively took part in creating awareness toward the importance of a clean and healthy environment through their paintings.

Elixir

Under the guidance of the Department of Electronics and Telecommunication Engineering and the Department of Computer Engineering, Elixir, a technical fest was organized where workshops on Ethical Hacking, Android App Development, Robotics, Virtual Reality, and Python were conducted by professionals and students.

E-Cell Embark

30th September, 2019

The Entrepreneurship cell of TSEC held Embark 2019 - which served as a platform for the budding engineers to turn their dream of entrepreneurship into reality. 'Suit Up to Start up' was the first event of the day, wherein students presented their own start up ideas. This productive and inspiring day was wrapped up with 'Wall Street' which aimed at enhancing the investment skills of participants, that would inspire them to get their hands dirty (in the right way) and go on to reap huge profits in the future.

Innovation Day

15th October, 2019

On the occasion of the birthday of Dr. A. P. J. Abdul Kalam, the 11th President of India, the focus was on Innovation. The seminar conducted proved to be extremely insightful to the students, who left the auditorium with a newly sparked passion to innovate. The 'Missile Man of India' lives on in our memory and we, at TSEC, shall continue to keep his legacy alive by encouraging our students to Think, Ideate and Innovate!

Cleanliness Drive

UBA TSEC organized a cleanliness drive in the Ambevadi village, Maharashtra, India. With the support of school students from a nearby village, this drive was a huge success. The school students and volunteers combined voiced slogans related to 'Clean India'. With zest levels through the roof, our very own TSEC Drama Team, enchanted the audience with a skit, aimed at spreading the message of importance of cleanliness, with passionate performance.

Technext 19

5th October, 2019

Conducted by the Computer Society of India, Technext 2019 aimed at enhancing the skillset of budding future engineers of TSEC. The experienced Prof. Yogesh Pingle, an expert in Arduino - Raspberry Pi, taught an interesting workshop. Additionally, our very own students, well-trained in WordPress - WOOCommerce, conducted a workshop of their own. Both of these were well received by our enthusiastic students.

NSS residential camp

21st to 30th December, 2019

NSS-TSEC and UBA-TSEC joined hands to conduct an 8-day residential camp at Neral, on the foothills of Matheran. This long, but enjoyable and fruitful stay led the volunteers to nurture the values of self-help, social-service, responsibility and togetherness. During their stay, volunteers realised the problems faced by the villagers, and worked towards finding a solution in an attempt to make their life easier. The entire experience was one of a kind for both the volunteers and the villagers, coming together to develop a deeper understanding of the other's background.

Alumni Meet

18th January, 2020

Echoes of laughter, memories of gold, and the foundations of everlasting bonds called upon hundreds of TSEC alumni to come together for an evening of enjoyable reminiscing of their youthful escapades. The current batch put up a dazzling performance for the former students who were also felicitated later.

Convocation Day

25th January, 2020

Raising a toast to the memories they made, to the laughter they shared, to the tears they shed, Batch of 2019 bid a bittersweet goodbye to their friends, teachers, and the brick building, a place that had become their haven - a forever home. Our chief guest Mr. Kishu Manshukani, the President of HSNCB along with Dr. G. T. Thampi Sir and other faculty members awarded the Ph.D. holders and the top 3 rankers from each department.

International Mother Language Day 21 February 2020

The National Council for Promotion of Sindhi Language (NCPSL), along with MMK College and TSEC, Bandra celebrated International Mother Language Day. The event was marked by the presence of Dr. G. T. Thampi, Principal of TSEC, Prof. Mani Iyer, Vice Principal of MMK with Mr. Ajit Manyal, Member of NCPSL and Mr. Deepak Watwani, Indian Playwright, Actor and Director. All the department faculty and students participated in several competitions like singing, dance, speech and poetry recitation in various languages

ISTE - TSEC Ascent 9 February 2020

ISTE-TSEC organised their annual fest Ascent in February 2020 which included Workshops on Stage 2 Amplifier Designing, Image Processing and Machine Learning conducted by Dr. Mani Roja, the Dean of Students Affair. These were followed by Python and Automation using IOT Workshops. The event witnessed participation of teachers as well. It was an exhilarating learning opportunity for electronics aficionados and Machine Learning enthusiasts.

Xeuron

The event saw massive participation and was a roaring success among the students. The Biomedical Department, under the guidance of Dr. Mita Bhowmick, Dr. Gauri Shukla, and Prof. Tanvir Daphedar organized several fun activities including a Hands-on AI/ML workshop, the BioQuiz, a 3-D Printing seminar, etc.

Legacy

5 - 6th March, 2020

The vivacious, multifaceted festival hosted a set of riveting events spread across two days in March. 'Symphony' and 'Aaja Nachle', the solo singing and dancing competitions packed with electrifying performances allowed students to showcase their unique talents. 'Shakedown', the intercollegiate dance competition organised by the Students' Council observed eager participation from various colleges all over the city. Among other events were the zippy 'Tug of War', the peppy BE and faculty dance and the invigorating 'Nukkad Natak' that left the audience in fits of laughter.

International Women's Day

9 March, 2020

To commemorate and appreciate the strength and empathy they embody, Thadomal Shahani Engineering College celebrated International Women's Day on 9th March. The event began with an exciting tug of war between teachers. The event boasted performances of students and teachers, the ladies had a gala time singing karaoke and participating in a quiz. The day ended with everyone dancing to a DJ' music. May all women shine, not just once but every day!

Traditional Day

13 March, 2020

Thadomal Shahani Engineering College celebrated one of the most anticipated days of the year: Traditional Day! A day where students from all the years came together with their ebullience and dance moves, dressed in their best ethnic attire, to see off the graduating class of 2020. Hundreds of pictures were clicked by everyone to create memories of this beautiful day.

COMMITTEES

CODECELL

TSEC CodeCell is a passionate organization with the critical objective of nurturing a culture of coding. CodeCell works not only to enhance coding skills but also aims to allegedly aid in personality development by bolstering confidence and inadvertently providing a platform to create a student-centered learning environment.

Workshops and seminars are conducted for beginners, introducing them to various computing languages, algorithms, concepts and innovative methods to approach a problem statement. For advanced coders, inculcating steady coding exercise to keep their programming skills sharp, harnessing their potential and helping students develop their skill set, and building their resume is our primary objective.

Weekly challenges, online and offline competitions are an initiative to encourage regular practice and robust competition among students. It assists students to explicate their boundaries, appreciate their uniqueness and grow in a technical aspect. We also conduct an annual Hackathon — TSEC HACKS in the even semester. Filled with unusual enthusiasm and sincerity, participants come up with solutions from scratch and implement them overnight. Another event that we held in 2019 was TRIDENT which was a 3 - hour coding competition with 3 challenges of one hour respectively. It was a tremendously challenging event with very enthusiastic coders working their passion all the way. We also held various workshops in the coming months in order to impart knowledge and momentum in our fellow coders.

CodeCell runs on the basis of logic, talent, interpretation and the ability to code while exploring and radically expanding the horizons of young students from their country to the rest of the world by providing them a comprehensive and integrated set of global learning experiences.

In the Photograph (L-R) :
Row1 : Chinmay Patil, Jay Shah, Ritika Talreja, Ishita Kotian, Rishab Saini, Akshay Galgali, Amol Sawane Rohit Mechwani, Kenil Shah, Malvika Rao
Row2 : Deepriya Sen, Twisha, Neha Makhija, Dr. G.T Thampi, Prof. Tasneem Mirza, Ankita Kar, Kaustubh Khavnekar, Kunal Desai

CODESTORM

TSEC CodeStorm strives to unwittingly provide a proficient platform for coding and software development. We collate several events to monitor the applicability of existing standards, programs, best coding practices and offer technical expertise to various strategic initiatives.

Our main event is an annual 32-hour Hackathon, which is customarily held in September. It is a combination of hardware and software competition wrapped around the theme of Blockchain, the record-keeping technology behind the Bitcoin network. During the massive thirty-two hour event we coax and encourage programmers to collaboratively code and incorporate this promising, indigenous invention to drive social impact.

Other events organized over the past year include a Machine Learning Workshop, a WordPress workshop, an insightful seminar on PHP scripting language and a Technical Treasure Hunt – the first of its kind in TSEC. This information-based scavenger hunt proved to be a thorough workout for the brain as the participating teams were required to put all their coding skills to practice and crack the clues.

Who said coding had to be boring ? At CodeStorm, our objective is to prompt coding interests by updating people on recent technologies and their corporate applications based on trending technical platforms and frameworks every week.

In the Photograph (L-R) :
Row1 : Siddharth , Anirudh, Saurabh, Piyush, Karan, Apracim, Partap, Miloni, Anezka
Row 2 : Jayesh, Rahul, Ritu, Prof. Chetan Agarwal, Dr. G. T. Thampi, Dr. Madhuri Rao , Prof. Sanober Shaikh, Dhanush, Jasleen, Aniket

CSI

The Computer Society of India (CSI-TSEC) strives to provide value-based technical education to guide and mold the character and personality of the students and generate technical awareness, therefore helping them keep abreast of the latest technologies in various avenues.

We convene numerous seminars, competitions, and fun industrial visits throughout the year. Our flagship events - Technext and Rubix are kept affordable, insightful and supremely tech-savvy; the former is annually held in the odd semester, while the latter is conducted in spring.

The academic year has proved to be exceptionally remarkable, for the committee enjoyed a glorious tenure. TECH-NEXT'18 focused on developing a set of critical technical and soft skills among budding engineers, playing host to innovative workshops that uncovered the elementary concepts and principles of level-1 robotics and power bank construction. While in TECHNEXT'19 workshops like Programming on Arduino UNO, Raspberry Pi and building a fully working website and e-commerce platform using WordPress and WooCommerce were conducted which helped the participants explore various technologies.

BITS Pilani alumni, Mr. Divyansh Saini and Mr. Himanshu Sikaria from SocialCops, a start-up dedicated to relentless advances and research in technology, inspired the young aspiring engineers, demonstrating the implicit and organic practice of inculcating the fundamentals of modern technology to the challenges faced by our country. The even semester kicked off with the SYNC Project club, an extension of Rubix'19. With its motto of training and preparing first-year students in technical projects, it rendered Rubix hit among the participants.

In the Photograph (L-R):

Row 1 : Surya Prakash Halwasia, Neha Alshi, Pallavi Vaswani, Sanika Dhavan , Nisha Shetty, Siddhi Maive, Kirti Talreja, Priya Rathi. Hasan Charoliya

Row 2 : Yash Dhage, Meghna Desai, Prachi Dalal, Dr. G. T. Thampi, Dr. Archana Patankar, Shriya Shetty, Hiba Hussain, Mahima Gupta, Aayush Makharia

Row 3 : Pranav Tella, Akshay Zantye, Jay Satoskar, Hriday Patchit, Vinit Soni, Aayush Parab

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E-Cell

The Entrepreneurship Cell (TSEC E-Cell) has the sole mission of generously providing its doctoral students with a mobile platform where they can think, innovate and create. It sincerely believes in shaping young entrepreneurial minds and helps hone their academic skills in the right direction.

Project Expo'19, an inter-college project exhibition organized on 11th March, ensured the participation of over three hundred students from different departments. It allowed students to showcase their technical abilities in front of a panel of competent judges and discover the various aspects of the industry.

The highlight of the TSEC E-Cell 2019-2020 tenure was the Annual Entrepreneurial Festival Embark, in September 2019. Events like Bid to Win and Suit up to Startup gave our budding entrepreneurs a platform to commence their journey. The panel of speakers at Startup Stories inspired them to keep pursuing the unforgiving but immensely rewarding path of entrepreneurship. We created a mark on so many young minds and we shall continue to do so till the very end.

The Government of India has seized several initiatives to unanimously support and boost entrepreneurial culture and start-ups across the country. Drawing inspiration from their ideas, TSEC introduced its incubation center with the help of E-Cell that will more materially aid such students with the statutory information and resources.

In the Photograph (L-R) :
Row 1 : Amruta Pawar, Divya Prabhu, Mrunmayee Rane, Amol Sawant, Gaurav Mirchandani, Anuj Shah, Sachin Vaishya, Sachin Nihalani, Ketul Shah, Pratik Choudhari, Swapnil Gite
Row 2 : Prof. Kumkum Saxena, Prof. Shilpa Verma, Prof. Tasneem Mirza, Dr. G. T. Thampi, Prof. Mudita Dixit, Prof. Uttara Bharti, Prof. Sanober Shaikh

IE(I)

With a motto to Innovate, Experiment and Implement, Institution of Engineers-India (IE(I)-TSEC) strives year after year to guide, educate and inspire the young and ambitious engineers in their respective fields; to instill in students a strong ethical background, thereby transforming the responsible citizens of our nation, ensuring the core branches of engineering continue to shine at the pinnacle of glory.

We kickstarted the year with the annual Inauguration ceremony centered around the theme "Renewable Energy and Environmental Engineering." Mr. Manab Kanti Bhattacharjee, Chief strategy manager of Bharat Petroleum Corporation Limited disseminated his knowledge and spoke about the grave importance of renewable energy and environmental engineering. The third edition of the annual newsletter Techflash was also distributed.

IE(I) celebrated its first technical fest Engineer's Month'18 with keen zest and burning zeal. The flagship event, Internship Expo was an enormously successful affair. The General and Technical Aptitude and Group Discussion rounds were carried out first, post which deserving candidates were qualified for the Personal Interview. An online photography contest was also organized for students to ostentatiously display their creative talents.

The even semester witnessed the committee fest TantrAvishkar'19 on 9th March 2019. Through technical paper presentation competition, students were allowed to showcase their research, bringing forth some amazing ideas. Poster presentation permitted the participants to present their work in a diagrammatic or graphical manner. Both events truly embodied IE(I)-TSEC's aim to inevitably generate new idea.

In the Photograph (L-R):
Row 1: Anjali Singh, Vishakha Nerkar, Khushboo Sharma, Khushbu Hasija, Chaitali Gaitonde, Dhrishti Gandhi
Row 2: Yavnica Poddar, Aamna Patel, Prof. Kiran Ghadiyalji, Dr. G. T. Thampi, Siddhi Pawar, Ruchira Patel, Vikram Apte

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IETE

The Institution of Electronics and Telecommunication Engineers (IETE) is India's leading recognized professional society devoted to the advancement of Science and Technology of Electronics, Telecommunication and Information Technology, Computer Sciences and related areas. "Tell me and I forget. Teach me and I remember. Involve me and I learn. "With an abiding faith in these words, IETE-TSEC focusses on providing a comprehensive theoretical and hands-on practical experience to all budding engineers, feeding the bright, inquisitive young minds and enables interaction with their equally zealous compatriots from all over the city.

We actively plan, conduct and sponsor various technical meetings, workshops, symposiums, and other educational programs, our primary focus is the furtherance of electro-technology and provision of a standard platform for all students to exchange ideas and information on technical topics of their interest and improve quality of education.

ELAN'18 offered a one-of-a-kind experience to students by providing an array of opportunities under one umbrella. The idea behind the extravagant annual fall event is to indoctrinate students in future-forward technologies through workshops and provide global exposure and esoteric knowledge.

Our second flagship event, OSCILLATION'19, served as a unique multifaceted manifesto. It promoted new ideas, encouraging active participation and genuine deliberation and thus stimulating all students to aspire towards creating a revolutionary legacy. The Circuit Building Workshop was a definite eye-grabber; the python workshop however, saw maximum participation, the programming started from basics and went up to advanced industry level concepts .

In the Photograph (L-R):
Row 1: Karan Balani, Bhavesh Purswani, Nirav Untekar, Ruchit Shah, Rushaan Hafiz, Vatsal Shah, Parth Parekh, Kartik Ulial, Nishant Shedale
Row 2: Sourish Dewani, Sneh Gehani, Rachana Acharya, Mohit Kursija, Siddhid Chaudhary, Hrushaant Pimpale, Vaibhav Sheth, Uday Bhirud, Akshat Shah, Jainam Shah, Pearl Jain, Gehna Garbani
Row 3: Raveena Nachani, Aishita Jain, Jeetika Khandelwal, Harsh Lohana, Narendra Patel, Roshan Shetty, Girish Chawla, Darshil Shah, Tanvi Navani, Saniya Gera, Mishika Sippy, Jinal Jain, Diya Baldota, Simran Javeri
Row 4: Puneetraj Makhija, Usama Khan, Mitul Champaneri, Rahul Tawde, Dr. Tanuja Sarode, Dr. Thampi, Vinit Sumani, Rhivu Mitra, Sailesh Chugh, Aditya Bhartia

IIChE

IIChE-TSEC is the students' forum of the distinguished professional body, Indian Institute of Chemical Engineers. The committee consists of thirteen students from the chemical engineering stream, all working distinctively towards the promotion and the success of its annual technical symposium ChEMGERNCE.

Our objectives include promoting the advancement of chemical engineering science and drawing up a code of ethics in the profession; ensuring a regular exchange of ideas with other national and international professional institutes in the field; providing students with an opportunity to put their knowledge to test through active participation in competitions, debates and quizzes and encouraging research to open up doors of new and already existing possibilities.

Held every year in the odd semester, ChEMERGENCE features numerous events which include memorial lectures, seminars, symposia, panel discussions, exhibitions, etc.

True to its notorious reputation, ChEMERGENCE'18 was electric. It offered the most attractive platform, ensuring two days of intensive interface with the best of brains in chemical engineering and allied fields. Among the highlights was Heat-X, an event where participants were supposed to fabricate the most efficient heat exchanger adhering to the rules and regulations laid out by the committee on the parameters like dimensions and choice of material for construction. Poster presentation remained a massive hit. Students also enjoyed the Scratch design competition which involved engineering a given process, modifying and stimulating it to reach the desired outcome.

In the Photograph(L-R):
Row 1: Heral Parmar, Sohail Khan, Mitesh Chauhan, Hasan Shahid, Apurva Chaubal, Komal Kankani
Row 2: Parth Sheth, Nitesh Ramani, Abhishek Pandey, Dr. G. T. Thampi, Prof. Prasad Parulekar, Rudra Shirodkar, Vivek Patel, Prithviraj Wavre

ISTE

The Indian Society for Technical Education is a national, professional non-profit AICTE board-approved committee. ISTE is a student body of Thadomal Shahani Engineering College, which, under the guidance and support of the teachers Prof. Uttara Bhatt and Prof. Anushree Gupta, has always experienced successful tenures and organized grand events, raising the bar higher each time.

Our inaugural fest 'CRYPTECH' is held annually during the odd semester wherein various technical events and workshops are organized. Receiving an extraordinary response to the Arduino Level-I workshop in CRYPTECH'18, Arduino Level-II workshop, a successor to the former was held in February during ASCENT'19.
We focus on the personality development and enhancement of the technical skills of students. We staunchly believe in the saying "All work and no play makes Jack a dull boy" and to best exemplify this we conduct various technical workshops and seminars throughout the year.

Our principal objective has always been to assist and contribute to the production and development of top-quality skilled engineers and technicians needed by the industry and other organizations.

In the Photograph(L-R) :
Row 1: Nikita Pardeshi, Abhishek Shukla, Ameya Tadavekar, Alok Yadav, Khushboo Sharma, Aditya Bhatia, Nishant Sharma, Ankeet Singh
Row 2: Samit Sancheti, Himabindu Reddy, Veshita Sai, Dr. G. T. Thampi, Prof. Uttara Bhatt, Simran Saxena, Lisha Jain, Zaid Shaikh

MADCLUB

Founded in December 2018, Mobile App Developers Club [MAD Club TSEC] completed its maiden tenure in the academic year 2019-20.

The club was set in motion to create an environment where a group of students shall come together, trade ideas and collaborate to work on real-life applications using trending technologies, thereby helping the students boost their technical knowledge and application skills and contribute towards the increasing reputation of our college. Our tagline, "Innovation is MADness", is a distillation of who we are and what we believe.

We came up with our very first innovation in the form of 'The Official TSEC Mobile App' which acts as a platform to bind all TSECites and solves some commonly observed difficulties effectively. Its distinctive features include a personalized chat interface that makes communication between teachers and students easy and unmediated, an e-library system for maintaining track of the books issued and returned to the library, and an interface for online food ordering from the canteen.

Last spring, we conducted a two-days Java and Android App Development workshop aiming at introducing students to an Android framework, familiarizing them with the essential object-oriented concepts. To promote practical learning, students were assigned an easy task of developing a Game of Dice that convinced the participants that fun and learning indeed go hand in hand.

In the Photograph (L-R) :
Row 1: Khulud Fasahate, Rohit Methwant, Jay Devnani, Harsh Kukreja, Ashutosh Pandey, Nilesh Solanki,Yash Lala, Aayush Sanghavi, Parth Mantri, Aditi Battuhwar, Shehreen Khan
Row 2: Divakar Pandey, Mohammad Usman Khan, Ankita Kar, Prof. Darakhshae Khan, Dr. G. T. Thampi, Prof. Shashi Natu, Krishna Dubey, Rahuf Nair, Komal Aswani

MCL

Monte Carlo Localizers' (MCL-TSEC) acts as an interface between the student body and the external world.

MCL dedicates efforts to accentuate the engineering wonders of the modern world. Owing to the importance that culture holds in shaping the youth, MCL promotes sports and other extracurricular activities, offering exciting campus experiences and capturing memories that students will hold close to heart long after leaving the institute.

Constantly heartened and supported by the principal, this team aims to identify, develop and promote active participation, inspire vision and action to encourage their fellow mates to work together to build a fulfilling future through the exchange of ideas and information.

MCL is laudative of its loyal audience and is earnest in efforts for praising students for their endeavours, just as appreciative of the college for the opportunities provided to them

In the Photograph (L-R) :
Row1 : Girish Chawla, Chinmay Patil, Mohit Lekhrajani, Aayush Makharia, Harsh Lohana, Tanishq Rao
Row2 : Urja Mawani, Pratik Choudhary, Neeraj Khadagade, Dr. G. T. Thampi, Prof. Monica G. Tolani, Shardul Prabhu, Harsh Belani, Nikita Pardesi

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NSS

Established in 1998, NSS TSEC aims to inculcate social welfare in students and to provide service to society without bias. Our motto "Not Me But You," reflects the essence of democratic living and upholds the need for selfless service. It perfectly embodies our brand promise and captures our commitment to make an impact while fiercely fostering our ambition of "Personality Development through community service at large."

We started off with the membership drive to encourage and inspire students to participate and contribute to society. The next significant event was the adventurous monsoon trek to the scenic Karnala Bird Sanctuary, where the intrinsic value of rich biodiversity and the various conservation methods were emphasized upon. Other ambitious projects we undertook include "Youth and Truth" (in collaboration with Isha Foundation), "The Art of Self-Healing", "Tree Plantation Drive" and many more. . We organized a "Heart Marshall and Cardiac Arrest Resuscitation Training Program", a seminar on "Anti-sexual Harassment" and "Mock Fire Drill" session.

Blood donation drives were conducted in both semesters by the Tata Memorial Department of Transfusion in collaboration with college. We celebrated the Joy of Giving by accepting donations of clothes, books, toys, stationery. The volunteers also visited orphanages and old age homes during Diwali season.

The seven-day Residential camp at Ambewadi, Anandwadi, Fanaswadi, and Tapelwadi region witnessed various volunteer activities like mass awareness campaign through street play, cleanliness drive, setting up health check-up camps, disaster management workshop and many more. Another feather in the cap was our contribution to the Kerala Relief Fund and the Swachh Bharat Abhiyan.

In the Photograph (L-R) :
Row 1 : Sanjay Rej, Dipesh k Thakur, Aakash Malt, Shraddha Sharma , Manthan Kudtarkar, Gaurav Mirchandani, Ovesh Patel, Sankalp Sharma
Row 2 : Chinmay Umrikar, Uday Mhapsekar, Amol Shinde, Prof. Sachin Nalashkar, Dr. G. T Thampi, Prof. Vandana Kadam, Rutuja Pawar, Komal Aswani, Nidhi Nathani

ROTARACT

The Rotaract club of Thadomal Shahani Engineering College aims to provide selfless service to our community by generating awareness, leading action and extending support, thereby promoting goodwill and peace. Our motivation put in simple terms is, "Service Above Self", we aim to be "The Voice of Change." We strive to achieve a lasting change in society, through a combination of local oversight and utilizing the resources of an international organization.

We pay visits to NGOs, and also collaborate with them for numerous events such as Donation Drives, and Stray Animal Feeding Drives. Other Community Service activities include Beach Clean-Up Drives, and COVID-19 Awareness Programme. Annual Open Mic's and Futsal's are also conducted, under our Club Service Avenue to bring some fun into the lives of engineering students.

Open-Mic is an annual fun event that brings together active citizens for a great social cause and serves as a platform to the upcoming hidden gems, cajoling many singers, poets, comedians, and dancers in the audience to take the stage to showcase their talent. Futsal is always a smashing success. It was a knock-out football tournament with all thirteen participating teams playing good defense, going on a scoring spree to move to the semi-finals and finals.

We always try bringing new energy and motivation to everything we do and encourage the development of dynamic friendships and professional networking. Our goal is to advance world understanding and harmony through the improvement of health, empowering education, and alleviation of poverty. With active participation and cooperation we can positively impact our fellow beings and together build a better world!

In the Photograph (L-R):
Row 1 : Kinjal Shah, Anezka Virani, Keven Shah, Affan Charolia, Ekta Bhatia, Simran Manshatamani, Srisha Chhabria, Krisha Sheth
Row 2 : Dheepanshu Sukhija, Yashovardhan Sorap, Hasen Bhatia, Dr. G.T. Thampi, Srishti Mohan, Farida Olia, Prea Jain

SPORTS COMMITTEE

The TSEC Sports Committee is formed every year with the objective of not only identifying athletic aptitude, but also promoting sports as an impressive stress relief technique to rejuvenate one's mind and body. It successfully fulfilled its motto by sending contingents to represent the college in various intercollegiate meets in and around Mumbai and also by hosting a wide array of events in college. The Sport's Committee strives to promote professionalism, sportsmanship and teamwork to students whilst also popularising sports as a form of a healthy lifestyle.

The academic year 2018 – 2019 was extremely eventful for TSEC in the arena of sports. The annual intercollegiate festival of TSEC, 'Yudh' hosted about fifty colleges from all over Mumbai. Indoor events like chess, carom, table tennis and box cricket garnered a lot of attention. Outdoor sports like badminton, cricket, volleyball, basketball etc were held at Andheri Sport's Complex.

Footcup'18 was a substantial success and witnessed an overwhelming turnout, with the roars of the audience reverberating around Hotfut South United Sports Arena. Their flagship event, TSEC Marathon, in collaboration with Nawjee Foundation helped raise funds for educating the underprivileged. Spanning approximately eight kilometers from Bandra Fort to TSEC Campus, the event was open for all age groups.

Later that year, Rishikesh Pawar made TSEC proud and captured the headlines by swimming for more than ten hours, in the Arabian Sea, implementing the breaststroke technique.

In the Photograph (L-R) :
Row 1 : Arushi Gupta, Kritika Makhija, Arthata Harwande, Anshika Kadhane, Parth Shah, Aditya Kadam, Komal Talsyani, Bhavisha Merchant, Apeksha Gurav, Pooja Doshi
Row 2 : Pratik Singh, Sweety Rohra, Owais Merchant, Dr. G. T. Thampi, Dr. Msairoje Edinburgh, Deepak Raichandani, Arun Sachdev, Tanishq Rao
Row 3 : Vishesh Singh, Sagar Chawla, Jason Dsouza, Krishna Rathod

Students' Council

The TSEC Council serves as the formal communication channel between the students, faculties and the administration. In addition to organizing and planning events that contribute to college spirit and community welfare, the council is the voice of the student body that works tirelessly to endorse and enforce an environment conducive to educational, personal and spiritual development.

Our goal is the promotion of interests of the college and the involvement of students in its affairs. In co-operation with the board, parents, and teachers. We try our best to help share student ideas, interests and concerns with the college-wide community.

The tenure commenced with the effervescent AVALANCHE'18. To kickstart student engagement and provide the freshers with a smooth transition, this intercollegiate event comprised of several engaging activities, fulfilling its pledge to welcome the young first-year students with open arms.

The Dance and Drama contingents grooved to victory at IIM Ahemdabad's annual cultural fest, Chaos. The latter also bagged the first position at SNDT (Santacruz), NMIMS and it's home college. The fashion show team made us proud by securing the first prize at RD National College and the second position at KJ Somaiya College (Sion) and SNDT University (Marine Lines).

Held in full pomp and triumph, TRIFLES'19 hosted a set of enthralling events of grand stature, witnessing stellar performances by renowned Bollywood artists, popular DJs and stand-up troupes. Spread across three days, the extravaganza burlesta of fun, frolic, fashion and flash was well received by one and all.

The Student Council, carried forward their legacy under the guidance of our new General Secretary Mr. Vinit Soni by promulgating the cultural festival Legacy'20. The festival was celebrated with aplomb, with various inter-collegiate singing, dancing, drama and sporting events. The two-day festival culminated with the famed BE and teacher dances.

The council also held a Women's Day event to commemorate the strength of all women, and capped the year off by organizing the famed Traditional Day where all the students of our college got together, danced, clicked pictures and made merry.

In the Photograph (T-R):
Row 1 : Purnima Chabria, Hemant Rajpal, Pranay Kishnaja, Vishal Somani, Ishita Gupta, Anushka Bhagchandani, Apeksha Gurav

Row 2   Aditya Bhatia, Owais Merchant, Diksha Manwani, Dr. G. T. Thampi, Dr. Maninja Edinburgh, Neha Jaipal, Omkar, Aditya Shah

CONTINGENT

TSEC HERO'S

TEDxTSEC

There was an idea. to bring together a group of remarkable people to help achieve the shared goal of spreading transformative ideas with the local community in the form of TED talks. Being the first of its kind, TEDxTSEC established itself as a window into an optimistic future with its theme—"Dreams, visions and everything in between".

To kindle the flames of reading as a hobby, TEDxTSEC in collaboration with Booklane, an online book retailer, organized a fun giveaway contest for students to win free books and avail massive discounts. United with Safarnama, they promoted local entrepreneurs by providing scrumptious snacks during TSEC's traditional day.

2018-19 ushered in a new chapter for TSEC with an event that focussed on Technologically Entertaining and Designing a better future—TEDxTSEC, an independently organized event that sparked deep discussion, inspiring personal reflection, and consciousness, thus raising and promoting values of personal as well as collective well-being.

The brilliance of the speakers won the hearts of the audience with singer Abuzar Akhtar talking about creating a second chance for oneself; CEO of Eastmen Chemicals, Rama Shah, shared her experience as a female entrepreneur; Sreemay Rath, an eighteen-year-old bestselling author, emphasized the importance of speaking your mind without any hindrances. Anansh Prasad, an educationist, and energy engineer focused on the importance of 21st-century skills and journalist and author; Jagdish Rattanani, reminding us to listen to the voices that tend to be ignored and Dr. Ishmeet Nagpal, a feminist and social activist, who talked about mental health and invisible disabilities and the motivational stories shared and the success of the event has made sure that TEDxTSEC will have many more powerful ideas to share in the future.

In the Photograph (L-R) :
Row 1: Tanay Ganeriwal, Yukta Sethi, Harshil Mehta, Harsh Harwani, Parth Mehta, Ananya Arora, Harsh Navani, Sneh Kothari, Shruti Naik
Row 2: Deepak Wadhwani, Aanisha Gyani, Chaahat Amesar, Harsh Sharma, Muneeb Mastan, Raj Bohra, Milind Vakharia, Aditi Kankani, Payal Raghani, Harsh Kapadia, Soham Madhav, Akhay Changwani, Yashovardhan Sorap
Row 3: Karan Navani, Keven Shah, Jai Mansukhani, Dheepanshu Sukhija, Dr. G. T. Thampi, Pranita Rao, Aditya Bhatia, Aditya Ranjankar, Yash Lala, Shlok Mehta

AWARDS

Awards

Constantly adding golden feathers to their hats and excelling in all walks of their lives, individuals in TSEC have an expansive skill set. A myriad of factors are taken into consideration to identify and bestow awards to TSEC students annually. The following section is a commendation to the jewels of this institution.

Academic Year 2018-2019

Gold Medalists

Mr.Ishan Raina

Ms. Persis Shah

Principal's Awards of Excellence

Aadhar Gautam

Jatin Hemwani

Kondamundi Sarat Srikala

Neha Makhija

Nikhil Palande

Pranita Rao

Sagar Shah

Shubham Singh

Simran Kukreja

Tanmay Padwal

Venkat Subramanian

Gauri Jamsandekar

Hall of Fame

Vrajesh Sharma	Vihang Jumle	Shreyas Gujar
Karan Sharma	Aditi Desmuck	Neeral Mulchandani
Digvijay Ghotane	Kiru Purmia	Ruchika Mulchandani
Rashi Gupta	Farhan Chougole	Karishma Makhija
Parimal Joshi	Rohit Singh	Siddharth Menon
Arshit Chabukswar	Vivek Patel	Ritu Arya
Akash Mishra	Raj Bathija	Nimesh Sule

TSEC Ambassadors

BIOTECHNOLOGY
Ruchita Rane
Alishka Garg

BIOMEDICAL
Priyanka Fernandez
Faizah Ansari

CHEMICAL
Nandita Chattopadhyay
Roushan Singh
Shardul Prabhu

COMPUTER
Monil Shah
Sakshi Gupta
Richa Doshi
Anuj Jain
Aswathy Menon
Raina Bangani
Sakshi Samant

EXTC
Ishan Raina
Tanvi Shivgan
Kartik Kothari

IT
Akash Mishra
Shubham Singh
Persis Shah
Farheen Chougle
Shivani Wadkar
Ronal Chouhan

TSEC Leaders

Ruchika Mulchandani
Mahek Rajesh Matani
Gauri Jamsandekar
Harsh Belani
Mohak Manghirmalani
Neha Makhija
Kaustubh Khavnekar
Tanmay
Chirag
Varun Shenoy

Harsh Tulsiani
Akash Mishra
Pranita Rao
Aditi Kathin
Avish Porwal
Abhishek Pande
Nitesh Ramani
Shardul Prabhu
Neeraj Khadagade
Simran Kukreja

Mauri Notani
Sagar Shah
Prithvi Hardasani
Siddhart Menon
Sakshi Samant
Tanya Omprakash Gupta
Yashil Kalyani
Varun Bhavnani
Pourus V.Wani-Deshmukh

Semester Toppers

BIOTECHNOLOGY

SEM III	Vrushali Maste – 9.78
SEM IV	Rakshita Pathak – 9.33
SEM V	Deepakshi Kasat – 9.23
SEM VIII	Reeti Prajapati -9.22

BIOMEDICAL

SEM III	Umar Armisha– 9.81
SEM IV	Kangane Tejal – 9.27
SEM V	Kangane Tejal – 9.27
SEM VI	Bhan Avni – 9.27
SEM VII	Hemwani Jatin – 9.86
SEM VIII	Shah Bhavi – 9.68

CHEMICAL

SEM III	Nadkarni Sarvesh – 9.5
SEM IV	Bhandari Govind– 9.39
SEM V	Pathari Yash – 9.89
SEM VI	Chattopadhyay Nandita– 9.43
SEM VII	Padwal Tanmay– 9.82
SEM VIII	Khan Aadil- 9.27

EXTC

SEM III	Jaiswal Vikas–10
	Jha Ajay–10
	Patel Prayag–10
	Patil Suditi –10
	Warkhandkar Riya–10
SEM IV	Saxena Simran–9.56
SEM V	Saxena Simran– 9.81
SEM VI	Sahani Vibhor– 10
SEM VIII	Shaikh Danish –9.52

COMPUTER

SEM III	Chandiramani Milan–10
	Chugh Rahul–10
	Jha Bishwajit–10
	Nasta Samay–10
	Wadaskar Siddhant –10
SEM IV	Chabbria Saisha–10
SEM V	Gyanchandani Priya – 9.96
	Gyani Amisha– 9.96
	Naik Shruti – 9.96
SEM VI	Bagani Raina– 9.77
SEM VII	Parwani Danesh– 9.68
SEM VIII	Majmundar Pranali- 9.53

IT

SEM III	Bhatt Mahima – 10
	Parekh Shakshi - 10
SEM IV	Shaikh Muskaan -9.54
SEM V	Shaikh Muskaan– 10
SEM VI	Chauhan Urvash – 9.88
SEM VIII	Thombre Jui - 9.2

Academic Year 2019-2020

Gold Medalists

Barrister H.G. Advani Gold Medal Winner
Prithveeraj Wavre

K.M Kundani Gold Medal Winner
Amisha Gyani

Principal's Awards of Excellence

Jai Mansukhani
Anirudh Poroorkara
Aadil Mukhi
Krishna Dubey
Nivedita N. Lodha

Miloni Vasa
Saisha Chhabria
Simran Saxena
Disha Dhadd

Hall of Fame

Mitesh Chauhan	Deevanshu Khatri	Mitul Champaneri
Apurva V. Chaubal	Harshit Gupta	Mohit Budhwani
Sachin Vaishya	Ankita Kar	Anju R. Padia
Sanjay Rej	Moksh Rajesh Jain	Saurabh Ramakant Chavan
Radhika Khator	Riya Shetty	Aditya Bharria
Diksha Manwani	Shriya Shetty	Natasha Lalwani
Yuvraj Chettri	Mayuri Rane	Ruchira Patil
Raj Bohra		

TSEC Ambassadors

BIOTECHNOLOGY
Deepakshi Kasat
Rakshita Pathak

BIOMEDICAL
Riya Shetty
Ishita Gupta

CHEMICAL
Disha Dhadd
Uday Mhapsekar
Yash Pathari
Prachi Joshi

COMPUTER
Ashay Changwani
Moksh Jain
Priya Gaianchandani
Ankita Kar
Shruti Naik
Amisha Gyani
Saisha Chabria
Juhi Gaianani

EXTC
Simran Saxena
Himabindu Reddy
Eeshita Sai

IT
Krishna Dubey
Pratik Chaudhary
Komal Aswani
Anuj Shah
Hiba Husain
Mahima Gupta
Anezka Virani

TSEC Leaders

Vinit Santani
Anuj Shah
Krishna Dubey
Hiba Altaf Hussain
Komal Aswani
Anirudh P
Nivedita Lodha
Sidhi Anil Pawar
Apurva V. Chaubal

Sachin Vaishya
Mayuri Rane
Rahul Tawde
Urmi Jethani
Prachi Dalal
Diksha Manwani
Rutuja Pawar
Mitesh Chauhan

Haren Bhatia
Neeraj Patil
Kunal Desai
Amol Shinde
Simran Saxena
Zaid Sheikh
Deepanshu Sukhija
Chinmay Umrikar

Semester Toppers

FE SEMESTER TOPPER

Jangid Parth Rasu Kamala

BIOTECHNOLOGY

SEM IV	Jha Ashwini Jagdanand A
SEM VI	Kallanja Deepthi Sadananda Lalitha
	Patil Ruchira Pranay Pranita
SEM VII	Bhosale Anjali Chandrakanth P

BIOMEDICAL

SEM IV	Dsouza Valentina Robert Regina
SEM VI	Shetty Riya Prabhakar Vidya
SEM VII	Shetty Riya Prabhakar Vidya

CHEMICAL

SEM IV	Salgaonkar Kashmira Tushar Leena
SEM VI	Pathari Yash Subhash Kalpana
SEM VII	Bhat Nissim Nikhil Seema

EXTC

SEM IV	Nalwade Prachi Pravin
	Warkhandkar Riya Bharat
SEM VI	Saxena Simran Anand Aparna
SEM VII	Pittala Eeshita Sai Manimanjari

COMPUTER

SEM IV	Jha Bishwajit BirendraSangeetadevi
	Nayak Vivina Vivekanand Rohini
SEM VI	Naik Shruti Rajendra Jayashree
SEM VII	Chhabria Saisha Ajay Mishika

IT

SEM IV	Bhatt Mahima Kardam Chetna
SEM VI	Chhabriya Tamanna Sureshlal kajal
	Shaik Muskaan Mohd Yahya Asma
SEM VII	Lodha Nivedita Nirmalchand Pramila

EDITORIAL

"I just teach the way I should have been taught."

To be labelled as an iconoclast is the new cool of the 21st century. But back in medieval Greece, the iconoclasts were not considered quite the trendsetters they are considered today. Iconoclasts boldly reject the established norms of society. Circumstances get the better of them and they start to see the world in a way one cannot even begin to fathom. The definition of iconoclasm changes with the belief it challenges. This brings us to the modern world, where there exist beliefs which are more varied than ever before.

When I sat down to think about when I challenged popular belief, I stumbled upon a few difficulties. I've had a fairly normal childhood and a rather mundane way of living. So, I've never had the opportunity to rise above mediocrity and gain a different perspective. Thus began a furious obsession with finding the iconoclast within me and challenging popular belief every chance I got. In all honesty, challenging norms is not hard, seeing through the challenge is the tough part. Iconoclasm was unkind to me, so to gain inspiration, I began searching for other practitioners of iconoclasm. I never found the inspiration I needed and in a few months, I lost the will to be an iconoclast.

During this time, the university I attended was hosting a specialized panel of our generation's most radical thinkers. One of the members was Sal Khan, the founder of Khan Academy. Luckily, I got to interview him.

Sal, short for Salman, was what you'd call a typical genius. Graduating from the best universities in the world and working as a financial analyst, most would believe that he already cracked the code to success. Sal failed to think so. He slowly migrated towards tutoring as he always had the affinity for sharing his vast knowledge. Quitting his job, he started Khan Academy. His main aim was to provide everyone with quality education free of cost and as comprehensive as possible. At the end of the interview, I asked him what made him do what he did. He replied by saying, 'I just teach the way I should have been taught.' That is when I realized Sal was an iconoclast, in the truest sense of the word. He challenged established beliefs without realizing it.

Just then I realized what I was looking for was staring at me right in the face. My "Education". Everyone has an opinion about our education system including myself. If I want to learn in the manner I best perceive, I don't have to challenge the system but the way I think.

Whenever our education is spoken about, the unfairness of the system, the hoax of the marks, the cutthroat competition and the unnecessary marks disparity is what is spoken about. Nobody is challenging the methodology of the teaching! What we need to change is the way said knowledge is imparted to us students. This is finally where I found my inner iconoclast. I now find the beauty in learning and learn not because I have to but because I want to. By professing this method of learning, I now hope that someday my way of looking at education becomes populist and others look at it the same way too.

Anmol Bajaj

Life

Life is surprising at times,
still not quite surprising.
For once it seems exhilarating,
at other times its just mundane.
One day I'm at the pinnacle of life,
other days I just feel like drifting away from all my thoughts.
Sure there are ups and downs to everything,
Good memories, bad trips,
real enemies, fake friends.
Its just a part of life we say,
it's just a phase, it'll pass they say.
What goes on in one's mind can be haunting,
little do we know the person sitting next to us
could be thinking of doing something daunting.
It is sad but we all know it's true,
going back or not is the option we have to choose.

Life is surely a rollercoaster,
with tight turns, steep slopes and inversions.
At the end it leaves me feeling thrilled and nauseous.

We've all got our own flaws and imperfections,
some overestimate while some underestimate themselves.
When will find the balance I wonder,
as I ponder over this at 3am.
Sweaty palms, teary eyes, dry mouth,
got a blank mind but millions of thoughts.
Immersed in my own emotions,
no one gives a damn.
Deep inside my own mind I ask myself
Am I good enough?

Life is just a puzzle,
everyone's got their own different pieces,
Trying to fit in rather than making the pieces fit.

The universe seems so complex,
the knowledge is profound.
I'm just a tiny speck of dust,
I still try and convince myself
I'm pixie dust;
different from others, unique in my own way,
Its what gives me power I say;
Yet I fall into this black hole of ifs and buts and oughts.
Making myself believe that the universe has a plan is the
hardest thing to do,
but here I stand with a smile on my face,
hiding things that my tiny little brain can't contain.

Life is a race,
everyone is running, fighting for the best.
I keep telling myself
you're doing great, you're almost there.
Don't know how to describe in words how I feel,
still making it through the day.
Here I stand alone.
Thinking about the same things over and over again,
re-enacting the scenarios isn't going to help.
It's just going put gasoline in the fire that's raging within
me.
Still trying to keep my fire lowlit and accepting it.
Moving on seems like the right path,
but I wish it were easier than this.
Knowing I'm not the best sucks,
but accepting that I'm trying helps.
A breath of fresh air seems impossible to find;
The kind of fresh air which clears
not just the mind but my entire soul.
Inhaling self worth and exhaling self doubt.

Just as Thomas Edison's last words were:
"It's very beautiful over there",
I don't know where there is, but I believe its
somewhere and I hope it's beautiful.

Anshu Kathale

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Engineering - My Perspective

Engineering is a great journey of 4 years where we get to learn a lot and evolve, not only interms of curriculum and age, but also maturity, mental ability and skills through hardwork and dedication.

Being in the I.T field my thoughts would be aligned with my technical field, but the message I want to convey may apply to all streams of engineering. I frequently think of the different reputed universities and engineering colleges in India and try to evaluate what may be the differences because of which there is an unusual gap in abilities of students that pass out from different universities.

In this process I realised that colleges have a reputation not only because of their infrastructure, facilities or faculty. What makes them different is students in those colleges. Students according to their ability, clear the entrance exams and get into different reputed colleges. But as it's said "a country is made by its people", the capabilities, innovation, dedication and sheer hard work the students put in, makes them and the college stand out from others in the real world.

All the engineering curriculums are similarly fashioned and designed with minor changes. Though the curriculum is similar the methods of teaching and learning vary largely from university to university. With the world moving at a very fast pace, there is a need to adapt with the changes. Many believe, and blame the curriculum for not drawing a parallel with real world technology, but that is not the real problem. The reality is, that the curriculum always aims to make the basics clear, but it is our duty to look beyond the horizon of our curriculum and try to align ourselves with the world while keeping our basics clear.

At this stage of life, learning should be from inquisitiveness and willingness. It's rightfully said that "self learning is the best learning". Awareness and guidance is often required but again "You get what you seek... eventually" and "Where there's a will, there's a way".

So what I want to convey is that we must get out of our comfort zones, explore the world (at least in our respective domains), collaborate with people, keep away negative emotions and grow.

I end by saying "It's sometimes impossible to see the world entirely but look for entirety in what you do and that is as good as exploring the world."

Krishna Dubey

"Your order sir?"

"One spinach-corn sandwich with a glass of fresh lime soda, sweet. What will you have, Neha?"

"I'll have the same sandwich and Ice tea, thanks."

Sahil and Neha were 'best friends'. They often went to different snack houses after college, but their friends didn't know this. This was the only way they could talk to each other, openly, without being teased. And they spoke: they gossiped, discussed and debated. They spoke about everything- from affairs to current affairs. They knew each other's secrets, but no one knew theirs.

Today, as they were waiting for their order to arrive, they were talking about their day in college. Just then the waiter kept their sandwiches and drinks on the table and left. Now that the waiter couldn't eavesdrop, they could talk about their lives and emotions, and share newer secrets. But today, they didn't have new secrets. So, they just began eating.

Neha sipped her tea and said, "So..... What's something that you've always wanted to tell everyone around you?"

Sahil did not expect that question. However, as soon as he heard the question, he knew the answer. He looked at her, momentarily smirked and then pretended to think.

Neha noticed the smirk. "What were you smiling about, Sahil?"

"Nothing, I was just amused by the question," he replied before she could even complete. He paused briefly, then said, "There are so many things I wish I could tell people. I do stand-up comedy and people think comedy is just about telling jokes. It's not. Anyone can tell jokes. It's about writing jokes on a topic, structuring it in a way that it makes sense and then presenting the whole topic on a stage where people have high expectations from you. Even perfectly written jokes fail if your delivery is not flawless. It takes a lot of trial and error to get the delivery right."

"Wow."

"I also want to tell people how IIT coaching classes are a scam," Sahil continued. "They charge the same money even if they know that a particular student won't clear JEE. They pay toppers to advertise for them, and parents of IIT aspirants foolishly believe them. Also, the government works for the people and it is not the other way around! It is okay to question the government. You need to criticize them if they're not fulfilling...."

"Us."

"I'm sorry, what?"

"You don't want anyone to know about us?"

Neha's words hit Sahil's heart like a bullet. Neha could hear his heartbeat.

Sahil was confused, "Wha.. wha.. what about us? The fact that we meet secretly?"

"No. That smirk. It spoke for you. After that I didn't even hear your words clearly. Why can't you just tell me that...."

"Tell you what, Neha?"

"That you love me, more than anyone else."

There was silence. Sahil broke the silence while slurping the last sip of his soda.

He held Neha's hand, and softly said, "It wasn't the smirk. You knew it all along. And you didn't even let me know. I didn't tell you because I feared it would affect our friendship and our subsequent meetings would get awkward. But if you knew it already, why did you want me to tell you?"

Neha tightened her grip around his hand and replied, "Because I love you too, you clown."

They both laughed. Sahil was overjoyed and relieved. They tipped the waiter and left, holding hands. Sahil couldn't wait to tell the world the only answer to Neha's question, "What's something that you've always wanted to tell everyone around you?"

Neil D'Costa

"Because I love you too, you clown"

A Day

Maybe you'll wake up crying,
With no memory of the past,
With every stumbling step, you will be trying,
To master the abilities you had last.

And as the day begins, you'll learn,
And while bruises from tripping slightly burn,
You'll keep playing regardless,
Till noon arrives bringing the inside mess.

That's when you'll look for identity outside,
A person, a thing, a way to attach to,
And what takes over is ego and pride,
Clouding the sun so it can't shine through.

It will rain from the clouds and your eyes;
But, you will surely become more wise,
As the evening arrives and you've battled enough,
It doesn't get smoother, but prepares you for the rough.

And from dawn onwards you'll understand,
That the day is made of moments so tiny,
Everything comes and goes, nothing's here to stand,
It's all about having more moments as shiny.

As the stars, that have arrived with the moon,
At which you only have the power to lay and gaze,
So you'll close your eyes, to yet again wake up and be fed with a spoon;
After momentarily being one with the universe, in a state of daze.

Parth Dhila

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Something you've always wanted to tell everyone around you

Why You'll Never See Me Eating After Anyone

I remember my grandmother telling me solemnly that it's a sin to let others eat your 'jootha'. That you should not eat after others and neither let anyone eat after you. This is a common preaching in Hindu culture. And since my grandmother never divulged into the whys and hows, my impressionable mind, took it too seriously. I was eight years old.

It was ten minutes past twelve and I couldn't wait for the dispersal bell to ring I left my school building and was hit by the ubiquitous heat. With my scalp tingling from the tight braids and my stomach demanding food, I marched towards my school bus, ready to get home. I entered the bus and noticed most of my friends were already present and had assembled at the back. On approaching them I learned that Muskaan had bought a vada pav and was sharing it with everyone. By the time it reached me everyone had had a bite. "Taste this Prachi. It's delicious."

"Oh, no thanks."

"Don't be shy, have some." Muskaan encouraged. Not wanting to seem ungrateful, I took a very dainty bite and tried to hide a shudder. Losing my appetite, I wondered about the repercussions. Later that evening I told this to my parents. But before I could get to the part where I had to take a bite, they made a face and laughed. "You made a good decision by refusing to eat. Who knows whether they had brushed their teeth in the morning or not?" My father joked, and I cringed internally. Was that the reason why eating food after others was considered a sin? To avoid spreading germs and diseases? During my play time, I recounted this to my friend Nikita. "What do you think happens on sharing saliva? Do you think something bad will happen?"

"I... I hope not." She replied.

"What is it? I know you want to say something." "It's just that we are being taught about diseases and tuberculosis is spread by saliva." I paled.

"But I don't think you should be worried. You would certainly know if someone had TB." She tried to reassure me. I was not. Back at home I Googled symptoms of diseases spread by saliva. I made a note of whatever I could. Some were common like cough and fever. But some were rarer and fatal. Realizing this was not helping me I went to sleep. That was not the end of my misery. Another thought hit me. What if because of me, my other friends had sinned? Had someone told them that eating after others was immoral? The next two days passed in a worry induced daze. On the third day my head hurt, and I was feeling cold. Terrified of what this must mean I went back to the list I had made to confirm the symptoms. Meningitis. I was very quiet rest of the day till I reached home. By the time I contemplated telling my mother, she had gone for her nap. I prodded her awake. "What is it?"

"I think I have meningitis."

"What?" She asked derisively, still groggy from her incomplete nap.

"I read that headache and chills are a symptom." "You have no such thing. Now sleep and let me sleep." Begrudgingly I climbed into bed and planned on explaining clearly later. Unfortunately, no one seemed to take me seriously and I vowed never to eat after anyone again. I never contracted meningitis, but I am a germaphobe now. Also, if anyone is wondering, my grandmother is unaware of this till date.

Prachi Nathani

The time you challenged popular thought/established belief

I walk in steadfast, confident for my interview at a very big and famous MNC. I kill it in the technical round and group discussion and am one of the very few shortlisted for the personal interview. I am led to this huge beautiful conference room for my personal interview. The recruiters smile at me, and greet me. Then they take my resume in their hands, and suddenly their expressions become puzzled. "You haven't done engineering? Or any bachelor's degree for that matter?"

"No, sir" is what I reply.

Still astonished, they ask me, "Why?"

"Actually, I did join an engineering college, but I could not deal with the extreme anxiety and stress that I was going through. I was not in a good mental space at that time".

"However, I assure you I am an excellent programmer and know all the concepts which any other graduate student might", I added. I was nervous now, suddenly feeling insecure about myself.

"Well Ms. Oza, I'm sorry but we do not take non-graduates in our company. A degree is the basic necessity. Unfortunately, we cannot consider you for this job".

I wake up with a start, panting and with sweaty hands. Oh, thank god it was a dream, I sigh in relief. But then again, ironically, it is already a reality in some ways.

My overthinking mode is turned on for the rest of my day. I am currently studying engineering and I have always felt like it's totally alright if someone does not join degree college and instead decides to study and learn on his or her own. I believe that the skills ultimately matter, and not your degree which most people might not even deserve. (We all know the number of students who have mastered the habit of sleeping during lectures with their eyes open.)

I feel that the ones who are really passionate about something will always learn things on their own and find their own path. Meanwhile the rest are just here to pass the exams and get that degree. Then why, in a job interview, having a degree is an important criterion?

While recruiting, the primary aim should be to test if the candidate has the skills you are looking for. If he or she does have them, how does it matter whether they have a degree or not. They have the skills you need. Test them further on their concepts if you want. But don't reject them.

I look smart people will always have a degree, but what is the guarantee that they will be always able to apply the concepts practically? Today the internet has become so massive, there is literally nothing you cannot learn from there. And besides, we all know when most of the students actually start studying for their exams. What's the use then, if they survive their college years only by last minute rote learning. Instead doesn't it make more sense if they can study at their own time, whichever subject or topic they want. Of course, it is applicable and beneficial for the teens who actually have the will to sit and learn on their own. For the procrastinators, college is the only option. However, for the dedicated, passionate students, there might be financial issues, there might be stress, anxiety or such mental health issues, or there might be a hindrance where they do not want to study subjects that do not interest them at all. A chance should be given to such students to earn on the basis of the skills they develop by self-learning, and not a piece of paper with a university stamp.

It's funny because recent news highlights how Indian engineers are under skilled for their jobs, but come on, we, being Indians have always relied more on the existence of the degree rather than the skills. No matter how much today's modern Indian society apparently progresses, we will always have Aunties and Uncles judging us if we don't get good marks, let alone not studying for a degree.

So basically, my personal opinion is that, the ones who want to go to college and study, go ahead and do so! But that does not mean that we shut down all forms of self-learning and only accept college degrees as a proof of being skillful. Let's follow the wise words of Shri Ranchodas Shamaldas Chanchad, "Kaamyaab hone ke liye nahi, kaabil banne ke liye padho!"

Pranali Oza

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A tragedy's lesson

George Bernard Shaw once said, "There are two tragedies in life. One is to lose your heart's desire and the other is to gain it." A tragedy is something we all are acquainted with and yes, losing your heart's desire sure is a tragedy, but gaining it? That's all one can hope for. This year I wished for love. I wished to be lost immensely in someone's thoughts, emotions and arms. And if acquiring that makes it a tragedy, then I say give me tragedy, because I wouldn't give it up for anything in the world. Love is never easy, it's a gamble where the stakes are too high and if everything goes well, the return is all you can ask for, but loss? Soul crushing. Love is varied, from small, short-lived eye contacts across the hall, to going on dates, to that one weirdly timed Skype call uniting two lovers that are separated by thousands of kilometres but their hearts defy the distance. Everyone has a different story but the same vulnerabilities. Every story has throes. As well as those who seek love, appreciation, direction and meaning, for them every day holds a new struggle, or the same recurring unfathomable doubt with a different level of sentiment attached to it. The pain, the sorrow, that small cloud of heaviness that lingers into your life at random moments, it makes no sense and it grows heavier the longer it stays. The darkness makes you question your worth. Does this darkness have a name? This cruelty, hatred, anguish, how did it find us? Did it crawl into our lives, or did we step out and embrace it? Sometimes I feel like I'm the only one who is struggling, frustrated or barely getting by. On some level, all of us are prisoners to our emotions at the end of the day. But it gets better. Someone once told me, "Pain is inevitable but suffering is optional."

This pain in your heart goes away, the voice in your head that clouds your vision, suppresses your will to reason and keeps getting louder, it dies. In this battle against our emotions, our insecurities and distress, courage, to hold on for a little while longer, is all we need. Most people are stronger than they think they are, they just need to believe. Acceptance is something all of us want, it's something we all need. There is no shame in being afraid. We are all afraid. Albert Camus wrote," Blessed are the hearts that can bend, they shall never be broken." If there is no breaking, then how can one heal? And if there is no healing then there is no learning or struggle. These foster growth.

There is this beautiful word, fortitude, which means enduring pain or adversity in a courageous manner. How is it possible for one nine letter word to be so inspiring? Inspiration and Happiness come in many forms. In the company of good friends, in the warm embrace of a loved one, or in the hope of promise renewed. It's okay to let yourself be happy. It is important to focus on the good, to find meaning, beauty and direction in little things and to look forward to what comes next. Because this is your life, you're here now and the world is waiting. So go risk it, embrace it, live it, love it. We all have to live with the residue of our choices. The tragedy would be to lay awake at night wondering "what if".

Ritika Talreja

Changing Times

From Borivali to Marine Lines,
People talk of changing times.
Once the hens and cocks used to flaunt their rhymes,
And today the alarm clock chimes.
Once, the dancing retro songs did exist ;
Now, the howling English songs smash top hits.
The Bollywood songs that had sweet, soothing gaps,
Are now replaced by fast and furious raps.
The then students just faced books,
But today, they Facebook.
Their demands were only limited to pen, pencil and rubbers.
And now - Japanese ink , German technology and imported erasers.
Their names were Sankalp, Ovesh and Anand,
And today - Sank, Ovi and Andy.
₹ 20 could buy our entire ration,
And today, with that, one can hardly buy a fraction.
2 paise coins were found in all piggy banks ,
Today they are extinct even in the banks.
People coughing here and there.
Illness is spreading but no one is aware.
Water pollution is somewhere,
Land pollution is everywhere.
Deforestation is here and there,
Though not a single person is aware.
Twenty years later,
You'll find the present scenario better,
So cheer up-
For your country, don't feel bitter.
After composing these rhymes,
I will write my ending note :
"Change with the changing times."

Sankalp Sharma

Everything about you, summarized, Like there is no depth to a person's existence

"Oh my God, she's such a hoe."

"He's such a downmarket dude."

"He's such a waste of his parents' resources".

"She's such wife material."

For all the logic I can use and argue in favour of, I believe labels were created to categorize things, bring them down to a summary for ease of working and managing. But labels seem to define how things work. Everything about you, summarised, Like there is no depth to a person's existence, Like all that they built themselves for, All they learn from life, Can be summarized in this one word people coined.

The more I thought about this, the more I felt like it was true. For we have not only done this to people, people we love or we know nothing about, but also to emotions, feelings. "Oh, I so hate him". Hate really is a strong word, a strong emotion, it has the capacity of ruining things and it's strength is undermined when we use the word just without it's meaning. Being a lady myself, I couldn't help but notice the fact that this happens more with girls. One stroke of liner, and they ask you why don't you open a parlour instead of wasting time and your parents' money in doing engineering? Pick a dumbbell and they'll remind you that you are a girl. All of this, when said, sounds like feminism talking, but the truth is, if we didn't label at all, we wouldn't need feminism either. Labels undermine the value of people, Which is what feminism wants to fight against. But that doesn't mean the other gender escapes it.

Casteism? Labeling someone as unworthy without even considering their capacity as an individual. Reservation? Depriving someone of privileges just by labeling them more fortunate.

The probability of a Muslim being assumed to be a terrorist is much much higher than that for a white skinned man.

Everytime I sit to think, I realise more often than not, every problem that has ever been stuck in my head is because of these labels people, or even I use. What if you didn't think that he was trying to use you? Would you give the man you truly love another chance? If you didn't call him a playboy, would you still be crying over your breakup? What if you hadn't called her ambition-less when she failed to do her work? Maybe she would've got over whatever issue she had that stopped her in the first place sooner.

And from the day I sat to ponder about it, I see it everywhere. And I wish that people looked beyond, and we, ourselves have the capacity to not care about those labels at the same time and go on, persevere and love ourselves anyway. Love yourself and know that life and its lessons cannot be covered in a word or two, the sooner we learn that, the easier it is for us to value ourselves, as a result we love ourselves more and do better with everything we want, for our own sakes.

Vaidehi

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Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai-400 050.

Dear People of the World,

First of all, cheers to the fact that we have managed to coexist for the last 2,00,000 years and still havent nuked one another. I mean, apart from the world wars,cold war,mongol conquests,slavery,etc we have done just fine. But is fine the best way to go? I think not.We are alive but we aren't living. Which if you haven't yet figured out, isn't much of a happy thought. So I have taken the onus on me to enlighten everyone. Call me the Buddha of the Fortnite generation if you may ;-) and these are my commandments:-

Commandment 1: We, unlike cats, don't have 9 lives. It's only this one life that you have, so why waste time regretting things? Regret just weighs you down, prevents you from thinking straight and clouds your mind with unnecessary thoughts. Time is the greatest asset we have, don't trade it for moments of sadness and despondency. A wise man once said if the eggs are already broken, make sure you make a pretty good omelette out of it. Words to live by right?

Commandment 2: I, for one, particularly don't like change. Change is difficult.But isn't that the only thing that's constant?.

Adapting to it is the best choice that we have. But change isn't all that bad. It helps you escape your monotony, helps you grow as a person, brings in better moments and weeds out the negatives.So don't run away from change, but embrace it.

Commandment 3: Like I already established before,we only have this one life, so let's make the best out of it. Stop binging and get out of your cozy bed. There is a whole world out there to explore. Travel to all the places you dreamt of. Listen to the chirping of birds,the drizzling of rain,soak in the warmth of the sun, enjoy the silent starry nights, run wild and chase your dreams. Above all,never lose hope. After all, it's what keeps us living.

Phew, that was a long one wasn't it? I'm tired of typing now so I'm going to go get some rest. (by rest I mean complete assignments. Sigh!). Why don't you guys go out and live life until then. It's a lot of fun, trust me-)

Vedant Jadia

We are alive,
but we aren't living.

कैद मजिले

कैद मंजिलो को रीहा कर, खुद से निकल कर खुद ही को मिला कर,
रखने में कोहरा भी होगा, होंगे कई काँटे भी,
खुद ही को हराकर खुदी को जीता अब,
कैद मंज़िलो को रीहा कर, खुद से निकल कर खुद ही को मिला कर!!

ना रख शिकवा ना गिला किसी से, शुरुआत तोड़ कर चलने की,
भले हो वह बींरे से! ना बिखरने दे होंसले को,
ना गम को दिल में रहने की जगह दे,
ना पनहा दे, जो तेरे लिए न बना, मत रोक उसे, उसे जाने दे!

शमिखाना सजा तू अपना , अपनी हार की सिखो से, आशियाना बना तू अपने जीते मुक्काम से,
साथ ले कर चले तू सबको, अच्छाई को तेरी तू कहि खोने मत दे!
उम्मिदो का मूल बना, खुशियों का फूल खिला,
ना रौ तू अपनी बर्खादियो पर, ना कर शोर तू अपनी मन्मानीखो पर,
रख तू सिर खिभा मंजिल की ओर, ना दुख से झुका, ना घमणड से रख उसे ऊपर!

कैद मंजिखो को रीहा कर, खुद से निकल कर खुद ही खो मिला कर, ,
बन बहादुर छोड़ सारे डर, खुशियां अब कदम चुम्ने आाए तब उन्हें भी गले
से लगा लिया कर !!

Purnima Chhabria

Class of 2021

It would be appropriate to say that our journey through college is like a story - a really fascinating one. And a good story is incomplete without a good climax. Unfortunately, the climax to the story of us BEs graduating in 2021 seems to be fizzling out. Right from FE up until TE, we have seen our seniors in the final year live their student life to the fullest before entering the 'real world'. We have seen our friends in the final year be carefree in Avalanche,

execute mass bunks, enter the traditional day on a truck, participate in the BE dance and organize the BE trip which would turn the college into a warzone (if you know, you know). But destiny had different plans just when our third year was about to end.

While COVID was becoming the talk of the town, we had our traditional day coming in. Traditional day - which would make our foyer as congested as local trains - had already been cancelled once (just like Tribes). But shoutout to the Students' Council, we were able to have our fair share of celebrations. We saw the then BEs coming in their truck and the only thing that TEs could think of was that we'd be there next year. Although, their truck didn't make it through as the event was abruptly cancelled. And no, it wasn't because of some COVID scare - masks from Kinaria were supposed to save us from that. Apparently, MMK had to conduct an exam the same day we had our traditional day celebrations. Soon everything shut down and amidst all the fear came some news that was music to our ears - our exams were cancelled and we were being promoted to final year. We were already

excited to be in the final year but things escalated quickly, just like COVID cases!

Classes moved to Teams, placements happened online, birthdays were celebrated on Zoom, our beloved SL was replaced by Discord servers and we were stuck at our homes.

Those of you who know me well can confirm that hanging out in the SL or the campus would never be my first option. But for whatever its worth, the first thing I would want to do when we all come back to college is hang out in the SL and just enjoy the gregarious vibe.

Speaking of returning to college, I did go to TSEC a few weeks back for some work. I saw the empty foyer, otherwise packed with students waiting for the lift, and could immediately feel the nostalgia hitting hard. To be honest not much has changed except sanitizer stands have been installed at various places and you wouldn't hear the rickshaw-wallahs shouting

"Teshan!" at top of their voices outside college.

All of us want the situation to get back to normal but deep down we all know that this is the new normal, at least for the unforeseeable future. Our journey as students is about to end and a new world awaits us. Most of us must have seen our parents get nostalgic about their college days. There will be a time when we would be in their shoes. Before we get there, we can use this time we have to reconnect with our friends, make plans (and actually execute them), and try to live the climax of our story to the fullest to make our final year and this engineering story memorable. As I write this, we still have a semester to go, and all we can do right now is hope to get back to college #OneLastTime!

Dev Kumar

ARTWORK

Apoorva Shete
EXTC

Pranav Bhojwani
Computers

Anshu Kathale

Anshu Kathale

500

Vaidehi Mangalampalli
Biotechnology

Kartik Shetty

Atharva Khandekar

Chinmay Jadhav

Hriday Purohit
Computers

Hriday Purohit
Computers

Hiten Lulla
Computers

Rohit Iyer
Computers

Sparsh Nagpal
Computers

Miral Gandhi
Computers

Vedant Kunte
Computers

Vedant Manuja
Computers

Naman Purohit

Electronics and
Telecommunication

Pratik Choudhari

Information
Technology

ENTERTAINMENT

TSEC BINGO!

Came to college just to sit in the SL	Dozed off in a lecture	Played pool in the Gymkhana	Wished our college had a canteen
Made a library card	Stayed overnight in college	Didn't purchase books until endsem	Attended all lectures in the semester
Got a KT	joined a committee and regretted it	Actually enjoyed a lecture	Participated in Avalanche
Got a Year Drop	Lost your project	Cried internally during external VIVA	Snuck out during Practicals

WORD SEARCH

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I N S B P H A V U R E R P B I V H E L I
C B M S A I F A Y L G Z B O O C I D E M
Z X T M R N N T U A N B G C H B O X G N
E J L A E T D S K M U X O B A S X X A K
D A T C W D J R Q C O E L I S S K C C V
S A Q A W X P V A N L U D O M E E R Y B
K G A X H R O X D Y T T E L G L V H O X
Y N E W B U I L D I N G N H K F C E K W
E C I R I V A R D G E R K D N I T F E T
R A F P L A L I E B D H T O W R K K G W
V K Y J D C B S F R U F V D K T U Y T Z
I W V Y S E Y Y U Y T I N W O F M G L A
R N P U P D U L E V S A L O A K I I S U
N G D M X A G C N Z S H P D H J T L X K
V R C E C Q A I K Y S Y Y A I K J D H D
E B C Q M Y O Z A N C T N Q Y N X D L B
I C D L X H W J N B Y A A Z I N G H K J
O C O Q X Z K T Z R S X O Z V O O E U K
G P I P O L I B R A R Y M R B U X D M M
K E X O G H S L P Q A S I X X Z E Z F S
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THADOMAL SHAHANI ENGINEERING COLLEGE

Annual Report for A.Y 2020-21
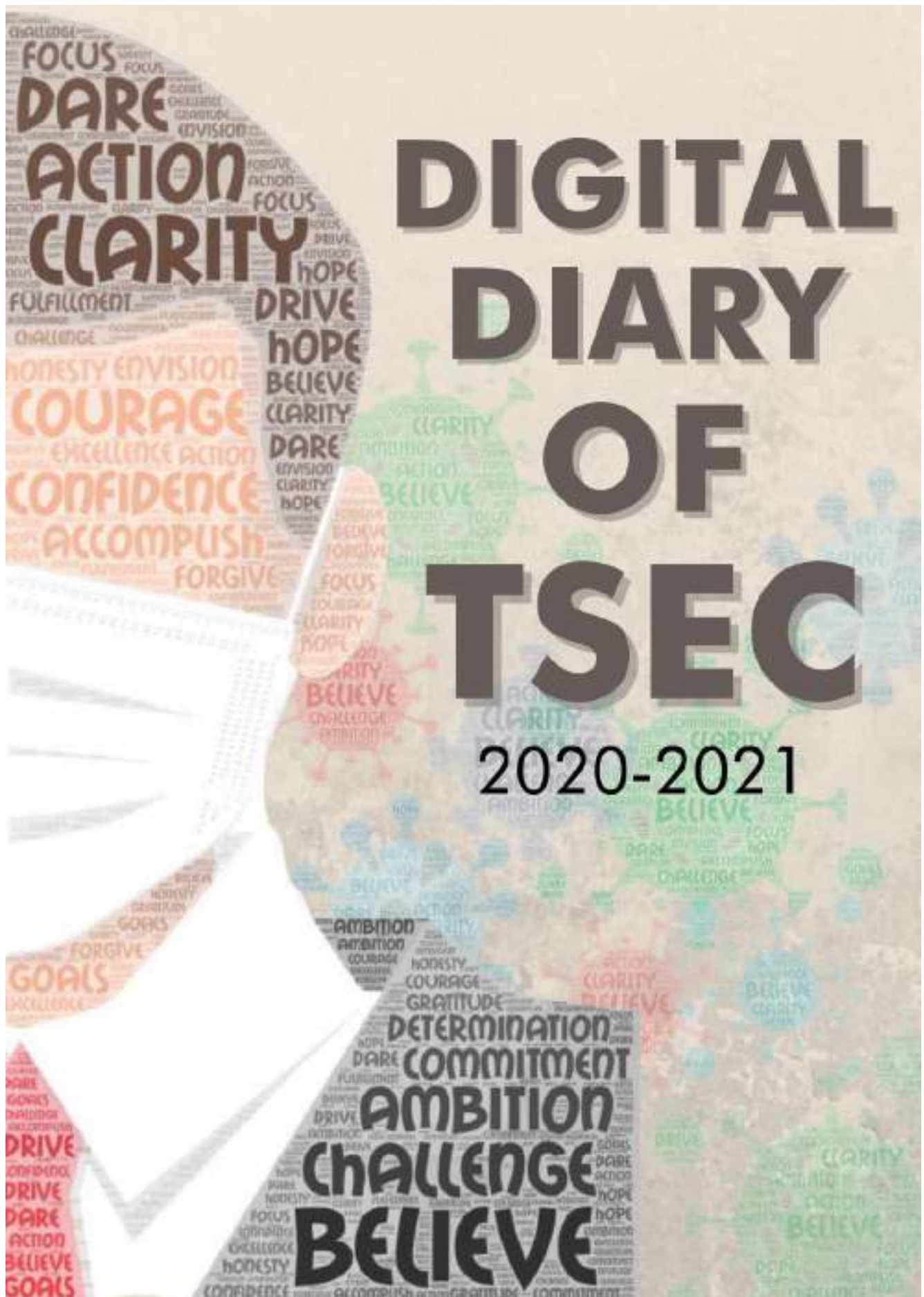
PRINCIPAL'S PERSPECTIVE ON THE EVOLVING ACADEMIC SPACE...

Historically Indian education system thrives on Mathematical rigour starting from schools and that approach induced a level of clarity in thinking within the learning efforts of the students and their growing social neighbourhood. Higher and Technical education too thrived on mathematical integrity and the majority of the Engineering College entrants are there because of their mathematical ability and not because of a higher level of soft skills. The majority of engineering students are blessed to have a higher

level of problem-solving abilities. Engineering curriculum already incorporated workshop practices to all students independent of the branch of study, which on re-examination, we are forced to reckon that it is the single most differentiating factor, imparting respect for human labour of all kinds collaborative learning and skill development for creating artifacts to a certain degree of dimensional accuracy. Within this striving hard for dimensional accuracy of products out of hard labour help learner undergo a metabolic and psychological transformation to be more productive with respect for details.

Historically engineering colleges give more weightage to laboratory sections to facilitate experiential learning, to help a learner develop multiple perspectives for different parameters influencing the physicality of the procedures behind man-made/ natural phenomena.

Our institute is aware of the trade-off of increased experiential learning and theoretical rigour. India thrived on theoretical clarity with a fair amount of experiential learning and not curtailing the depth of the subject matter. We as an Institute realised the value of Indian heritage and the educational process underpinning Indian ethos and culture. Aping American way of doing professional education need not be the way forward as they excel on " learning while doing', which need not be taken very seriously for our indigenize way of marching forward.

We identified "Coding as Institute's Core competencies", and orienting the majority of curricular activities towards that. Coding is essentially "Conversion of problem to logic", which prompt learners to relate theoretical moorings to real-time applications and learner undergoes metamorphic changes in their perspective of the real-world problems to be addressed.

We engineered programs to make learners become market savvy like "Chemergence" an annual get-together of students, academics from best-of-class institutes and industry practitioners. We also promote similar activities through multiple student's societies without getting trapped into the designs ("catch them young") of FMCG behemoths.

Hackathon conceived by the political establishment at the PMO level and disseminated by AICTE and Innovation cell of Ministry of education has been the single most important co-curricular activity. We remain focused in a state of "No Stone Unturned" to impress inextricably to embrace the culture of Hackathon amongst our learners, that culture of ours is also the biggest key differentiator.

NSS activities are reimagined to help our pupils develop a heightened sense of Empathy toward other fellow human beings and also towards interconnected global environmental systems underpinning the sustainability issues. Help learners develop social outreach as a non-negotiable virtue to be ingrained in their DNA and to be perpetuated in their life span.

- Dr. G.T. Thampi
Principal
TSEC

HYDERABAD (SIND) NATIONAL COLLEGIATE BOARD

Trustee & President
Dr. Kishu H. Mansukhani
B.S.-M.E.

It is my pleasure to write a few words to usher in the TSEC Digital Diary for the year 2020-21. The essential purpose of any Digital Diary is to inform, engage, inspire and entertain a motley crew of readers including students, faculty, staff, alumni and parents.

TSEC is hugely successful in creating an academic ambience where learners increasingly succeed in unleashing their potential. Aspiration to go up in the academic value chain provoked us to leverage the dormant academic research abilities to play a creative role. The institute's mission, in establishing research program is iconoclastic in approach and demonstrating the much hyped world of academic research in India that go beyond the paradigm of adding to the body of knowledge.

It's success in placing graduate students in leading enterprises and enrolling for higher studies, for choice branches, in India and abroad, has been exemplary. TSEC is constantly on the move and developed an eye for figuring out and identifying emerging technology market place. College perspective of Information Communication Technology market place provoked to develop competency in the nascent technologies.

Collaborative format of growth is fostered at TSEC campus, by providing open access to curricular and non-curricular activities through various society activities which are managed, organized by the students and counselled by the teachers throughout the year. Various technical events, hackathons, street shows creating awareness about social issues, technical paper presentations, project competitions, debates, etc, are some of the major activities that highlight the organizational skills among the students.

This diary is an unfailing testimony to the success story of a visionary leader at the helm, dedicated faculty who continually strive for student empowerment and most importantly students who are compellingly committed to achieving enduring academic excellence.

I take this opportunity to congratulate the principal Dr. G. T. Thampi for creating a distinctive intellectual culture; one that is creative, caring, collaborative and committed towards overall development of both faculty and student.

With Best wishes,

K H Mansukhani

A WORD FROM OUR TRUSTEE

Congratulations and good wishes on the publication of "Digital Diary TSEC 2021."

Thadomal Shahani Engineering College (TSEC) has come a long way since its inception. Today it is well known and is amongst the top engineering colleges.

The year has been full of unprecedented challenges. TSEC has responded to the challenges very well. This has largely been possible as the college continues to be student-centric. While emphasizing studies, I am glad that TSEC encourages student activities covering creative and social aspects as well.

When it comes to studies, the college continues to be of choice for students and enjoys good campus job placements.

Job placement is so important for engineering students, and it does not happen by accident. TSEC works towards it very systematically.

Going deeper into the studies, the college continues to promote the best practices of the Information Technology industry i.e, participating in a coding Hackathon to convert impending problems into logic. TSEC has won some of the best competitions of repute e.g. EY Techathon. In the #iSolve4aBillion Challenge, the college team's solution explored the nuances of Covid Vaccine provenance using Blockchain and Gamification for increased adoption. In doing so the students have enhanced the reputation of the college, teachers and themselves. Its other non-IT courses such as chemical, biomedical engineering are also embracing recent developments in their respective fields.

TSEC, from time to time, has updated and launched relevant courses. I am happy to know the college has launched a new branch in Artificial Intelligence (AI), Machine Learning (ML) and Data Science which is a much sought-after course today.

TSEC, in responding to the pandemic, has spread the awareness of digital content creation and remote delivery to other colleges within HSNCB. This will benefit all the teachers and students of other colleges within HSNCB in promoting remote teaching and learning.

It is good to see students, along with their regular studies, also continuing to participate in social service activities such as Child Care, Rural Outreach and Blood Donations and so on.

Last but not the least, students continue to showcase their amazing creative skills. The previous issues of the magazines provide ample proof of this.

Kindly continue your good work with more energy as the pandemic continues to persist and have an impact on students.

My best wishes for the upcoming year.

-Mr. Lal Chellaram
Trustee
H(S)NC Board

A WORD FROM OUR PROFESSOR IN-CHARGE

It gives me great pleasure to know that Digital Diary of TSEC, our college magazine 2020-21 is ready for publication. A college magazine is the perfect amalgamation of creativity and innovation. It distils the essence of inspired imagination in the most brilliant way possible.

A college may reach heights of glory but without a college magazine, the outside world may not know of it.

The role of a college magazine is to inform, engage, inspire and entertain a diverse readership - including alumni, parents, students, faculty and staff at the college. This magazine has made an earnest attempt in this direction and brought out certain aspects of the college to the eyes of the public so that they may understand and know the college even better.

Efforts such as this will provide an opportunity for the staff and students to showcase their talents in technical writing, essay and poetry writing, sketching and drawing and achievements such as conferences attended by staff members and students, competitions won by the hugely talented students, innovative projects and research publications. I am overwhelmed by the enormous number of articles that have come pouring in for the magazine. This shows the positive and creative energy of our assiduous faculty members and students.

Reading this magazine would definitely be an inspiration and motivation for all students and staff to contribute even more to the upcoming issues. I invite you to read and immerse yourself in the Digital Diary of TSEC 20-21.

-Mrs. Maniroja Edinburgh
Professor In-charge

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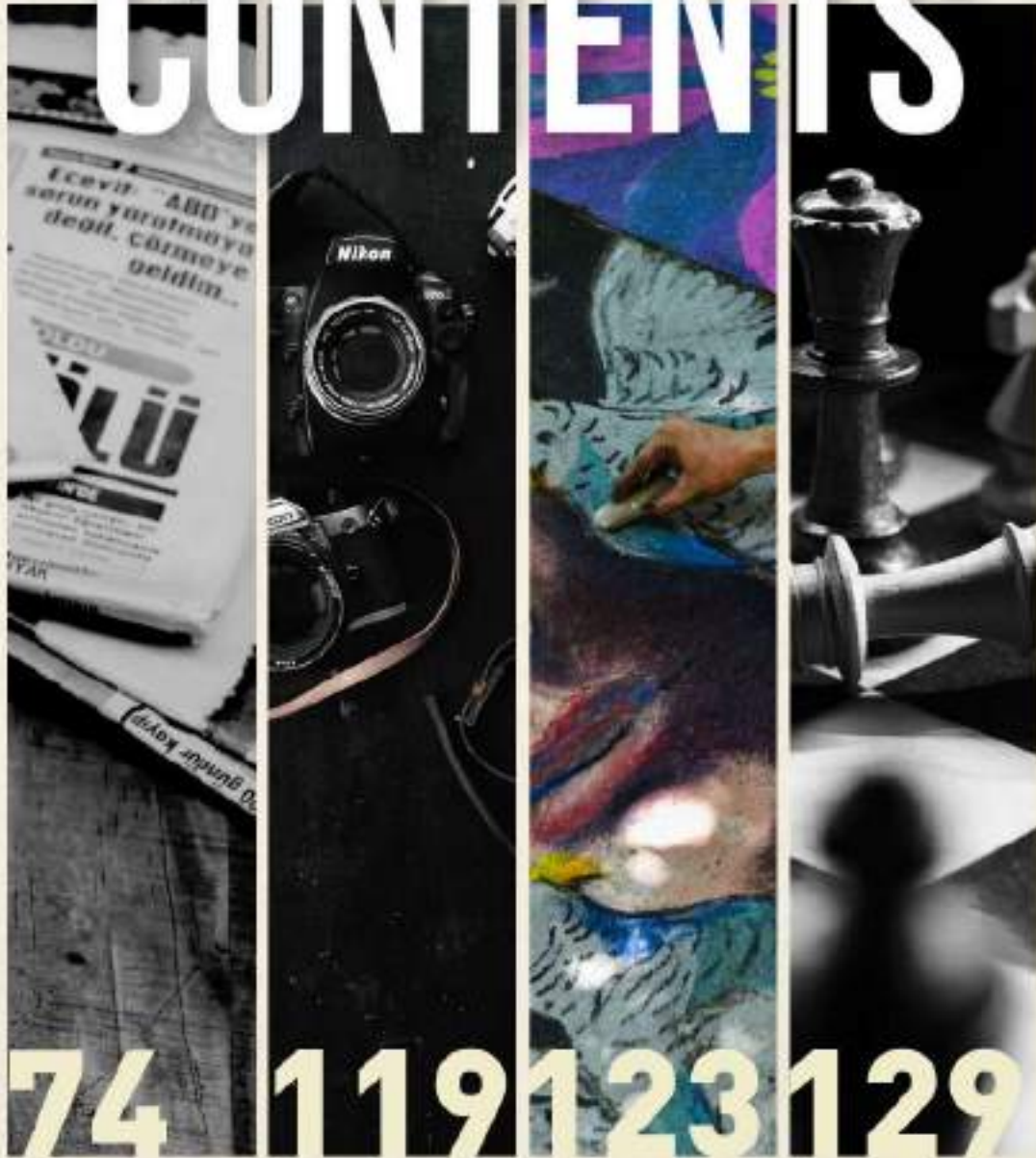
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DEPARTMENTS

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai-400 050.

Artificial Intelligence and Data Science

About the department

The global market today is looking forward to a complete reconstruction of digital solutions for business processes at large by building intelligent systems. Industries and businesses all over the world have been undertaking massive projects to radically modify their enterprise software systems by integrating Artificial Intelligence techniques coupled with Data Analytics.

B. E. in Artificial Intelligence and Data Science (AI & DS) is a four-year full-time undergraduate program with the skills to perform intelligent data analysis and imparting knowledge of advanced innovations like artificial intelligence, data science, machine learning, deep learning, and natural language processing. The major focus of this program is to sensitize students with statistical, mathematical reasoning, knowledge discovery, affective skills, psychomotor skills, and visualization skills. This program has an intake of 60 students.

The department of AI and DS was established in the year 2020 with highly qualified senior faculty with a doctoral degree. This newly added department of TSEC has been set up with the goal of training students as leaders and researchers in the fields of Artificial Intelligence & Data Science with world-class infrastructure, curriculum and comprehensive hands-on experience through industry connect programs. Learners aspiring to get exposed to nascent technologies in the realm of computer and digital technology with an aptitude for tracking mathematical complexities shall aspire to join this 4-year degree program in AI and DS which is being established in the current year. It is an excellent opportunity to satisfy the intellectual ego in addition to massive market opportunities.

Biomedical Engineering

About the department

The NBA Accredited Department of Biomedical Engineering, one of the first nationally, was established in 1983 to provide an undergraduate program in Biomedical Engineering (BME).

The comprehensive, interdisciplinary curriculum provides a solid foundation with a critical understanding of engineering principles and focusses on closely integrated laboratory experiences.

The vision of the department is to transcend to a high-quality research department with excellence in graduation and to perpetuate the supply chain of human capital to support the business growth of Biomedical equipment manufacturers to make these types of equipments ubiquitous in the world.

Department Publications

- Books titled "Image Processing and Machine Vision", "Control System" and "Image Processing" written by Prof. Dhananjay Theckedath were reprinted as the 2020 edition.

Faculty Achievements

- Dr. Mita Bhowmick, Dr. Gauri Shukla, and Prof. Rithesh Kini along with FE, SE, and TE biomedical Engineering students attended the Innovations in Rehabilitation Engineering workshop at Rehabilitation Center of Deenanath Mangeshkar Hospital and the BiLD Clinic, Pune.

- Dr. Mita Bhowmick and Dr. Gauri Shukla organized a talk by alumnus Dr. Suraj Serai presently working as an Associate Professor at the University of Pennsylvania on "Opportunities in Biomedical Engineering".

- Dr. Gauri Shukla delivered a talk on "Technical Paper Writing" in a webinar organized by ISTE-TSEC.
- Prof. Bharati Ingale delivered a session on the topic "VLAB for Physics & Electronics" during
  1. Three days workshop on "Virtual Laboratories for Science and Engineering" organized by TSEC in December 2020.
  2. Two day workshop on "Use of Virtual Laboratories in Science and Technology" organized by HSNC University.
  3. Workshop on "Conduct of online Practicals and Evaluation of Virtual Laboratory" organized by HSNC University.
- Prof. Bharati Ingale also contributed to the preparation of Lab manuals for BSc Physics for HSNC University.
- All faculty members have attended FDP approved by AICTE/ISTE as well as webinars related to trust areas; to mention a few Nanoscience for Engineering Applications, Internet of Things, Artificial Intelligence and its Applications, etc.

Students Achievements

- Under the guidance of Dr. Gauri Shukla and Prof. Tanvir Daphedar, final year students, Tejal Kangane, Ishita Gupta and Ashwin Poojary presented a paper titled "Visual Field Screening using Virtual Reality" at the 3rd International Conference on Recent Trends in Bioengineering organized by MIT School of Bioengineering Sciences & Research at MIT-ADT University, Pune and secured the first rank in the oral presentation.

Events and Webinars

- 'Xeuron' was organized by the department which included events like Hands-on workshop in Artificial Intelligence and Machine Learning, Hands-on 3-D Printing Workshop & Bioquiz Competition.

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Biotechnology

About the department

Keeping a beat to the global demands for researchers in this field and its importance in future industrial and social development Thadomal Shahani Engineering College introduced a full fledged undergraduate degree course in Biotechnology in the year 2004 approved by AICTE. Being one of the first few colleges to offer this program, TSEC's Biotechnology department has always been the epitome of consistent perseverance and harbors plenty of opportunities all over the world. The department and its highly esteemed faculty members strive to achieve excellence in the promotion of biotechnology and aim to create an ambience for the smooth pursuit of scholarly activities in research and education, to make a global impact, and to produce future leaders in the field of Biosciences and Bioengineering.

Department Publications

- Sruthi Menon, Aditi Shirodkar, Ashwini Jha, Shraddha Sharma, Yashavi Gupta, "Antiviral activity of plant and herbal extracts against airborne viruses". International Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT), Volume 6, Issue 6, Page no. 117-130.

- Sruthi Menon, Udit Gupta, Poorvi Kamble, Christopher Antony K, Sahil Vithalani, "The Effect of Ebola Virus on Human Immune System, International Journal of Creative Research Thoughts (IJCRT) Volume 8, Issue 7 July 2020, ISSN: 2320-2882, Page no. 5648-5654.

- Sruthi Menon, Ishita Tarnekar, Melissa D'Cunha, Anjali Varma, "Immunological Analysis of Different Food Allergens - A Review", International Journal of Creative Research Thoughts (IJCRT) Volume 8, Issue 5 May 2020 | ISSN: 2320-2882, Page no. 1067-1075.

- Sruthi Menon, Siddhi Bhutada, Dhruv Bhatia, "Applications of Immunoglobulin Isotypes in Cancer Immunotherapy - A Review", International Journal of Creative Research Thoughts (IJCRT) Volume 8, Issue 5 May 2020 | ISSN: 2320-2882, Page no. 185-189.

Faculty Achievements

- Prof. Praseeda Nambisan delivered a session on "Open Virtual Laboratories" at "The Capacity Building Workshop for Teachers" organized by HSNC University.
- Prof. Praseeda Nambisan presided over a session titled "Virtual Laboratories in Biology" at the "Three Day Online workshop on Virtual Laboratories for Science & Engineering" organized by Thadomal Shahani Engineering College.
- Prof. Praseeda Nambisan, Prof. Reshma V K and Prof. Sruthi Menon each delivered a session on "Virtual Laboratories in Biotechnology and Zoology" at the "Two Day Workshop on Virtual Laboratories" organized by K.C. College, HSNC University.
- Prof. Praseeda was one of the judges at the Poster Competition "Biotech Inspirus 2021", organized by the K.C. College on 26th March 2021.

Students Achievements

- Mohitanshu Mohapatra, Ishita Tarnekar & Poorvi Kamble won the 2nd Prize at BEn 2021, organized by Biotechnology Dept, TSEC.
- Vaishnavi Rasam won 2nd prize in BioBranding at the BEn 2021.
- Harshul Diwanji and Vaishnavi Rasam won the 1st and 2nd Prize respectively in BioQuiz at BEn 2021.

Events and Webinars

- The "Bio-Entrepreneurship Competition" was organised in March 2021.
- Dr. A. K. Dikshit conducted a six-week short-term Training Programme on "Biomedical Waste Management- During and After Covid 19".
- Dr. G. Srinivas delivered a lecture on "Intellectual Property Rights- Filing Process and Scope".
- A lecture on "Self Talk and Personality Development" for Engineering Students was held by Mr. Bhavya Mangala.
- "Scope Of Biotechnology Abroad & Benefits of Overseas Education" by Dr. Anup Kulkarni.

Chemical Engineering

About the department

Since its inception in 1983, the Chemical Engineering Department at TSEC has grown by leaps and bounds. The department is currently run by a team of highly experienced faculty members of which 6 have doctorates and 5 hold a Masters's degree and are supported by a group of trained and skilled non-teaching staff. Well-equipped laboratories with safety and first-aid arrangements, a dedicated computer lab facility, AC classrooms with computer and projector facility, all ensure a suitable environment for the teaching-learning process. In the last 37 years, our students have brought several laureates to the department year after year by securing high ranks in university exams, winning prizes in several national and international technical events like conferences, seminars, exhibitions, project expos, and many more. The final year students are always encouraged to carry out dissertation/project work in association with highly reputed organizations like IIT, ICT, BARC, BPCL. We organize guest lectures every semester presided over by experts from the industry. We also organize short-term training programs for teachers as well as students to help them better understand the current trends in the field of chemical engineering.

Department Publications

- Ms. Kashmira Salgaonkar, Aayush Parab, Omkar Padwekar, "Extraction and Formulation of Perfume from Lemongrass Leaves" in International journal of environmental and agricultural research (IJOEAR), Vol 6, Issue 12, December 2020, ISSN NO-2454-1850.

- Aryan Musale, "Use of Membranes in the purification of water", International Journal of Recent Scientific Research in July-August 2020, Volume 11, Issue 08, ISSN:0976-3031, Pages 5.

- Ateeq Kazi, Anita Kumari "Application of headspace technique in the extraction of fragrance." Presented at the 73rd Annual Session of IIChE Congress (CHEMCON-2020, Virtual International Conference), organized by Indian Institute of Chemical Engineers (IIChE) Headquarters & IIChE – Hyderabad Regional Centre, December 27-29 2020.

Faculty Achievements

- Dr. E. B. Joseph served as a speaker at the Podcast series for Chemtech SOP in 2021 where she spoke about Environmental conservation.
- Prof. Nita Mehta acted as the chief coordinator for the following events - Webinar on Sustainability Solutions, the Placement Webinar Series, the Chemical Alumni Webinar Series.
- Dr. Anita Kumari has been working as the vice-chairperson of the Indian Institute of Chemical Engineers (IIChE) - Mumbai Regional Center since July 2019.

Students Achievements

- Mr. Ashish Jaiswal won the 1st prize at zonal level, representing TSEC at Chem-O-Philia National Level Chemical Engineering Quiz at Azeotropy on 7th November 20202 – an event organized by IIT-Bombay.
- Mr. Shubham Paghdhare, Mr. Narayanan Madathil, and Ms. Priyanka Ghuge stood 1st at a national level competition, Chem Triathlon organized by IIChE TSEC.
- Ms. Priyanka Ghuge, Mr. Narayanan Madathil & Mr. Shubham Paghdhare bagged 1st Place in Chemergence.
- Mr. Givinder Singh participated in 32nd DAE All India Online Essay Writing Competition on Nuclear science and technology and won a cash prize of rupees 10000.

- Mr. Sarvesh Nadkarni secured the rank AIR 2 in National Engineering Olympiad (NEO), held on 29th September 2020, organized by NEO Educational Foundation also received Medal of Excellence and Certificate of Excellence.

Events and Webinars

- Webinar on 'Sustainability Solutions', 7th and 8th August 2020.
- Placement Webinar Series where TSEC Alumni acquainted students of the Chemical Engineering Department with the numerous placement opportunities sharing insights about the industry.

List of sessions -

- Orientation to Non-Core job Opportunities, 17th August 2020.
- Orientation to Core job Opportunities, 28th August 2020.
- Session 3, 19th September 2020.
- Session4, 14th October 2020.

TSEC Alumni Series -

- Session 1, 5th September 2020.
Mr. Vinay Vasant Parab, Deputy Manager in the Process Department at AKER Solution from Batch of 2003 was invited to interact with the students.

- Session 2, 24th October 2020.
Mr. Sushil Khitani shared his invaluable knowledge on Pump operations and Hydraulics.

- Expert Lecture, 9th December 2020.
Mr. K. Sriganesh, the Chief General Manager at HPCL gave an insightful talk on the topic "Application of Classroom knowledge in an industry: Real learning in action".

Computer Engineering

About the department

The computer engineering department of Thadomal Shahani Engineering College was established in the year 1984 and has grown over the years into a competent department with state-of-the-art computing facilities and a dedicated faculty. The goal of the department is to establish a state-of-the-art computing environment to develop proficient computer engineers imbibed with the spirit of professionalism and responsible citizenship.

With rich infrastructure having more than 500 branded machines of the latest configuration, the department has continuously upgraded the infrastructure according to the changing needs of the technological environment. All the labs in the department have internet browsing facilities. To keep up with the cutting-edge technologies, the department has a digital library facility with reputed International and National Journals like IEEE, science direct, etc. The department introduced a Ph.D. program with an intake of 10 students from the academic year 2014-15.

Department Publications

- Arti Deshpande, Mamta R. Kumar, and Jonathan Chakour, "Transportation Spend Portfolio Optimization Using Multi-level, Multi-criteria Decision Analysis", Applied Computer Vision and Image Processing. Advances in Intelligent Systems and Computing, vol 1155 Page 109-120. Springer, Singapore vol 1155 Page 109-120. Springer, Singapore 29th July 2020.

- Arti Deshpande and Mamta R. Kumar, "An Optimized Cluster-based Warehouse Pick-up Process, Second International Conference on Inventive Research in Computing Applications (ICIRCA)", Coimbatore, India, IEEE, 1st Sep 2020.

- U. Bharambe, C. Narvekar and S. Shinde, "Fairness Assessment of Question Paper" using Artificial Intelligent Techniques, 2020 IEEE Bombay Section Signature Conference (IBSSC), Mumbai, India, , 4-6 Dec. 2020 pp. 152-157, 2020.

- Sudeep D. Thepade; Deepa Abin; Rik Das; Tanuja Sarode, "Human face gender identification using Thepade's sorted N-ary block truncation coding and machine learning classifiers", I, International Journal of Intelligent Engineering Informatics, Inderscience Publishers, (SCOPUS, DOI: 10.1504/IJIEI.2020.109094), August 2020 Vol.8 No.2, pg.77 – 94.

- Ms. Juhi Janjua, Dr. Archana Patankar, "Comparative review of Content-Based Image Retrieval" using Deep Learning. IC-ICN 2021 proceedings, 26th Feb 2021.

- Tasneem Mirza and Dr. Archana Patankar, "Similarities between complexities in Automotive Manufacturing and Software Development", International Journal of Computer Applications, IJCA(0975-8887) Volume 175. No. 20 September 2020.

- "Computer network and network design" by Shilpa Ingoley and Manoj S. Kavedia for Information Technology (MU -sem 4, course code ITC402) (Tech-Neo publication), March 2021.

Faculty Achievements

- Ms. Shilpa Verma successfully completed her Ph.D in August 2020.

Student Achievements

- Adarsh Tiwari, Jash Makhija, and Gaurav Raj won first prize in a hackathon conducted by DJ Sanghvi College of Engineering. The team has also won internship programs from Winsoft and two other companies.

- TSEC team of Arjun Balamwar, Jash Makhija, Gaurav Raj, and Adarsh Tiwari won 'Recursion' RJIT Hackathon, bagging third place across all domains.

- Jash Makhija, Adarsh Tiwari, Arjun Balamwar and Gaurav Raj secured 3rd place in Tsec CodeStorm (Team A2J).

Events and Webinars

- 6-day online National level STTP on "Programming in JAVA".

- Online Orientation on Computer Graphics and Computer Graphics Laboratory.

- The Department of Computer Engineering hosted its annual flagship event 40 hour Hackathon TSEC Hacks.

Electronics & Telecommunication

About the department

The Department of Electronics and Telecommunication was established in 2002 with a clear view of being a forerunner in the field of Telecommunications. The Department seeks to evolve towards excellence and adapt itself to the rapid advancements in specialized communication related fields. The curriculum of the program has been designed to cater to the ever changing needs and demands of the communication industry. The focus is on holistic learning and empowering students to make significant contributions at all levels. It has one of the best state-of-the-art hardware and software laboratories with special focus on telecommunication. The department introduced the Ph.D. program with an intake of 10 students from the academic year 2014-15.

Department Publications

- Dr. Ashwini Kunte, Amol Shinde, Mohit Saxena, Kalpesh Vishwakarma, "Image Forgery Detection using Local Binary Patterns", International Research Journal of Engineering and Technology (IRJET), July 2020 Volume 07 Issue 07.
- Dr. Maniroja Edinburgh, Saud Shaikh, Sunny Advani, Aishita Jain, Sagar Jaidhara, "Analysis and prediction of COVID-19 using Regression Time Series", Confluence, 2021.
- Dr. Maniroja Edinburgh, Prof. K Y Rajput, Vishaka Nerkar, Vikram Apte, Mrinmoye, "Automated Timetabling System for University Course", ESCI2021.
- Chadha, A., Britto, J. & Roja, M.M., "iSeeBetter: Spatio-temporal video super-resolution using recurrent generative back-projection networks", Springer Journal on Comp. Visual Media 6, 307–317 (2020).

- Mishika Sippy, Jeetika Khandelwal, Aishita Jain, K.K. Mathew, "ResumeScan: Application Tracking and Career Prediction Model", International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 08 Issue: 04, Apr 2021.
- Prof. Neeru Pathak, Mohammad Aamir, Faraz Khan, Manthan Kudtarkar, "Patient Health Monitoring System using IOT", International Research Journal of Engineering and Technology (IRJET), August 2020 Volume 07 Issue 08.
- Prof. Neeru Pathak, Gite Swapnil, Pawar Amruta, Sancheti Sumit", Biometric Based Electronic Voting System", International Research Journal of Engineering and Technology (IRJET), 2020 Volume 07 Issue 04.
- Anaaya Arora, Prayag Patel, Saud Shaikh, Prof. Amit Hatekar, "Support Vector Machine versus Naïve Bayes Classifier: A Juxtaposition of Two Machine Learning Algorithms for Sentiment Analysis", International Research Journal of Engineering and Technology (IRJET), July, 2020 Volume 07 Issue 7.
- Priyanka Dewani, Mishika Sippy, Gopal Punjabi and Amit Hatekar, "Credit Scoring: A Comparison between random forest classifier and K nearest neighbours for credit defaulters prediction", International Research Journal of Engineering and Technology (IRJET), July, 2020 Volume 07 Issue 10.

Faculty Achievements

- Dr. Maniroja Edinburgh delivered lectures on "Digital Content Creation for Social Media" at a one week Webinar series and delivered a lecture on Biometric Authentication System at one week FDP on "Signal, Image & Video Processing A Practical Approach (SIVPAPA-2020)".
- Prof. Manoj Kavedia published books on Operating Systems, Computer Networks, Signals and Systems, Data Communication and fundamentals of ICT.

Events and Webinars

- Guest lectures were conducted by Aman Chaddha, Lead Engineer, Apple Communication, T. Roosfert Mohan, Sr. Manager, Nelcast Limited, Industrial Automation and Anand Virani, Founder, CEO, Cutting Chai Technologies, 5G Technology.
- Also, lectures were also held by Anjita John, Manager, HR Bain & Company, Management and Ajit Bopardikar, Anil Biswas, Champak Das, Research Engineers at Samsung R&D Institute India Electronics.
- Students also had the opportunity to hear from Aditi Sheth, DGM, IOT Tata Communications Communication and Mr. Govind Ahuja, Manager, Business Development 3D Sensing Technology BASF Group IOT.
- Arranged six courses on Satellite Photogrammetry, Applications of Geo-Informatics, RS Applications in Agricultural Water Management Overview of Geoprocessing using Python, Advances in SARPolarimetry & Interferometry and Basics of Geocomputation and Geoweb Services in collaboration with IIRS/ISRO.

Information Technology

About the department

Thadomal Shahani Engineering College induced the field of Information Technology in the year 1998 with the vision of helping learners to develop competency in acquiring modeling and programming skills. Department is proud to create a culture of coding & Hackathon to make the budding graduates remain focused on competing in the global marketplace. The everyday discourse inculcates research culture and creates IPR in terms of process and product patents, by understanding diverse markets and cultures. The collective consciousness of the department exhorts the pupil to remain focused to develop proficiency in coding.

Department Publications

- Chaaya Narvekar, Dr. Madhuri Rao, "Flower classification using CNN and transfer learning in CNN agriculture perspective", IEEE Explore, Iciss 2020.

- Kumkum Saxena, Dr. Madhuri Rao, "A Qualitative Investigation of Existing Learning Organization Prototypes", International Research Journal of Engineering and Technology (IRJET), Volume: 08 Issue: 03 | Mar 2021.

- Kumkum Saxena, Darshan Rander, Chirag Rajpal, Abhay Rangnani, "Attendance Dilemma", International Research Journal of Engineering and Technology (IRJET), Volume: 08 Issue: 03 | Mar 2021.

- Kumkum Saxena, Sanjeevan Bapat, Jay Mistry, Isha Nalawade, "Missing Alert and Report System (MARS)", International Research Journal of Engineering and Technology (IRJET), Volume: 08 Issue: 02 | Feb 2021.

- Kumkum Saxena, Rhutuja Lokhande, Saanika Tatuskar, Tejashree Tambe, "Vrukshpaal- Tree Plantation Application," International Research Journal of Engineering and Technology (IRJET), Volume: 08 Issue: 02 | Feb 2021.

- Kumkum Saxena, Ruchit Thaker, Rishabh Raghuvanshi, Vinisha Adappa, " Multipurpose Portal", International Research Journal of Engineering and Technology (IRJET), Volume: 08 Issue: 02 | Feb 2021.
- Sanober Shaikh, Krishna Dubey, Rahul Nair, Usman, "Toxic Comment Detection Using LSTM", International Conference on Advances in Electronics, Computers, and Communications (ICAECC), December 2020.
- Dev Kumar, Shruti Kumar, Vidhi Khathuria, " A Comparative Study on Self-learning Techniques for Securing Digital Devices", Conference: 5th International Conference on Data Management, Analytics & Innovation (by Society for Data Science).
- Darshil Shah, Pranali Oza and Vinit Soni, "A study and analysis of cabs by rating", International journal of creative research thoughts (ijcrt)," September 2020, Volume 8, Issue 9, 5 pages.
- Darshil Shah, Sahil Mody, "Sentimental Analysis of Election Slogans", International Journal of Engineering Research and Applications (IJERA), SCOPUS INDEX, UGC Approved, Impact factor 6.185, (Series-IV) September 2020, Issue 9, Vol. 10, Pages-5.
- Darshil Shah, Parthiv Patel, "Automated Financial Text Analysis from Securities and Exchange Commission Filings", International Research Journal of Engineering and Technology (IRJET), SCOPUS Index, UGC Approved, Impact factor 7.529, September 2020, Issue: 09, Volume: 07, Pages-4.
- Simran Ramesh Amesar, "Disease Identification In Rabi Crop Using Deep Learning", International Journal of Engineering Applied Sciences and Technology, 2020, Vol. 5, Issue 6, ISSN No. 2455-2143, Pages 249-256.
- Rohit Manish Punjabi, Suyash Mahesh Bahrani, "Artificial Intelligence For Future Technology: Ludotrix", International Research Journal of Engineering and Technology (IRJET), Volume: 07 Issue: 10 | Oct 2020.
- Akshat Shah, Sneha Rohra, Prayag Patel, Smit Shah, Avi Jain, "Benchmarking of Hybrid Model for Food Delivery Web Application Development", Int. Journal of Engineering Research and Application, September 1, 2020.

Faculty Achievements

- Prof. Mukesh Israni completed his Doctorate Degree in April 2021.
- Dr. Arun Kulkarni, Prof. Chetan Agarwal, Prof. Sanjay Kumar Pandey Prof. Sanober Shaikh and Prof. Vijal Jain received Appreciation Awards for their immense voluntary contributions in Exemplary contribution work for Admissions during Lockdown (beyond the call of duty).
- Dr. Gopal Pardesi and Dr. Mukesh Israni received Appreciation Awards for their immense voluntary contributions in excellent organizing of Exams during Lockdown (beyond the call of duty).
- Dr. Bhushan Jadhav received the Appreciation Award for his immense voluntary contributions in Exam & Staff Training during Lockdown (beyond the call of duty).

Student Achievements

- BE Students' team "Insane Coders" with team members Ovesh Patel, Mohnish Nathani, Janhavi Zarapkar, Girish Salunkhe, Ayushi Shah, and Mahima Sharma has won first prize at Smart India Hackathon (Software Edition) 2020 for problem statement 'Smart Attendance Management System using Voice Authentication and IVR".

- BE Students' team "Insane Coders" with team members Ovesh Patel, Mohnish Nathani, Janhavi Zarapkar, and Girish Salunkhe has won the EY Techathon #iSolve4aBillion Challenge. The team's brilliant solution explored the nuances of Covid Vaccine provenance using Blockchain & gamification for increased adoption.

Events and webinars

- Multiple Guest Lectures were conducted by Mr. Uddhav Zambre, Software Engineer at Accenture, Mr. Rahul Bhaktiani, Data Engineer/Big Data Developer at Reliance Retail, Mr. Vaibhav Joshi, Assistant Manager Performance Digital Marketing at Future Group and Mr. Anuj Bohra, Senior Associate Marketing at Dhuff & Phelps Global LLC for the T.E. students.

- A 72-Hours Online Hackathon in the domain of Blockchain, ML/AI, Open Research Web/ App Development was organized from 2nd July to 5th July 2020.

- ATAL-AICTE sponsored Faculty Development Program on "Emerging Quantum Computing Paradigm: Radical Change the way we conduct the business process" was organized from 22nd February-26th February 2021.

- Technovation'21 an intercollegiate Project Exhibition was conducted on 20th March 2021.

RESEARCH

Our fervent aspiration to go up in the academic value chain engendered us to leverage the dormant academic research abilities to play a creative role in starting the Ph.D. program in our institute.

The Ph.D. Program was introduced in 2012 with an intake capacity of 10, which has been increased to 40. More than 25 research scholars are awarded Ph.D. degree.

The institute's mission in establishing a research program is iconoclastic in approach and demonstrating the much-hyped world of academic research in India that goes beyond the paradigm of adding to the body of knowledge.

TSEC offers doctorate programme in Computer Engineering, Information Technology & Electronics & Telecommunication Departments. A total of 40 research scholars have been registered under highly qualified, dynamic and technologically sound faculty.

COMMITTEES

Bio-Entrepreneurship

Established to provide all necessary resources for budding entrepreneurs in Biotechnology and allied sectors, the committee staunchly believes in 'You provide the innovation, we provide the platform.'

From the Entrepreneurship Platform, they expanded to the Debate space and introduced Bio-Debate in 2020. Due to Covid-19, the third installment of Bio-Entrepreneurship was held online in March 2021 and included events like Bio-Branding and Bio-Quiz.

Bio-Entrepreneurship acts as a rendezvous point for knowledge, enthusiasm, and experience. BEn 2021, surely exhibited the same jubilant spirit as their goal intended. In this BioEntrepreneurship through a stringent examination and judgment over three rounds, the participating teams presented their biology-related Entrepreneurial Ideas. While in Bio-Branding the participants were tested for their knowledge of brand management, Bio-Quiz was a fun affair of knowledge and speed.

CODECELL

TSEC CodeCell is a committee of Thadomal Shahani Engineering College which works towards nurturing interest and developing coding skills in students. It conducts various workshops and seminars for beginners, introducing them to different programming languages, algorithms and concepts as well as committing to inculcate a regular coding habit in advanced coders to keep their programming skills sharp.

They kicked off the year with an online event Lock N Code which was based on logic and coding wherein the students had to solve puzzles using coding techniques to clear several levels. A Git and Github Workshop was conducted by Harsh Kapadia and Tushar Nankani covering the fundamentals. The highlight of the year was the 40-hour hackathon, TSEC Hacks, wherein participants came up with solutions to the problem statements within the stipulated time. The weekly challenges focused on building problem-solving skills and the application of algorithms.

CODESTORM

CodeStorm strives to unwittingly provide a proficient platform for coding and software development, upholding their mantra - "Opportunities don't happen, you create them". Their objective as a team is to expand opportunities for all aspiring developers and prompt coding interests by updating people on recent technologies and their corporate applications based on the most trending technical platforms and frameworks.

One of their main events is the annual Hackathon, an intense hardware and software competition wrapped around the theme of blockchain wherein programmers are coaxed and encouraged to collaboratively code over a constrained duration of time. They also organize various Technical Exhibitions throughout the year intending to provide technical expertise and educate young programmers about various new technologies and their applications through workshops and seminars. Some of the events conducted in the past year include the Codestorm Online hackathon, Technical Housie, and Technovation.

Computer Society of India

The Computer Society of India (CSI-TSEC) strives to provide value-based technical education to guide and mold the character and personality of the students and generate technical awareness, therefore helping them keep abreast of the latest technologies in various avenues.

Their flagship events include TechNext and Rubix, which are affordable, insightful, and supremely tech-savvy. While the former is conducted in the odd-semester with a clear focus on developing a set of critical technical and soft skills among budding engineers, playing host to various innovative programming and interesting hands-on workshops for all students especially for FEs to get acquainted with various technologies, the latter is held during spring with the aim of training and preparing first-year students in technical projects. Past events include Programming on Arduino UNO, Raspberry Pi, and building a complete working website and e commerce platform using WordPress and Woo-Commerce.

Google Developer Student Club

Google Developer Student Club-TSEC is a university-based community group for students interested in Google developer technologies. Students from all undergraduate or graduate programs with an interest in growing as a developer are welcome here. By joining DSC-TSEC, students grow their knowledge in a peer-to-peer learning environment and build solutions for local businesses and the community.

In this academic year, they conducted many collaborative and individual events like Insight into DSC that was an attempt to introduce Developer Student Clubs and other tech communities among students, Android Study Jams that are community organized study groups for people to learn how to build android apps in Kotlin programming language using the curriculum provided by Google. DSC Solution Challenge that is an opportunity for the students to build technological solutions to solve real-world problems. Hack The Space which is an online hackathon and 30 days of Google Cloud Program that introduced students to cloud technologies.

Ek Bharat Shrestha Bharat

EBSB is an initiative taken by the Government of aims to promote the spirit of national integration through a deep and structured engagement between all Indian States and Union Territories through a year-long planned engagement between States and induce a sense of responsibility & ownership for the nation as a whole through these close cross-cultural interactions as it intends to build up the inter-dependence matrix unequivocally.

The EBSB club at TSEC fervently promises to promote the uniqueness of Odisha whilst showcasing its rich heritage, culture, customs, and traditions and thus enable students to understand and appreciate the diversity in India, fostering a sense of common identity. The club is known to celebrate the idea of India as a nation wherein different cultural units across varied geographies coalesce and interact with each other, engendering the glorious manifestation of diverse cuisine, music, dance, theatre, movies & films, handicrafts, sports, literature, festivals, painting, and sculpture.

The Entrepreneurship Cell

The Entrepreneurship Cell (TSEC E-Cell) has the sole mission of generously providing its doctoral students with a mobile platform where they can think, innovate and create. They believe in the celebration of all dreams, big and small as they continue to generate awareness about the rewarding entrepreneurship culture. The odd semester saw a webinar on Technology Acceleration & Reading Room followed by Embark, the annual entrepreneurship festival (held virtually) with fun events like 'Bid For The Best' and 'Ideathon'. In addition to hearing some crunch Start-up Stories, the debating skills of participants were tested at Speak your Stand. Organized during the even semester, 'Pitch Perfect!' witnessed some groundbreaking business pitches while a webinar on 'Investing In Stock Market 101' gave an insight into the world of stock markets. Other events include 'Memepreneur' and an Instagram Live with Rohit Kashyap, founder and CEO of Maytree School of Entrepreneurship.

Institution of Electronics and Telecommunication Engineers

Following the motto 'Innovation is our Tradition', the vision of IETE - TSEC is to impart technical knowledge to all curious minds. Their objective is to focus on making students aware of the evolving technologies and making them technically adept for the future. They conduct several technical workshops and seminars every year on trendy topics like Android App Development and Python.

IETE conducted a two-event fest known as Aether. The first event was KHOJ, a virtual treasure hunt and the second was Pitch Please in which participants had to provide solutions for the problems arising due to the pandemic.

Oscillation 2021 consisted of 6 highly educational workshops and seminars. Over the course of this year, IETE has also been curating informational blogs on their website on various topics. They also started an educational video series on their Instagram handle known as Infogram.

Indian Institute of Chemical Engineers

IIChE-TSEC has always endorsed the beauty of innovation entwined with the application of knowledge. Their objectives include the advancement of chemical engineering science, ensuring a regular exchange of ideas, and encouraging research to open up doors to new possibilities.

Despite the dire situation of the pandemic, they proved to be a contemporary and ingenious committee working towards the benefit of all the students holistically as they upheld values of traditional concepts with a virtual touch this lockdown.

A webinar on "Green Technology" was organized to inspire students to learn the primary yet integral principles of sustainable technology. The webinar on "Use of Membranes in Treatment of Wastewater" effectively spread awareness about environmental degradation.

Amidst a global pandemic, IIChE-TSEC was also hugely successful in hosting its latest innovation and the first of its kind, The "Chem Triathlon" with the motto, "Synthesizing Synergy". They also kept the spirit of chemical phenomena alive through social media via quizzes and short mind-boggling activities.

Indian Society for Technical Education

The primary aim of the Indian Society for Technical Education (ISTE) TSEC is to produce regional and global leaders through personality development and enhancement of technical skills. They staunchly believe in the saying "All work and no play makes Jack a dull boy". To best exemplify this and bring together students from all branches, they conduct various technical workshops and seminars throughout the year with the quest of igniting a passion for Science and Technology in their minds.

Gaming Weekend'20 offered a one-of-a-kind experience to students as they competed in three well-known online games namely Chess, PlayerUnknown's Battlegrounds (PUBG), and Pro Evolution Soccer (PES). The second event of the year, Technophilia consisted of four competitions revolving around programming and technology. Ascent, the committee's flagship event focusing on 'Life after Engineering' was composed of two webinars and a Mock Placement Competition. Lastly, a calculator workshop was conducted so that the students get acquainted with the operations of the calculator.

Mobile App Developers Club

There is a hidden talent within every student that they are yet to discover. Mobile App Developers Club provides them with a platform to thrive. It focuses on creation and innovation by crafting only what is best for the college, achieved by the hard work and efforts put in by the students leading to the invention of new and better ideas.

The main aim of MAD Club is to create an environment in the college where students can come together, collaborate and work on real-life applications using the trendiest technologies. This helps the students boost their technical knowledge and application skills.

During these difficult times wherein the students have taken admission in the college pumped up with enthusiasm but cannot be physically present, getting a virtual tour of the entire college with the help of the application and the website will make them feel close not only to their departments but also to the college.

Monte Carlo Localizers

Monte Carlo Localizers' (MCL-TSEC) is a mediator between the student body and the interested audience of TSEC.

The committee has always been a huge supporter of extracurricular activities, versatile academic ventures, and sports, and the past year has seen various programs hosted for the benefit and entertainment of the students.

The MCL crew covers all events happening on the premises and publishes them on the official social media handles of the college, and also dedicates effort to highlight the engineering wonders of the modern world. During these days of lockdown, MCL has actively engaged with the world through the college's social media page.

Their hope aligns with their mission that Thadomal Shahani Engineering College remains to be among one of the most recognized institutions in Mumbai- a place for creativity and beyond, for anyone who wishes to pursue a career in engineering with a holistic global perspective.

National Service Scheme

The National Service Scheme (NSS-TSEC) basked into the 23rd year of its community service championing its motto "Not me, but you". The philosophy of NSS is a good doctrine in this maxim, which underlines their belief that the welfare of an individual is ultimately dependent on the welfare of the society and thus perfectly embodies their brand promise and reaffirms their allegiance to make an impact while strengthening their ambition of "Personality Development through community service".

Their primary goal is to profoundly inculcate in the minds of the youth to serve the community and work for the social uplift of the down-trodden masses of our nation by engaging in activities like the adoption of villages for development work, medico social surveys, adult education programs, blood donation drives, etc.

In the past year, their volunteers organized several campaigns for the eradication of social evils, the development of scientific temper, and the popularization of democracy, secularism, and social harmony.

Rotaract Club

The motto of Rotaract TSEC for the academic year 2020-21 was "We Rise by Lifting Others" which perfectly captures their fierce commitment to giving back to the community by generating awareness, leading action, and extending support, thereby instilling a sense of social consciousness and responsibility in students.

Despite the challenges posed by the pandemic, this task force has been most assiduous in conducting various events like Donation Drives, Resource Raising Drives, Awareness Raising Drives, and NGO Visits. Besides this, they also dabbled in several other fun and challenging activities such as Futsal (Football Competition), Open Mics, Walkathons, Poster Making Competitions, Game Competitions, Debates, and even their very own Talk Show - Chai Time with RCTSEC.

RCTSEC has always strived to make community service gratifying and exuberant and has successfully advanced its goal of fostering goodwill this past year -encouraging the development of dynamic friendships and creating a positive impact through active participation and cooperation from all its volunteers.

The Happiness Club

The Happiness Club is an initiative by The Art of Living Foundation and TSEC for the promotion, protection, and restoration of student's mental health and well-being through meditation and other practices. It strives to help people realize their true potential by developing skills and providing powerful breathing techniques which channelize their energies.

THC kick-started the year with their first event "Recruiting Now", under the guidance of Mr. Devang Vora, who gave invaluable insights about the dos and don'ts regarding placements. A webinar "Enchant- The Real High" was organized to create awareness amongst students regarding substance abuse. Mr. Himanshu Nagarkar talked about the concerns surrounding post-lockdown socializing in a session titled "Communication Conquered" and later conducted a meditation workshop called "What is Medication After all?". On Women's Day this year, a yoga and relaxation session was arranged for our beloved teachers.

The Inner Engineering Club

Since its inception, TIE Club has always focussed on creating a safe space for all students, combating stigma, and promoting the AKA of Mental Health i.e. Increasing 'Awareness' that mental health issues exist, improving 'Knowledge' on what these issues are & how to cope with them, and providing 'Access' to professional help.

In the advent of the Covid-19 pandemic, TIE Club immediately recognized the importance of its role in helping students cope with stress and isolation and provide unconditional, unbiased emotional support to those experiencing negative mental health during this global crisis. Upholding its motto 'Where we believe in making a Difference', TIE mentors took prompt action and organized several meaningful events and engaging activities after conducting thorough research and consulting experts in the field, covering five different themes, over fifteen stress buster techniques, productivity booster activities, and much more with its audience via online platforms (majorly its Instagram page, @tieclubtsec).

Unnat Bharat Abhiyan

Unnat Bharat Abhiyan is inspired by the vision of transformational change in the rural development process by leveraging institutions to help build the architecture of an inclusive India.

The objective is to select suitable rural cultures and effectively participate in their holistic development by using eco-friendly sustainable technology and local resources, creating sufficient employment opportunities.

The main focus for the development of the five villages adopted by TSEC in Neral, namely Anandwadi, Ambewadi, Fanaswadi, Daki Cha Mal, and Tapalwadi, lies in the themes of Women Empowerment, Organic Farming, Water management, Renewable Resources, and Support for the artisan industry.

This brilliant group conducted multiple events during the academic year 2020-21 like Plastic Free July, a webinar on National Education Policy, etc.

Their volunteers sold eco-friendly Bamboo Lanterns during Diwali (in collaboration with Vivek Foundation and Tolkar Kala Kendra) and even built a website where rural women can sell papads. UBA-TSEC also organized its Annual Donation drive popularly known as Joy of giving week in spring.

EVENTS

1ST APRIL

Odisha Day

EBSB members explained the history and significance of the day; they sang a famous bhajan in Oriya.

8TH MAY

Feed the Underprivileged Workers

RCTSEC in association with Roshni Foundation raised funds to feed families of underprivileged workers who have been affected by the lockdown.

19TH MAY

Mind Mapping

TIE mentor Vrushali Maste conducted a webinar demonstrating simple Mind Mapping techniques to help students sort through their thoughts and ideas, enhance their creative thinking power and thus become more productive and efficient during the pandemic.

Live chat
Top chat ♟ 594

19TH-21ST JUNE

International Day of Yoga

The NSS -TSEC team organised a yoga challenge on Instagram and a ninety minute session was conducted on YouTube by ISHA Foundation, consisting of three yoga practice sessions and valuable insights about yoga from Sadhguru himself.

26TH MAY

Odisha: Calm in Crisis

The EBSB team compiled a short documentary highlighting the effects of the pandemic, Cyclone Amphan and Odisha's response to overcome this crisis.

24TH MAY

Battle of the Quarantine

RCTSEC organized a PUBG mobile tournament to provide students with some relaxation - 30% of the proceeds were donated.

27TH JUNE

"Use of Membranes in treatment of Wastewater" Webinar

Mr. G. L. Gonsalves, a TSEC alumnus and the associate general manager at Rochem Separation Systems proactively encouraged students to maximize the efficiency of industries while adhering to environmental standards through an insightful talk session conducted by IIChE.

27TH - 28TH JUNE

Gaming Weekend

The participants competed in three well-known online games: Chess, PlayerUnknown's Battlegrounds (PUBG), and Pro Evolution Soccer (PES) in this event organized by ISTE TSEC.

28TH JUNE

Oriya – The Language of the Ancients

An interactive session was organised by EBSB to lay the foundation essential to learning Oriya.

6TH JULY

Webinar on Emotional Intelligence

The primary goal of this TIE Club event was to provide a platform for participants to express themselves in a safe environment, to promote art and creativity as an outlet and start a conversation around mental health by exchanging stories and personal experiences. There was an incredible display of singing, poetry, dancing and story-telling.

2ND-5TH JULY

Hackathon

TSEC CodeStorm organized its first-ever Online Hackathon that lasted 72 hours, intending to provide an opportunity to all young talented engineers amidst the pandemic.

Chai Time with RCTSEC

In this month-long event series, members of the Rotaract Club interviewed people from different walks of life, giving them a platform to share their journey and encourage students to follow their passions even during the lockdown. Some of the key speakers included Leher Ali - Founder and CEO of Almari, Anubhav Bhansal – Founder and CEO of Aapka Sahara Foundation, and Dr Divya Sharma – a Sports therapist.

1ST TO 23RD JULY

Aether

Aether was an IETE event that consisted of two separate competitions: Khoj, an online treasure hunt, and Pitch Please wherein the candidates had developed innovative ways to handle the various problems caused by the COVID – 19 outbreak in the form of a PDF report or a PowerPoint Presentation.
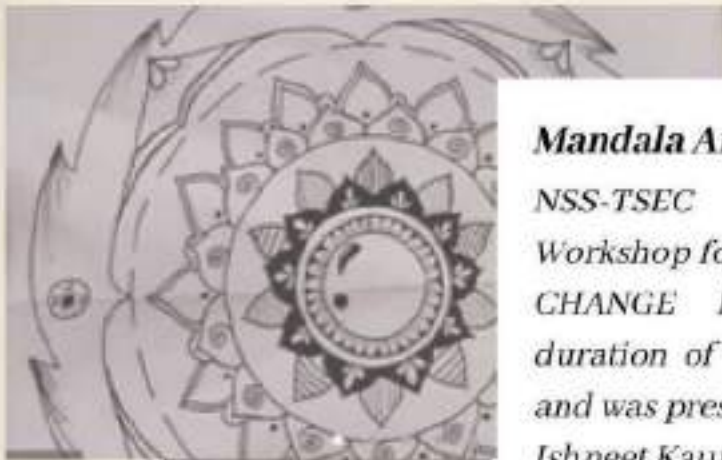
Mandala Art Workshop

NSS-TSEC organized a Mandala Art Workshop for the children of the SPARK-A-CHANGE Foundation on Zoom. The duration of the workshop was 80 minutes and was presided over by their creative head Ishneet Kaur Alag.

25TH JULY

30TH JULY

Exploring Odisha

The EBSB club members formed teams of three, each representing the following themes- Culture, Cuisine, Dance, Heritage, History, Religion & Stories, and folklore of Odisha state.

1ST AUGUST

Hydroponics Webinar

NSS-TSEC and RCMSP in collaboration with HiMedia Laboratories organized a webinar on HYDROPONICS on Zoom. The speaker for the session was Mr. Monesh Rathod from HiMedia. Hydroponics is a subset of hydroculture which is a method of growing plants without soil by using mineral nutrients solutions in a water solvent.

30TH JULY

Save the Endangered Campaign

RCTSEC in collaboration with RC Churchgate held a poster making competition to raise awareness for the endangered species of Tigers, on the occasion of Tiger Day.

Lock N Code

This Codecell event was based on logic and coding wherein a team of 3 had to solve a series of puzzles to unlock the following levels. Teams were split into 3 different sets, each set having different questions over the 6 rounds. From the 4th round onwards teams were eliminated after every round which left 3 teams to compete in the final round from each set.

9TH AUGUST

Technical Paper Writing

A webinar on Technical Paper Writing was conducted by ISTE and Dr. Gauri M. Shukla, a faculty of the Biomedical Department who taught students how to write a Technical Paper in the standard IEEE format.

12TH-14TH AUGUST

Chem Triathlon

The 3 events that were a part of IIChE's Triathlon included Chem Q- a quiz based on the fundamentals of Chemistry and core subjects of Chemical Engineering, What Went Wrong- a unique event to identify potential workplace hazards at chemical manufacturing plants using the concepts of industrial safety and HAZOP analysis and Minds in Motion- a mind-boggling challenge to create a cost-efficient product for the treatment of Covid-19 incorporating the knowledge of chemical engineering and technology.

EMUNA 2020

RCTSEC was one of the partner Rotaract Clubs for this Virtual Model United Nations Assembly. The topic of discussion was " Strengthening and enforcing the convention on biological weapons and assessing and minimizing the risks of biological warfare." Participants from all over the world extending to countries like Brazil, France and Mexico presented their views, developing universally acceptable proposals to solve this issue.

15-16TH AUGUST

Bharat Bhagya

Independence Day

Thadomal Shahani Engineering College celebrated the 74th Independence Day of India with great vigour and solemnity. Our Principal, Dr. G.T. Thampi unfurled the national flag.

Jai Jawan Jai Kisan

15TH AUGUST

A webinar on Google Meet was organized by NSS-TSEC for all students to pay respect to the Soldiers and Farmers of our country. The event was graced by two prominent speakers - Brigadier Sudhir Sawant, active supporter of the Natural Farming Movement (SPNF), and Mrs Anuradha Prabhudesai, founder of Lakshya Foundation.

20TH AUGUST

Building Awareness on Social Anxiety

An IGTV video was posted on the TIE Club Instagram handle to address body image concerns. This two-part video series explores the adverse effects of body shaming with the fervent hope of helping people recognise this toxic cycle of body drama and putting an end to it.

iCARE - Cardiac Arrest Resuscitation Online Workshop

NSS-TSEC in collaboration with Holy Family Hospital, Bandra organized an online workshop on Cardiac Arrest Resuscitation under the iCARE. Both speakers, Ms. Sumaiya Raghavan, Operations Head at iCARE, and Mr. Anand Shrivastav, Project Director at iCARE were qualified trainers in first aid heart saving, and CPR and have received certification from the American Heart Association.

29TH AUGUST

29TH - 30TH AUGUST

Technophilia

The event organized by ISTE - TSEC consisted of four competitions : Binary 101- an aptitude test made into a game, Review Article Presentation, Game of Codes - a coding competition & Quiztastic - a quiz competition on relevant affairs.

30TH AUGUST TO 12TH DECEMBER

Weekly Challenges

Every Sunday, a set of questions was released on the TSEC Codecell website, each carrying a certain number of points based on their difficulty. The first three students to solve the problem were awarded bonus points. These weekly challenges not only tested their mental ability but also helped students build programming logic.

30TH AUGUST

Technology Acceleration and The Reading Room Webinar

The key speaker for the webinar was Abhishek Raghunath, a journalist turned entrepreneur who was a part of the founding team of Forbes India and the start-up team of Times Now and Neo Sports. The session kickstarted with a discussion on technical business innovation and ideas; followed by an online reading room session where everyone 'read books without reading them'. This free webinar put up by E-Cell gave the attendees an insight into the best business books and strategies!

6TH SEPTEMBER

Technical Housie

This CodeStorm event aimed to engage students in a fun-packed event and brush up on their basic technical knowledge amidst the ongoing pandemic. Instead of calling out numbers, students were given short and basic questions whose answers were integers between 1-50, which they could strike out on the tickets provided to them. The remaining rules were the same as those of a normal Housie.

10TH SEPTEMBER

Awareness of suicide prevention

In this Insta Live session organised by TIE Club, peer mentor Deepa Bhairwani used a catechism approach to sensitize the audience and provide suicide prevention awareness. She also shared some common symptoms portrayed by people who are considering suicide, how to identify and extend help to them.

19TH SEPTEMBER

CORONA +VE

The Happiness Club came up with a one-week event to spread love and light during these tough times. Teachers and students were asked to share any positive learnings and happy lockdown experiences with the team which were then uploaded on their Instagram page.

1ST OCTOBER

International Day of Older Persons

RCTSEC associated with Aapka Sahara Foundation, to pay a tribute to the senior citizens of our society. A session was conducted at BHN Healthcare, Mira Road Branch which involved a singing performance by Khushi Bhalaria. The highlight of the event was a dance therapy session conducted for the elderly by the Foundation.

26TH SEPTEMBER

Insight into DSC

This event was conducted in collaboration with 15 other DSC's across India. The speakers guided the students about Developer Student Clubs and tech communities, Google Solution Challenge and how one can contribute to DSC.

10TH OCTOBER

World Mental Health Day

TIE Club collected messages from students providing them with a platform to voice their opinions, share their thoughts and experiences, and speak out against the stigma around emotional and mental health issues.

26TH - 31ST OCTOBER

The Self Care Challenge

TIE Club set up a 7-day challenge for their Instagram followers to instil in students simple self-care habits that can be practised regularly. Participants were encouraged to perform at least one of the three assigned tasks every day. The 7 themes were Cleaning Spree, Creative Burst, Self-work, Move Move Move, Connections, Spread Good Vibes Only, and Relax.

30TH-31ST OCTOBER

Embark

E-Cell's Embark'20 consisted of 4 events - Bid for the Best, an IPL auction, comprising two rounds – first an elimination that tested the finance management, bidding and decision-making skills of the participating teams. The second round saw players auctioning through the team's virtual money. Startup Stories provided a platform to people with successful start-ups as they shared their experiences and some words of wisdom with the participants. Speak Your Stand was yet another invigorating affair where participants held group discussions and debates. Ideathon, the last event, allowed participants to pitch their ideas for a start-up.

1ST NOVEMBER

Granulocyte Donation

Organised by NSS-TSEC and Think Foundation, this was one of the very first webinars in the city to make the youth aware of granulocyte donation.

NOVEMBER

30 Days of Google Cloud Program

This month-long program offered by DSC was an opportunity for the students to kick start their career in the cloud and get hands-on practice on the Google Cloud Platform.

31ST OCTOBER
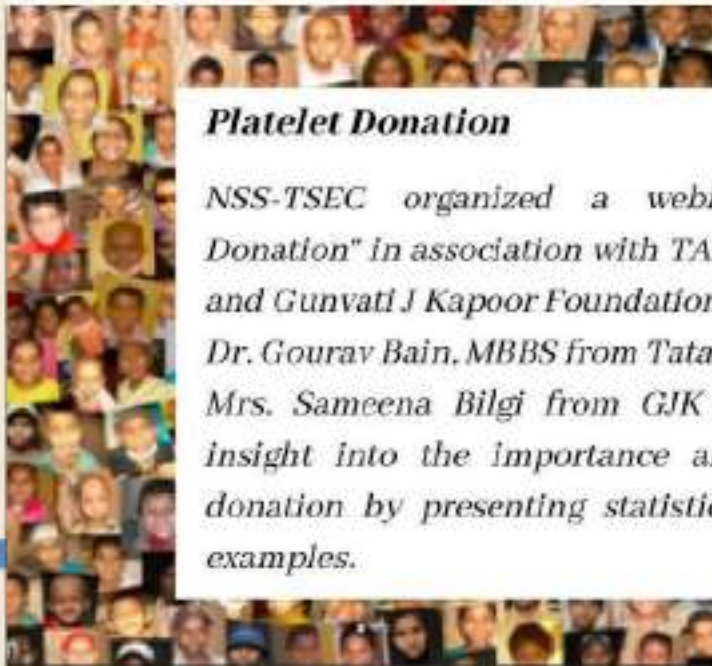
Platelet Donation

NSS-TSEC organized a webinar titled "Platelet Donation" in association with TATA Memorial Hospital and Gunvati J Kapoor Foundation (GJK). Both speakers, Dr. Gourav Bain, MBBS from Tata Memorial Center, and Mrs. Sameena Bilgi from GJK Foundation gave an insight into the importance and need for platelet donation by presenting statistical data and real-life examples.

2ND NOVEMBER ONWARDS

Buzzing Minds

RCTSEC, in association with One Page, organized events for educating the young and nurturing them with knowledge. Their volunteers hold live online sessions with the students, on various topics like good hygiene, good manners, discipline, fitness and exercise and also have interactive sessions teaching the younger children Mathematics, Cooking and English.

4TH NOVEMBER

ChemActs

IIChE Student Chapter of TSEC organised an online event, ChemActs - a series of mini online activities to increase social media engagement and provide a platform for chemical engineering students to be a part of an online community.

Discussion on New Education Policy

Dr. G. T. Thampi organized a meeting with staff of college & members of Hyderabad Sindh National Collegiate Board (HSNCB) to discuss the New Education Policy. Policy implementation templates covering all aspects related to higher education were discussed.

12TH NOVEMBER

Animal Welfare

NSS-TSEC along with Human Society International (HSI)-India conducted a webinar on the topic "Where does our food come from". Ms. Kanak Shriya Kaushik, a Delhi Outreach Campaigner of HIS educated the participants on the social and ethical concerns of the food industry, and thus successfully ignited a conversation about animal welfare, motivating people to make conscious food choices.

Pawsome

RCTSEC, in collaboration with Street Tails, organized a resource raising drive for our furry friends all around Mumbai.

25TH DECEMBER

4TH DECEMBER

Recruiting NOW

Placements and sitting for interviews can be nerve-wracking. To help the students with the procedure and alleviate some stress off their shoulders, THC invited Mr Devang Vora, an alumnus and a TSEC Campus Recruit to Accenture, to share his experience and intellect with all job aspiring candidates.

14TH NOVEMBER

Diwali Poster Making Competition

To raise awareness on the harms of bursting firecrackers, RCTSEC organised a poster making competition on their Instagram Page.

22ND JAN - 24TH JAN

Android Study Jams

The first session of this DSC event covered the topics - Installation of Android Studio, Brief explanation of Native Development Kit (NDK), creating and running an Android Virtual Device (AVD), and Overview of Android Debug Bridge (ADB). The second session gave insights to attendees on how they can create, initialize with template and compile the project from Android Studio, run the built app on an emulator, compile the project from the command-line with Gradle and install the app on a physical device using ADB. The third session was held on adding sensor inputs to an app and running the app on a physical device.

26TH JANUARY

Republic Day

Celebrations of the Republic Day aroused infectious enthusiasm and patriotic fervour as our Principal, Dr. G. T. Thampi hoisted the tricoloured flag followed by the National Anthem.

30TH JANUARY - 30TH MARCH

DSC Solution Challenge

The mission of this event was to solve one or more of the United Nations 17 Sustainable Development Goals using Google technology.

19TH FEBRUARY

Relationships and Me

Hosted by the mentors of the TIE club for discussing our relationships with other people and ourselves, this webinar highlighted the importance of boundaries and dissected certain situations where they are tested, all in the form of fun quizzes and puzzle activities.

Enchant: The Real High

The session was conducted by The Art of Living foundation, organized by TIE in association with THC, NSS and UBA of TSEC. Hosted by youth mentor Ramnik Bansal, it was aimed at increasing awareness about youth substance abuse. 93% of the students took a pledge to not indulge in substances again, thus making it successful.

6TH FEBRUARY

21ST FEBRUARY

Eye of an Entrepreneur

RCTSEC organised an interactive session with Kevin M. Shah, the Managing Director of KEVIN ENTERPRISES, an Entrepreneur, Mentor, and Coach about the 'Traits and Mindset of becoming an Entrepreneur'. Participants from all over the city took part in this event and had a healthy conversation on how one could start and maintain their businesses.

Quiz-a-thon

A series of quizzes were conducted throughout March by the NSS team on important dates for the month including National Safety day, Cyber censorship day, World water day, etc, to increase awareness and general information on social topics.

MARCH

4TH MARCH

Communication Conquered

The importance of communication skills and ways to keep them up to the mark was talked about by Mr. Himanshu Nagarkar, Bombay High Court Lawyer, and the Art of Living faculty in this webinar organized by The Happiness Club.

7TH MARCH

Yoga for the Wonder Women

This event was conducted on the occasion of Women's day by Mrs Dipti Deshpande, an alumna of TSEC, faculty and yoga trainer at the Art Of Living Foundation, for our beloved teachers which included Pranayama, Meditation, Managing Menstrual Pain and combating PCOS, Facial Yoga and Desktop Stretches amongst other techniques to help one lead a healthy life.

6TH MARCH

Podcast

NSS set up a podcast with Ms. Theresa Rose Sebastian, a social and climate activist with to conduct a healthy discussion on topics like climate change, Covid-19, sexism, and sex education.

5TH - 7TH MARCH

Oscillation

Oscialltion'21 consisted of highly educational seminars on topics like competitive coding, innovations in laptop design, and workshops on Python, UX/UI Design and Spark AR.

12TH - 14TH MARCH

Walkathon

To encourage students to stay healthy during the pandemic and raise funds for an NGO, RCTSEC organised a Walkathon that attracted over 230 participants walking for a cause, and thus aiding the club to donate 220 kilograms of ration to the people at Shanti Dhaan, an orphanage for disabled children.

15TH - 20TH MARCH

Donation Drive

UBA-TSEC conducted its Annual Donation Drive popularly known as the 'Joy of Giving' week with a clear focus on receiving shoes, sports equipment, and clothes. Other basic amenities like books and toys were also accepted. All safety protocols were followed; to avoid crowds, checkpoints were assigned in areas like Borivali, Thane, Kalyan, Ulhasnagar, Bhayander, and the new building foyer at TSEC.

Book Making

Volunteers used papers from old books to curate beautiful books for children from the NSS-UBA adopted villages.

9TH - 16TH MARCH

20TH MARCH

What's MEDITATION afterall

This event was conducted in collaboration with 15 other DSC's across India. The speakers guided the students about Developer Student Clubs and tech communities. Google Solution Challenge and how one can contribute to DSC.

20TH MARCH

Technovation

In this THC session, Mr Himanshu Nagarkar explained exactly what meditation is, busted the myths and made everyone understand how it can help one to grow themselves and build skills.

19TH MARCH

BIO-Entrepreneurship

Bio-Entrepreneurship acts as a rendezvous point for knowledge, enthusiasm, and experience. BEn 2021, surely exhibited the same jubilant spirit as their goal intended. In this BioEntrepreneurship through a stringent examination and judgment over three rounds, the participating teams presented their biology-related Entrepreneurial Ideas.

20TH MARCH

BIO-Branding

In Bio-Branding the participants were tested for their knowledge of brand management.

21ST MARCH

BIO-Quiz

Bio-Quiz was a fun affair of knowledge and speed. It's a simple contest: answer to the best of your knowledge. Featuring 'Lightning Speed' and a mixed bag of questions, ranging from GK to Pictorials to the most noteworthy personalities, this Bio-Quiz has it all!!

27TH MARCH

Pitch Perfect

This event witnessed the confident contestants from various colleges pitching their way to victory. With the products put on display by E-Cell, the contestants were judged based on their preparation, content of the presentation, and confidence. Later that day, a webinar on Investing In Stock Market-101 helped the enthusiastic attendees familiarize themselves with the world of stock markets.

26TH - 28TH MARCH

TSEC Hacks

The massive 40-hour Online Hackathon organised by TSEC Codecell focused on solving problems in domains of Web Development, Blockchain, App Development, Artificial Intelligence and Machine Learning, helping participants apply their skills and build real-world applications.

21ST MARCH

Git and Git Hub

The workshop was hosted by Mr. Harsh Kapadia, a member of TSEC CodeCell, who explained and demonstrated the basic concepts of Git and the features of GitHub encouraging students to engage in Open Source Contribution. He was later assisted by Mr. Tushar Nanakani in conducting a hands-on session that enabled the participants to put the concepts demonstrated earlier into practice

3RD APRIL

Introduction to Sky Meditation

This was a short session organised by TIE in association with The Art of Living Foundation where attendees were introduced to the concept of Sudarshan Kriya.

3RD - 4TH APRIL

Ascent

ISTE's flagship event focused on 'Life after engineering'. The worries regarding pursuing masters or placements were put to rest in the webinar titled 'Placement or Masters: What next?'. An IoT workshop was conducted to acquaint the participants with the trending technology. The highlight of the event was the 'Mock Placements' which prepared the students for the upcoming hurdle of placements

17TH APRIL

EXPRESSIONISM 2.0 - A Teal Coloured Stage for You

The theme for TIE Club's flagship event this year was Sexual Assault Awareness (as in SAAM), an important topic to address since 95% of sexual assault cases on college campuses go unreported

Educational PPTs

With the kind donation from the college, NSS TSEC has been arranging to provide the adopted villages with computers. Volunteers worked in groups to create presentations with voice-overs in Hindi and Marathi, explaining concepts of Mathematics which will be installed in those computers as an additional educational aid for the children.

30TH APRIL

17TH - 18TH APRIL

Prayaas '21

NSS-TSEC organised a first of its kind inter NSS event comprising 8 competitions spread across the two days, with participation from more than 25 Polytechnic and Degree colleges from all over Mumbai.

AWARDS

TSEC AWARDS

MR. AASHISH DEVCHANDRA RAHATE

BARRISTER H.G.ADVANI GOLD MEDAL

MS. ESHA SANDEEP SHARMA

K.M. KUNDNANI GOLD MEDAL

Principal Award of Excellence

Saud Shaikh

Amol Sawant

Girish Salunkhe

Girish Chawla

Meet Merchant

Vrushali V. Maste

Radhika Bhadbhade

Ananya Arora

Hariharan Pillai

Simran Javeri

Pearl Jain

Jay Manohar Satoskar

Oveshahmed Ayub Patel

Hall of Fame

Shivang Raikar	Dev Kumar
Akash Chhabra	Vikyath Shetty
Dhruv Karve	Sourish Dewani
Aatish Agarwal	Janhavi Tushar Zarapkar
Omkar Padwekar	Mohnish Nathani
Isha Gupta	Rachana Acharya
Apeksha Gurav	Karan Balani
Mahima Kardam Bhatt	Harsh Nahar
Bishwajit Jha	Kashmira Salgaonkar
Shantanu Aeer	

Department Ambassadors

Information Technology
Oveshahmed Patel

Girish Salunkhe

Vinit Soni

Mohnish Nathani

Janhavi Zarapkar

Mahima Bhatt

Rohan Asnani

Purmina Chhabria

Computers
Milan Chandiramani

Kushagra Srivastava

Rishab Saini

Vivina Nayak

Neha Alshi

Rohit Shambawani

Dinsha Vaswani

Ishita Kotian

Malvika Rao

Electronics & Telecommunication
Saud Shaikh

Aashish Rahate

Ananya Arora

Akshita Gulati

Chemical
Sankalp Sharma

Esha Sandeep Sharma

Radhika Bhadbhade

Biomedical
Valentina Robert Dsouza

Armisha Thumar

Nikhil Kumar

Biotechnology
Aditi Shirodkar

Ashwini Jha

TSEC Leaders

Roshan Shetty	Dhruv Karve
Pearl Jain	Akshita Gulati
Pallavi Vaswani	Pranay Kushnaji
Rahul Chugh	Oveshahmed Ayub Patel
Saud Shaikh	Zoya Mithani
Ruchit Shah	Rohan Asnani
Kritika Makhija	Sagadevan Kounder
Kunal Israni	Rishabh Saini
Vinayak Mhatre	Ritika Talreja
Vinit Soni	Girish Chawla
Pratik Singh	Harsh Lohana
Meet Merchant	Priyal Patil
Prithvi Punjabi	Sankalp Sharma
Neha Jaitpal	Aashish Rahate
Aditi Nilesh Shirodkar	Yugashree Chaudhari
Owais Merchant	Mahima Bhatt
Esha Sharma	Raj Motwani
Radhika Bhadbhade	Sourish Dewani
Vrushali V. Maste	Anushka Pathrikar

TSEC ENVOYS

Nikhil Kumar	Chinmayi Dhabolkar
Girish Chawla	Sneh Gehani
Yugashree Chaudhari	Malvika Rao
Simran Bhatia	Rishab Saini
Janvi Shah	Ananya Arora
Abhishek Biswas	Krish Chawla
Omkar Padwekar	Prayag Patel
Aayush Parab	Aashish Rahate
Arthata Harvande	Vikas Jaiswal
Prajakta Bomma	Saud Shaikh
Neha Alshi	Jinal Jain
Ishita Kotian	Akshita Gulati
Rahul Laungani	Nishant Shedale
Remston Dsa	Priyanka Dewani
Kushagra Shrivastava	Mahima Bhatt
Ritika Talreja	Oveshahmed Patel
Pavan Agarwal	Anuj Vyas
Amol Sawant	Purnima Chhabria
Hariharan Pillai	Hritik Sharma
Pearl Jain	Vinit Soni
Srishti Rajani	Pranali Oza
Meet Merchant	Adithi Acharya
Adhithyaram S	Jay Shah
Kajal Gandhi	Kartik Ullal
Vatsal Shah	
Vipin Mourya	

Special Appreciation - Faculty

Dr. Jayant Gadge (Admission Team)

Dr. Arun Kulkarni (Admission Team)

Prof. Chetan Agarwal (Admission Team)

Prof. Sanjay Kumar Pandey

(Admission Team)

Prof. Sanober Shaikh (Admission Team)

Prof. Vijal Jain (Admission Team)

Prof. Sunil Gidwani (Admission Team)

Prof. Mukesh Israni (Exam Team)

Dr. Gopal Pardesi (Exam Team)

Prof. Tasneem Mirza (Exam Team)

Prof. Nabanita Mandal (Exam Team)

Prof. Darakshan Khan (Exam Team)

Dr. Bhushan Jadhav

(Exam & Staff Training Work)

Ms. Mandakini Bodhare

(All round Administrative Work)

Ms. Jyoti Pakale

(All round Administrative Work)

Ms. Sunita Mirani

(All round Administrative

Mr. Premchand Rajput

(All round Administrative Work)

Mr. Amar Phuke

(All round Administrative Work)

Mr. Pritam Lokhande

(All round Administrative Work)

Mr. Vishal Saroj

(All round Administrative Work &

Organizing online tests)

Mr. Manish Pardasani

(Organizing online tests)

EDITORIAL

VIRTUES AND VICES

It was eight O' clock in the morning. The doorbell rang. Dr. Anita Suri, rushed to open the door, coffee mug in her hand. Morning bell is music to ears when the housemaid is being expected. "What happened, Savitabai?" she asked sympathetically on seeing her bruised face and swollen eyes. "Nothing madam. I slipped on the muddy road yesterday while going back home." she replied, trying to hide her emotions and put a brave face on. Dr. Anita sensed something was wrong and silently gave her medicine. Savita had been working as a housemaid for the Suri family for last ten years. Dr. Anita was a gynecologist and her husband was a cardiologist. The couple trusted her to take care of the household chores in their absence. They treated her kindly. A self-respecting lady, Savita would only talk about her twin sons and hardly mentioned her violent, drunkard husband.

Savita lived in a shanty hut with her husband Sitaram and her two sons – Luv and Kush. Few years back, Sitaram was working as a watchman in a gated community, but he was highly irregular and his services were terminated. Sometimes, he would bring heaps of scrap from outside for sorting. One evening after returning from work, Savita found the scrap lying on the floor. "When will you finish the sorting?", she asked him. Without cleaning, they could not go to sleep. Sitaram did not respond and continued drinking. Tired after the day's work, Savita asked him politely to clear the scrap, so that she could mop the floor for everybody to sleep. Inebriated, he started shouting and hurling abuses at her. Silently, she and her two sons dumped everything in a bag, cleaned the floor and retired for the day. Incidents like this occurred frequently in the house.

Sitaram had no value for his wife. He never bothered to help her but was adept in passing demeaning comments. The twins grew up amidst all the domestic violence. Every day in the morning, Luv would fetch milk for tea and other groceries for the day .Every morning, Savita had to wake up Kush. "Kush, get up. There is already a long queue at the water pump." Kush would pull the soiled blanket over his face, "One minute, Maa." Reluctantly and yawning, half-awake Kush would fetch water which was used for cooking and cleaning utensils. Savita cooked for the family and rushed to work, hoping for a peaceful atmosphere to welcome her on her return.

Luv and Kush were twins with different personalities. Luv was silent, observant, obedient and sympathetic towards his mother. Kush was notorious, rowdy and indifferent to his mother's sufferings. Luv had a passion for learning, excelled in academics and was a consistent topper in his school. As he could not study peacefully in his own home, he found solace in the nearby ISKON temple. It was a second home to him. Swamiji and other staff members fondly called him, "Chotu". He would run errands for Swamiji. He rendered help to the staff in various activities like cleaning the floor, moving benches from one hall to another, managing the crowd. He found comfort and inspiration in Swamiji's talks. Meditation sharpened his mind and promoted his emotional health. It improved his self-image and concentration.

Savita was always worried about Kush. He became very friendly with a boy from a local gang. He started absconding from school and hang out on streets with him and his friends. They wandered aimlessly, cracked jokes, imitated movie dialogues and sang songs. Slowly, even more notorious boys joined the group and the group grew in number. Constantly being rebuked at home and being compared to his twin brother, he gravitated towards such friends who did not hold him accountable for his behavior He did what other members were doing -shoplifting, defacing property, using drugs and drinking. He even got arrested a couple of times. He was a constant source of worry to his mother.

One Sunday afternoon, while giving her mistress a head massage, she asked, "Madam, You are a gynecologist. Please tell me how is it possible that my sons, who share the same birth charts have such different personalities?" Dr. Anita replied, "Apart from genes, the environment also plays a significant role in shaping the personality of the child. In a family, children are always competing for the parent's love, attention and time. Luv excels in academics and both of you are proud of him. Kush is consciously or unconsciously trying to develop his expertise-socializing. Due to ill-luck, he has bad company.

She continued, "The violent and turbulent atmosphere at home has different impact on different children. Luv has sought refuge in Swamiji and imbibed all virtues. Kush drifted away and developed all the vices. The group gives him a sense of belonging which was not there for him at home. All children need to be nurtured with love, affection, care and understanding so that they grow up as responsible adults. Kush is a sensitive soul. He craves for your appreciation and recognition. Savita started sobbing, "What can I do, Madam? My husband only fights the whole day."

Tenth standard results were declared. Luv secured 95% and was a topper in his school. Dr. Anita helped Luv in securing admission in a reputed college. Due to financial constraints, Luv opted for Arts instead of engineering and science. He aimed to crack the Civil Services Examination one day. The other students in his class were from wealthier families and some of them used to make fun of his slum background. He said to himself, "This is a temporary phase. This too shall pass." He remembered Swamiji's advice, "Your thoughts play a very important role in shaping your future." So, he only dreamt of the day he would become an IAS officer, spent hours in the college library and paid no heed to the nuisance makers. Meanwhile, his father's health deteriorated due to alcoholism and he passed away. Savita was now even more obsessed with Kush's future. She would keep asking Luv, "Kush is never at home. Why don't you ask him to mend his ways?"

Persistent questions about Kush sometimes irritated Luv. He would reflect, "Why she never enquires about me after coming home? It is always about Kush." In a family, parents usually tend to worry more about children who are weak in studies or are facing other issues in their lives .Other children sometimes start feeling neglected. Savita loved both her sons dearly but she was more concerned about Kush and his future. She had full faith in Luv that he will be successful in life. But, the child in Luv craved for his mother's concern. He shared his feelings with Swamiji. He told him to take pride in the fact that he was not the source of worry to his mother. Otherwise, his mother would have been burdened with the uncertain future of her two sons. He chided him not to let such thoughts poison his mind and focus on his studies.

Finally, Luv cleared the Civil services examination with flying colors. He had a rank of 21. Overnight, he became a celebrity. He was chased by media. He was felicitated by his school and college. His mother's joys knew no bounds. He thanked God for answering her prayers. Luv was posted in one of the districts as a Sub division Magistrate. They all happily lived together in his official accommodation which was a huge bungalow with household help such as cooks, gardeners and a driver. For Savita, all this was nothing less than a fairytale come true. She was grateful to the Almighty. Her son was reaping the rewards of his hard work.

Savita was also happy that Kush was away from bad company. He spent the entire day watching television, strolling in the garden and sleeping. Whether Kush was proud or envious of him, Luv could never understood. Luv wanted to engage Kush in some activity. One day, while buying notebooks for his personal use, he had an epiphany. He went home and talked to his mother, "Kush is just whiling away his time. We can open a stationery shop for him and you can assist him." When the family sat down for dinner, Luv asked Kush if he would like to be the owner of a stationary shop. Kush happily agreed and Savita blessed both her sons.

On the auspicious day of Gudipadwa, "Kush stationery" was inaugurated. After giving instructions to the servants for the day, Savita had ample amount of time to help Kush. Apart from stationery, the shop had inspirational books like 'Amar Chitra Katha', 'Panchtantra', 'Mahabharat', 'Ramayana', etc. When the customers were not there, Kush started reading these books. This enriched his mind with moral values. He realized his follies. He had not chosen good company. He tried to unlearn everything he had absorbed till then and imbibed good moral values.

Savita was very happy with this transformation. She would proudly tell everybody, "I am a proud mother of two virtuous twins with the same birth chart."

By:
Prof.Anuradha Rao

ज़िंदगी

ज़िंदगी एक ख़्वाब है
उम्मीद बनाए रखो
हौसलों को बुलंद करो
उलझनों को दफ़ा करो

ये जो एक पल है
बस यही तुम्हारा है
दुजे पल का तो
कोई भरोसा नहीं है

तोड़ दो सारे बंधन
छोड़ दो वो सारे तनाव
जी लो इस पल को
फिर मिले ना मिले

वक़्त कभी रुकता नहीं
आसमाँ कभी झुकता नहीं
यूं ना तुम सोचा करो
जी भरके ज़िया करो

अकेले तुम आयें थे
अकेले ही जाना है
जी लो ज़रा ख़ुद के लिए
सब से क्या लेना है

गुज़रा वक़्त ना फिर आता है
कल किसने देखा है
समझो मेरा इशारा
ज़िंदगी ना मिले दोबारा

By:
Dr. Arti Deshpande

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अण्णा

"तुझं नांव काय ?" ह्या प्रश्नाचे उत्तर "गीता गणपत देसाई " असं पूर्ण नांव सांगुन देणे हे मी बयाच्या कितव्या वर्षी सुरू केले ते आठवत नाही पण, अगदी लग्न होईपर्यंत मी माझं नांव पूर्णपणे सांगायचे . आज मला माझ्या ह्या कृतीतच माझ्या अण्णांशी जुळलेली "नाळ" दिसून येते.

पूर्ण डबडबलेल्या डोळ्यांनी , थरथरणाऱ्या हातांनी हे लिहितांना अण्णांच्या असंख्य आठवणींनी ऊर भरून आले आहे.

शिवाजी महाराजांननंतर मला भावलेले "धाडसी" व्यक्तिमत्व म्हणजे माझे अण्णा. कोल्हापूरच्या एका अगदी छोट्या गावात "मद्रूर" मध्ये जन्मलेले अण्णा खूप स्वप्ने पेऊन मुंबईत आले. एका ब्राह्मण मुलीच्या प्रेमात पडून तिच्याशी लग्न केले ...ते ही पळून जाऊन.

"Jack of All , Master of None" ह्या म्हणीला तडा देत नवीन म्हण "Jack of All , Master of All" अशी नवीन पंक्ती लागू होईल असे माझे अण्णा.

खूप म्हणजे खूप कलागुणांनी समृद्ध असं व्यक्तिमत्व. त्यांचे अक्षर छान , वळणदार होते. ते एक छान चित्रकार होते. स्वच्छतेचे भोक्ते होते. Sports च्या जोरावर त्यांना एका प्रतिष्ठित कंपनीत खूप चांगल्या पगाराची नोकरी मिळाली. लांब उडी , उंच उडी, Carrom, Running, Relay, क्रिकेट , टेबल टेनिस ... सगळ्या खेळांत प्राविण्य !! आमच्या शोकेस मध्ये कधीच खेळणी , शोपिस नव्हते , पूर्ण दोन कप्पे भरून अण्णांची बक्षिसे होती. एक अख्खा Album अण्णांच्या Sports Events च्या फोटोंनी भरलेला आहे. The Album is a collection of Live Captures of all the Sports Activities , along with Prize Distribution Memories. ते खूप खूप धाडसी होते. उत्तम वक्ता होते. Communication Skill was his Forte.त्यांना Dance करायला आवडायचं, एखाद्याची हुबेहूब नक्कल करायला जमायचे. Basically, he loved to Celebrate Life.

आईमुळे आमची खूप छान जडणघडण झाली ह्यात वादच नाही. खूप कठीण परिस्थितीतून आईने आम्हाला वाढवलं. पण, माझ्यात जे काही सुप्त कलागुण आहेत त्यांचं मोठे श्रेय माझ्या अण्णांचं आहे ह्याचा मला अभिमान आहे. देवाचे शतशः आभार की अशा आई-वडिलांच्या पोटी मी जन्माला आले.

"जे होतं ते चांगल्यासाठीच " असं आपण म्हणतो तर , १८ एप्रिल २०२१ रोजी माझे अण्णा Corona मुळे आम्हाला सोडून गेले, ह्यात काय चांगलं झालं ? शेवटच्या क्षणी आम्ही कोणीच त्यांना भेटू शकलो नाही , ह्यात काय चांगलं झालं ?

आता एकच मागणं आहे देवाकडे, त्यांना एक सुंदर आयुष्य , सुंदर जगणं बहाल कर. ते जिथे असतील तिथे त्यांना सुखात ठेव !!

एखाद्या राजासारखे जगले माझे अण्णा !!

KING never dies.... He was a KING ...He should live like a KING ...Always ....WHEREVER !!!

----गीता गणपत देसाई

(साक्षी सुर्वे)

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பெண்

பெண்ணே நீ வசந்த காலத்தின் வருடும் தென்றல்
பாலைவனத்தின் அனல் தணிக்கும் பழமுதிர்சோலை
அனைத்து சக்திகளும் தன்னில் அடக்கியவள்
அன்பிற்கு மட்டும் அடிபணியும் அழகியவள்
அடுப்பங்கரையில் அடங்கி போவது வாழ்க்கையல்ல
அன்பு மகளாய் ஆசை சகோதரியாய் காதல் துணையாய்
கருணை தாயாய் குடும்பத்தின் ஒளிவிளக்காய்
ஆளப்பிறந்த அரசி நீ வாழ மலர்ந்த ரோஜா நீ
ஆண்மைக்கு அடங்கி போக நீ அடிமையல்ல
விழித்தெழு வீரநடை போடு வெற்றி உன்வசம்

- Dr. Maniroja Edinburgh

[BE UNREASONABLE]

What are you doing at present even reasonable? Are you even being practical in life? This is the question every concerned parent asks especially Indian parents. They are always in fear of what society will think of you, most of them will always compare you with the achievements of some Sharma Ji's son.

I agree, it's important to use common sense.
Foolish risks can lead to difficult consequences.
But ...don't be scared of failure and disappointment.

Most people are very reasonable. They can be persuaded to do almost anything — even things that do not help them in the end.

If you're feeling really happy, walking around with a smile on your face, people want to know why. What's the reason? And if you don't have an answer, it is assumed that you are hiding some secrets.

If you're walking around with tears in your eyes, the demands for explanations are even more pronounced. When someone cries, especially in public, we figure there must be a really good reason.

There is a person 40 years older than you right now that really hopes you make good decisions today. Trying alternative options doesn't mean you have to permanently adopt them. Of course, you don't have to switch to a Mac if you love Windows. It just means you will be more aware of what's out there, and might even reinforce that your initial choice is indeed the best one for you.

What message would you tell yourself in the future about how you feel in your deepest moments? What advice do you wish you would follow in the future? The answer is to 'Be Unreasonable.'

"If change is forced upon you, you must resist the temptation to overreact or feel sorry for yourself."
— Robert Greene

Being unreasonable does not mean:
That you have an excuse to hurt people, be mean, or disrespect anyone.
That anyone's else goals are less important.

Being unreasonable means that you do not compromise on what is important to you. Being unreasonable means that when someone tries to take time away from your personal goals, dreams, and vision, you stop them. It means that even if people do not believe in the highest form of yourself, you do. And you do not compromise what the best you look like.

Either you will rise or get bogged down. There is nothing, and I repeat, there is nothing that you will lose. Always remember,
"Don't limit your challenges, challenge your limits."

Udit Kumar Jain

[RESURRECTION]

I am tainted,
ruined.
My soul is tired,
feathers of gold and scarlet
all burnt to dust.

The flames
rise up inside of me,
an inferno of words,
screaming,
fighting,
eating a hole in my chest.

A hurricane choking my throat;
voices echoing in my head,
needles in my brain.
Bound to the ground,
with no wings to fly.
Bound to silence,
no strength to cry.

But like a phoenix
I will rise again,
roar like a dragon
for no cage can restrain.
I cannot be rooted.
I am like the sun
forever chasing the moon.

So I will survive,
for the fire inside
burns brighter than the outside.
From the smouldering ashes,
I rise anew every dawn.
I am born again,
with a new pair of wings,
bathed in crimson and light,
powerful
exultant
majestic
through all the pain
I am celestial bronze.

Noynica Ahuja

[IT'LL BE ALRIGHT]

I breathe a different air today,
it just feels fresher,
soothes my soul
somehow, makes me feel whole

The chaotic streets
have the same cars gushing
have the same people walk
and I yet could feel the path free,
things just started paving the way
clouds that crumbled the sky,
today let by a ray

I don't know if the world has changed or it's just me
the soul that seemed trapped yesterday
just somehow feels free
to follow all wills
and open the doors once closed,
no more locks
just living the way this heart talks

It's been a while since I said this
but I feel happy
blessed
walked from a time where I was messed

I know it'll be good
I can sense it
toast to a better year ahead,
I commence it

 Sparsh Nagpal

|आशा|

दो वक़्त की रोटी नहीं।
बस दो रोटी की आशा हैं।।
आँखों से गिरती बूंदे।
हमारी उमीदों की निराशा हैं।।

आँखे जो हमारी नम थी।
हिम्मत हमारी ना कम थी।।

अब जो आँसू सुख गये है।
वक़्त हमारा रुक गया हैं।
साँसे बस चल रही है।।

हमारा आज बस कल बन रहा है।
बिना आवाज के।
दिल टूट रहा है।।

Apeksha Gurav

[TREES AND SEASONS!]

Aren't our lives like huge trees?
And the phases of our lives seasons?
The stronger our roots, the stronger we grow,
The more grounded we stay, the more we flourish,
Better the soil and environment, better the fruits we yield,
We witness different seasons too.
We have our own summer when we ourselves are in trouble yet
don't fail to provide shade to others,
We have our own winter, where we stand tall and good and add to
the beauty of everything and everyone around us,
We witness our own kind of autumn, spring and rains
Where we have to leave our own people,
shed our fears, blossom our strengths, love our flaws
and grow back full of life and kindness
to stand there tall, strong, beautiful in our own unique ways
Aren't our lives like trees?
Each one so important, so unique and with such an incredible
journey!!!

Purnima Chabria

[COURAGE]

Who is courageous?
The soldier going into battle, saving lives
Depicting valor and all that might.
Or the hopeful Children and despairing wives
Not knowing whether the warrior will return the next night

Who is brave?
The skinny man from Brooklyn, who jumped on a grenade,
Or the superhero who went under ice to save millions, unafraid.
The man who turned rouge for what he felt is right,
The worthy soldier who fought alone the mad-titans might.

Who is fearless?
The sailor who weathered the storms of the violent seas,
The hiker who brought down the snowy whites to their knees.
The man who left footprints on the moon
Looking to colonize other planets soon

Anyone can hold the helm when the sea is calm,
Courage is weathering the storm and carrying on.
It isn't about being the perfect leader,
Nor is it about giving up either

Making new friends is a courageous task
Following them is an easy ask
Neville longbottom taught us courage is standing for what is right
Even if it's against your friend's plight

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A heart as soft, a heart as kind
in the whole world you canst find
It take courage to seek help from a mate
In this world of jealousy and hate

Winning and losing is part of the game
Not knowing if you score or miss on the d-day
Earning immortal glory and eternal fame
Is only possible if you have the courage to play

Varun Bathija

[डायरी]

आज कल तो नहीं पर पहले लिखा करता था |
अपने दिन की हर छोटी बड़ी बात दिल के हर वोह जज़्बात उस
डायरी के पन्नो में छिपा दिया करता था |
अपने उस मासूम डर से की कोई उसे पढ़ ना ले,
इसलिए उसे हमेशा अपने साथ लिए चलता था |

पर पता नहीं क्यों मैंने काफी समय से डायरी लिखना छोड़ दिया,
शायद अब वो बचपन वाला मज़ा चला गया, या समय ही नहीं
मिला |

आज भी जब अपने बचपन वाले किस्सों को पड़ता हूँ
तो चेहरे पे मुस्कान आ जाती है,
की किस तरह अपनी हर बेतुकी ख्वाहिश पे उदास रहता था,
और किस तरह हर छोटी से छोटी चीज़ मुझे कितनी खुशी दे जाती
थी |

जैसे टीचर का मेरे किताब पे स्टार देना,
या माँ का वो छोटा सा खिलौना दिलाना,
या वो हर हफ्ते पॉकेट मनी के नाम पर कुछ चंद पैसे मिल जाना |

पता नहीं क्यों आज कल इन छोटी खुशियों को देख नहीं पाता हूँ
मैं पता नहीं आज कल डायरी क्यों लिख नहीं पाता हूँ।

Darshan Rander

[EMOTIONS AT ORGANIZATIONS]

Humans are emotional creatures. During the day, we experience a multitude of emotions. An emotion is a set of feelings or bodily expressions that arise from a near-instantaneous assessment of the importance of a current situation to the person. For instance, we experience fear in connection with appraisals of very high uncertainty, high external control, and unpleasantness.

Emotions in the workplace were ignored for many years. To answer why there is a need to study emotions in an organization, people make up organizations, and people can't help but have feelings about the slightest things that matter to them. An organization is a place where goal setting and professional identity often matter deeply, so emotions follow. Peers, supervisors, subordinates, and clients are all involved in the work environment. These relationships can go well or badly, and they are important to people because emotions are felt again. Various combinations of emotions and experiences may facilitate or reduce performance in relationships, creativity, productivity, and reliability.

To find out the connection between emotions, attitude, and behaviour at work, we take the help of Affect event theory. The theory argues that specific events on the job cause different people to feel different emotions and react differently. These emotions inspire actions that can benefit or impede others at work.

For example, imagine that a co-worker gets his teammate a sandwich for his morning breakfast. He may be pleased and surprised as a result of this fun if unexpected, encounter. If that co-worker is also his boss, he can be pleased. Positive emotions arising from job experience have been shown in studies to motivate us to do something we hadn't wanted to do before. For instance, he might volunteer to help that co-worker on a task he was not planning to work on before. His action would be an affect-driven behaviour.

About positive and negative emotions, research suggests that optimistic people tend to do better in the workplace. Positive people process information more quickly and effectively. If a person is in a negative mood, a fair amount of processing is going to that mood.

The regulation of feelings and expressions for organizational purposes is known as Emotional Labour. Emotional labour is exhibited at three levels: surface acting, deep acting, and genuine acting. Surface acting entails a person displaying physical signs, such as smiling, that represent the emotions that customers want to feel. Deep acting is a step above surface acting. Instead of feigning an emotion that a customer may like to see, this time an employee can consciously attempt to feel the emotion they are showing. Surface acting has been linked to higher stress levels and less positive emotions felt, whereas deep acting has been linked to less stress. Emotional labour is prevalent in service industries characterized by relatively low pay, which creates the added potentials for stress and feelings of being mistreated. Wearing one's "playing face" may have long-term consequences for people whose roles require them to be professional, friendly and optimistic, such as flight attendants, or stern and authoritarian, such as police officers. Taking breaks will help surface actors cope more effectively in this situation.

Emotions also play an essential role in the online world. Since e-mails and instant messages lack facial expressions, intonation, and body language — all of which help communicate emotions — they can be misunderstood. What are the best ways to express emotions through these mediums? If something is essential, and it is known that the emotional context will be an issue, then pick up the phone; do not just rely on e-mails. Moreover, even the phone may not be good enough. Sometimes, if it is vital, fly to where they are and meet them face-to-face to get the message across.

Emotional intelligence in the workplace is described as an ability that allows employees to handle emotions as useful data while navigating a situation. For example, let us say a sales manager comes up with a fantastic idea to increase corporate revenues by up to 200%, but he is aware that his boss is irritable in the morning. Since the manager has emotional intelligence, he can first understand and accept this emotional reality about his boss. Despite the incredible nature of his idea — and his excitement — he can control his emotions, temper his enthusiasm, and approach his manager in the afternoon.

Ubiquity Retirement + Savings is one of the organizations that study the emotions of their employees. Employees at Ubiquity Retirement + Savings click a button in the lobby each day before leaving work. They can pick from five buttons: a smiley face if they had a good day at work, a frowny face if they had a bad day, and so on. Ubiquity uses the information it gathers to discover what motivates employees—what helps them feel a sense of belonging and enthusiasm at work. Other organizations are also soon considering studying their employees' emotions to ensure an efficient environment.

Amol Sawant

[FATHER]

A father teaches you
To battle your own wars,
He lets you get wounded
And teaches you to heal your own scars.
He prepares you for the world,
He prepares you to face every tomorrow,
Be grounded is what he preaches,
And he gives the spirit to tackle sorrow.
No matter how much you grow up,
No matter how big you seem,
He will always be there to look after you,
Because you will always be the little kid for him.

Shambhvi Rangnekar

[LIFE IS BLACK & WHITE, IT ALL STARTS IN WHITE AND ENDS IN BLACK]

Life is a journey,
I don't know my purpose. I don't know my fate.
I'm like a traveller on this journey which is full of obstacles,
That gives me experiences,
To fight my battles and never be beaten.

Life is a journey,
With both positive and negative.
It teaches to laugh and cry often and much,
It teaches to stay strong and move forward,
To fulfil my dreams.
Once this is found, I will understand, I will triumph, I will flourish.

Life is a journey,
A beautiful one, to be sighted.
And like every journey,
This also has a start and an end.
Life is black and white, it all starts in white and ends in black!

Pallavi Vaswani

[MIRRORS WITHIN US]

Is there something as contagious as a virus? Yes, the unrecognized flow of emotions. It may not affect us physically, but is a part of our mental health. Humans are emotional parasites, we try to put ourselves in someone else's shoes. Emotions can be positive or negative. We have the innate ability to connect, sense and feel. When you walk into a room with a big smile, others smile back too. We unconsciously or consciously tend to mimic movements, gestures and vocalizations.

Mirror Neurons help in synchronizing our emotions with the emotions of those around us.

You recognize someone's emotion and try to mimic it, as simple as copying a facial expression. Slowly you begin to experience it yourself and then it becomes a part of your emotion. You empathize to an extent that you express it the same way others do. Even online social networks contribute to massive-scale contagion. Sometimes this may lead to anxiety and depression.

So do you need a vaccine for this Emotional contagion? Here it is, "be aware." Label your own emotions. Question yourself and analyze. The emotions that you feel, is it really what you feel? Or have you caught it from another person? We generally have two options, either to push our emotions away or acknowledge them. Be it a positive or negative emotion, it can be acknowledged and built in a way you want it to be. In such hard times, you cannot actually prevent emotional contagion, but you can be aware and prevent it from bringing you down. All you need to do is train your mind to be stronger than your emotions.

Ishita Tarnekar

[PAND(EMIC)ORA]

Ironically, for us, they released assignments, 6+hrs of online meetings and a ton of anxiety. When days used to seem like moments of eternal happiness, they now feel plagued with the menace of exams and deadlines, death of our hobbies and culinary skills of Dalgona coffees and pastries. The sudden turnaround was too much to bear, as each problem now, seemed like a Herculean task to solve. Netflix and other streaming websites became our modern-day Medusa, we all just turned into stone, watching and binging for hours. Our necks did hurt, but it's better than being cut off by Perseus right?

What seemed like a dreamy 6 months holiday, turned as tragic as most heroes in Greek stories. It seems as though some deity decided to punish puny polluting humans, by giving them a virus that seems almost impossible to eradicate. Just as Zeus tried to punish humans by gifting earth Pandora, a woman 'made' by Hephaestus and all the Greek Gods and not naturally born. Like the strain of virus that unleashed its wrath on us? Humans now, you may ask? Well, their curiosity for development occurred by rising above other beings and putting their own selfish interests first. Though I must add here, while not all humans are extremely twisted, the majority of those who believe in growth at the cost of others, is the reason, for how curiosity just didn't kill the cat, but in fact, almost killed us all. Sometimes it feels like our lives are metaphoric to the story of Orpheus and Eurydice. Our once beautiful, yet dead lives, are parallel to Eurydice in the Underworld. Yet, our attempts to revive it are as foolish as Orpheus.

Looking back at those fun-filled, non-mask days brought us nothing but agony and a heart-clenching longing. Like Demeter without Persephone, we all succumb to misery, plaguing our minds with dark thoughts and sadness. Our homes have now turned into labyrinths, where we seem to forget where we are going, just to end up in the same place again. Would it be wrong to compare our boredom to the Minotaur that we are desperately trying to end? Maybe our little runs to the grocery stores and those occasional meetups are symbolic of the little yarn that gets us out of our monotonous labyrinth.

I mustn't anger the deities, lest their anger befalls me too. Therefore, I will try my best to augment them with blessings we've had during the lockdown. Athena blessed us with Coursera and Udemy, online educational platforms that have helped us maintain our mental development and significantly improved our knowledge. Poseidon helped us fight these murky waters by helping us realize our goals and 'sea' more clearly. Thank Aphrodite for Tinder and Bumble. My deepest respect for Artemis and her help for job-hunting on LinkedIn. Apollo has also blessed us with Spotify, deep healing music for all the moods. The fighting spirit of Ares has helped us battle depression. Hermes has blessed us with online delivery platforms like Amazon that delivers everything at any time of the day. I am sure all the introverts must be praising Hades because he has allowed them to be invisible at the comfort of their homes. Our praises to Hera, for allowing people to meet their soulmates and getting them married whilst protecting them amidst these tough times. Finally Zeus (don't worry, we won't steal your thunder), for helping us bring back law and order in our chaotic lives.

Kashish Dungar

[SEASIDE]

Not many months ago, I was sitting at the seaside watching the sunset. It was one of those marmalade skies, a humid weather that'd go perfectly with a country song. The winds were blowing my hair, swiftly caressing my face, pleading me to shift to a new perspective. At 5 p.m. that Friday, I was full of energy but mentally exhausted.

I wish I had come alone. I just wanted some peace, and so did my friend. She was staring into the horizon, which she later told me was only capable of being defined by our eyes. Taking a sip of water from her bottle, I slipped beside her – which I think was a subtle reason for excusing myself from my noisy classmates. We had never spoken before, but there was comfort in the silence. "Isn't it weird.." she finally said, "people with major differences in opinion and personality, visiting the sea shore for one sole purpose – tranquility."

I kept staring at the sea for a long time. An aggression so beautiful, it induces calmness. Water is one of the few things on earth with this property. When at age 6, my parents said I was supposed to drink 4 liters of water everyday, I asked them why. The best answer they could come up with was that because it would be good for my health. I believe water is the greatest element there will ever be. If it weren't as easily available, we'd respect it.

Looking at that vastness and emptiness makes you think and reflect on life and mostly in a positive sense (or it depends). So, I sat there thinking for a long time about almost everything, my relationships with people, my way of looking at life and things that needed work.

I will look at life with a different lens. I would never leave or abandon my passion(s) and would certainly improve my perspective towards life. I would stop letting my past affect my present. I will find my balance and I will do things my way. To preserve the memory, I'd close my eyes and try to remember the waves hitting the rocks, vast blue sky and obviously the water.

Today, I'm not the person I was that Friday evening, but I think I need to visit the sea again...

Meet Merchant

[STRONG CONVICTIONS PRECEDE GREAT ACTIONS]

He who believes is strong, he who doubts is weak, strong convictions precede great actions

Have you ever pondered about what the legendary entrepreneurs, renowned industrialists and universally acknowledged environmentalists and social workers have in common? The secret to their success is faith, believing in themselves, their capabilities, and the universe. Despite the number of times they fell down or were pushed down. Instead of wallowing in their miseries, they pulled themselves up and continued to grind. For instance, the founder of "Apple", Steve Jobs, was fired by his own company in 1985. He did stake his claim as the CEO of the company, after launching the famous Pixar animation studios, I am sure you all are well aware of this animation studio, hello Toy Story...

Moving on, Andrew Carnegie, an industrialist and business magnate, rightfully said, "People who are unable to motivate themselves must be content with mediocrity, no matter how impressive their talents are." This holds true not just in the world of entrepreneurship but across all career fields. And as the Indian entrepreneur, Kiran Mazumdar Shaw always says, failure is temporary. Giving up is permanent. The influential social workers like Medha Patkar and environmentalists like Vandana Shiva won't be where they are right now if they didn't believe in themselves or the universe to send the abundance. They still would be doubting themselves and stuck on their unfinished projects and unfulfilled promises.

And why not start from the roots, from this very basic stage? As students, why don't we imbibe these lessons for lives which will surely help us in the near future, which will prevent us from spiralling down into low self-confidence and depression? Believe in yourself. Thoughts are powerful. Thoughts lead to action. Actions over time become habits. Habits lead to long-lasting results. Despite the failures and mistakes, we will make, and although we may be "average" we find that the average can achieve greatness, whether recognized by the world or just a few. Just imagine the strong convictions of an "average chaiwala" that lead him to become the present and extremely powerful Prime Minister of India and hence execute great actions. The strongest factor for success is self-esteem. Believing you can do it, believing you deserve it and believing you'll get it. And then you'll realise how pumped up you'll be and how eager you'll be to execute your ideas into remarkable achievements.

Mahek Sota

[THANK YOU COVID]

Dear Covid,

I'm hoping you find this letter in the pink of health. People in India call you the magic of the

mystic witches or a vicious attack of a serpent. But lucky you, I have my theory. I feel your

source is because of a Wuhan foodie who was craving for a bat. However, while your inbox will

be flooded by hate emails, I'm here to thank you for changing my life. People still talk about when you first started, and everyone falls in awe of seeing how you have grown today. Everywhere I go, I see your name. Your progress has been off the charts, and your dedication to breaking records is tremendous. Coming to your impact on my life, I am blessed with unforgettable lessons. Firstly, the fear you created brought my loved ones close. My family, neighbours, and friends, whom I could not hear from because of a hectic schedule, all connected back with me. I felt compassion, love and relived the memories of them. With protocols, we connected through video calls, and I've seen them closer than ever before. You might have taken away our beloved cricket and football, but you returned our snakes and ladders, ludo, and the classic antakshari.

The friends who once used to show up in restaurants just for free food now are dancing for me on my birthday without spending a nickel. The dishes that I once saw on the Master Chef show are now coming out of my kitchen, and the taste is unforgettable. Colleges were closed, technology brought teachers home, and lectures online. I cannot thank you enough for making me see a world that once existed in my dreams.

Thank you for making everyone wear masks. These masks were very effective in letting go of

our ego as it was a partial confrontation. I forgave everyone and asked for forgiveness, and valued peace more than anything. It must have been years that I ever enjoyed a breeze of wind on my rooftop under a sky filled with stars. I might have but didn't have time to notice. Your incredible power changed 'Mumbai: A city that never sleeps, to rest, for a little while. We needed that, and only you could understand the need for it.

Thank you for such tremendous lessons. You've gifted me something that no man can, the gift of time. The time to rebuild, learn more about things around me, and experience the blessing I was living in. A piece of friendly advice, with great power, comes great responsibility, and I think your time to shine is fading. Don't worry; we shall learn from your teachings, improve and

recover. Your existence has been embraced on our souls, and your name will be heard for

generations to come. Thank you, Covid.

With love,
Manav.

Manav Bahl

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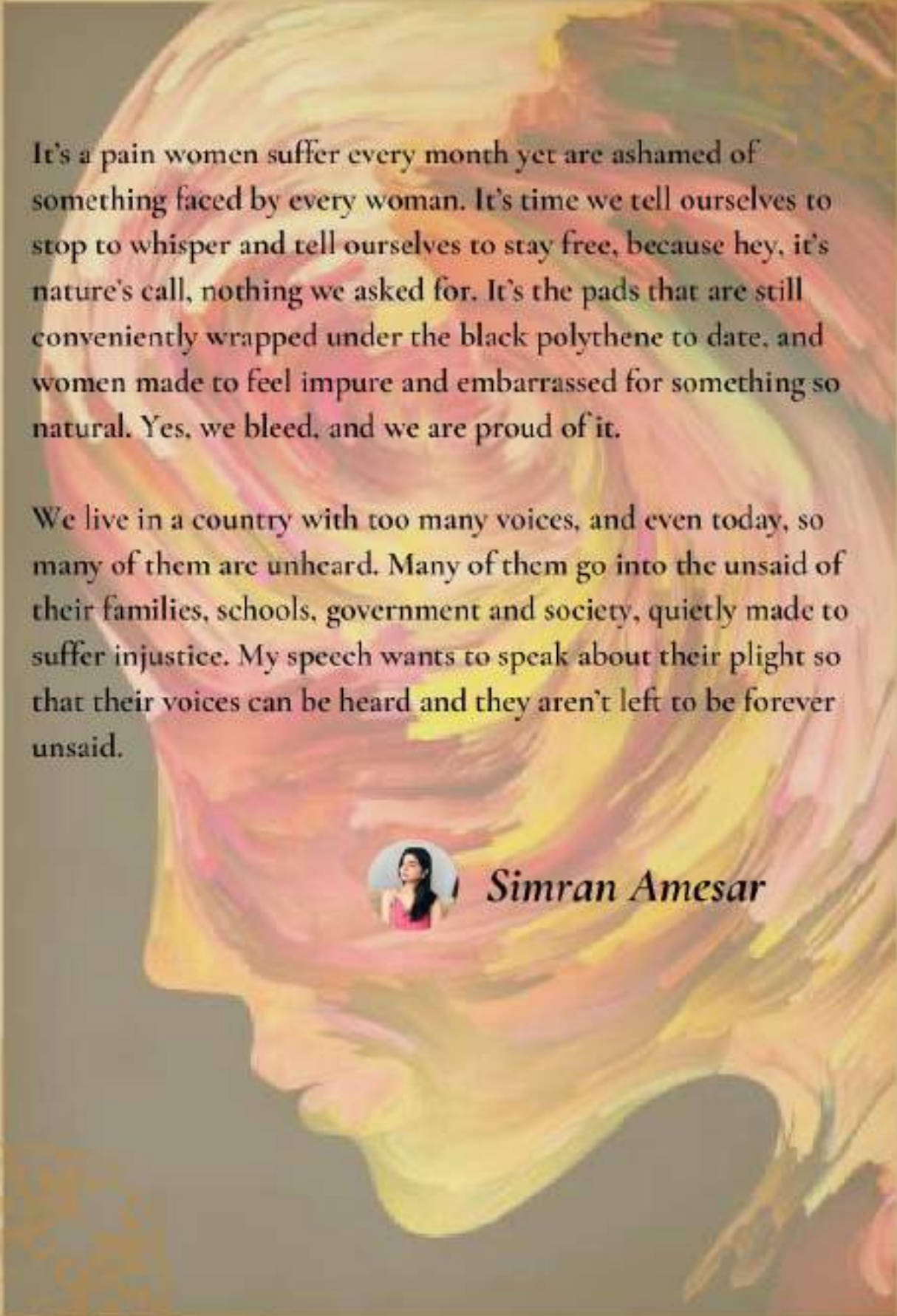
[THE SAID AND THE UNSAID]

Some of us will look foolish when we say we are depressed, guys will be asked to man up and women will be labelled as drama queens; as a country, we talk about a lot of things, but we can't even mumble about mental health, that's the unsaid of our generation and those before us. My words here are dedicated to the unsaid.

So, here's to those who belong to the LGBTQ community while trying to show in so many colours their pride and love. Trying to speak up about their identity and gain a place in a country whose own people don't even believe they exist. So many colours and kinds of love, yet forlorn, we have forgotten what it is like to treat others like humans even if they belong to the unsaid.

Speaking of the pain, it's a pain of all those women who are afraid to speak up in the attempts to save their family's dignity, but is it worth the torture?
For people have made the suffering sufferable, but to speak up and voice the pain is disgraceful?

It's a pain women suffer every month yet are ashamed of something faced by every woman. It's time we tell ourselves to stop to whisper and tell ourselves to stay free, because hey, it's nature's call, nothing we asked for. It's the pads that are still conveniently wrapped under the black polythene to date, and women made to feel impure and embarrassed for something so natural. Yes, we bleed, and we are proud of it.

We live in a country with too many voices, and even today, so many of them are unheard. Many of them go into the unsaid of their families, schools, government and society, quietly made to suffer injustice. My speech wants to speak about their plight so that their voices can be heard and they aren't left to be forever unsaid.

Simran Amesar

[VISION]

Gerald lay on his bed, looking out the window right next to him. He could see the bustling streets down below. The people were celebrating the midsummer festival, all the shops were brightly lit and the most crowded were the confectionaries. He could see a little boy, around six or seven years old, pulling on his father's sleeve and pointing towards a seven-coloured candy floss. As Gerald looked at the shop selling the candy floss, he was awestruck by how smoothly the shopkeeper was making the candy floss. At some point, as he continued looking at the process, his eyesight went blank due to the reflection of a lantern on the shop's window.

Looking around himself, he could see the world was completely white. He looked down trying to make out his own features, but all he could see were outlines of his arms and the rest of his body. He tried speaking, but no voice could be heard.

"Where am I?"

"What is this place?"

"Am I unconscious?"

And similar dozen questions surfaced in his mind.

After who knows how long, the entire world around him went black.

"What just happened!" exclaimed Gerald.

His eyes were taking time to adapt to this new black, just like when a person enters a dark room after a long time in the sun. It took some time but suddenly the world became white again. This change happened again and again, and each change took less time than the previous one.

After a lot of time, the changes were so fast that his brain couldn't keep up, if someone diagnosed with photosensitive epilepsy saw this scene, they would surely have a seizure. A long time later, he could feel himself getting access to information he never knew of before. He could understand all the laws of the universe down to the tiniest particle interactions. As he continued absorbing the never-ending information, unbeknownst to him, his body was undergoing tremendous changes. The previously invisible body was gradually becoming visible. It went from an outline to a gradient and then finally a solid humanoid body.

It slowly opened its eyes.

"What am I? Surely, I can't be called a human."

"What is this world?"

Looking around it saw a spot that was neither black nor white, but the spot was also both at the same time. It walked towards the spot as would a moth towards a flame. It felt a terrifyingly strong suctional force from the spot, as he neared, the spot turned into a whirlpool and sucked him in.

"Congratulations on passing the test." Exiting the cryo-pod, Gerald surveyed its surroundings. The entire place was dilapidated and there was not much lighting. Over there, near the window, a journal was kept, titled "The seed." After picking up the journal, it looked outside. What it saw was a planet that was split in two from the middle. The only things keeping the planet alive were the occasional thunders and the scorching fires.

Shreyans Jain

|सपनों की असली उड़ान बाकी है|

सपने पूरे होने से पहले अभी कुछ ख्वाब बाकी है।
ज़िंदगी के सफ़र में अभी, एक नई राह बाकी है।।
अभी से क्यों हार मान रहा है मेरे दोस्त?
अभी तो सपनों की उड़ान बाकी है।।

इन नई राहों के असली पत्थरों से टकराना अभी बाकी है।
कुछ अनजाने लोगों से मुलाकात करना अभी बाकी।।
है तो ये ज़िंदगी भी एक आईना ही,
खुद से खुद की असली पहचान करना अभी बाकी है।।

इन अकेली सुनी रातों में, जागना अभी बाकी है।
उस मांझी की तरह नौका चलाना अभी बाकी है।।
इस सुनहरी रात में समुद्र में लहरे तो बहुत उठेंगी,
गोते खाती इस नैया को पार लगाना अभी बाकी है ।।

इस काली रात के बाद, नई उम्मीदों सूरज का उदय होना अभी बाकी है।
इस नए दिन में नई कठिनाइयों का सामना करना अभी बाकी है।।
पहली उड़ान में तो पंछी भी सफल नहीं हुआ कभी।
तू तो फिर भी इंसान है,
तेरे सपनों की असली उड़ान अभी बाकी है।।

Udit Kumar Jain

[SAY YES TO GLOBALISATION]

Over the last few centuries, all cultures have been remoulding almost beyond recognition by a flood of global influences- sweeping off all the differences and boundaries among several countries. The development of globalisation has coexisted with the reaffirmation of different cultural, religious, gendered, ethnic, national and other specific identities. While most people argue that the increasing global proliferation and liberty are more of a threat to society, and would lead to the McDonaldization of our rich heritage (since the motor behind was assumed to be the infamous western wave); I believe it doesn't hurt cultural identity. Rather, it provides autonomy, acknowledgement and allows individual choice, undermining the evils of self-division.

The buzzword globalisation in simple terms is the increase in the free flow of trade, finances and merchandise, selling of thoughts and exchange of ideas and values across national borders. It is a natural, irreversible process, which is largely positive and teaches us to learn from the experiences of the countless branches of our humongous multifaceted human family; embracing each other and our uniqueness to generate freedom and acceptance for all.

In spreading globalisation, technology has played a critical role. Smart gadgets and global channels bring to the forefront issues that are contentious and require immediate attention, forming and shaping public opinion. The information explosion in the print and electronic media today encourages people to expose themselves to different lifestyles, new ideas and cultures and enables them to extract more data on the diverse cultures, thus making them more culturally knowledgeable. It's true, globalisation is responsible for bridging the gap between the various cultural and linguistic groups around the world. It commingles and unites us as a single genus and stimulates the resurgence of local culture.

A salient example would be the brewing revival of Sanskrit in the West. The oldest liturgical Hindu language, which is also the backbone of India's history, made a grand comeback a couple of years ago - with people rediscovering its merits, embracing their identities and wanting to learn more about their roots, culture and tradition.

Another example is the 'ethnic cuisine'. At a Mexican restaurant, you'd want to try out some amazing tangy sauces with your tacos; in an Irish and German eating house, you'd find the use of potatoes in almost every dish; highlight at any Italian joint is the diverse variety of pasta. Indians just cannot do bland like most Americans, so their food is loaded with hot chillies and other spices, and no one can defeat the Chinese in preparing a bowl of scrumptious noodles. We are exposed to many different cuisines today, and it is all courtesy of globalisation.

Interaction of the East with the American exports has created awareness among people, raising public conscience towards the evils that plague the society and fostering a more inclusive, non-judgmental, open-minded perspective. In our own country, homosexuality was decriminalised by striking down Section 377 of the Indian Penal Code that bereaves members of the LGBT communities of their constitutional right to lead a gratifying life, hence throwing away the entrenched one-dimensional gender stereotype.

There are definitely certain limitations, every coin has two sides after all. But globalisation is an inevitable ripple we just cannot stop from spreading. As a whole, it is positively needed by society and our country to grow economically, socially and culturally. We are no more Indians, Americans, Africans or Aussies today; the barriers have been shattered by globalisation. We're all global minds with global spirits!

Noynica Ahuja

[SILENCE]

Some words are better unsaid
Better unread
Hidden from reality
Gives life a normality
Because once they're out,
They can't be called back
They stay
Forever they lay
In heart and mind,
Where stories align
And recall every moment,
Of the past,
A spell it casts
I know it could lead to a good road too,
But it's the bad one I've been through,
Before,
I can't take it no more
So here I'll stay,
All quiet
making amends,
Till days and nights

Sparsh Nagpal

[LIFE AND DEATH]

Ever since March 14th 2020,
Not a single day has gone by without feeling a little empty,

It has been 14 months already, Life might seem to be moving,
But it still feels so steady.

Before the damage began,
Money, power, success is for what we ran ... After all the loss,
How we all started loving our lives with all the flaws!

In that time of sorrow,
Some lost money, some lost their family,   The only constant
was agony!
How those who pretended to not fear death sadly got a bitter
gift of regret. . .

Every day started with a ray of hope that life would get back to
normal and better,   only for it to become worse and the hopes
to get shattered...

625

When I look closely at the past 14 months,
I am lost in my thoughts that probably it was god's way to teach us
how all our lives, we have been fighting for all the wrong things
and traits!

He is making us realize that the competition, the race, the winner
is all so fake and only for name's sake!

He wants us to realize that how the jealousy, the hypocrisy, the
dominance we carried all our lives couldn't help us in our worst
times!
To recover and heal - kindness, love and compassion were the only
primes!

After seeing the end so close to us,
I wish now on, in the name of making success again we don't create
a fuss. Its high time we unclutter our minds and get all the hate
out of our heads.
Because now we have all witnessed how little is the time and gap
between "LIFE AND DEATH"!

Purnima Chabria

|अतित|

बंटवारे का डर नहीं।
बिछडने का दुख था।।
अपने हिस्से कि जमीन नहीं।
हिस्से की खुशी जाने का गम था।।

अपने ही तो लोग थे।
तो बहस किस बात की थी?
आजादी तो सिर्फ एक रात की थी।
तो दुश्मनी की क्या बात थी?

अब जो हो गया ,सो हो गया।
अब इसे हमे संवारना है।।
एक गोली का जवाब हमें।
अब सौ गोलियों से देना है।।

देखा है जो ख्वाब हमने।
देश को खुशाल बनाएंगे।।
बुराई के बीज अब हम।
जड़ से ही निकलायेंगे।।

इस मिट्टी की खुशबू में।
इसी में हम मिल जाएंगे।।
ना झुकेंगे, ना रुकेंगे।
बस आगे बढ़ते जाएंगे।।

गर्व से हम खुद को
हिन्दूस्तानी कहलाएंगे।।

Apeksha Gurav

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ARTWORK

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Mihika Gaonkar

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Ishneet Kaur

Sparsh Nagpal

Dhriti Gada

ENTERTAINMENT

THE REUNION

YE DUKH KAHE KHATAM
NAHI HOTA

CROSSWORD

Across
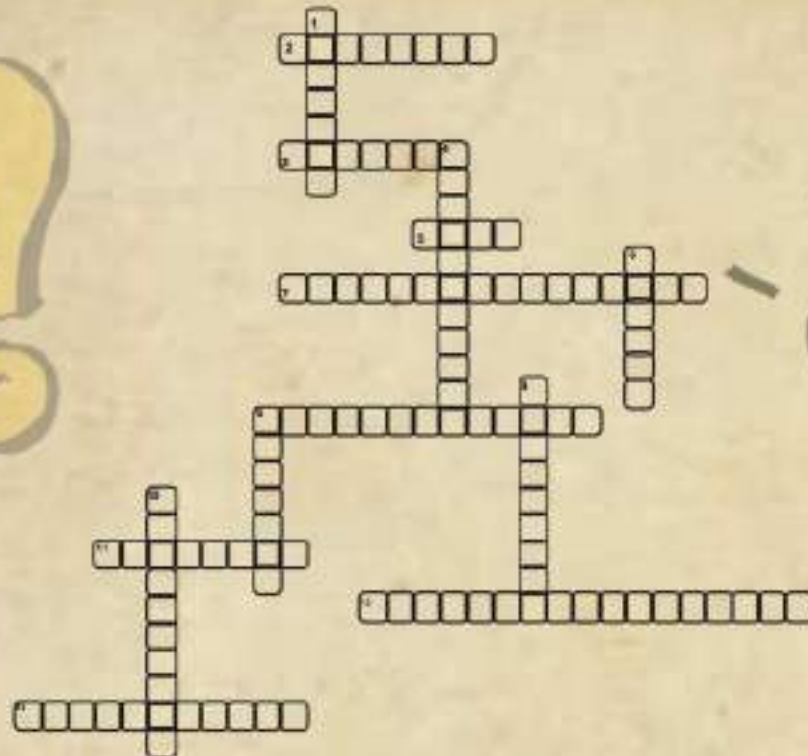
2. Agar yahan nahi khaya, toh kahan khaya!
3. Joh engineers 24/7 sabke ishaaron pe naachte hain, woh yahan actually naachte hain
5. You have to #WaitForIt
7. The Schezwan sauce here makes your stomach feel like John Wick's gun
9. TSEC's very own Koffee with Karan setup
11. Whether you are Bahubali or Hulk, here, Sir does most of your bulk
12. Suffocated Engineers find a breath of fresh air here
13. Empty your pocket money here

Down

1. Earns more than a degree student
4. You felt breathless here even before COVID
6. You might not find Iodex here, but you would definitely get an Index here
8. Home Shaanti Home
9. The rickshawalas think you belong here
10. 2 for 79

ANSWERS

1 Katana
2 Ravi Rice
3 Trifles
4 Seminar hall
5 Lift
6 Medico
7 National
canteen

8 Bandstand
9 Student Lounge
10 Burger king
11 Workshop
12 Patwardhan Uchyan
13 Jay Sandwich

WORD SEARCH

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L X T L U C G A E E M F M S E O P U Y R
I A T N K Y L V Q G R M A T I B Z S I B
Y Q G Q E Z L U P A S H S N V E L L A M
Y P H G L M Z C F K W A S E M G D A Y B
Q P U N A F E D Q C V R R M C F V Y F S
J O E N B Y E C B A X E E N F I Z W M C
K G B Y M A E M A P C V C G V Z B B W R
U B S G D U N Q R L I L R I A A P D O E
Z V V L Y P T X B D P M U S P D O T L E
D P I G K B N E E I K R I S P V A E F N
K N S Y A H Y O A B E E T A K L D R R S
E Z P C D P O E E T J V E Y U U M I E H
S M E S D N E A N Q M P R C J M Y S V A
R I J T Z E B I P W J S L J P L W O O R
S Y Z T A I O D R X X A P U O A B O K I
H F F R Q P H A Z O C C K F O M A D C N
U M E U S S I K R O W T E N I W W O A G
V J U X T U D C M F O J K C B R U R T G
I N T E R N S H I P S G C T F C Q M S U
Y O G U G Y I N C N L Q S B A Y S Q L T
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Assignments

MassRecruiter

Unmute

ATKT

NetworkIssue

Vella

Calculator

Package

VideoOn

Deadline

Placement

Viva

EndSems

Pointer

ScreenSharing

Internship

StackOverflow

LagGaye