

A word from The President



It is my pleasure yet again, to write a few words to usher in the TSEC annual magazine – ‘Synapse’ for the year 2016. the essential purpose of any college magazine is to inform, engage, inspire and entertain a motley crew of readers including students, faculty, staff, alumni and parents. Synapse not only manages all this with aplomb but manages to go a little beyond too.

With a rock solid scaffolding of original content, honest authorship, creative take on visual presentation, attention to minute details and balanced editorial, Synapse transcends the boundaries of a mere college magazine and attains the status of a work of art. This magazine 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 feel privileged to be a part of an academic culture that sets high standards for themselves and expects the same from others. I hope in the years to come TSEC students will continue to be committed to themselves first, then to college, to the country and finally to the world and face every challenge head-on, fearless and undaunted.

-Anil Harish
President

A word from The Faculty-in-Charge



It gives me immense pleasure to pen a few words as prologue to another issue of our in-house magazine 'SYNAPSE 2016' exclusively meant for churning out the latent writing talent which bears immense potentiality of sharpening the communication skill as part of the student's over all personality development. I congratulate all the contributors and the editorial board for bringing out such a beautiful magazine.

It is with humility and deep sense of obligation that I have accepted the responsibility entrusted to me by the Principal Dr.G.T.Thampi and Vice-principal Dr.Ashwini Kunte to take over as "faculty in charge" of this venerable magazine. I have tried my best to fulfill the responsibility to the best of my ability.

This is a time of great changes. In education too, we see fast changes. The student today is an individual with feelings of self-respect, sensitivity, responsibility and compassion. We need to recognize, appreciate, applaud and foster the fine blend of sensibilities in students - and thus this issue of SYNAPSE is to be viewed as a launch pad for the student's creative urges to blossom naturally. As the saying goes, mind like parachute works best when opened. This humble initiative is to set the budding minds free allowing them to roam free in the realm of imagination and experience to create a world of beauty in words.

It is often said "Give me a copy of your college magazine, I will tell you about the quality of your college." I strongly believe in this statement. For, a magazine carries the contributions reflecting ethos and aspirations of the students, faculty and other team members of an institution. They amply demonstrate the communication skills, poetic prowess and imagination, creativity, humour and humanism, technical competence, and patriotism of the contributors.

It is always a pleasure to be a part of a team which strives to bring out the talents of students and staff. I am happy to see the amount of enthusiasm of eminent members of the college to contribute to the magazine. Not to be outdone, our students have devoted time and plunged into creating powerful stories, heart-warming poems, vivid drawings and informative articles. I stand awed by the sheer number of articles that have come pouring in for the magazine. This shows the positive and creative energy of faculty members and students present in the college.

Last but not the least; I am thankful to all those students & faculty members who have helped create such a masterpiece.

-Sampada S. Pinge

A word from The Principal



Time and again it is established that academic excellence commands respect in the global market place. One of the greatest graduate attribute remains as ones eye for details and profound respect for ability to put anything and everything in the context. Developing competency which is in short supply in the market place, decides the compensation packages offered by enterprises around the world. Start building basic traits of intellectual and emotional integrity which are in short supply. Capacity to make one relevant to market place by relating academic content with business functionality shall lead to early success post graduation for the multitude. Understand and align with our beloved Prime Minister's discourse on nation building and wealth through building efficiencies in the processes making policies, decisions and conduct for humanity.

Increased awareness of Gini coefficient in addition to GDP shall help you to go long way in understanding the root cause of many of the societal turbulence and progress. It is the year of Olympics and all are expected to revisit the past ideals and reset ones material life from its motto.

The Olympic motto is *Citius—Altius—Fortius*, which is Latin for "faster, higher, stronger." The intended meaning is that one's focus should be on bettering one's achievements, rather than on coming in first. It is not all about competition; it is about realizing and unleashing dormant potentials to achieve greater societal good.

-Dr. G. T. Thampi

A word from The Magazine Team

It gives us immense pleasure in presenting to you TSEC'S annual collegiate magazine, Synapse 2016.

Just like how in science, Synapse means the junction between two neurons, which allows the passage of impulses, the magazine team strives to bridge the gap between the writers and the readers, and allow the confluence of ideas.

What we aimed to bring to you through this year's magazine was something out of the box. The cover (Human chain representing the word Synapse), a page dedicated to innovative and better than ever B.E Projects, and an inclusion of sketches, achieves that aim.

Putting this magazine together has been an exhilarating experience and it is something that we will cherish for a lifetime. The team comprised of a likeminded group of 21, in which each one was catapulted to deliver their best. Getting the design together and identifying the one that collectively matched all our scaling expectations, and sifting through multitudes of literary work (which were of high caliber, and having to select the very best) had us at our wits end.

As a reader, one can expect a balanced mix of articles and poems, which cater to students and teachers alike. The literary works spanned across a wide spectrum of thoughts. From the realm of artificial intelligence to living the twenties and loving them, from harnessing the power of oceans using chemical technology to touching up on sensitive issues, our magazine has it all.

We would like to thank Dr. G.T Thampi, for giving us the opportunity to put this magazine together. We would also like to acknowledge the efforts of Prof. Sampada Pinge (Staff Editor-in-Chief) who guided us all along the way and supported us in all our endeavors, Prof. Shilpa Verma (Dean of Student Affairs) for all her support, and last but not the least, the staff proof readers who gave us direction and guidance.

We sincerely hope that each one of you enjoys reading the magazine and experiences the same thrill we did while putting it together.

-Team Synapse

Team Synapse '16



Pranav Majgaonkar
Magazine Secretary



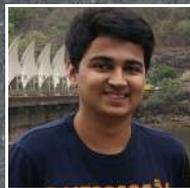
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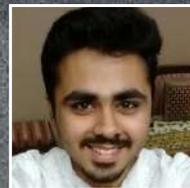
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INDEX

EDITORIALS... **1**

DEPARTMENT REPORTS... **3**

COMMITTEE REPORTS... **9**

LEADERSHIP MEET... **27**

PHOTOGRAPHY SECTION... **29**

SKETCHES... **36**





ENGLISH SECTION...**37**

LIVE THE TWENTIES, LOVE THE TWENTIES...37

THE BOMB TO END ALL WARS...39

YOUR SPARK IS YOUR LIGHT...41

WOUNDS HEAL, SCARS DON'T...42

IT'S PAYBACK TIME...43

THE WORLD OF ARTIFICIAL INTELLIGENCE...45

THE WATER PARADOX...47

HINDI SECTION...**49**

शिक्षा का सही अर्थ और बदलते संदर्भ...49

चिंता से खुशी तक...51

भ्रष्टाचार-एक भस्मासुर...53

MARATHI SECTION...**54**

मन माझे...54

काय मागू...?...55

विविध छटांची मुंबई...57

लडाख- एक निसर्गरम्य अदृशुत प्रवास...59

SINDHI SECTION...**61**

सिंध ऐ सिंधी...61

चेटीचंड...62

बारन जो डोह कोने...63

ENTREPRENAURIAL FOCUS...**64**

B.E. PROJECTS...**65**

PHOTOSHOOT SECTION...**67**



Word from the General Secretary

It gives me immense pleasure to write for our college magazine, Synapse. I would like to thank the Synapse team for giving me the opportunity to share my experience as the General Secretary of Thadomal Shahani Engineering College. To see the Synapse team grow year by year is something we all should be very proud of.

As a first year student of this college, I remember being inquisitive and allured by everything that revolved around the post of a General Secretary. I always wanted to give something back to our college within my means and that is precisely why I strived to be capable enough, so as to be designated with this honourable title.

As the General Secretary I primarily aimed at ensuring enthusiastic participation of students in cultural, sports, literary and technical fields, hence enabling TSEC to be recognized as a multifaceted hub, not only in the academic sector but also on the co-curriculum scale.

This distinguished post demanded constant interaction with committee heads along with the rest of the senior committee members whose commendable working style never failed to impress me. I was always inspired by how diligently the committees managed their responsibilities and the ease with which they handled pressurising situations. I have great respect and admiration for the junior committees, 'JComms' as we like to address them, for they truly are the real heroes who seldom get the well deserved credit, for ensuring the smooth functioning of events.

This year was indeed a successful one for TSEC. We witnessed a cluster of festivals and flagship events such as Carma which included TM-MUN, Rubix which included a captivating interactive session 'Rendezvous with Varun Agarwal', Well-A-Thon, Yudh, Oscillations, Ascent, Speaktacular, Chemergence, TantrAvishkar and Trifles. This ascertains that committees are indeed an integral part of college and the events and activities that are undertaken by them is what students look forward to all year round.

The highlight of 2016 and my tenure as the General Secretary of this college, is beyond doubt, the unveiling of TSEC's very own Technical Contingent that will represent and win laurels in various national level events.

My tenure would have been incomplete without the guidance of Dr. G. T. Thampi and the unparalleled efforts of Prof. Shilpa Varma along with the entire teachers committee. I would also like to thank all the students for their unceasing moral support.

I am sure that the coming generation of students will continue to carry the legacy of TSEC and our college will soon be in parallel comparisons with National Level Institutes.

-Chirag Wadhvani

Word from the Magazine Secretary

"With Great Power, Comes Great Responsibility", is what they say. My sojourn as the Magazine Secretary of TSEC truly bears witness to the above quote. This journey has made me grow as an individual and is sure to set a smile on my face for years to come. It's been an honour to represent this esteemed college on its literary front and I have tried my level best to justify the onerous responsibilities that a Magazine Secretary is entitled to.

First and foremost, I would like to express my gratitude towards the Principal, Dr. G.T Thampi, the Dean of Student Affairs, Prof. Shilpa Verma and the entire teaching and non-teaching staff of TSEC for their sermon support throughout this journey.

Starting off as a Marathi Editor in a team of talented individuals, last year to leading an elegant team that has brought you Synapse 2016 has been a roller coaster ride. Deciphering ways to design a magazine that would not only entertain but also enlighten a reader has been a magnanimous task, in itself. Ranging from technical write ups to provoking poems and satirical segments to contemplating columns, Synapse 2016 is sure to amaze it's audience, irrespective of its genre and grade.

This would have been a dream had it not been for the dedicated efforts of the Joint Magazine Secretary, Aalya Kazi and the entire Magazine Team. Justifying this responsibility bestowed upon me while maintaining a decent academia was a challenging task, in itself, that brought me at tenterhooks. I would like to take this opportunity to thank the entire Chemical Engineering Department of TSEC for developing and sustaining an environment conducive to its accomplishment. Last but not the least, a big thank you to all my friends for their incessant encouragement and the faculty and student community of TSEC who made this version of Synapse, worth a read.

For all the young readers at TSEC, Synapse isn't just a mere seven lettered word. It encourages efforts, reflects hardwork and celebrates passion. So, with the wings of opportunities, let your ideas fly. We all have a spark which we should never let die.

-Pranav Majgaonkar





From the Cultural Secretary

I feel honoured to have had the chance to represent the entire college community by being assigned to the esteemed post of Cultural Secretary of TSEC.

I hope that I have successfully sufficed to the demands of this title and hence done justice to the amazing group of students who have been important to the positive culture of this institution of repute.

The trip to IIM Bangalore and the various other college festivals that our contingents have participated in and won, stand testimony to the efforts put in by all the students. To top it all, seeing the joy on TSECite faces, dancing to the beats of the Dhol on Traditional day 2016, drowning all their worries in the brightest of colours as we unveiled the line-up for Trifles '16 was undoubtedly, a priceless feeling.

Trifles '16 lived up to its hype as always, and proved to be a zealous and memorable event which was well received by teachers and students.

None of the achievements could have been attained without the help and support of my joint secretary Kaushal Thakkar and every member of the junior and the senior committee.

To our Principal, Dr. G.T. Thampi, Prof. Shilpa Verma and the entire teachers committee:

You have taught me to be a good leader, be willing to take risks, be kind, and most of all be myself, which are lessons that I will take with me throughout life and apply in my career as well.

Congratulations on our joint successes, follow your passions, continue to be leaders, and best of luck in your future.

-Darshan Tina

From the Ladies Representative

I feel honored to have been appointed as Ladies Representative of TSEC with due reverence to standing up for women.

I hope I did justice to this prestigious post by contributing to the achievements of our college and hence accomplishing the responsibility bestowed upon me. As the Ladies Representative, my primary focus lied in fostering the talent endowed upon the female masses by encouraging their whole hearted participation in all activities as well as providing them the required assistance to heighten effortless and easy communication.

My solitary aim revolved around creating a solace environment in which women could voice their opinions and find solutions to mutual concerns.

This designation proved to be a great learning experience in addition to strengthening relations with teachers and fellow students.

In the month of March, International Women's Day was celebrated with great panache and elegance wherein teachers and students came together to showcase their talents.

I would like to extend my gratitude towards Dr. G.T Thampi, The Principal and Prof. Shilpa Verma, Dean of Students Affair, without whose incessant support this venture wouldn't have been successful. I am also grateful to my friends and fellow students whose mere presence and support made my journey worthwhile and wonderful from the beginning till the very end.

-Revati Wagh



From the Sports Secretary

The year 2015-2016 was a celebration of all achievements, big and small, not just in the classroom but also on the sports field.

I feel fortunate to have been a part of TSEC which is well renowned for not only withholding a fine academic record but also providing a varied cultural and sporting platform.

Being designated as the Sports Secretary for the academic year 2015-16, was truly anecstatic feeling which urged me to do my best while handling the esteemed responsibility entrusted upon me.

During my tenure the contingents outdid themselves and raised the bar by winning a total of 19 medals.

This year the 'TSEC Marathon' witnessed a crowd of around 2500 participants which was beyond doubt, a task next to impossible to achieve without the relentless help of Ms. Divya Udyawar, my Joint Sports Secretary as well as the rest of my committee.

The annual sports festival 'Yudh' was a top priority on our agenda and our sheer hard work and perseverance led to its grand success.

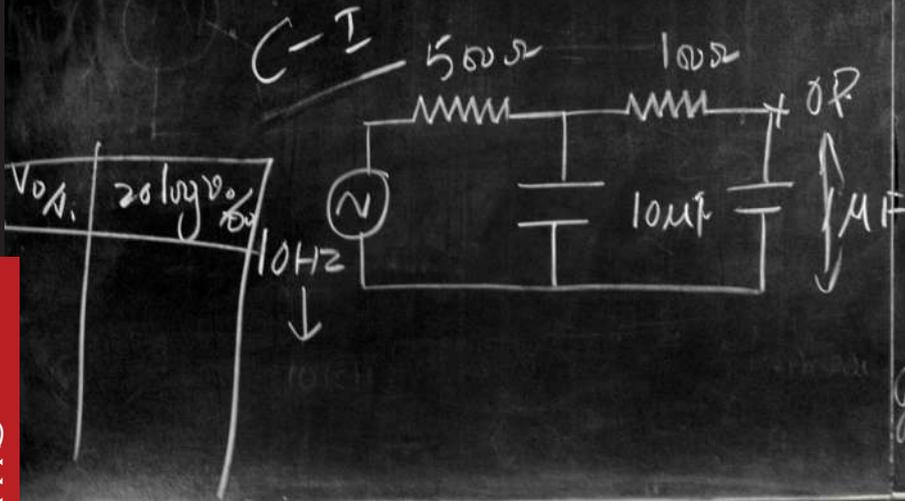
"A journey of a thousand miles begins with a single step". There were obstacles, but with each small step they were overcome, they were crushed. Success was no mystery for us, the Sports Committee.

A big thankyou to Dr. G.T.Thampi and Professor. Shilpa Verma whose encouragement, support and motivation helped accomplish the goals I set out to achieve.

-Rajeev Dhanwani



EXTC



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 was proud to introduce their new Very Large Scale Integration (VLSI) lab, equipped with up-to-date industry standard VLSI tools and hardware resources.

The Head of Department Dr. Ashwini Kunte, delivered an expert lecture on wireless networks on November 18th,

2015 for Mumbai University engineering faculty. Dr. Ashwini Kunte along with students Anush and Tanmay, published the paper, "Intrusion Detection System In Wireless Sensor Networks: A review", on November 12th, 2015.

Mehak Potnis, Ayesha Chimnani, Vishal Chawla and Prof. Amit Hatekar published the paper, "Home Security System using GSM Modem", in April 2015.

Siddharth Verma, Vikrant Vaze and Shubham Singh received the first prize in the National level project showcase (VCET) held in April 2015 for the project entitled "Cursor Control using Eye Tracking".

Prof. KK Matthew has published an EBook on Basic Electrical and

Electronics Engineering. Prof. Mani Roja completed her Ph.D in Engineering and Technology in September 2015. Prof. Amit Hatekar completed his ME in June 2015.

The faculty stated that the department is lacking the much needed interaction with the EXTC industry and improvements can be made to further exploit the jobs available in the telecom industry.



The Department of Information Technology has developed immensely over the past few years, with new technologies coming through, and has created a healthy environment in the campus. The University of Mumbai has allotted the college 10 additional seats for the Ph.D. program.

All the staff members in the department are now postgraduates with some pursuing Ph.D. in various domains. Prof. Arun Kulkarni, Prof. Nikhilesh Joshi and Prof. Bhushan Jadhav have published a book on “Parallel and Distributed Systems”. Prof. Bhushan Jadhav has also published books on “Information Management” and “Grid and Cloud Computing”.

The department successfully organized a one week STTP on ‘Big Data Analytics’, coordinated

by Prof. Arun Kulkarni and Prof. Bhushan Jadhav. Prof. Nikhilesh Joshi presented a research paper at the national level conference on “Recent Trends in Computer and Communication Technology”. Prof. Arun Kulkarni and Prof. Bhushan Jadhav have also attended a faculty development program on “Latex” at NMIMS, Vile Parle. Prof. Sampada Pingre has received a minor research grant for her project from Mumbai University.

The department is generating revenue for the college by conducting online exams for various companies. The staff members have developed excellent interaction with the outside world, thus uplifting the college in all respects.

The IT department continues to enthusiastically support its students in their creative endeavors, making it amongst

the finest in Mumbai University. The Department is very proud of Mr. Bhushan Pai and Mr. Saddam Pojee for their placement in the dream companies, Morgan Stanley and Works Applications, with packages of 15 lakhs and 32 lakhs respectively.

The ambition of the department is to create a nurturing and supportive learning environment. Prof. Suvarna Gabhe has left the college and settled in Pune. Lastly, Prof. Arun Kulkarni stepped down from the position of HoD and the department found new leadership in the capable hands of Dr. Madhuri Rao. Prof. Arun Kulkarni is grateful to respected Principal, Dr. G.T. Thampi for his valuable guidance, his staff members for their immense support, and last but not the least, the students of all departments during his tenure.

COMPUTER ENGINEERING DEPARTMENT

TSEC'S Computer Engineering Department is one of its oldest departments, having been established in 1984. Ever since, the department has grown consistently, in numbers and competence, boasting an intake of 120 students each year for FE and 25 students each year for the ME course.

The Computer Engineering department's achievements in the field of academia are evident from the sheer number of papers published this year - over 30 by the faculty, and nearly 15 by students. In addition to this, several faculty members including Prof. Tasneem Mirza, Prof. Shilpa Verma, Prof. Ruhi Bajaj, and Prof. Seema Kolkur, are part of the ongoing PhD program.

The Computer Engineering Department conducted two ISTE approved Short Term

Training Programmes - one in June 2015 on Network Security Management using Open Source Tools and second in Dec 15 on Cloud Computing. Both the Programmes were convened by the Head of Computer Engineering Department- Prof. Jayant Gadge and Coordinated by Dr. Tanuja K. Sarode and Dr. Archana B. Patankar.

Dr. Tanuja K. Sarode is appointed as the Ph.D. coordinator for the Ph.D. Programme of Thadomal Shahani Engineering College. One student from NMIMS completed his/her Ph.D. under the guidance of Dr. Tanuja K. Sarode. in the academic year 2015-2016.

To encourage the students for paper publications and to improve the quality of the projects, the department selected 10 outstanding projects and felicitated their makers with a certificate.

Additionally, Sanket Purandare secured an All India Rank of 25 in GATE 2016.

Two project groups guided by Dr. Tanuja K. Sarode published 2 papers each in an International Conference and International Journal, and one project group published a paper in an International Journal.

Dr. Tanuja K. Sarode has published 25 papers and Dr. Archana B. Patankar has published 10 papers in various International Conferences and Journals in this academic year.

Dr. Tanuja K. Sarode and Dr. Archana B. Patankar were invited for chairing the sessions at International Conferences (ICCT held in September 2015, and ICCCV in February 2016). They were also invited to give a guest talk in the STTP organized by TCET in December.



Instituted in the year 1983, the Chemical Engineering Department is an epitome of excellence. Under the effective leadership of the HOD Dr. Sadhana J Purohit, this department has always symbolised an ideal education model. Dr. Sadhana Purohit, strived for the technical betterment of the students by organising lectures on topics like “Opportunities in Oil, Gas and Power Sector” by Suvidya Institute of Technology, “Project Management and Corporate Awareness” by Swiber OffShore India Pvt. Ltd. ,”Overseas Education Counselling” by Kraft Education Services, “Overseas Opportunities for Further Studies and Scholarships” by Narotam Sekhsria Foundation and “Technical Paper and Poster Presentation” by Ms. Dipti Deshpande, an esteemed alumnus of TSEC.

Prof. Elizabeth Joseph received a minor research grant from

the Mumbai University for the “Study of Phase Equilibria for CO₂ Adsorption”. Dr. Parag Sutar, seized the opportunity of pursuing research at Qatar University. The department also organised a visit, with the help of Prof. Usha Nambiar to the Dahanu Thermal Power Station, maintained by Reliance Energy in May, 2016.

While the teachers were trying their utmost to put their department on the academic map, the students were not less enthusiastic about the same. Akash Bhat published a paper on “Silver Nanoparticles For Enhancement Of Accumulation of Capsaicin in Suspension Culture of Capsicum Sp.” in the Journal of Experimental Sciences, Volume 6, 2016. In addition to this, he also received the Indian Academy of Sciences, Bengaluru, Summer Fellowship for Research on Cavitation at ICT, Mumbai. Husain Rasiwala and Rajan Mishra bagged the First Prize for

their self-designed car at “Chem-E-Car” held at IIT Bombay. Akhil Subramanian and Rajan Mishra won the First Prize in an ENERGY Quiz held by the Energy Department of IIT Bombay. Akhil Subramanian and Rajan Mishra presented a paper on “Modern Desalination Technologies” at SChemCon held in September, 2015 at MIT, Pune which stood out as one of the best papers of the conference. Pranav Majgaonkar, Nimish Muthampambil and Ashish Vazirani presented a paper on “Recycle and Reuse of Water used in Scouring” at an industrial conference titled “Laghuswapna 2016” held at SJIMR, Palghar.

With such unparalleled efforts taken by the teachers and the students, this department is sure to excel all standards of excellence in the years to come.



BIOTECHNOLOGY ENGINEERING

Thadomal Shahani Engineering College's Biotechnology department has taken great strides in the past year. The head of department Dr. C.S. Kulkarni stresses deeply on its importance, owing to the wide variety of applications it currently serves, as well as the endless opportunities it promises to provide in the future.

In order to keep up with the rise of the field, the Biotech department has introduced a new tissue culture conservation program, wherein microorganisms, such as bacteria and fungi, developed by the seniors, are preserved for the next batch of students to study. This allows the culture to thrive, grow and become more complex, year after year. Sterilization chambers have

been created to make this program possible. A great initiative indeed, considering how much time and effort it saves.

The Biotechnology Department of TSEC, very enthusiastically organized BIOZEAL. Besides technical events like Poster Presentation and Technical Paper Presentation, many fun and learn events like the Treasure Hunt were also held. A number of enlightening seminars and workshops drew attention from plenty of participants.

Other notable events include the visit of the TFR group from Homi Bhabha Center and a seminar conducted by Dr. ML Arunand on global framework for biotechnology and genetics.

Amongst the accomplishments,

was Dr. Pathak, co-author for a paper on immunology, who received an award from the Singapore University. Bhakti Chavda, TE Biotechnology, bagged the first prize at TantrAvishkar 2k16, a national level technical symposium organized by IE(I)-TSEC.

A word from the Head of Department Dr. C.S. Kulkarni- "Students need to get out of the shock of the 12th standard and plan for what lies ahead. Reading papers published by nobel laureates will encourage them to perform their own unique experiments and push them towards creating prize winning projects."

BioMediC ENGINEERING

The Department of Biomedical Engineering in Thadomal Shahani Engineering College was established in 1983 and is one of the first of its kind in the nation.

The faculty, in close association with the Head of the Department, Dr. Mita Bhowmick, has strived to build future leaders in the field of biomedical engineering by providing high quality education, research and industrial opportunities. While moulding their students into responsible citizens of the Indian Society, the faculty has also managed to hold their stride in the modern trends of innovation by pursuing higher education, organizing and attending various International and National Conferences, seminars and workshops to keep a track of recent developments.

The Head of the Department

herself has been an exemplary example of continuous learning. She attended an International Conference and Exhibition on 3D Printing World at Nehru Science Centre, held in October, 2015. She also was a part of the International Conference on Communication Technology held in September, 2015. She attended a workshop on Demonstration and Simulation of Sophisticated Medical Instruments in Intensive and Neonatal Care and Operating Systems held by Draeger Medical India Pvt. Ltd. in June, 2015. She was invited as a member for a Panel Meet on 'Biomedical Engineering, a Career for Future' organized by Vidyalkar Institute of Technology and Mumbai University. She was also a Jury Panel Member in the event titled 'Medical Device Innovation Conclave (MEDIC) 2015' at IIT Bombay.

In addition to this, Madhura

Shanbag, Brinda Desai, Vidhi Desai along with Dr.Mita Bhowmick had submitted a paper on "Automated Pulse Retrieval Device" which was accepted for Oral Presentation in International Conference on Communication Technology held in DJSC in September,2015.

This bears witness to the fact that the department is trying its utmost to nurture a scientific outlook amongst the budding Biomed Engineers of the nation. Thus, with the effective and efficient guidance of the eminent faculty and the increasing participation of students, this department will definitely justify the tag of being "one of its kind" in the nation.



COMPUTER SOCIETY
OF INDIA

The Computer Society of India – Thadomal Shahani Engineering College (CSI-TSEC) accomplished to bring forth one of its most successful years during 2015-2016. The committee is well renowned for its Industrial Visit (IV) as well as annual tech fest Rubix. But, this year encompassed within it, a plethora of events that helped steer CSI-TSEC to greater heights.

The zealous journey commenced in April 2015, when the newly elected ambitious senior and junior committee initiated a coruscating membership drive in full swing.

CSI-TSEC provided Wi-Fi with speeds upto 2 Mbps, a free software kit, technical goodies and an ultimate boon for the FEs, the TSEC app. The app helps FEs to get acquainted with the ins and outs of the new college environment by providing adequate data and location for the same.

The absolutely phenomenal response to the membership drive, as usual, broke previous records of registrations.

CSI-TSEC provided Wi-Fi with speeds upto 2 Mbps, a free software kit, technical goodies and an ultimate boon for the FEs, the TSEC app.

Technext, CSI's remarkable odd-semester fest, laid the foundation to help broaden its own horizons by playing host

to its one-of-a-kind seminars and workshops on Powerbank Manufacture and Robotics Level 1. It also hauled along with it, ceaseless fun and frolic with the introduction of a new fun event in the TSEC campus: Bubble Football. All in all, like always, Technext ascertained to be a massive hit amongst students.

The Industrial Visit, the most anticipated part of the year which is exclusively planned for FE's, lived beyond its hype as it proved to be an enlightening educational-cum-adventure tour through Rishikesh, Jim Corbett, Shimla as well as Vector Industries Ltd., Chandigarh.

The IV, undoubtedly imprinted into the minds and hearts of fervent freshers, memories of the best of their college days.

Rubix 2016, the largest and most eminent festival of CSI-TSEC proved to be a notch above its predecessors when it took its first step towards amplifying innovation, hence projecting CSI as a multi-faceted technical committee whose ulterior goal strived towards creating a revolutionary legacy.

The first day started off with a bang leaving audiences spellbound over a laser show, followed by the cricket launch of a team of television actors (BCL) and ended at a high note when youth icon Varun Agarwal graced Rubix'16 with his presence.

Advanced and novel work-

shops like Mobile Making and IOT followed by competitions like Occult Coding, Rubik's Cube Solving and fun events such as CS, FIFA and Robo Soccer added to the gravity of the fest.

This year's project exhibition saw some of the most radical projects like Whiteboard Illuminator, Helping Hand and Syncway. Virtual Reality, introduced by PETA, was a first in the imagination of landscape which provided everyone who dreamt of building a start-up, a chance to convert it into reality.

In a nutshell, CSI-TSEC has had an exceptionally pioneering, venturesome and exhilarating year. The entire committee referred to it as 'The year CSI knew no bounds'. CSI-TSEC continues to sprint towards its solitary goal of being one of the best to being The Best Committee of TSEC.

One can only sit back and marvel at all that CSI-TSEC has achieved and will continue to do so till it reaches the pinnacle of success.

TSEC STUDENTS' COUNCIL

HAMMED

REA



TRIFLES



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 as well as the staff by helping them create and cherish memories through the various events organized during the year.

For the first time after its establishment, TSEC got its very own flag, conceptualised and designed by the TSEC Students' Council

The tenure commenced with the organization of Avalanche '15, a vivacious festival, dedicated to FEs, comprising of numerous engaging events that served the purpose of a perfect ice-breaker to begin college life with.

With the aspiration of representing TSEC at various competitive platforms, the quest for talent began through the contingent auditions, providing students with an opportunity to flaunt their skills in Dance, Drama, Fashion Show and also in playing for Musical Bands. The fashion show team emerged victorious at IIM Bangalore's annual cultural festival, Unmaad 2016. The Drama team with the theme 'Selfie' bagged the 1st position at SP

Jain, ICT (Manzar), Symbiosis Institute, Pune and KJ Somaiya College, Vidyavihar as well as secured the 2nd position at DJ Sanghvi College and Sardar Patel College of Engineering. The Dance team grooved to victory at SNDT College and Vidyalankar Institute of Technology, Wadala with the third position and acquired the 1st consolation prize at KEM College, Lower Parel.

Every year has a new characteristic to that tenure. Therefore for the first time after its establishment, TSEC got its very own flag, conceptualized and designed by the TSEC Students' Council. To commemorate the flag, 18th January was observed as TSEC Flag Day, with Principal

Dr. G.T. Thampi hoisting it, amidst eager students and staff members.

TSEC Students' Council's awaited annual event Traditional Day 2016, as always, not only captivated a huge turnout of ethnically dressed students and staff with the spirit of festivity while they swayed to peppy numbers but also helped witness the unveiling of one of the prime events at TSEC, Trifles 2016 which was endowed with electrifying performances by Mohammed Irfan, Progressive Brothers and YouTube sensations Atul Khatri and Zakir Khan.

Trifles 2016, the most anticipated festival of the year saw events of grand stature spread across three days in March. The

extravaganza of fun and frolic acquired participation of students from over 40 colleges in Maharashtra and was very well received by students and teachers.

We are highly obliged to Prof. Shilpa Verma, Dean of Students' Affairs, whose altruistic support, guidance and inspirational vision brought success to all of our events. Also, we would like to sincerely thank the entire Trifles Teachers' Committee, without whom Trifles 2016 would not have been possible.

"TRIFLES" these mere seven letters house within them a myriad of perennial mixed emotions and hence summing up our experience in a few words will never suffice.

But the one lesson that Trifles instilled into our hearts and minds while working for it was that,

Life's resilient ways will never fail to triumph over futile efforts and multiple hardships and as always, "It all works out in the end".



The Management Society

At the Management Society, we believe in being the difference. This belief drives us to be the difference between a degree and an education. Through the conceptualization of various initiatives that range from debates to quizzes that draw the best minds from across the nation, we strive to engineer experiences that educate and empower the youth of today and the leaders of tomorrow.

MS-TSEC began the year with the Society's Mentorship Program, which aims at making the transition into the college life easier for the First Year students. Each student was provided with a kit, as well as a mentor that helped to alleviate their concerns and answer their queries. Over the years, this Mentorship Program has helped create an amicable environment for the new students of the college.

At the end of August, the Management Society endeavored to conduct an event like none before within the college. An intra-college Youth Parliamentary Debate saw the students of TSEC participate in a parliamentary style debate. Students of all years took part, making this event a success.

CarMa, short for Career Management, is the annual literary fest of the Society, which was held in early October. TM-MUN 2016, a flagship event of CarMa, stood as a 3 day MUN conference hosted at the Regus Trade Center,

BKC. This year, TM-MUN saw delegations from many of the city's renowned colleges and schools alike. On the first day, a comedy show was held as a fundraiser for PETA (People for the Ethical Treatment of Animals). CarMa also saw a number of other competitions, including the highly popular Quiztacular, The Amazing Race and Science of Deduction, events that proved without a doubt that entertainment and education were not poles apart.

At the end of the odd semester, the Society organized a well deserved excursion, exploring the beautiful lands of North India. Adventures such as river rafting in Rishikesh and the wild life safari at Jim Corbett National Park were accompanied by an immensely elucidative visit to the Godrej factory. Amidst the misty foothills of the Himalayas, above pristine lakes and inside serene forests, there was an unending sense of happiness.

Through a roller-coaster of ups and downs, strangers became friends and friends became part of a family called "The Management Society".

The Society's final event of the year is an event that finds itself on the calendars of India's best debaters year after year. Speaktacular 2016 saw some truly outstanding debates, with large audiences that hung on to

every word of the debate. After a storm of logic and emotion, the competition drew to a close, with one team walking away with the award but many more individuals walking away with changed opinions.

At the end of what was an incredible tenure, we were all left in a storm of emotions. Through a rollercoaster of ups and downs, strangers became friends and friends became part of a family called "The Management Society".



INSTITUTION OF ELECTRONICS AND
TELECOMMUNICATION ENGINEERS

Step, Leap and Dive – It is the journey of success. IETE - TSEC took a step in a leap of faith and toil this year, and emerged out as what they are now. In their own words, last year they dove into an uncharted ocean and created no more than a ripple. It was only after the mistakes, the last minute - “yaar, problem ho gaya”, the intense committee meets, that they were able to see what needed to be done. After that, there was no turning back. It was then for the first time ever IETE conducted a fully fledged Membership Drive for the first year students, garnering excellent response.

Keeping the head high but foot on the ground, the committee geared up for ELAN 2015 – the odd semester festival. Soon, IETE was the committee that wasn't hiding in the smoke anymore.

Apart from students of TSEC, ELAN 2015 also got a large number of students from other colleges to appreciate it, but even that didn't hold a candle to how amazing Oscillation 2016 went. Events like Hack-X-Pert (learning to secure their online accounts), Circuit Builder (building a signaling system and sirens of emergency vehicles), Bug Byte (a coding competition), Game Development, Visual effects (VFX), Glow Cricket and 3D Printing were a grand success.

This would not have been possible without the support of volunteers who helped organize

Keeping the head high but foot on the ground, the committee geared up for ELAN 2015 – the odd semester festival. Soon, IETE was the committee that wasn't hiding in the smoke anymore.

this festival. They did not just share the workload but also the passion and dedication for the committee which led to the strong foundation. However, all this was not built overnight, it could be traced back to the annual IETE Industrial Visit. Starting from Bandra to Chandigarh, those 26 hours of fun-filled train ride, Shimla to Manali, traveling from 10°C to 1°C, valley crossing and reverse bungee jumping at Kufri, rafting in waters of Beas, and finally visiting one of the divine places in India, Amritsar, where there was not only peace and serenity to enjoy, but also the purity of the food served at the langar. The ceremony at the Wagah Border accompanied by chants hailing Mother India filled everyone present with patriotism.

After a year of ups and downs, IETE emerged from the ashes, successful like never before, to finally become the committee TSEC looks up to.



The Institution of Engineers (India)

The successful campaign of the IE(I)-TSEC 2015-16 committee began in April, upon the selection of the senior and junior committee members. With this initiative in mind, IE(I)-TSEC commenced its journey with the Inauguration Ceremony on the 10th of August, 2015. Presiding over as the chief guests were Dr. Basant Malpani, BARC and Dr. Ameya Nyayadhish, Professor, VIT. Their awe-inspiring speeches shed light on the unexplored and exotic topic of “Constructive and Peaceful Uses of Nuclear Power,” while simultaneously making the audience aware of the immense scope of this field.

IE(I)-TESC's very own signature event - “Internship Expo” was a thundering success as over 35 students from across the Chemical, Biomed and Biotech branches were offered internships at the elite-most industries of India

Truly, the seminar unravelled the new vista of opportunities that are in store in this field. Next up was the “Hospital Visit” conducted at the Lilavati Hospital and Research Centre. The visit solely catered to the interests of the students from the Biotech and Biomed branches, by providing them with an explicit and thorough

tour of the various laboratories and other facilities. The visit to the Artificial Kidney Dialysis (AKD) and CAT Lab were a treat for the students while the Histopathology Lab was the icing on the cake. IE(I)-TSEC organized an Industrial Visit to one of India's most outstanding research centre - Tata Institute of Fundamental Research (TIFR). To help an emerging engineer hone his technical skills, the Institution started off the year 2016 with a seminar on Technical Paper Presentation. Led by Ms. Dipti Deshpande, a notable alumnus of TSEC, this seminar witnessed enormous participation from students across various years.

Continuing with its legacy to “Innovate.Experiment.Implement”, IE(I)-TSEC came up with the next edition of its own National Level Symposium - “TantrAvishkar 2k16”. TantrAvishkar 2k16 was a sensation amongst the engineering students belonging to various disciplines, such as, Chemical, Biotechnology, Electronics and Biomedical, to name a few. This Symposium aimed to provide a common platform to the budding engineers, enabling them to interact with their compatriots from all over the nation as well as the industry.

The festival hosted five events which witnessed cut-throat competition. The Project Exhibition cum Competition witnessed a display of a wide array of projects, ranging from ‘Smart Trains’, for ease in

transportation to ‘Automated Greenhouse’, combining principles of green chemistry with electronics. The Technical Paper Presentation and Poster Presentation gave the students an opportunity to showcase their technical brilliance alongwith their linguistic skills and artistic prowess. The festival also hosted the event - “Beg Borrow Steal” which turned out to be a revelation as the technical knowledge and presence of mind of the participating students were put to test. IE(I)-TESC's very own signature event - “Internship Expo” was a thundering success as over 35 students from across the Chemical, Biomed and Biotech branches were offered internships at the elite-most industries of India.

These 2 days of fun and learn turned out to be a truly enriching experience for all those in attendance. Thus, flaunting innovative projects and technical papers, TantrAvishkar 2k16 impressed the broad spectrum of judges and inspired the young visitors, thereby adding a feather in the cap of IE(I) and TSEC.



Indian Society
for
Technical Education

Jack of all trades, Master of none has been the conventional belief, but we at ISTE-TSEC have not only challenged the saying 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, the largest student body in college, has always cherished successful tenures and grand events, raising the bar higher each time.

It dates back to 22 July 2016, when a new committee of 13 was formed to help the students of TSEC in advancement of their technical know how, and imbibe a zealous participation amongst them. TSEC was engulfed in the fervour of the Membership-Drive undertaken by various committees, including ISTE-TSEC. ISTE-TSEC views this as 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. ISTE-TSEC distributed various freebies to the patrons.

Come August, ISTE-TSEC was over-whelmed by the response for its intra-collegiate festival, CRYPTECH 2015. It consisted of a practical hands-on workshop on Cyber Crime Investigation by Skynet

Secure, PYTHON language for beginners and Linux Administration for Dummies. The participation was in such huge numbers that ISTE-TSEC was astonished. It added prestige to the festival and a moment of pride for the team.

The laurels brought by CRYPTECH did not cease there; the positive feedback gave impetus to the committee and ISTE-TSEC witnessed the biggest technical festival at TSEC, with highest participation from colleges all over Mumbai, ASCENT 2016, conducted on March 13, 2016. The workshops were Ethical Hacking by the most famous name in the field, Mr Sachin Dedhia, Big Data Analysis by IIT-B Alumni, CCNA, Android Application Development and Web Development by Microsoft Student Partner. ISTE -TSEC also organized a two level coding contest, Code Wars. ISTE-TSEC invited over 5 companies for the Internship Expo.

The Indian Society for Technical Education, a national, professional, non-profit making society is the only committee approved by AICTE Board

Apart from feeding the inquisitive minds of the contestants and participants, ASCENT tested the potential of the committee by pushing

them to their best. It can thus be concluded that ASCENT 2016 was successful in the true sense of the word.

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

Year 2016 will be regarded as a milestone for ISTE-TSEC. ISTE-TSEC crafted everything scholastically and with agility, thrived and pioneered with excellence.



The National Service Scheme of Thadomal Shahani Engineering College (NSS-TSEC) 2015-16 has made us, TSECites, proud yet again with successful completion of multitudinous social projects, thus staying true to our motto “Not Me, But You”, while fiercely fostering our ambition of “Personality Development through community service”. We started off with the membership drive to encourage and inspire the students to participate and contribute to the society through acts of community service, for which they are awarded 10 marks by the Mumbai University for completion of 120 hours devoted to community service. This was followed by the Orientation Programme where we graciously welcomed our volunteers and walked them through our upcoming projects.

The next event was the Independence Day Celebration, where we all gathered to honor the memory of our freedom fighters and to magnify the emotion of patriotism within our hearts. After the celebration of Independence Day, we cherished the monsoon through our adventurous monsoon trek to the famous “Lohagad Fort” in Lonavala, where preservation of national heritage and history of the fort was emphasized upon. A feeling of great accomplishment was instilled within our volunteers; it was indeed an exhilarating experience for everyone.

We also completed many other projects including “Assisting the Blind Child”, Computer Literacy Programme (in collaboration with NGO CACR), “Teaching Underprivileged Children” (in collaboration with NGO AAKANSHA), not to mention “Feed the Hungry”, a very well received project in collaboration with Holachef. Another feather in the cap was our contribution to the Swachh Bharat Abhiyaan. Blood donations were organized, for each semester with a total of 240 units of blood donated by generous volunteers. Thalassemia and Osteoporosis checkups were also incorporated in the blood donation drives.

Coming to our most talked about project of the year, the NSS Residential Camp, with Belkadi Village as our venue, each of our volunteers at the camp experienced the life of the common village-folk, away from the hustle and bustle of the city life. A one-of-a-kind experience, our volunteers, upon interaction with the localities, realized the struggles of an average villager.

Also, at the camp, we performed fieldwork where we created a network that connected the bore well to the villagers so that their constant shortage of water was taken care of. This fieldwork received a huge appreciation by the local governing authorities. The dedication displayed by our volunteers in this act was also acknowledged by renowned

Marathi tabloids, “Saamna” and “Lokmatt”. Other projects included in the camp were mass awareness campaign through street play, disaster management workshop, compass workshop, survey, interaction with the local school children, to name a few. Our other projects included dental checkup, stem cell donation drive, and joy of giving week. The mass awareness project at the inter college level, titled “Aakhir Desh Hai Hindustani”, highlighted and addressed recent agendas like prostitution, lack of sex education and misuse of caste based reservation.

“Another feather in the cap was our contribution to the Swachh Bharat Abhiyaan.”

Lastly, we’d like to say, the entire year has been an amazing journey and we, NSS-TSEC, shall continue to strive to bring about a positive change and make our society a much better place.

The Indian Institute of Chemical Engineers (IChE) is a professional organization of elite group of researchers and innovators from different academia, research institutes and industries. IChE is an active and dynamic body, a confluence of streams of professionals from different fields of science. It provides them with an excellent forum for joint endeavors, hand-in-hand, to work together and find solutions to the problems faced by the society through application of chemical engineering and allied sciences. The programme of IChE is immensely beneficial, opening up doors of new and existing possibilities. Over the years, the Institute has developed a distinct profile of its own. Even as the IChE is always moulding itself and playing a proactive role to keep up with the ever changing needs of the society and the economy, the primary vision and mission of IChE remains the same, to provide a platform for joint research and innovation to use science and technology for the betterment of the human society.

The IChE-TSEC body is one of the most promising organization, and contributes greatly to the vision of IChE. As a student branch, the Chemical Department of TSEC works with great determination and enthusiasm to provide students a platform to showcase their work and encourage development in the same.

The ChEMERGENCE is an annual national level technical symposium of IChE-TSEC student chapter. It is an event that has always managed to attract students and professionals from all over the nation and has now become a paragon for events and symposiums. Similarly the ChEMERGENCE'15, has set new heights and standards. The two day symposium covered various events and had the presence of eminent personalities, whose experience and aura motivated the young minds and participants.

The event had a grand inauguration ceremony, which itself was enough to highlight the promises ChEMERGENCE'15 held. The Principal of TSEC, Dr. G.T. Thampi presented the opening address followed by speeches by esteemed dignitaries, the Chief Guest, Prof. Dr. Alpana Mahapatra (IChE – Mumbai), Dr. S. J. Purohit (HoD, Chemical Dept., TSEC) Prof. Elizabeth Joseph, Dr. S.S. Bhagwat (Former HOD, Chemical Dept., ICT), and Mr. Jagdish Pathak. Mr. Harsh Bhatt from BASF India presented a realistic and strong message to the students and faculty present.

The inauguration was followed by activities planned for Day-1 of the symposium. The CHEMx Lecture Series, Salt Act, TPP Eliminations, Cooling Tower Design, Heat Exchanger Design and Industry Defined Problem were the Day-1 activities, these events were well planned, managed and executed.

Day-2 events were equally interesting. HTRI Workshop,

Poster Presentation, Chemical Quiz and the TPP Finals were the events which grabbed the attention of all the attendees and the competitions were nothing less than breathtaking. It all concluded with a warm closing ceremony, where Prof. Elizabeth Joseph presented the Vote of Thanks. Mr. Mohit Surana (Chairperson, IChE-TSEC) presented the following message:

“The IChE-TSEC body is one of the most promising organization, and contributes greatly to the vision of IChE”

TSEC Chapter) congratulated all the winners and presented them with their certificates and prizes. ChEMERGENCE '15 has literally emerged as a pioneering effort in bridging the gap between the industry and institution.

All this integrated together to make ChEMERGENCE'15 one of the biggest events of IChE and TSEC.

Women's Day



International Women's Day is celebrated worldwide. It is a day when women are recognized for their achievements without considering national, ethnic, linguistic, cultural, economic or political bias.

International Women's Day is a celebration respecting, appreciating and loving women world over for their achievements. The day marks accelerating gender parity as well. In 1917 against the backdrop of World War I, women in Russia chose to protest for "Bread and Peace" which fell on 8th March. Thus in 1975 during International Women's Year, the United Nations began celebrating International Women's Day on 8th March.

In today's modern era of mass communication and globalization women are standing at par shoulder to shoulder with men in every field. Name any field, women are prominent right from Commerce, Government, Defence, Medicine, Engineering and Education.

Women Empowerment refers to increasing and improving the legal strength of women, to ensure equal- right for women and to make them confident enough to claim their rights.

With this opportunity I would like to talk about how Women's Day was celebrated at TSEC. The fervour surrounding Women's Day celebration months ago, to inviting all the teachers, staff members and students, to actually making

this happen on 8th March, was truly an enlightening experience. Our chief guests Supriya Aiman (Aeronautical Engineer, Glamanand Miss India International 2015) and Nisha Harale (CEO, Niche Entertainments and renowned fashion choreographer) are great entrepreneurs and technocrats and they were felicitated. The zeal on the students' faces could be seen when they had assembled outside the student's lounge. The college was decorated with balloons in purple and white as it was the color code for the day and seeing the students and teachers dressed in the same color was heart-warming. The peppy music playing alongside added to the gusto of this day with the teachers and chief guests being served refreshments during the event. The events that entertained the crowd were flash mob and a street play on women empowerment performed by our highly talented students. We also had a few games which attracted students and teachers alike, seeing the teachers actively participate in dance, drama and fashion show was marvellous. It ended with a great amount of excitement among students with the chief guests joining along for dance which was surprising yet joyous at the same time. On this happy note our event came to an end. The aim of this day was that the teachers and students come together to celebrate the achievements accomplished by women and at the same time have an opportunity to

showcase their talents. The over-whelming response acquired from the teachers and seeing their contentment made this event a memorable one. I would like to thank Dr. G.T.Thampi, The Principal and Prof. Shilpa Verma, The Dean of Student Affairs, my friends, staff and students who helped me pull off this event and make it a great success.

The goal behind this event was fulfilled as it celebrated the developments of women as well as shed light on the problems still being faced by them in our society and emphasized that there's still a long way to go. As it's rightly said "If you educate a man you educate an individual, but if you educate a woman you educate a family".

-Revati Wagh
(Ladies Representative)



LEADERSHIP MEET

LEADERSHIP MEET



TSEC SHINES

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

KM Kundnani Gold Medalist

Talwinder Kaur

Worked as Chief Technical Officer in IEEE Students' Chapter of TSEC.

Worked as a Webmaster in IEEE Students' Chapter of TSEC in 2014.

Part of the Conatus Team, the core technical team of IEEE-TSEC.

Apart from this, Talwinder has displayed a wide array of achievements in the technical field through various online and offline competitions. She has also portrayed a skilled hand through multiple projects in her field of study.

Barrister HG Advani Gold Medalist

Amit Sukhpal

Chairperson at Computer Society of India – TSEC Students' Chapter (2014-2015)

Asst. Technical Head (Software) at Computer Society of India – TSEC Students' Chapter (2013-2014)

Web-developer for ChEMERGENCE '15: Designed and maintained the website for the festival organised by IChE-TSEC in association with IChE-MRC.

Apart from this, Amit has received accolades in Sports and represented college on numerous occasions for the same.

PRINCIPAL'S AWARD FOR EXCELLENCE

Bhushan Pai
Saddam Pojee
Pakshal Patwa
Mohit Surana
Sanket Purandare
Archana Pandita
Nidhi Dugar
Sreejamol Sasikumar
Oshin Dipani
Sukanya Iyer

TSEC HALL OF FAME

Shivani Acharya
Saurav Patel
Vikas Gupta
Niyati Satoskar
Janesh Somaya
Zamil Badr
Apurv Tiwari
Anjali Jogeshwar
Omkar Dhokane
Krushna Gharat
Yash Wagh
Mayur Patel
Sangita Patra
Chinmay Tansalkar
Nikunj Doshi
Ashveta Budhrani
Devarsh Vyas

TSEC LEADERS

Apurv Tiwari
Pooja Hegde
Kunj Vora
Mohit Surana
Oshin Dipani
Amit Sukhpal
Aditya Shroff
Sanket Purandare
Bhavik Thakkar
Rugved Arte
Aman Baldia
Arpit Tanna
Janesh Somaya
Vinita Kundnani
Mohammed Salique
Vishrut Bhatavdekar
Aditya Roy
Nidhi Dugar
Khushboo Patel
Jay Venkatraman

TSEGENVOYS

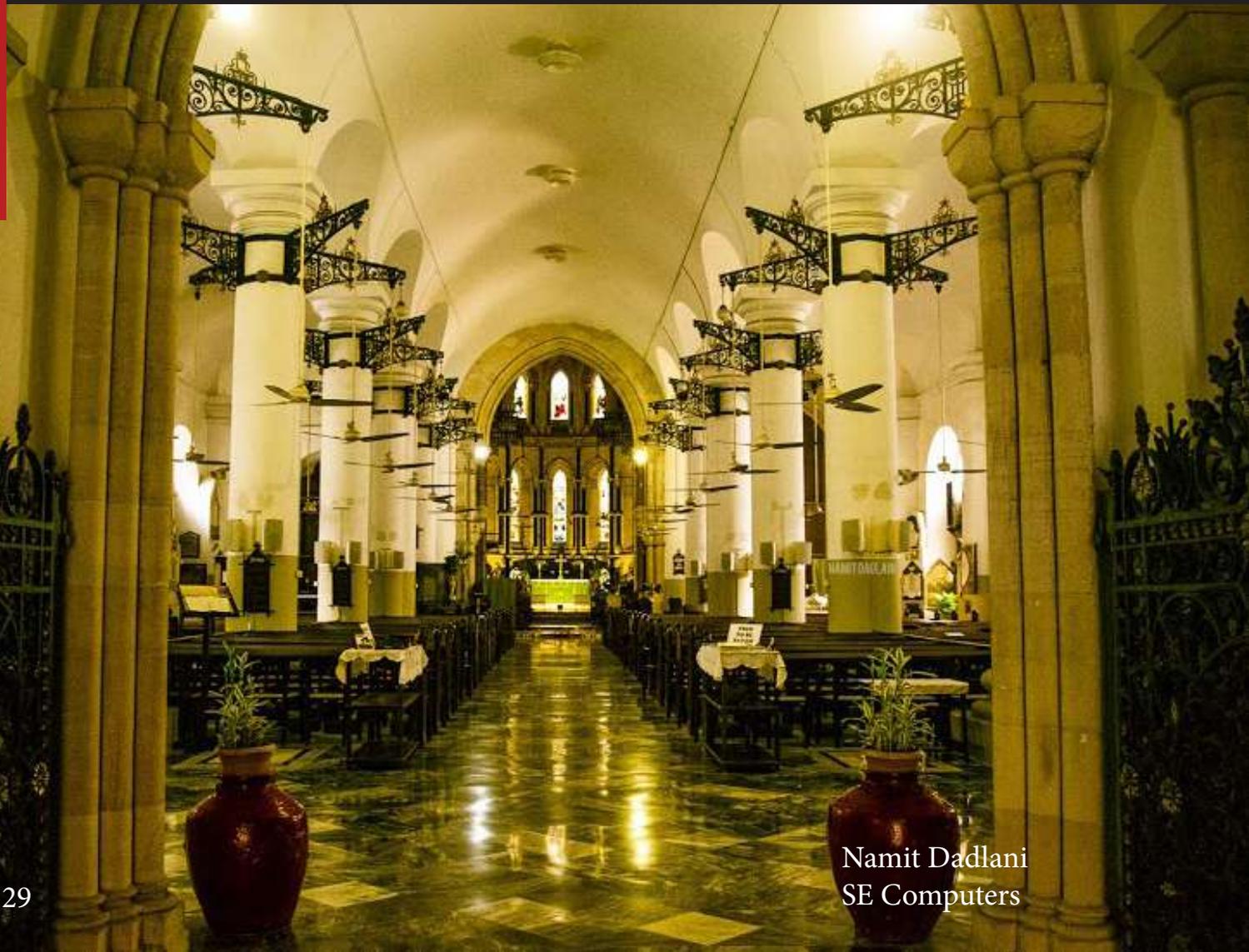
Udit Chaubal
Piyush Borole
Sanjukta Bhattacharya
Ishwari Alve
Ilina Bhattacharya

BRANCH AMBASSADORS

Amit Sukhpal
Zamil Badr
Niyati Satoskar
Talwinder Kaur
Apurv Tiwari
Bhushan Pai
Saddam Pojee
Archana Pandita
Shail Shah
Karthik Nair
Omkar Dhokane
Prathamesh Desai
Shivani Acharya
Saurav Patel
Harnish Naik
Mohit Surana
Azhir Barodawala
Sukanya Iyer
Karishma Ajwani
Devarsh Vyas
Krushna Gharat
Sreejamol Sasikumar

PHOTOGRAPHY SECTION

CREATURES & CREATIONS





Kunj Parekh
TE I.T.



Tejratna Chavan
TE Chemical











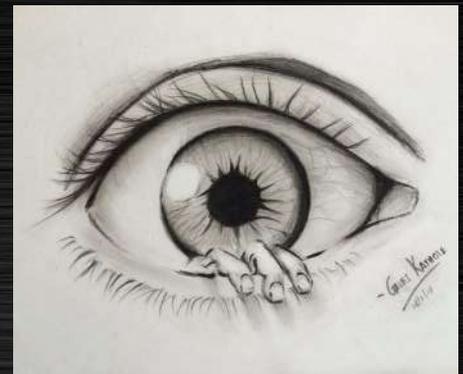
Sketch Section



Jatin Valecha
SE IT



Chinmay Murar
TE Biomedical



Gauri Kathote
TE Biomedical



Medha Somalwar
Faculty, EXTC



Gauri Kathote
TE Biomedical



Akash Bhat
TE Chemical



Siddharth Sharma
SE Computers

A black silhouette of a person standing on a dark, jagged rock formation. The person's arms are raised in a 'V' shape, and their legs are also spread apart, mirroring the arm position. The background is a bright, hazy yellow and orange, suggesting a sunset or sunrise over a landscape with distant hills. The overall mood is one of triumph and achievement.

Live the Twenties, Love the Twenties.

-Aditi Ratnakar Naik
TE Chemical

As you make your way into the twenties, strings of questions, series of predicaments and clusters of starry dreams is pretty much what your mind is intertwined with.

In the quest of finding solutions to the most overwhelming and mind boggling stage of your life, you often forget to do one of the simplest things, which coincidentally is also what you did all the time before adulthood: Being yourself.

Fulfilling your aims and ambitions is by far one of the most important phases of your life. This phase can have two approaches to it, either you overthink and crib about it, thereby adding to the misery of your woes, or else you optimistically lay them out and analyse what all you need to do to achieve them. The imperative part of this process being, coming to terms with the fact that, you

“In the quest of finding solutions to the most overwhelming and mind boggling stage of your life, you often forget to do one of the simplest things; Being yourself”

have to live your life for yourself and therefore not venture out to achieve the aspirations and goals that your parents or significant others have set out for you, but instead put your sweat, blood and tears into accomplishing what your heart passionately wanted you to do all along. It is almost certain that you may face failures in your path to success, but these are just stepping stones, learn from them, believe in yourself and move on.

Family and friends who were formerly undervalued will prove to be your pillars of strength and support as you face the tremors and aftershocks that adulthood brings along with it. Make sure you spend as much time as you can with your family, not only because it makes them happy, but also because you feel nothing but eternal peace in their presence. Having said that, do avoid the toxic relatives.

Find friends who love you for the person you are, make them feel that they are an integral part of your existence and never let ego and pride take over your friendship.

At this point in your life, you must do all that you can to take care of your most prized possession: your body (physical appearance). First and foremost, always feel good, happy and confident about yourself and the way you look. Groom yourself regularly, experiment with new looks and treat yourself to some shopping.

“He who has health has hope, and he who has hope has everything.” Make healthy choices and eat wisely. Burn those extra calories, work out and stay fit.

Prevent yourself from being excessively addicted to harmful habits, try adopting the mantra of self-control and gradually quit because at the end of the day, even you know, all that you are doing is successfully reducing your own life span.

Surviving in a world rapidly progressing towards modernisation and development is bound to create a hole in our pockets, due to which saving money becomes the need of the hour for young adults. “Do not save what is left after spending, but spend what is left after saving”. You must take necessary efforts (Get yourself a bank account, even a piggy bank would do) in order to ensure that this excellent quote by Warren Buffett is incorporated into your life. Financial security will always prove to be an added advantage, in whatever that is, that you decide to do.

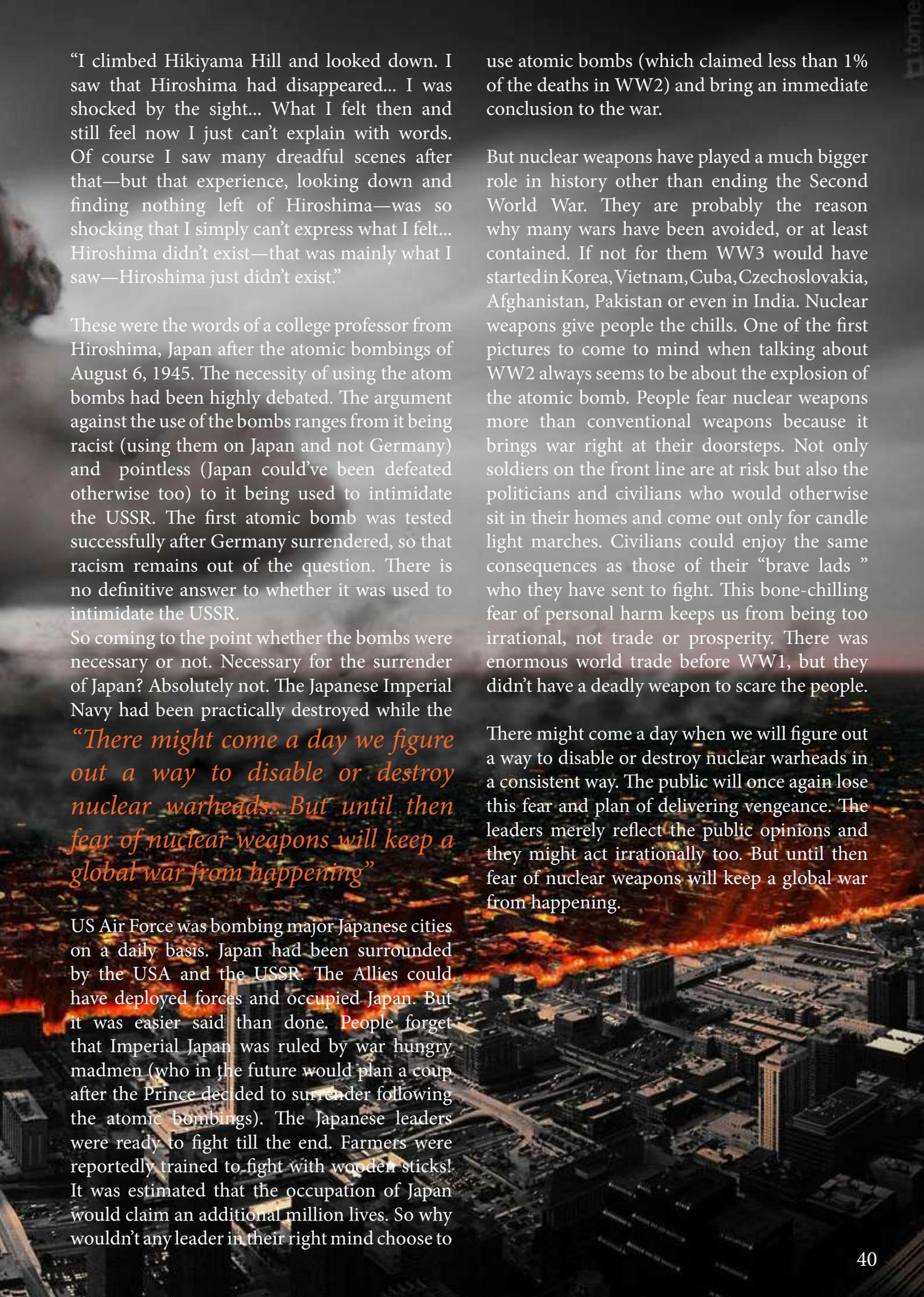
Your twenties is the best time to discover yourself. Develop a hobby, spend time doing productive things like reading and writing, travel to different places, explore, learn new languages. If not now, then when?

It's time to start acknowledging that you are in your twenties, and embracing this wonderful phase of your life with open arms. Live the Twenties, Love the Twenties!

An aerial photograph of a city at night, with a massive, glowing orange and red nuclear mushroom cloud rising from the center. The city below is illuminated by streetlights and building lights, with a large highway interchange visible in the foreground. The sky is dark and filled with the thick, white and grey smoke of the explosion.

The Bomb To End All Wars

-Jas Haria
FE EXTC



“I climbed Hikiyama Hill and looked down. I saw that Hiroshima had disappeared... I was shocked by the sight... What I felt then and still feel now I just can't explain with words. Of course I saw many dreadful scenes after that—but that experience, looking down and finding nothing left of Hiroshima—was so shocking that I simply can't express what I felt... Hiroshima didn't exist—that was mainly what I saw—Hiroshima just didn't exist.”

These were the words of a college professor from Hiroshima, Japan after the atomic bombings of August 6, 1945. The necessity of using the atom bombs had been highly debated. The argument against the use of the bombs ranges from it being racist (using them on Japan and not Germany) and pointless (Japan could've been defeated otherwise too) to it being used to intimidate the USSR. The first atomic bomb was tested successfully after Germany surrendered, so that racism remains out of the question. There is no definitive answer to whether it was used to intimidate the USSR.

So coming to the point whether the bombs were necessary or not. Necessary for the surrender of Japan? Absolutely not. The Japanese Imperial Navy had been practically destroyed while the *“There might come a day we figure out a way to disable or destroy nuclear warheads...But until then fear of nuclear weapons will keep a global war from happening”*

US Air Force was bombing major Japanese cities on a daily basis. Japan had been surrounded by the USA and the USSR. The Allies could have deployed forces and occupied Japan. But it was easier said than done. People forget that Imperial Japan was ruled by war hungry madmen (who in the future would plan a coup after the Prince decided to surrender following the atomic bombings). The Japanese leaders were ready to fight till the end. Farmers were reportedly trained to fight with wooden sticks! It was estimated that the occupation of Japan would claim an additional million lives. So why wouldn't any leader in their right mind choose to

use atomic bombs (which claimed less than 1% of the deaths in WW2) and bring an immediate conclusion to the war.

But nuclear weapons have played a much bigger role in history other than ending the Second World War. They are probably the reason why many wars have been avoided, or at least contained. If not for them WW3 would have started in Korea, Vietnam, Cuba, Czechoslovakia, Afghanistan, Pakistan or even in India. Nuclear weapons give people the chills. One of the first pictures to come to mind when talking about WW2 always seems to be about the explosion of the atomic bomb. People fear nuclear weapons more than conventional weapons because it brings war right at their doorsteps. Not only soldiers on the front line are at risk but also the politicians and civilians who would otherwise sit in their homes and come out only for candle light marches. Civilians could enjoy the same consequences as those of their “brave lads ” who they have sent to fight. This bone-chilling fear of personal harm keeps us from being too irrational, not trade or prosperity. There was enormous world trade before WW1, but they didn't have a deadly weapon to scare the people.

There might come a day when we will figure out a way to disable or destroy nuclear warheads in a consistent way. The public will once again lose this fear and plan of delivering vengeance. The leaders merely reflect the public opinions and they might act irrationally too. But until then fear of nuclear weapons will keep a global war from happening.

YOUR SPARK IS YOUR LIGHT

Dawn is the spawn of light,
When a humble heart starts to take flight,
As it sparks up to light, your sleep strives to fight,
But you're over it, and get up with all your might,
To face this world filled with dynamites.

As you step out of your paradise,
You are initially scared to face the parasites,
But as the folks say, you overcome your fears,
And go out with all your might,
Stumbling upon the ups and downs,
Taking care of your own blaze,
That one day it will be nothing but a streak of light.

As you walk down the boulevard
Your inferno is blazing high,
Pumping out all the courage,
To face the people and that guy.

But as your fuel gets low,
Your lit pyre is losing its glow,
Rusting, busting, it is really gusting,
Cause that spark was always made for it,
To turn to a flame and glow with a distinct aura,
And then to fade in the darkness,
To be lost forever.

-Digvijay Ghotane
FE EXTC

WOUNDS HEAL, SCARS DON'T

She has a story to tell,
A story of every other woman.
Where criminals aren't criminals,
They are prestigious godmen.

Aloof from the chaos,
Lost in her own thoughts,
Her gaze lingers,
Searching for her own world.

Her thoughts go back to that day,
Playing in the park innocently.
A man offers her chocolates,
And she follows him with glee.

But those sweet chocolates were never received,
For he turned out to be a man of heinous betrayal.
And she howled with pain,
Having faced such brutality,
Left to be buried under the grave.

But she was alive,
Found after two days,
With an oil bottle and a candle.
The candle not giving light,
The candle giving throes.

Her life was all wan.
She was treated to be stable,
Which was pretty ironical,
As mentally she was highly unstable.

A mere girl aged five,
Occupied with the horror,
Afraid to step out,
Her dignity had been murdered.

Years later,
As life progresses and she tries to move on,
Parks induce nightmares,
And chocolates hatred...

-Dhaval Dedhia
TE I.T.

IT'S PAYBACK TIME

Throwing some light..towards a dark life
A life of sacrifice for us to strife
They are the soldiers..protecting our country
For them losing their lives is a sense of victory

Far away from their loved ones..fighting to bring us close
Someone is waiting is all he knows
When he married her..those promises made
Turning into prayers for the tribute unpaid
The times when she needed him the most
When he couldn't make it..bound by his post
Looking at the mirror.. she feels so incomplete
Surroundings should be cold.. he bears the heat

Where she couldn't be weak for him to be strong..
He would return..it's not for long..
When she gave him the most precious gift
It was his child..healing the rift
Speechless when he heard the news
Torn between emotions..now he had to choose

A tough life...changing visions...
A path comprising arduous decisions
He chose a mother over a child
His country..of what he was compiled
On a festival happiness all around
But a smile on his face is nowhere to be found

When we feel free..no constraints



He is the one..our life who paints
Filling it with colours all so bright
Dark ones for a story to write
A story... of fears...worries...
Uneasiness
Beyond our complaints demands..desires and success...

To such a personality... so much we owe
Saying isn't enough its time to show
They aren't greedy like us,nothing they need
Feeling proud for their country they bleed
A foundation holding millions of pillars
War against those brutal killers
Let's give them something we want
For a struggling soldier let's plan a jaunt

To those who keep us safe
A shelter to the neglected waif
The basic necessities for a fair war
A environment for a lion to roar
holding this legend against moulder
For a forever sacrifice of a soldier.!!

- Kshama Keswani
TE Chemical





THE WORLD OF ARTIFICIAL INTELLIGENCE

If you're like me, you probably think that Artificial Intelligence (AI) is nothing but a sci-fi concept you've been seeing in movies such as Iron Man (J.A.R.V.I.S) and Star Wars (R2-D2)-a figment of our imagination. Recently, Apple and Google have invested billions in AI research and have launched a number of systems said to be Artificially Intelligent, a fact that intrigued me and pushed me to dig a little deeper.

What I found was, that it is a general misconception that the concept of Artificial Intelligence revolves around a robot shaped like a human that can walk, talk and perform a set of tasks. Robotics is actually just one of the many applications of AI. AI is simply the program or algorithm, designed to think like a human, which makes use of a container (such as the metal body of a robot) for interaction with the environment. This container may or may not mimic the human form.

“Next generation AI systems will possess the ability of breaking the Turing Test (CAPTCHA)-a test created by computers, which no computer till date has been known to pass”

We may be a few years away from having robots at our constant beck and call, but AI has been impacting our lives in subtle ways since a while now. The most known example is Apple's voice recognition system, SIRI. But in reality, AI is present in a lot less obvious way in a number of technologies. Ranging from simple automated bots in computer games, to humbling chess grandmaster losses at the hands of mathematically brilliant supercomputers, all the way till Google's self-driven cars, is proof of one thing- Artificial Intelligence is the next big thing.

The future of AI is bright, with mindboggling inventions expected in the coming years. Next

generation AI systems will possess the ability of breaking the Turing Test (CAPTCHA)-a test created by computers, which no computer till date has been known to pass. Another fascinating research focuses on incorporating all 5 human senses (including smell, taste and touch) into the computing system, taking machine-human interaction to a whole new level. These AI machines are expected to be available to the public in the next 2 years.

However it is a little early to say what the impact of AI will be on our lives. As ground breaking as the potential of AI seems, no technology comes without drawbacks. A number of movies are based on the concept of robots having the ability to think and make decisions, rising up against the human race. They may seem slightly dramatic, but a more probable risk is that of human tampering. It is well known that any publically accessible software or service is vulnerable to being hacked. Now imagine what would happen if Google's self-driven cars are hacked by a terrorist organization. The outcome of such technologies falling into the wrong hands could be catastrophic. Only the future can tell what AI has in store for us.

Will it end us? Will it save us? Or the most probable- obsolete us?

-Mustafa Kapadia
TE I.T.

THE WATER PARADOX

Water, water everywhere but not a drop to drink. Water contamination has excruciatingly alarming statistics not only in India, but all around the world. The water crisis is predicted to become so imperative that it could possibly end up being one of the major reasons for the next world war.

One of the much needed solutions for this aggravating problem is Desalination. Desalination is the removal of salt and other minerals from sea water to make it suitable for human consumption and/or industrial use or simply put, it is the result of common sense that developed over time that enabled us to make use of the ample saline water available in oceans for day to day purposes. While we continue to “praise” our esteemed government officials with their never ending waistline and voracious hunger for perks, some of them have proved time and again that true patriotism and sense of duty still exists in our country. Bhabha Atomic Research Centre (BARC) is a world class research institution endowed with government officials with high expertise in R&D in desalination and water purification technologies, whose study for the same begins right from basic research work to final development and deployment.

To understand what BARC has done lets understand a few concepts. *“The BARC device not only deactivates the micro-organisms but also altogether eliminates them to a factor of >99.99% along with complete removal of turbidity to produce crystal clear water.”*

Multi-Stage Flash Distillation is a technique wherein sea water is heated using heat of condensation of vapour produced and supplemented with external steam. The heated sea water is subsequently flashed in successive stages maintained at decreasing levels of pressure. The vapour produced is condensed and recovered as distilled quality product water and directly used in power plants, process industries and other high purity applications.

The only issue is fuel source, especially in India, as we are major importers of crude oil. BARC tackled this problem by utilization of waste heat as energy input which is one of the most eco-friendly and economically efficient ways to produce desalinated water without chemical pre-treatment of feed seawater. The desalination unit essentially consists of three portions i.e. heater, separator and condenser. In the heater shell, feed sea water enters the bottom of the vertical tubes and partly evaporates by the time it comes out from the top. After water and vapour mixture come out of the tubes, the vapour rises through the vertical shell, enters the horizontal tube bundle kept at the top of the vertical shell and condenses around the tubes (which are cooled by sea water flowing inside) producing desalinated water which is pumped out.

In a nutshell, the waste heat of the Carbon Cycle’s heat source (the fission reactor in this case) can be used to distil water. Hence BARC built Nuclear Desalination Demonstration Plant (NDDP) located at Kalpakkam [off Chennai], Tamil Nadu which is the world’s largest hybrid seawater desalination plant coupled to an existing nuclear power plant, Madras Atomic Power Station (MAPS), and deployed both multi-stage flash (MSF) evaporation and reverse osmosis (RO) membrane separation technologies.

Multi-Stage Flash (MSF) evaporation plant produces 4.5 million litres per day of distilled quality water and Reverse Osmosis (RO) plant produces 1.8 million litres per day of potable-quality water. The desalination plant meets the entire pure water requirement of Madras Atomic Power Station (MAPS). The total capacity of NDDP is 6.3 million litres per day (MLD) with a cost of 6-10 paise per litre (Just putting things into perspective, 10 paise per litre means Bisleri charges us 100 times, the value of water for a single bottle). The BARC device not only deactivates the micro-organisms but also

A niche for research work and innovation has been embedded in us Indians, and as engineers we must harness this natural drive by providing solutions to common problems just like BARC did. Hats-off to our technical heroes and let us never fail as promising engineers to incorporate into our lives, Dr. Kalam's inspiring principle: "I am not handsome but I can give my hand to someone who needs help... Because beauty is required in the heart, not on face..."

-Akhil Subramaniam
TE Chemical



altogether eliminates them to a factor of >99.99% along with complete removal of turbidity to produce crystal clear water. It does not need electricity or addition of any chemicals. The technological know-how has been transferred to various parties and six of them already are doing a good business in the market covering different parts of India.

शिक्षा का सही अर्थ और बदलते संदर्भ

मानव जीवन में शिक्षा का विशेष महत्त्व है। शिक्षा ही तो है जो मानव को यथार्थ रूप में मानव बनाती है। शिक्षा के बिना मनुष्य का जीवन पशु तुल्य हो जाता है। मानव और पशु में यही अंतर है कि मानव शिक्षा के द्वारा ही उन्नति के शिखर पर जा सकता है। मनुष्य जब से जन्म लेता है और जब तक जीता है कुछ ना कुछ सीखता और सिखाता रहता है।

मनुष्य जीवन की सबसे मधुर और सबसे सुनहरी अवस्था विद्यार्थी जीवन ही होती है, विद्यार्थी जीवन ही सारे जीवन की नींव मानी जाती है। एक चतुर कारीगर बहुत ही सावधान तथा प्रयत्नशील रहता है कि उसके द्वारा रची मकान की नींव कमजोर न रह जाए। जब नींव मजबूत होगी तब ही मकान धूप-छाँव, आँधी-तूफान और भूकंप के वेग को सह सकता है। इसी प्रकार शिक्षा ही मानव जीवन के नींव को सुदृढ़ बनाती है।

विद्यार्थी का कर्तव्य है कि वह अपने शरीर, बुद्धि, मस्तिष्क, मन और आत्मा के विकास के लिए पूर्ण यत्न करे। अनुशासन प्रियता, नियमित समय पर काम करना, उदारता, सच्ची मित्रता, पुरूषार्थ, देशभक्ति, विनोद प्रियता ही विद्यार्थी की जीवन में निखार पैदा करती है। विद्यार्थी की कड़ी मेहनत से उसका भविष्य उज्ज्वल हो जाता है। सच्चे विद्यार्थी को अपने जीवन में लक्ष्य पाने के लिए कड़ी मेहनत करनी पड़ती है।

हमारी शिक्षा में नित नए-नए परिवर्तन आते जा रहे हैं। एक समय था कि विद्यार्थियों को शिक्षा प्राप्त करने के लिए गुरु के आश्रम में जाना पड़ता था किंतु आज की शिक्षा पद्धति में यह बात नहीं। आज शिक्षा मात्र धन कमाने का केंद्र बनते जा रही है। यह बात सही है कि हमें शिक्षा में नए-नए परिवर्तन करते रहना चाहिए किंतु हमें इस बात को नहीं भूलना चाहिए कि हमें आधुनिक शिक्षा के साथ-साथ अपनी सभ्यता और संस्कृति को नहीं भूलना चाहिए।

आज बड़े दुर्भाग्य से कहना पड़ता है कि, शिक्षा व्यापार का बड़ा केंद्र बन चुका है। विद्यालय इस केंद्र की इमारत की तरह हो गयी है। आज बच्चे विद्यालय में पढ़ते तो हैं किंतु उनकी पढ़ाई पूरी नहीं हो पाती क्योंकि वहाँ के शिक्षक-शिक्षिकाएँ उन्हें ट्यूशन की शिक्षा देते हैं अर्थात् विद्यालय में फीस जमा करो और फिर ट्यूशन की फीस अदा करो। आज इसी ट्यूशन ने अधिकांश शिक्षक-शिक्षिकाओं को व्यापारी बनाकर रख दिया है।

शिक्षा का प्रथम उद्देश्य बच्चों को एक परिपक्व इन्सान बनाना होता है, ताकी वह कल्पनाशील, वैचारिक रूप से स्वतंत्र बन सके। किंतु भारतीय शिक्षा पद्धति अपने इस उद्देश्य में पूर्ण सफलता नहीं प्राप्त कर सकी है। कारण बहुत सारे हैं। सबसे पहला तो यह कि, नेता तय करते हैं कि बच्चों को क्या पढ़ना चाहिए, जो कुछ शिक्षावादी हैं वो अपने दायरे और विचारधाराओं से बंधे हैं। वे कुछ नया सोचने से डरते हैं। आज शिक्षण में मूलभूत परिवर्तन की जरूरत है।

अभी भी समय है जागो, चेतो और इस बिगडते हुए शिक्षा के सिस्टम को बचा लो, वरना बहुत देर हो जाएगी।

मेरे कुछ सुझाव हैं जिन्हें अमल में लाया जा सकता है -

१. शिक्षा न केवल किताबी ज्ञान बल्कि व्यावहारिक शास्त्र के रूप में प्रदान करना चाहिए ।
२. परीक्षा के प्रारूप और शिक्षा के स्वरूप में परिवर्तन की गुंजाइश है ।
३. कंप्यूटर शिक्षा अनिवार्य कर देनी चाहिए ।
४. बच्चों के मानस और विकास पर विशेष ध्यान देना चाहिए ।
५. शिक्षा के साथ-साथ व्यावसायिक ज्ञान भी दिया जाना चाहिए ।
६. भारतीय संस्कृति और संस्कार की शिक्षा अनिवार्य होनी चाहिए ।
७. स्टूडेंट एक्सचेंज प्रोग्राम को ज्यादा बढ़ावा देना चाहिए ।
८. ग्रामीण शिक्षा को सुधारा जाना आवश्यक है ।

महात्मा गांधी जी ने कहा था कि, शिक्षा यदि पाँच - पच्चीस व्यक्तियों को मिल जाए तो उतना काफी नहीं है। उसे करोड़ों लोगों में फैलाना है । यह कैसे होगा ?

उसके लिए हमें तैयार होना होगा, इसके लिए हमें अपना समय देना होगा । हममें देशपर बलिदान होने की उमंग होनी चाहिए । जोशीले नौजवान बड़ी संख्या में तैयार हो जाए तो दुनिया में ऐसा कोई नहीं है जो हमें रोक सके। यह करने पर भारत आगे बढ़ेगा, तभी हमारा देश इस तेज संसार में प्रकाशित होगा और तभी हम जिसका स्वप्न देख रहे हैं, वह साकार होगा ।

रामसुमेर पाण्डेय
ऑफिस डिपार्टमेंट
थडोमल शहानी इंजिनियरींग कॉलेज.



चिंता से खुशी तक.....

मान लो आप शांत मन से अपने कक्षा में बैठे हो और तभी पता चले की आज आपके परीक्षा का Result आनेवाला है। यह बात सुनते ही आपका हाल काटो तो खून नहीं जैसा हो जाता है। अगले पल ही आपकी टिचर का आगमन होता है। और पूरे लेक्चर में आप केवल अपने Result के बारे में सोचते रहते हैं। सही है ना मित्रों ?

तभी आपकी शिक्षिका का ध्यान आप पर पड़ता है। वे आपको एक सवाल पूछती हैं परंतु आपके कानों पर जू तक नहीं रेंगती। कई बार आपको बुलाने के बाद भी जब आप नहीं सुनते तो दो बातों की संभावनाएँ हैं। या तो आपको बड़ें प्यार से पुछा जाएगा कि क्या बात है ? कोई समस्या है ? कुछ पल्ले नहीं पड़ रहा हो तो बताओ। मैं फिर बता देती हूँ।

अब उनको कौन समझाए कि पल्ले तब पड़े जब ध्यान से सुनी हो उनकी बात। आपका ध्यान तो केवल उस कागज पर अटक गया है जिसे Deadly Result कहते हैं।

दुसरी संभावना यह है कि, आपका Attendance काटकर आपको कक्षा के बाहर का रास्ता बता दिया

जाए। सही मायनो में आप भी यही चाहते थे। Get Out या Leave the Class सुनते ही आप एकाएक अपना बोरीया बिस्तर उठाकर पूर्ण वेग से Ground Floor की तरफ चल पड़ते हैं। पर यह क्या हुआ !!! Result तो लगा ही नहीं है। अब आप और भी चिंता का भाव लेकर Examination Department पहुँच गये। परंतु वहाँ पर भी आपकी बात कोई नहीं सुनता। बड़ी मिन्नतों के बाद जब आपकी बात सर सुनते हैं तो उनका एक ही उत्तर होता है जब आ जाएगा तब Result लगा दिया जाएगा।

इतनी भागा-दौड़ी के बाद भी जब कुछ हाथ नहीं लगता तो निराशा होती है। कुछ लोग ऐसे भी होते हैं तो कुछ न पता चले तो Watchman Uncle पर बरस पड़ते हैं और केवल एक ही बात पुछते रहते हैं - अंकल आपको पता है University से कोई Result लेके आया था ? क्यों नहीं आया ? शायद आपका ध्यान नहीं होगा....

अंत में जब आप मान लो कि आज तो Result नहीं आनेवाला तो आप घर की ओर चल देते हैं। बांद्रा से कुछ दूर पहुँचते ही आपको आपके मित्र का फोन



आता है है - भाई, Result लग गया है !!! आपके पैरों के निचे से मानो ज़मीन ही खिसक जाती है । पता नहीं चलता कि खुश हो कि Result आ गया है या गुस्सा हो कि Result अगर आज लगने ही वाला था तो पहले ही बता देते । Result के Tension मे तो आपने कुछ खाया भी नहीं है । अब क्योंकि आप कॉलेज छोड़ चुके है घर जाने हेतु आप अपने मित्र को फोन करते है । पर आपकी दशा भी महाभारत के कर्ण समान हो गयी है । अनेक समस्याएँ आपके सामने खड़ी हो जाती हैं। आपको नेटवर्क नहीं मिलता, आपके फोन की बॅटरी उतर जाती है । और सबसे विचित्र बात यह होती है कि उस समय संसार के हर व्यक्ति का फोन लगता है परंतु आपके उस मित्र को फोन नहीं लगता । अब केवल एक उपाय है - आप स्वयं जाकर अपना Result देख आए । अधमरे हालत में अब आप दोबारा कॉलेज पहुँचते हैं ।

अब है समय जिसके लिये आप न जाने कितने समय से प्रतीक्षा कर रहे थे । मेरी मानो तो ऐसा लगता है जैसे पूर्ण संसार कुछ क्षणों के लिए थम गया है । आप भगवान का नाम लेकर अपना Result देखने लगते हैं । ऐसे समय हो सकता है कि आप अपना Seat No. भूल जाएँ । आपको अपना नाम न मिले । अंत मे आपको अपना नाम दिख जाता है । और यह क्या आपको तो अपेक्षा से भी ज्यादा Marks मिले है । आप शत प्रतिशत निश्चिंत होने के लिये अपना Result दोबारा चेक करते हैं । और उसके बाद - 'YES' 'WOW' जैसे आनंद के शब्द आपके मुँह से इतने जोर से निकलते है कि 'S.L.' के सारे कबूतर उड़ने लगते हैं । आस पास के लोग आपको पागल या Retarded समझने लगते हैं । अब तो Watchman Uncle भी आपको धक्के मार बाहर निकाल देते हैं ।

सोचिए अगर Result न आता तो आप कितने चिंतित रहते । यह चिंता तो परीक्षा लिखते वक्त होने वाली चिंता से भी दस गुना ज्यादा होती है । परंतु यही तो है जो आपके जीवन में वो THRILL लाती है जिसकी आपको जरूरत है !!!



माधव उपाध्याय

एस.ई. बायोटेक्नोलॉजी

भ्रष्टाचार-एक भस्मासुर

भ्रष्टाचार इस शब्द की उत्पत्ति भ्रष्ट आचार इन शब्दों से हुई है। भ्रष्ट यानी बुरा या बिगड़ा तथा आचार का मतलब है आचरण। भ्रष्टाचार का शाब्दिक अर्थ है, वह आचरण जिसमें बुरा या बिगड़ा काम किया जाए।

भ्रष्टाचार का बोल-बाला आज चारों तरफ फैल गया है। भ्रष्टाचार देखने के लिए कहीं जाने की जरूरत नहीं पड़ती। हमारी दैनिक जिंदगी की शुरूवात ही

सिनेमा हॉल में भी तिकट ब्लैक में बेची जाती है। हाल ही में कुछ दिनों पहले प्याज के रेट बढ़ गए थे। यह सब भ्रष्टाचार की मिसालें हैं। व्यापारी प्याज को छुपाकर रखते हैं और फिर उसकी जरूरत पड़ने पर रेट बढ़ाकर बेचते हैं।

भारत में भ्रष्टाचार करने में नेताओं ने भी कोई कसर नहीं छोड़ी बल्कि सबसे अधिक भ्रष्टाचार तो राजनीति में ही होता है। भारत जैसे राजनैतिक देश में नेता सिर्फ चुनाव के समय ही नजर आते हैं। इन नेताओं के सर शर्म से झुक जाते हैं, जब उनके घर में सी.बी.आई. या पुलिस की रेड पड़ती है। क्योंकि उनके घर में बहुत सारा काला धन बरामद होता है।

भ्रष्टाचार से होती है, सुबह ग्वाले के दूध में पानी की मिलावट, मार्केट में सब्जीवाले का सही वजन न करना आदि..... सब भ्रष्टाचार के ही रूप हैं। आज भारत भ्रष्टाचार में ६७ वें स्थान पर है।

आज भारत का ऐसा कोई क्षेत्र नहीं जो भ्रष्टाचार का शिकार न बना हो। भ्रष्टाचार भारत में तीव्र गति से बिजली की तरह फैल गया है। कार्यालयों में उच्च अधिकारी अपने पद पर आसीन रहकर लगातार भ्रष्टाचार कर रहे हैं। सरकारी कार्यालयों में तो पैसे लिए बगैर कोई काम ही नहीं होता। आज के ज़माने में विद्यालयों के चपरासी से लेकर अस्पताल के डॉक्टर तक भ्रष्टाचारी हो गए हैं।

आज भारत में भ्रष्टाचार इतना फैल गया है कि

आम जनता सोचती है कि, हम इन नेताओं पर भरोसा करके मत देते हैं और आज यह हमें ठग रहे हैं। इंजिनियर भी ब्रीज या घर बनाते समय यह नहीं देखते की सीमेंट अच्छा है या बुरा, उन्हें तो बस अपना काम निपटा देने से मतलब है।

अब आप ही बताईए अखिर कब तक चलेगा भ्रष्टाचार ?

सुयश शिंदे

एफ.ई.केमिकल

मन माझे...

मनास काही वाटून गेले
मनात काही साठून गेले
मन माझे हळुवार नाजूक
अलगद आपण मिटून गेले॥

मनास करूनी जरा गुदगुल्या
मंद जाहल्या धुंद सावल्या,
स्वप्नांच्या दुनियेत अचानक
मळभ कुठूनसे दाटून आले
मन माझे हळुवार नाजूक
अलगद आपण मिटून गेले॥

आसवांच्या सरींमध्ये मन मग चिंब भिजून गेले,
ओल्या त्या मृदंधासवे वाऱ्यामध्ये विरून गेले
मन माझे हळुवार नाजूक
अलगद आपण मिटून गेले॥

रेशीमगाठी गुंफताना मनात झाला बराच गुंता,
उलगडता हर एक वीण ती, त्यातच वेडे गुंतून बसले |
मन माझे हळुवार नाजूक
अलगद आपण मिटून गेले॥

मन माझे हतबल खिन्न
बदलेल का ही स्थिती विषण्ण ?
विश्वास न राहीता कुणावर.....
घाव इतके झाले त्यावर.....
आज एकटे चालताना
सावलीसही भिऊन गेले.....
मन माझे हळुवार नाजूक
अलगद आपण मिटून गेले॥

निखिल ना. पालांडे
(एफ. ई. केमिकल)



काय मागू...?

आकाशाचे सौंदर्य मागू,
की सागराचा आवेग मागू?
बेधुंद सरी अवचित मागू,
की निखळ अशी प्रित मागू?
तुझ्यासाठी काय मागू?

दुःखाचे सावट घेऊन हिरावून,
ती सुखाची पहाट मागू?



की सारून संकटाचे डोंगर,
जीवनाची रेशीमगाठ मागू?
तुझ्यासाठी काय मागू?

हातावर भाग्यरेषा मागू,
की जीवनाच्या नवीन दिशा मागू?
का तुला आणि मला कळेल अशी अबोली भाषा मागू?
उत्साह मनी भारलेला उडून गगनांपाशी सांगु
तुझ्यासाठी काय मागू...की तुझ्याकडून तुलाच मागू?

अक्षय बेलवलकर
(एस. ई. केमिकल)

Picture Courtesy
Jatin Valecha
SE Information Technology



विविध छटांची मुंबई

मुंबई! आमच्या जीवाची मुंबई, इथे जन्मलेल्या आणि बाहेरून येऊन इथे स्थायिक झालेल्या प्रत्येकाच्या हृदयात स्थान असलेली मुंबई. हि मुंबई करकरेची, तेंडुलकरची, मंगेशकरांची, बाळासाहेबांची आणि इथे राहणाऱ्या कोट्यवधी लोकांची. इंग्रजांच्या काळातील “बॉम्बे” आणि आताचं “मुंबई”, फक्त नाव बदललं असलं तरी मुंबईचं महत्व अजूनही टिकून आहे. अगदी मराठी भाषेत सुद्धा मुंबईचं महत्व किती आहे हे ‘जीवाची मुंबई करणं’ या वाकप्रचारावरूनच अधोरेखित होतं. जीवाची मुंबई करणं म्हणजे संधीचं सोनं करणं. तर असं हे संधीचं आणि संधिसाधुंचं शहर.

शहर कसलं मुंबईला एक देश म्हटलं तरी ती अतिशयोक्ति ठरणार नाही. कारण भारतात कुठेही सापडणार नाही इतकी विविधता एकट्या मुंबईत आहे. अगदी तामिळ भाषेपासून ते काश्मिरी भाषेपर्यंत, तर गुजराती पासून ते बंगाली पर्यंत सगळ्या भाषा बोलणारे लोक आपल्याला मुंबईत भेटतात. पण तरीही हे सर्व लोक इथे अगदी आनंदाने व मिळूनमिसळून रहातात. भांडणं जरूर होतात पण जातीय दंगली सारखे प्रकार मुंबईत कधीच घडत नाहीत.

तर अशी हि मुंबई, हिला विसंगतीचं शहर म्हटलं तरी वावगं ठरणार नाही. मुंबईत अतिशय टोलेजंगी इमारती असल्या तरी भारतातील सगळ्यात मोठी झोपडपट्टी मुंबईतच आहे. इथे जगातील बहुतांशी फूड चेन्स असल्या तरी डबेवाल्यांची सेवा मुंबईतच आहे, कारण शेवटी कितीही झालं तरी घरचं अन्न ते घरचं अन्न असतं. इथे लोकांकडे कितीही इम्पोर्टेड व आलिशान गाड्या असल्या तरी भारतातील सर्वोत्तम सार्वजनिक वाहतूक सेवा इथेच आहे. इथे जितके फसवणूक करणारे लोक राहतात त्यापेक्षा अधिक लोक हे इतरांच्या मदतीसाठी धावून येतात. मुंबईत माणुसकी अजूनही पुरती संपलेली नाही. इथे इतरांसाठी आपला जीव देण्यास तयार असलेली तुकाराम ओंबळेंसारखी अनेक माणसे आहेत.

इथे अगदी कितीही दहशतवादी हल्ले झाले तरी इथला माणूस कधीच घाबरून जात नाही, मग ती १९९३ ची मालिका असुदेत कि अगदी २००८ चा दहशतवादी हल्ला असुदेत. स्वाइन फ्लूची अगदी कितीही साथ असली तरी मी एक-दोन लोकांव्यतिरिक्त कोणालाच मास्क लावलेलं बघितलं नाही. आधीच गर्दी एवढी कि पावसाळ्यात तर सगळीकडे साचलेली तळी, त्यामुळे लोकल ट्रेन्स तर नेहमीच आपला जीव टाकतात आणि हे म्हणजे आधीच उल्हास त्यात फाल्गुन मास आणि त्यात होणारे चाकरमान्यांचे हाल हे काही मुंबईला नवीन नाहीत. इथे कोणीच आपण घरी सुखरूप पोहोचू अशी खात्री देऊ शकत नाही. लोकल मधून पडून अनेक लोक आपला जीव गमावतात. तरी मुंबई अविरतपणे धावते आहे. २६ /७ चा प्रसंग आठवला तर आजही काटा येतो. या सर्व आपती मध्ये अनेकांनी आपले प्राण गमावले तरी मुंबई खचली नाही. मुंबईचं स्पिरिट अखंड धावण्याचं.

पर्यटनाचे पण अनेक पर्याय आहेत, राणीची बाग आहे, मरीन लाईन्सचे मनोहारी दृश्य आहे, जुहू चौपाटी आहे, अनेक मॉल आहेत, नेहरू तारांगण आहे, तारापोरवाला मत्स्यालय आहे. जर आपण मुंबई फिरायला गेलो तर एक जन्मपण अपूर्ण पडेल. आणि गणपती उत्सवात तर विचारूच नका, इथे भक्तांचा महासागर उसळतो, लालबागच्या राजाची भव्य मिरवणूक

बघण्याचा आनंद काही औरच आहे. आणि जवळपास सर्व भारतीय चित्रपट सृष्टी हि या मुंबईतच सामावली आहे. मुंबई हा Bollywood चा जणू गाभाच आहे. आणि दूरचित्रवाणी तसेच अनेक कॉर्पोरेट ऑफिसेसची मुख्यालये देखील इथेच आहेत.

काही लोकांनी मुंबईला महाराष्ट्रापासून तोडण्याचा कितीही प्रयत्न केला तरी अजूनसुद्धा मुंबई हि महाराष्ट्र राज्याची राजधानी म्हणून दिमाखात मिरवते आहे. सात बेटांनी जोडून बनलेलं हे शहर उर्वरित महाराष्ट्राशी आपली नाळ जोडून आहे. व्यापारी महत्त्व तर मुंबईला १६व्या शतकापासूनच आहे. इथे बाहेरून अनेक विद्यार्थी ज्ञानार्जन करण्यासाठी येतात. पण हळूहळू मुंबईचा श्वास गुदमरत चालला आहे तिला मुक्त करण्याची गरज आहे आणि त्यासाठी प्रामाणिक प्रयत्नांची. अशी हि मुंबई सतत सर्वांना सामावून घेणारी आणि आसमंताप्रामाणे सतत विस्तारणारी, आमच्या जीवाची मुंबई!

- सर्वेश संदीप सोवनी
(S.E chemical)

लडाख- एक निसर्गरम्य अद्भुत प्रवास

कुठलाही प्रवास करायचा म्हटला की नकळतच आपण त्यात गुंतायला लागतो, स्वप्नरंजन सुरु करतो. पण प्रथमच, मला या प्रवासाचे एक वेगळेच रूप दिसू लागले. सगळंच अद्भुत व त्याची तयारी सुद्धा आगळी वेगळी!!!

त्याची सुरुवात सुद्धा थोडीशी भीती, असंख्य लोकांच्या वेगवेगळ्या सूचना अशा संमिश्र भावनेने झाली. अगदी विमानाची तिकिटे काढण्यात देखिल दुमत होते. तडक लेहला उतरावे की श्रीनगरहून मजल दरमजल करीत जावे, दोन वेगळ्या पण ठाम विचारप्रणाली होत्या. सर्वांना विरळ हवेचे भलतेच टेंशन होते.

मे महिन्याचे दिवस होते. नुकताच सिझन सुरु होत होता. कंट्रीसाईड या आमच्या प्रवास कंपनीने सर्व प्रकारची कल्पना दिली होती. त्यामुळे माझे धैर्य वाढले आणि उत्सुकतासुद्धा!

आम्ही सर्वजण लेह या विमानतळावर मुंबईहून पाच-सहा तासांत पोहचलो. समुद्रसपाटीपासून तडक १०,००० फुटांवर!!! थंडी खूप होती. पटपट गरम कपडे चढवले. १५-२० मिनिटांत हॉटेलवर पोहोचलो. सर्वांचे चेहरे काही मजा करायला आलो आहोत असे वाटत नव्हते. कारण ट्रीप चांगली पार पडण्याची धाकधुक मनात होती. मी त्या मानाने शांत होते कारण विरळ प्राणवायूची (Oxygen) उत्सुकता मला जास्त भावत होती. मला कुठेतरी हे पण बघायचे होते की माणूस हा किती चिचट आहे. तो असंख्य अडचणींवर मात करत पुढे पुढे जात राहतो व आपली संस्कृती टिकवत रहातो. दोन दिवस 'Acclimatise' झाल्यावर (हा शब्द तेव्हा परवलीचा झाला होता) आम्ही पुढे नुब्रा व्हॅलीला (१०,५०० फूट) जाण्यास सज्ज झालो. पण त्यासाठी दिव्य होते. १८,५०० फुटांवर चढून खारडुंगला पास उतरण्याचे जागोजागी बर्फ होते. त्यातून गाडी काढण्यासाठी काही गाडीवाणांच्या टायरला चैन नव्हत्या. त्यांच्यावर कुणीही मुख्य म्हणजे चिडत नव्हते. कारण निसर्गापुढे प्रत्येक लडाखीने मान तुकवली आहे. व त्यामुळे ते सतत एकमेकांना न भांडता मदत करत असतात. हा सुद्धा चांगला बदल आपण शिकायला हवा.

अत्यंत शुभ्र हिमालय जवळून पाहताना मन शुद्ध झाले, एक प्रकारचा स्वभावात बदल वाटायला लागला. कारण हा निसर्ग वेगळाच आहे. हवामान चांगले तर शाळा, कॉलेज, रोजचे व्यवहार चालू! नाहीतर त्याला शरण जावे एवढेच आपल्या हातात! कारण सामानभरून गाड्या श्रीनगरहून फक्त चांगल्या हवामानात येतात, नाहीतर Canned Food, न्यूट्रिला चंक्स, बटाटे, Canned Mushrooms, पनीर!!! कित्येक हॉटेलमध्ये या दिवसांत दूध सुद्धा फक्त सकाळीच मिळते. थंडीत फक्त दूधाची पावडर! त्याचे दूध बनवायचे. हे पाहून आपली जीवनशैली साहजिकच पडताळून बघायला लागते. जरा खुट्टे झाले की बिनसले!! आता हे कुठेतरी बदलायला हवे असे मनोमन वाटू लागले.

आता खडतर प्रवास करून, दीर्घ श्वास घेत आम्ही १८,५०० फुटांवरून खाली नुब्रा व्हॅली उतरलो. नुब्रा व्हॅली म्हणजे निसर्गाची लयलूट! वरती बर्फाच्छादीत शिखरे, खाली वाळू, पाणी! असे हे एकत्रित दृश्य फारच क्वचित बघायला मिळू शकते.

आमचे पुढचे ठिकाण होते पॅगोंग लेक! त्यासाठी परत नुब्रा व्हॅलीतून निघून लेहला येणे व परत दुसऱ्या दिशेने प्रवास करणे. प्रत्येक ठिकाणी पोहोचण्यासाठी ५-६ तासांचा प्रवास ! वळणे वळणे घेत, ऍवोमिन गोळ्या खात लोक प्रवासाचा आनंद मात्र लुटत. बरं विरळ हवेमुळे खाणे-पिणे एकदम कमी! लगेच ताकद येण्यासाठी थोडेसे खावे हा तिथला कानमंत्र! म्हणून सुक्या मेव्याची लयलूट! या हवेत राहण्यासाठीचे हे काही नियम! आपण जास्त धावपळ सुद्धा करू शकत नाही कारण लगेच दम लागतो. पण पॅगोंग लेकचे निलेशार पाणी व सर्वत्र शांतता, आपल्याला देवत्वाची आठवण करून देतात!

लडाख मधील वैशिष्ट्ये म्हणजे बुद्ध धर्माची भक्तीस्थळे! येथील सर्व भिक्षूंच्या चेहऱ्यावरील रिमतहार्य, मला वाटते त्या विषम कठीण वातावरणात राहण्यासाठी अगदी बरोबर! ही भक्तीस्थळे खूप वरच्या बाजूला असतात, या जागी जी आहेत ती तर अशी बांधली आहेत की भूकंप जरी झाला तरी सरळ खाली पडतील. वाकडी तिकडी पडून आजूबाजूला आणखी न्हास होणार नाही. किती दुसऱ्यांचा विचार करतात ना!

मला सर्वात भावलेले ठिकाण म्हणजे फेय! या जागेतील फुंगसूक वांगडू या माणसाने चालवलेली शाळा! (जी आपल्याला ३ इंडियट्स चित्रपटात मोह पाडून टाकते) शालेय शिक्षणाबरोबर त्यांच्या सर्वांगीण विकासावर भर टाकणारी! नुसतेच परीक्षार्थी न राहता सतत प्रायोगिक ज्ञान देऊन या जगात जगण्यासाठी तुम्हाला तयार करणारी! इथे मुलगा १० वीला नापास असला तरी त्याला प्रवेश देतात व अभ्यासाबरोबर त्याच्या इतर ज्ञानात भर घालण्यासाठी सतत मेहनत घेतात. मुले स्वतः आनंदाने सर्व व्यवहार शिकतात. ब्रॅज्युएशन पर्यंत ते मुलांना सांभाळतात व कॉलेजचे शिक्षण झाल्यावर मुले बाहेर पडतात. समाजसेवेचे हे उत्कृष्ट उदाहरण आहे. समाजाचे ऋण परत करण्याची उत्तम पद्धत!!

तर असे हे लेह- लडाख! बी.एस.एन.एल. शिवाय कुठलीही वाहिनी अशक्य! कधी कधी बर्फात कुठलाही संपर्क कठीण , पण जागोजागी भारतीय सेना सेवेसी तत्पर! ते बघून मन भरून येते , अभिमान वाटतो भारतीय असण्याचा!

अशी ही लडाख टूर अगदी रिपरीच्युअल टूर होऊ शकते. आपल्याला खूप काही शिकवते. अंतर्मुख व्हायला लावते.

लडाख हे खरे समुद्रसपाटीपासून उंचीवरचे वाळवंट आहे. पण , तो असा आगळा वेगळा निसर्ग मनाला वेड लावतो, परत परत खुणावतो.

- अंजली किरकिरे

सिंध ऐ सिंधी

वतन जे लाइ जान घोरी पोइ ब थोरी
सिंधयुन जान न घोरी, वतन घोरे आया.

वतन घोरे आया, हाडे रत रोअन
पहिन्जा वरी पसण लाइ तिन जा नेण सिकनि
बेरीयूं, खबर, खजियूं हित गोलिन्दे न मिलन
माण्हू हित बि थियन, पर असांजा के बिया हुआ.

असा जा के बिया हुआ, जिन सा हुआ नीहें
ओसीअड़ा ई उन्हन जा, था रहन रातयां डीह
अखियन सन्दा मीह मुंद न डिसन् महल का.

मुंद न डिसन् महल का, अंदर जू आहूं
मुल्क मोटी वजण जू, बंद थयूं राहूं
से दिलियूं कन दाहूं, वतन वयो जनि हथॉ.

वतन वयो जनि हथॉ, नाहे तिन आराम
कडेहें विसरे कीन की कंहि खाँ पहिन्जो गम
नदियूं हित बि जाम, पर सिंधूअ में को साह थनि .

सिंधूअ में को साह थनि, सिंध भाईनि माउ
पहिन्जा नेठ बि पहिन्जा, धारयन् कहिडो साउ
अहिडो लगे वाउ, हिकडा हित बिया हुति थिया.

हिकडा हित बिया हुति, सिंधी थिया बेई
पर हिकडा सिंधी डेही, बिया थिया परडेही
माण्हू हिकडा ई पर रहिन बिन राजन् में.

रहिन बिन राजन् में, के सिन्धु त के हिन्दु
मिटी जा हिक मुल्क जी, जुडियल तिन जी जिंद
से छा जाणनि सिंध, जेके हिते जम्या.

जेके हिते जम्या, से बि सिंधी सडिबा
सिंधी थी बि सिंध खे डिसण सिकन्दा
धारियनि वांगुर जडहिं सिंध वन्नी डिसन्दा
माण्हू इँ चवन्दा त, “सिंधी आया सिंध डिसण”.

मनीष किशनानी
(बी.इ केमिकल)

जगदीश किशनानी
(स.इ कंप्यूटर साइंस)

चेटीचंड

चेटीचंड असा सिन्धयुन जो वडो डीहु आहे. सिंधी महिनिन में चेट जो महीनो पहिरियो महीनो आहे. सिंधी महीने जी शुरुआत चंड खां थिंदी आहे , चेट जे महीने जो चंड माना चेटी चंड. चेटी चंड खा नओ साल शुरु थिंदो आहे .हिन् डीय ते सिन्धयुन जे इष्ट देव झुलेलाल जो जन्म डीहु पिण् आहे . झूलेलाल या अमर उड़ेरोलाल असा सिंधी हिन्दुन जी रक्षा कई हुई .

सदियु अगे मउसल्मान बादशाह मईर्ख शाह सिंध जे सभइन हिन्दू सिंधीयन खे इस्लाम कबुल करण लाए मजबूर कयो. तदेह सभीन सिंधयुन दरिया शाह जे किनारे ते वन्नी भगवान दर वेनती कई, तदेह दरिया शाह माँ आवाज आयो त माँ तवहाँजे रक्षा लाए जल्द ही रतन शाह जे घर जन्म वठंदुस. इय असांजे झूलेलाल जो जन्म थयो.

असानजे इष्ट देवता झूलेलाल राजा मिरिख शाह खे टोटा चबाया.झूलेलाल जे करामत्न खे डिसी मिरिख शाह हैरान थी वियो. ऐ झूलेलाल खे अची पेरे प्यो ऐ सभिनि सिन्धीन खे परेशान करण बंद कयाई ऐ झूलेलाल खा माफ़ी वरताई. तदेह हिन डीह् जी असा सिन्धीन लाये वड़ी अहिम्यत आहे.सिन्धयुन जो नओ साल चेटीचंद्र खा शुरु थीन्दो आहे.

असा सब सिंधी हिन् डिह ते झूलेलाल जे मंदिर में वेंदा आहियु. भगवान जी अस्तुति कन्दा आहियु ऐ दरिया शाह ते अखो चाडीन्दाआंयु ऐ वरुण देवता झूलेलाल जा पंजरा गाइनदा आहियु.जे असानजे धर्म जी रक्षा कई . हिन् डीय ते सिंधी पहिंजे घर में मीठो खादों जरूर खाईदा आहिन .

इहा सिंधयुन जी मान्यता आहे त मिठो खाईनदासी सभिन सा मिठो गाल्हाइंदासी ऐ नए साल जी शुरुआत सभिनि सा सुठे व्यवहार सां कनदासी.

जय झूलेलाल !

लाल जा जाती चयो सभई झूलेलाल !



प्रोफ. रूही बजाज
(कंप्यूटरसाइंसडिपार्टमेंट)
मिनाक्षी कुमार सुखेजा

बारन जो डोह कोने

अजकल जितेभू एं जैहडे भी हंद सिंधी गाल्हायणजी गाल निकरंदी आहे, त उतेह् मौजूद सज्जण माँ, घणो तैदात ऐडं शख्स जो आहे, जेको शिकायत कन्दा आहेन, त बाहरन के घडोही ता चयूं, पर बार सिंधी गाल्हायण ही नथा, कन त बाहरन के घणोही ता समझायु त सिंधी गाल्हायण जरूरी आहे, पर बार मन्न ही नथा.

हुन जे मथा मायट्रन जो इय चवण सही हुँदो आहे, पर गहराइसा सोचण्ड ते, बारन खे डोह देयण्ड, न रूगो अजाओ आहे, पर गैरवाजबि भी लग्नदो आहे.

हकीकत में अज घणो अंदाज ऐडं मायट्रन जो आहे, जेके न पाण बारन सा सिंधी में गाल्हायण ता ऐं न वरी एओ पसंद आहे त सनदस बार सिंधी में गालाए .

पहिजे हिन् मानसिक कमजोरी के लिकायुण्ड लाए हि घणा मायट्र बारन ते ईहा डोह मणता के बार सिंधी न था गालायन .

मायट्रन खास करे पड़यल मायट्रन जे करे सिंधी गालायन लाये ऐहडे रुख जो हिख कारण आहे उहा अधो गाब्रि जाण त सिंधी गाल्हायण सब्ब सनदस बार अंग्रेजी या हिन्दीय में कमजोर रहजी वेंदो .

ऐडे किस्म जो भूम फैलैण्ड में अंग्रेजी माध्यम जे स्कूलन ऐ अंग्रेजी पाठिंदा मास्टरन जो हथ रहिओ आहे . हकीकत हिय आहे के नण्डा उम्रन जो बार पहिजी भाषा या मातृभाषा बिना सेखारण जे गाल्हायण सिखी वेंदो आहे.

ऐ पेहजी भाषा जो सुठो इस्तमाल खेस बियन भाषा के सिखण में मद्दगार थिंदो आहे.

उनवारे जे मायट्रन नंडा बारन सा सिंधी में गाल्हायण, त बार खुद व् खुद सिंधी गालायिन ऐ खेन इय चवण जी जरूरत न पवंदि त “सिंधी गाल्हायण सिखो” .

पर मायट्रे नंडे बारन सा सिंधी गाल्हायण जे भद्रा जवान पदण्ड बारन खे रूगो जबानी जमा या खर्च जे रूप में सिंधी गालायन जी सलाह डीनदा आहेन.

इंकरे बारन खे नण्डे खाही सिंधी में गालायन ऐ मातृभाषा सेखारण जरूरी आहे . एड़ी आशा आहे .

अंशुल वलेचा
(टी. इ. बायोटेक्नोलॉजी)



ENTREPRENAURIAL FOCUS

InstaDev Private Limited is an edutech start-up, founded in 2016 by Devansh Lala (A final year Computer Engineering student of TSEC). He is the sole founder and CEO of the company.

In the words of Devarsh:

Our first product is 'Acadnion-your academic companion'. It reduces the communication gap between the 3 stakeholders of academics: students, teachers and parents. Acadnion acts as an enabler for for all 3, and allows them to perform their daily activities related to education on the platform itself. Acadnion provides students and teachers with curated content, resources and courses. It also enables students and teachers to work together in a community to help each other out and work quickly. Acadnion allows parents to work with teachers and students and at the same time ensures that all parties are comfortable and happy with each other's involvement. The product goes live in November. It ensures that all the activities that people could possibly need are dealt with on one platform.

Our website will be the first medium for the Acadnion platform and for the people to know more about us and to interact with us. Our app and tablet OS will be released in 2017.

Our team consists of 8 employees with 3 interns. InstaDev is funded by Young Ideas Ventures Private Limited. They see potential in our vision.

We aim to show everyone the role that technology plays in education and how it can make studying easier and more effective.

Our offices are located in Andheri (West) and Bandra (West). Within 5 months of operation, we also got the status of a profitable startup because of our business module, which involves IT services and solutions.

Here is where you can reach out to us:

Facebook: <https://m.facebook.com/acadnion/>

Instagram: @official_acadnion

LinkedIn: <https://www.linkedin.com/company/instadev>

-Team InstaDev

B.E. Projects

Designing and Implementing a Working Prototype of a Hemodialysis Machine

Bhavna Kanāpal, Asiya Ansari, Pooja Hedge
Guide: Prof. Tanvir Daphedar

In the day to day life, one in 10 people usually suffers from renal disorders. Choosing the right treatment option can be very difficult. This decision needs to be guided by your personal lifestyle, support at home and any other illnesses. Each type of treatment has its benefits and points to think about before one makes a decision. Therefore information, advice and guidance to decide the treatment can best be given by actual, scaled down and easy to understand models. This prototype of a Hemodialysis machine has been developed for people with CKD to: a) Explain Hemodialysis treatment b) To know the benefits and points to think about when considering Hemodialysis c) Explain possible complications of Hemodialysis. It is designed keeping in mind the principle of Hemodialysis, cost factor, functions, purpose and efficiency of the machine. Thus this prototype will be helpful in explaining to the doctors, medical students and common man about the internal working of the machine in detail.

Through this project, we have been able to create a prototype model that is capable of controlling the flow rate by controlling the speed of the pumping motor, monitoring and maintaining the temperature of liquid flowing through the dialyzer, and displaying all values of flow rate and temperatures on LCD.

We would like to express our gratitude to Prof. Tanvir Daphedar for guiding us throughout the year to enable the completion of the project and Mr. Hatim Saifee (Engineer, RnD Department, Imaginarium (I) Pvt. Ltd) for providing inputs to our project time and again.



Social Commute Sharing: An Android Application

Oshina Lalwani, Kiran Panchal, Saddam Pojee

Guide: Prof. Sanjay Pandey

An Android Application to enable employees, students, and other travelers share commute with friends and strangers. Get your potential commute partner by knowing people who are in 10 km radius and travelling at the moment. Chat with them through the App and request to get a ride. All this without knowing their exact location (privacy). The application is built-in with advanced SMS-based security feature that alarms your well-wishers and police of potential problems during the ride in case of emergency. It sends your current GPS location, map link and vehicle number to help in the look-out. Thorough testing was carried out after which the application was developed and is in a working state.

Smart Helmet System

Gunpradh Chadha, Brij Kanodia, Vishal Lakhani

Guide: Prof. K.Y. Rajput

There is not a single day when we don't read of vehicular accidents. Most of the fatalities in these accidents are of bikers.

The project is an add-on designed to make two-wheeler rides much safer. The project has accident prevention and a post-accident help system. Since most accidents happen due to drinking and driving, the system has an alcohol detector. If alcohol is present it cuts off the ignition of the bike. The bike also doesn't turn on if the helmet is not worn. There is a pre decided speed limit over which if a biker tries to ride, a message is sent to the traffic police, giving away the exact GPS coordinates. In case an accident occurs, the coordinates of the biker's location can be sent to the emergency services to dispatch an ambulance. This saves time to track the accident victim.

We were glad to have Prof. K.Y. Rajput as our guide, who gave us total creative freedom in executing and helping us in formulating our thoughts into reality.





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B.E. Computers (C2)



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B. E. Information Technology (B1)



B. E. Information Technology (B2)



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Sports Committee



Sports Contingent



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Special thanks to

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