



CITY OF *Celebrations*

WHAT'S INSIDE

A CITY REKINDLED

YUVAAN

CONVOCATION

NFEST

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FROM THE DESK OF THE VICE CHANCELLOR



Delhi Technological University has for long been home to the best minds in the field of Engineering. In December the University awarded degrees to the Class of 2017, as DTU organised its 4th Convocation Ceremony, graced by the presence of **Mr. Anil Baijal**, *Hon'ble Chancellor*, **Mr. Manish Sisodia**, *Hon'ble Deputy Chief Minister of Delhi* and Padma Vibhushan **Mr. E. Sreedharan**. 'Because The Sky is the Limit', a book on DCE alumni written by Mr. Vinit K. Bansal, was also launched for all to gain knowledge of the glorious legacy of DTU.

The even semester is marked by a number of technical and cultural festivals organised by our students. The second edition of Yuvaan, the literary fest of DTU, was marked by inspiring talks and performances by some of the leading names in the world of literature. I hope that Yuvaan has helped our students broaden their knowledge and helped in stimulating creativity among them.

In order to foster a better environment of research, the University hosted a number of conferences, attended by the best from the world of academia and industry. The First International Conference on New Frontiers in Engineering, Science & Technology witnessed keynote speeches and presentations by researchers from around the world. Seminars by reputed professors throughout the year encourage students to delve deeper into their fields and gain knowledge about newer advances in the world of Engineering and technology.

This semester also witnessed the introduction of the automated attendance system across the University, developed by our own students. The system has received a heartening response from across DTU, and I hope it is successful in encouraging a healthier academic atmosphere on campus.

Engifest, the annual cultural fest of DTU, has grown over the years to become the biggest of North India. Performers and competitors from a variety of fields visit DTU every year, and add greater charm to the spectacle.

As I bid you a gratifying time during Engifest, it is pertinent for me to appraise all students of the importance of utilising time to its fullest. While one must never forget to have fun and make lasting bonds, it is also important to not lose sight of one's goals.

-Prof. Yogesh Singh

CONVOCATION

"Success isn't just about what you accomplish in your life; it's about what you inspire others to do."

The graduates of the Batch of 2017 gathered one last time at their alma mater, as they were conferred their respective degrees at the 4th Convocation of DTU.

The Convocation ceremony was presided over by Mr. Anil Bajjal, Hon'ble Chancellor in the presence of Mr. Manish Sisodia, Deputy Chief Minister of Delhi, Prof. Yogesh Singh, Hon'ble Vice-Chancellor and the Chief Guest Padma Vibhushan Mr. E. Sreedharan.

The Vice Chancellor presented the Report of the University for the year 2016-17 and highlighted the achievements of the University, even as he urged all degree recipients to always remember their responsibility towards the Nation. While Mr. Manish Sisodia advised the students to develop new technologies, the Hon'ble Chancellor emphasized on achieving a balance between innovation and ethics. Mr. E. Sreedharan focussed on the importance of health and good character.

The Convocation also saw the release of 'Because the Sky is the Limit', a book by Mr. Vinit K. Bansal, which chronicles the life and journeys of a number of successful DTU Alumni. The book was released by the Hon'ble Chancellor

GOLDEN PRIDE DINNER

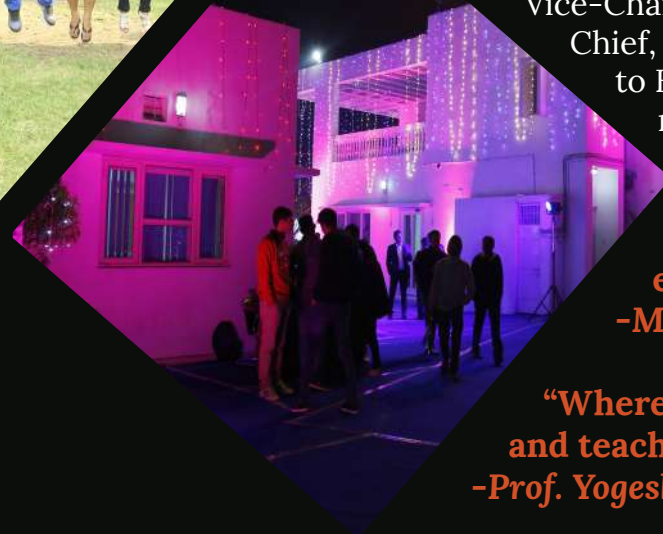
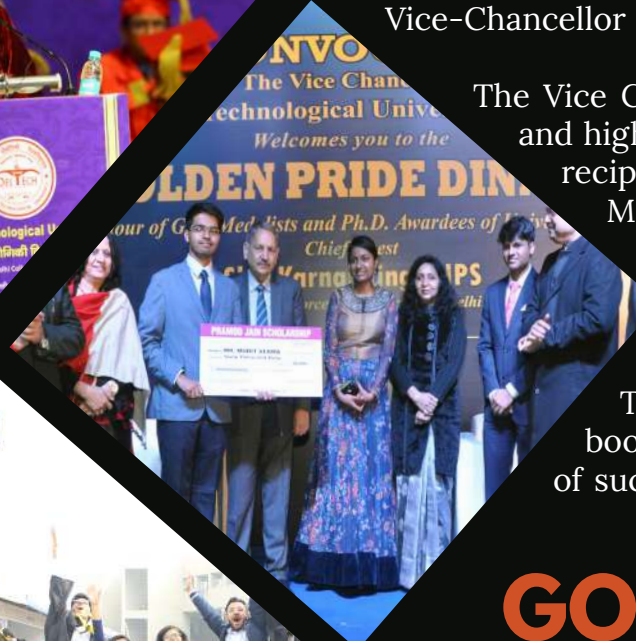
The Golden Pride dinner was held on the evening of 14th December at the Vice Chancellor's Residence. Gold Medallists in the B.Tech., M.Tech. and M.B.A. programmes and Ph.D. awardees were felicitated in the presence of the Hon'ble Vice-Chancellor Prof. Yogesh Singh and Chief Guest Mr. Karnal Singh, IPS, and Chief, Enforcement Directorate. The Chancellor Gold Medal was awarded to Kanika Deoli (B.Tech.) and Preeti Nagar (M.Tech.) The dignitaries and medallists addressed the gathering with the stories of their respective journeys.

"A person is bound to be more successful in his career, if he's emotionally intelligent."
-Mr. Karnal Singh, IPS

"Wherever DTU is today, is because of the hard work of its students and teachers."
-Prof. Yogesh Singh

DEGREES AWARDED

Ph.D. - 52
Executive MBA - 16
MBA - 54
M.Tech. - 312
B.Tech. - 1521
B.Tech. (Eve.) - 142



ebulletin

App - Based Attendance

The University administration has introduced an automated system to maintain the attendance of all the students from January. The attendance system enables accurate recording of the presence of students, via Bluetooth. Students can monitor their attendance in real time using this mobile application.

DTU-SA Achievements

The DTU Student Association has constantly been working for the betterment of students at DTU. Barcoded identity cards and a night bus service ferrying students from campus to Rithala Metro Station have also been launched for the safe commute of B.Tech. (Eve.) students. In the spirit of the Clean India Mission, a Swacchta Abhiyan was organised in campus by the SA, which saw enthusiastic participation from students. A friendly cricket match was also organised between the faculty members and the students in association with DTU Sports council.



GLOGIFT 17

Delhi School of Management, DTU organised the Seventeenth Global Conference on Flexible Systems Management (GLOGIFT 17), in December, 2017, on the theme-Transforming Organizations through Flexible Systems Management. The welcome address was delivered by Professor P.K.Suri, Former President GIFT and Professor, Delhi School of Management. The presidential address was given by Dr. D.K.Likhi, Chairman & Managing Director, MIDHANI. The 'FLEXIBILITY EXCELLENCE AWARD' was conferred upon Prof. Henk W. Volberda, Rotterdam School of Management, Netherlands - in absentia by Prof. Yogesh Singh, Vice Chancellor, DTU. The conference ended with the vote of thanks by Professor Rajan Yadav, Head, Delhi School of Management.

XIX International Conference

Delhi School of Management, Delhi Technological University and the Delhi School of Professional Studies and Research hosted the XIX Annual International Conference on 'Managing Digital Revolution Inventing Future India' in January, 2018, in collaboration with Sri Aurobindo College (E), University of Delhi, Divine International Group of Institutions and Rotary Club of Delhi Maurya.

Republic Day Celebrations

The 69th Republic Day was celebrated at DTU with great zeal and patriotism. The celebrations began with the hoisting of the Indian National Flag by the Honourable Vice Chancellor. It was followed by song and dance performances from Madhurima and Nrityangana.



Central Library

Central Library, DTU organised a workshop on the e-lib 4 u in January, 2018. The workshop discussed at length several features of the latest platform, including the easy access to e-books and e-journals on a variety of subjects. The Central Library also conducted a workshop on EBSCO Discovery Service in December, 2017. This service provides the most comprehensive collection of content within an unparalleled interface.



National Workshop

The Department of Mechanical, Automotive and Production & Industrial Engineering, DTU organised a National Workshop on "Recent Advances in Alternative Energy Sources" in January, 2018. The Chairman of the workshop was Prof. Vipin, HOD, Department of Mechanical Engineering, DTU. It was convened by Prof. Amit Pal, Department of Mechanical Engineering, DTU and Prof. Raj Kumar Singh, Department of Mechanical Engineering, DTU while Dr. Girish Kumar, Assistant Professor, Department of Mechanical Engineering, DTU and Sh. M. Zunaid, Assistant Professor, Department of Mechanical Engineering, DTU were the organising secretaries. The topics covered in the workshop ranged from biomass, biofuels and solar energy to alternate cleaner fuels like LPG and CNG.

Invictus - The Annual Techfest

All technical societies of DTU organised Invictus-The Annual Techfest, in February, 2018. This was the first instance of a joint technical fest being organised at DTU, under the newly-formed Technical Council comprising representatives from all technical societies.



DEPTH Lecture

The DelTech Engineering Physics Technical Hub, Department of Applied Physics, DTU organised a lecture by Prof. Mahendra Sunkara, Director, Conn Centre for Renewable Energy Research, and Professor of Chemical Engineering, University of Louisville, USA. The lecture was conducted in February, 2018, on the topic 'Low Pressure and Atmospheric Pressure Plasma Interactions with Molten Metals and Liquid Droplets for Materials Processing'.

One Year of USIP

Delhi Technological University launched the University Students Internship Program (USIP) to engage students in various activities of the university in December, 2016. The program gives an opportunity to university students to contribute to the work of the university. Prof. Neeta Pandey, Department of Electronics and Communication Engineering, DTU heads the program as the university coordinator. Vasudev Grover and Vishwas Gosain from the ECE department are the student coordinators. The initiatives carried out under the USIP included website development and updating, database for publications, development of attendance software and many other activities.

GIAN

The Department of Electrical Engineering, DTU organised an MHRD-sponsored GIAN Course on "Smart Power Flow Controller for Smart Grid Applications" in December, 2017. Prof. Yogesh Singh, Vice Chancellor, DTU was the patron. Prof. Suman Bhowmick and Mr. Kuldeep Singh, Asst. Professors, Department of Electrical Engineering, DTU served as the local coordinators for the GIAN Course. Dr. Kalyan Sen, Chief Technology Officer, Sen Engineering Solutions Inc. was the instructor for the course. 'Smart Grid' is an initiative to modernize the existing electric power system, and is envisioned to integrate necessary devices for its most efficient and reliable operation.



The Department of Electrical Engineering, DTU organised a GIAN course on "Recent trends in Protection of Microgrids with high DER penetration: Issues, Challenges and Mitigation" in February, 2018. Prof. Yogesh Singh, Vice Chancellor, DTU was the patron. Dr. Rachana Garg, Professor, Department of Electrical Engineering, DTU and Dr. Priya Mahajan, Associate Professor, Department of Electrical Engineering, DTU served as the course coordinators. Dr. Madhusudan Singh, Dean Academics (UG) and Professor, Department of Electrical Engineering, DTU was the local coordinator. Dr. Mukesh Nagpal, Senior Member and Lecturer, IEEE Power and Energy Society, Adjunct Professor at University of British Columbia, Vancouver, BC was the instructor for the course. 'Microgrids' comprise of low voltage distribution systems with distributed energy resources (DER). Though microgrids provide clear economic and environmental benefits, they present challenges to the utility from protection, control, and dispatch perspectives.



The Department of Electronics and Communication Engineering, DTU organised a GIAN course on "Intelligent Transportation Systems" in November 2017. Prof. Yogesh Singh, Vice Chancellor, DTU was the Chief Guest for the course. Prof. Miguel Ángel Sotelo, Department of Computer Engineering University of Alcalá, Spain was the Guest of Honor. Dr. S Indu, Head of Department, Department of Electronics & Communication Engineering and Dr. N S Raghava, Professor, Department of Electronics & Communication Engineering, DTU served as the course coordinators. Dr. Madhusudan Singh, Dean Academics (UG) and Professor, Department of Electrical Engineering, DTU was the local coordinator.



NFEST 2018

The 1st International Conference on New Frontiers in Engineering, Science & Technology (NFEST-2018) was organised by the Society for Fusion of Science and Technology from 9th to 12th January, 2018. NFEST-2018 aimed to provide opportunities to authors to share their expertise with renowned scientists, researchers, leading industrialists and scholars and help them expand their horizon. The conference was directed upon promoting synergetic partnership between academia and industry and showcasing the growth of technology developed in recent times.

The conference witnessed 21 distinguished keynote speakers of various nationalities and received over 500 participants from 22 countries. It was chaired by Prof. Naveen Kumar, Professor, Mechanical Engineering Department, DTU, and co-chaired by Prof. Vikas Rastogi, Professor, Mechanical Engineering Department, DTU. Key support was provided by the patrons of the conference, namely Prof. Yogesh Singh, Vice Chancellor, DTU, Padma Shri Dr. Satish Kumar, Director, NIT Kurukshetra, Prof. Vinay Pathak, Vice Chancellor, AKTU, Prof. Dinesh Kumar, Vice Chancellor, YMCAUST and CA Santosh Gupta, Co-Founder Trustee, SRCEM Palwal.

A cultural programme was organised after the first day of presentations. The second day culminated with the Valedictory Ceremony and Prize Distribution. The foreign delegates and keynote speakers were also given a tour of Agra and a local tour of Delhi.

DTU Times interviewed Mr. Alex Punset, Senior Project Manager at AVL, who was in DTU as a keynote speaker at NFEST 2018.

How important is the field of vehicle and engine testing in a time when mechanical failure accounts for most road accidents, and what challenges does it face?

The main motive is to cover a wide range of disciplines and dynamics. So, when you analyse safety it segregates into two parts, passive safety, which is resistance to crash and the dynamic safety which concerns all the cars that can be maneuvered and controlled through power testing. But now, the challenge comes in having multi-disciplinary testing and understanding how the different disciplines interact with each other. These accidents, thus need prevention and mitigation. Prevention includes static safety and dynamics come into use when you are mitigating the accidents. Hence, testing is very important for safety but the challenge lies in having multiple disciplinary testings.

How has the testing field prepared itself to work with the new breed of AI-driven modern cars?

The utility, uses, and benefits of the Artificial Intelligence are unquestionable. It will help in solving

traffic, safety, and multiple other problems. The question at hand is how to develop this! It is not something far-fetched but something already being done, we just need to project it effectively in the future to extensively pass it through test programs with various regulatory processes. And governments need to take a step forward in the right direction to ensure safety and development in this field.

Being an MBA postgraduate and an Engineering undergraduate, how much value do you think an MBA degree adds to an Engineer?

I think it is really important, especially for technical careers to get complimented by MBA. In the corporate world, customer satisfaction is the key. You cannot do your tasks and not think about what projection or impact it would have on the customers. Management brings you that customer orientation which actually adds value, to your Engineering. So, MBA has been a big asset in my career, and I would encourage everybody to pursue it.



“It is really important for technical careers to get complimented by MBA.”

UNIVERSITY NEWS Yuvaan



DTU TIMES

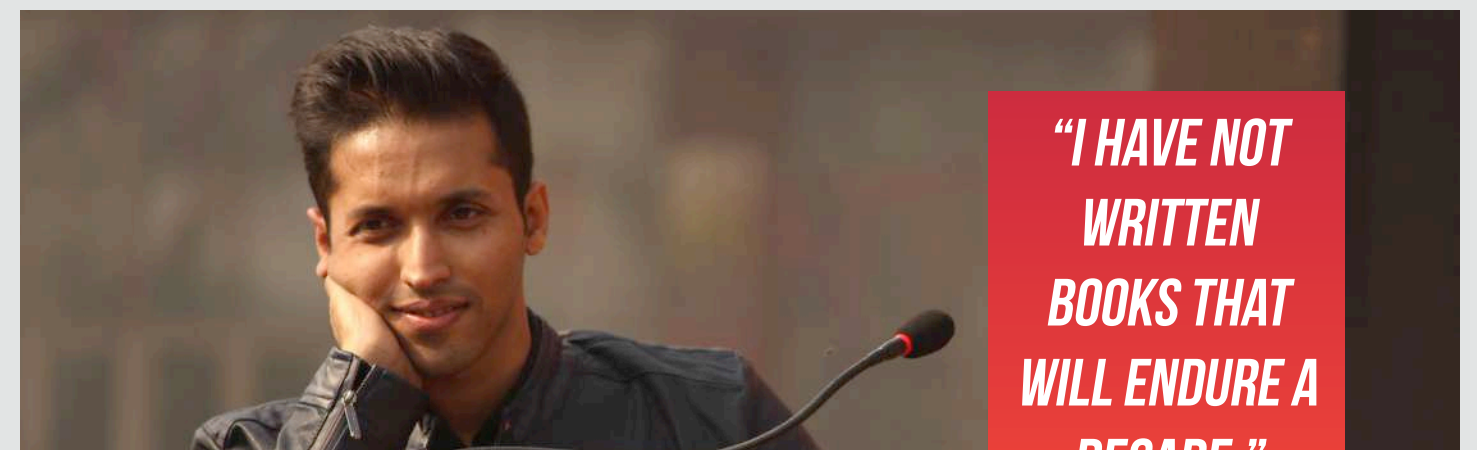
Delhi Technological University celebrated the second edition of its literary fest- **Yuvaan** on the 18th and 19th of January 2018. The two day-long celebrations began with a formal inauguration ceremony held on 17th January in the Dr. B.R. Ambedkar Auditorium. The occasion was graced by **Dr. Sachchidanand Joshi** as Chief Guest along with **Prof. Yogesh Singh, Hon'ble Vice Chancellor**. The occasion began with the lighting of the lamp followed by a play performed by the **Swang Folk Art Academy**.

The second day of Yuvaan started off with a panel discussion comprising media personalities **Arshdeep Kaur** and **Balwinder Singh**, organised at the OAT. The discussion revolved around life in the journalism field and the prerequisites for becoming a respectable media professional. The next event- *UnErased Poetry*, saw widely acclaimed poets including **Ramneek Singh, Simar Singh** and **Yahya Bootwala** present their work before a packed OAT. The evening saw young comedians from the Delhi circuit perform in the Auditorium, and the day ended with the much-awaited *DJ Night* at the Transit Ground.



The final day of Yuvaan'18 began with an interactive session by DCE alumnus and bestselling author **Mr. Durjoy Dutta**, who reminisced about his Engineering days and shared interesting anecdotes from his time here. Next in line, *Guftagoo*- An Open Mic Event witnessed the powerful poetry of **Diksha Bijlani**. The admired poetess brought to the forefront important social issues through her poetry. The crowd was then mesmerized by the trickery of up-and-coming magician and mind reader **Poshak Dua**. The fest concluded with an enchanting performance by the **Nizami Brothers**.

Yuvaan' 18 also included a myriad of activities, ranging from the old-fashioned debates to several modern day events under the informal category.



"I HAVE NOT WRITTEN BOOKS THAT WILL ENDURE A DECADE."

DTU Times interviewed DCE alumnus and bestselling author **Durjoy Datta**, who was in DTU for Yuvaan 2018.

How did your time at DTU affect your style of writing?

DTU gave me a lot of time to read. I had a lot of time to reflect about what I wanted to do in life, which is why I became a writer. Before I joined DTU I was very sheltered and nobody knew my school or where I was from, but after coming here I interacted with various people, and that inspired me to write about characters that were not in my immediate surroundings. When you are in DTU you are assured that at the end of four years you will be placed, so students can try different things.

Who do you think your average reader is?

It's very difficult for me to outline my average reader but I have been told that my books are the first ones that many young readers prefer, after which they develop their interests and move onto other genres such as thrillers

or literary fiction. I have also heard of a lot of people in their late 20s or early 30s who are religious followers of my books.

What is the worst review you have received, and how do you handle such criticism?

A lot of people tell me that I should stop writing, comparing me to a cancer for the publishing industry and I think these comments are inevitable. Looking at examples such as Titanic or Coldplay, I believe that once something attains enough popularity, people start finding faults with it. Although I do believe my books are not highbrow, I also know that the only test of anything being literary is that it should endure. I am very sure I have not written books that will endure after a decade. I take all criticism positively and enjoy writing, and will continue to do so in the future.



Entrepreneurship Summit

E-Cell DTU organised the Entrepreneurship Summit in February 2018. The three-day summit, aimed at providing a platform for aspiring entrepreneurs, kick-started with Leadership Lectures by prominent leaders from around the globe. **Didier Rappaport**, CEO, Happn and Co-founder, Dailymotion was the keynote speaker. The event was also graced by the inspiring speeches of Anurag Batra, Chairman and Editor in Chief, Business World, Prof. Abhas Mitra, Homi Bhabha National Science Institute, Sarbvir Singh, Managing Director, Network 18 and Sanjay Modi, Managing Director, Monster.com. The first day ended with a comedy evening by stand-up comedian Abhishek Upmanyu.

A B-Plan competition was held on the second day, where participants displayed their innovative startup ideas. A masterclass, led by HRs from leading companies was also held, to help students in building their ideal CV.

The event concluded on Day 3 with the Startup Internship Fair, which gave students the opportunity to bag internships from some of the most promising startups from across the country.



Esperanza 2017

"There are no rules for good photographs - there are only good photographs."

The saying stands after this year's edition of Esperanza - the annual winter photography fest organised by DTU Times. Advancing the legacy of previous years' contests, Esperanza 2017 acquired a commendable amount of competition amongst the contenders. The camera is as good as the person behind it is, and providing a platform to showcase people's abilities is what Esperanza is about. The online winter photo fest of Delhi Technological University attracted hundreds of submissions. These entries were captured by a multitude of students from diverse institutes from all over the country. Be it a fledgling photographer, a diversified master of the lenses, or anyone in between - Esperanza provided a rewarding platform to showcase photographic talent.

Winners

- 1st Prize - Sourav Kumar, DTU
- 2nd Prize - Naman Garg, Kasturi Ram College of Higher Education
- 3rd Prize - Siddhanth Chaudary, DTU

Faculty News

Awards, Honours, Conferences

Prof. Jai Gopal Sharma, HOD, Dept. of Biotechnology

- Organizer, 'Biotechnology Ignition Grant Scheme for Innovators and Entrepreneurs'
- His PhD student, Mr. Neelesh Kumar, selected for 'Innovation in Science Pursuit for Inspired Research' JRF-ship from Department of Science & Technology

Prof. S. Indu, HOD, Dept. of Electronics and Communication Engineering

- Reviewer, IET Microwaves, Antennas and Propagation Journal
- Editorial member of Journal of Multidisciplinary Technologies
- Coordinator, GIAN Course on "Intelligent transportation Systems"
- Delivered an expert talk on "Introduction to Signal Processing" in the AICTE Sponsored Two Weeks Faculty Development Programme on "Signal & Image Processing: Issues, Challenges & Techniques" at Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Sonapat
- Presented 'Local Enhancement of SLIC Segmented Underwater Images using Gray World based Algorithm,' and 'Underwater Fish Species Classification using Convolutional Neural Network and Deep Learning,' ICAPR, ISI Bangalore

Prof. Suresh C. Sharma, HOD, Dept. of Applied Physics

- Speaker, Asia Pacific Conference on Plasma Physics on 'Controlled Growth and Field Emission Properties of Plasma Grown Graphene Sheet via Nitrogen Doping,' Chengdu, China
- Attendee, 'Shodh Shiksha Sameeksha,' Inter-University Centre for Astronomy and Astrophysics, Pune

Prof. A. S. Rao, Dept. of Applied Physics

- Major research project on 'Studies on Novel Visible Upconversion Luminescent Rare Earth doped Nanophosphors for Bio-Photonic Applications' sanctioned by DST-SERB
- Speaker, 'Role of Upconversion Nanophosphors in Biophotonics Applications,' National Conference, K L University, Andhra Pradesh

Prof. Amit Pal, Dept. of Mechanical Engineering

- Organizer, 'Recent Advances in Alternative Energy Sources'

Prof. (Col) K. C. Tiwari, Dept. of Civil Engineering

- Awarded National Geospatial Chair for three years by Department of Science and Technology

Prof. R. C. Singh, Dept. of Mechanical Engineering

- Organising Secretary, NFEST, DTU

Dr. C. P. Singh, Assoc. Prof., Dept. of Applied Mathematics



- Speaker, 'Exploring the possibility of bulk viscosity as a candidate of dark energy,' National Conference on Differential Geometry and General Relativity, Sardar Patel University, Gujarat
- His Ph.D student, Ms. Milan Srivastava, received 'Best paper presentation award' on the topic "Viscous Cosmology in New Holographic Dark Energy Model" in 'National Conference on Differential Geometry and General Relativity, Sardar Patel University, Gujarat

Dr. Vijay Gautam, Assoc. Prof., Dept. of Mechanical Engineering

- Co-convenor, ICAPIE, DTU
- Coordinator for Faculty Development Program, 'Advances in Manufacturing and Operations Management'

Ms. Indu Singh, Asst. Prof., Dept. of Computer Engineering

- Presented 'Breast Cancer diagnosis using Genetically Selected Features and SVM Kernel,' IEEE International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing, Tamil Nadu

Ms. Kriti Suneja, Asst. Prof., Dept. of Electronics and Communication Engineering

- Organizer, MHRD sponsored one week GIAN course on "Intelligent Transportation Systems," Department of Electronics and Communication Engineering, DTU

Dr. M. Jayasimhadri, Asst. Prof., Dept. of Applied Physics

- Attendee, 'Recent Advances in Alternative Energy Sources,' at Dept. of Mechanical Engineering, DTU
- Presented research work related to the paper 'Dy³⁺ doped P2O₅-ZnO-Li₂O-Bi₂O₃ glasses for N-UV based warm W-LEDs,' 26th DAE-BRNS National Laser Symposium, BARC, Mumbai

Dr. Meha Joshi, Asst. Prof., Delhi School of Management

- Certificate of honour awarded in recognition of the outstanding contribution through innovation and inspiration to achieve educational excellence by propagating the concept of Social and Emotional learning by Lion's club
- Workshop on "E resources: Gateway for Research"
- Workshop on ISO at DTU
- Organised Guest lecture by Mr. Ashish Srivastava, VP-HR Relaxo
- Workshop on 5S by Mr. Amrik Singh, DGM (transport), Bharat Electronics Ltd.
- Organised industrial visit to Bharat Electronics Ltd.

Mr. Deva Nand, Asst. Prof., Dept. of Electronics and Communication Engineering

- Attendee, 'India-UK Design Education Workshop - Future of Design Education,' India Habitat Center, New Delhi



Dr. Mohan Singh Mehata, Asst. Prof., Dept. of Applied Physics

- Delivered a talk in the International Conference on 'Photochemistry and its Applications about Field-induced photoexcitation dynamics of organic molecules and nanomaterials' Mahatma Gandhi University, Kottayam, Kerala

Dr. Roli Purwar, Asst. Prof., Dept. of Applied Chemistry

- Presented 'Electrospun non-mulberry silk fibroin mats for skin tissue engineering,' 'Development of breathable and waterproof fabrics by deposition of electrospun polyurethane and nanosilica on cotton and polyester fabric,' and 'Modified Clay doped gelatin/sericin blend films for food packaging,' International Conference on Advance in Polymer Science and Technology
- Presented Preparation and Characterization of Polyurethane/Nanosilica Nanofibrous mats for Water-repellent fabric Applications, ICAPIE, DTU

Dr. Ruchika Malhotra, Asst. Prof., Dept. of Computer Engineering

- Presented research paper titled 'Analyzing Evolution Patterns of Object-Oriented Metrics: A Case Study on Android Software,' International Conference

on Information and Communication Technology for Competitive Strategies, Udaipur

Dr. Saurabh Mehta, Asst. Prof., Dept. of Applied Chemistry

- Co-chair, Technical session, ICAPIE

Mr. Vinod Singh, Asst. Prof., Dept. of Applied Physics

- A patent on 'A process for synthesis of metal core and carbon shell nanoparticles,' Indian Patent Office
- Speaker, Indo-Norway Project Meeting, IIT Delhi
- Chair, 10th National conference on 'Solid State Chemistry and Allied Areas,' ISCAS, DTU
- Attendee, 19th Annual International Conference on 'Managing Digital Revolution: Inventing Future India,' DTU
- Attendee, Conference on 'Safer Mobility,' IIT Delhi
- Presented a paper on 'The Physics of Semiconductor Devices,' IWPSD, IIT Delhi
- Attendee, 'East Asia Symposium on Semiconductor Electronics,' IIT Delhi
- Presented a paper on 'Enhanced Visible Light Driven Photoelectrochemical Property of Pd-Carbon Core Shell Nanoparticles Coated TiO₂ Thin Films Owing to Improved Hydrogen Interaction

and Surface Plasmon Resonance,' 4th International Conference on Nanoscience and Nanotechnology, SRM University, Chennai

- Organiser, 10th National Conference on 'Solid State Chemistry and Allied Areas,' DTU
- Attendee, Nano India Conference, IIT Delhi
- Attendee, Advanced Characterization Workshop on '3D Atom Probe Tomography,' IIT Delhi
- Attendee, International Workshop on 'Fundamentals of Radiological Source Security,' DTU

Dr. Yasha Hasija, Asst. Prof., Dept. of Biotechnology

- Co-organiser and invited Speaker, 'En route to Healthy Aging: Are we there yet?' DFG's Pre Lindau Alumni Indo-German workshop on 'Computing in Chemistry, Biology and Medicine,' IIIT Hyderabad
- Program committee member, International Online Conference on Biological Sciences

Research Papers Published

Prof. Jai Gopal Sharma, HOD, Dept. of Biotechnology

- 'Effect of raw, defatted and detoxified Jatropha seed cake on germination of green gram (Vigna radiata),' and 'Effect of mixed commercial formulations of pesticides on mono and dicotyledonous crop seeds,' International Journal of Research in Applied Science and Engineering Technology
- 'Diversity and abundance of ammonia-oxidizing bacteria and archaea in a freshwater recirculating aquaculture system,' Hayati Journal of Biosciences, Elsevier
- Published DNA sequences on National Center for Biotechnology Information website, National library of Medicine, National Institute of Health, USA

Prof. S. Indu, HOD, Dept. of Electronics and Communication Engineering

- 'Video-based Road Traffic Monitoring and Prediction using Dynamic Bayesian Networks,' IET Intelligent Transport Systems
- 'Adversarial Optimization of Indoor Positioning System using Differential

- Evolution,' PREMI, ISI Kolkata
- 'Unsupervised Feature Descriptors Based Facial Tracking over Distributed Geospatial Subspaces,' PREMI, ISI Kolkata
- 'Classification of Indian Monuments into Architectural Styles,' NCVPRIPG, IIT Mandi

Prof. A. S. Rao, Dept. of Applied Physics

- 'Spectroscopic studies of Sm³⁺ ions activated lithium lead alumino borate glasses for visible luminescent device applications,' Optical Materials
- 'Compositional dependence of Red Luminescence from Eu³⁺ ions doped single and mixed alkali fluoro tungsten tellurite glasses,' Optical Materials
- 'Photoluminescence and energy transfer studies of Dy³⁺ ions doped lithium lead alumino borate glasses for w-LED and Laser applications,' Journal of Luminescence
- 'Spectroscopic investigations of Nd³⁺ doped lithium lead alumino borate glasses for 1.06 μ m laser applications,' Optical Materials
- 'Spectroscopic studies of single near

ultraviolet pumped Tb³⁺ doped lithium lead alumino borate glasses for green laser and tricolor w-LED applications,' Journal of Luminescence

- 'Photoluminescence Investigations on Sm³⁺ ions doped borate glasses for tricolor w-LEDs and Lasers,' Materials Research Bulletin
- 'Pr³⁺ ions doped single alkali and mixed alkali fluoro tungsten tellurite glasses for visible red luminescent devices,' Journal of Non-Crystalline Solids
- 'Spectroscopic study of Pr³⁺ ions doped Zinc Lead Tungsten Tellurite Glasses for Visible Photonic device Applications,' Optical Materials

Prof. Amit Pal, Dept. of Mechanical Engineering

- 'Solar Assisted Biodiesel Production,' Prospects of Alternative Transportation Fuels
- 'Pressurized ultrasonic production of biodiesel from Jatropha oil: Optimization and energy analysis,' Energy Sources, Part A: Recovery, Utilization, and Environmental Effects

Prof. Neeta Pandey, Dept. of Electronics and Communication Engineering

- 'OTRA Based Piecewise Linear VTC Generators and their application in High-Frequency Sinusoid Generation,' Advances in Electrical and Electronic Engineering
- 'New Topologies for OTRA Based Programmable Precision Half-Wave and Full-Wave Rectifiers,' IEEE International Conference on Recent Developments in Control, Automation & Power Engineering

Prof. Rajeshwari Pandey, Dept. of Electronics and Communication Engineering

- 'OTRA Based Piecewise Linear VTC Generators and their application in High-Frequency Sinusoid Generation,' Advances in Electrical and Electronic Engineering
- 'New Topologies for OTRA Based Programmable Precision Half-Wave and Full-Wave Rectifiers,' IEEE International Conference on Recent Developments in Control, Automation & Power Engineering

Prof. R. C. Singh, Dept. of Mechanical Engineering

- 'Significant enhancement in thermoelectric performance of nanostructured higher manganese silicides synthesized employing a melt spinning technique,' Nanoscale
- 'Mechanical properties of thermoelectric n-type magnesium silicide synthesized employing in situ spark plasma reaction sintering,' Material Express Research
- 'Effect of fly-ash particles with aluminium melt on the wear of aluminium metal matrix composites,' Engineering Science and Technology, an International Journal

Prof. R. K. Gupta, Dept. of Applied Chemistry

- 'Chemical Investigation of Propolis and its utilization in edible coating onto Cucumis sativus var. Malini (Cucumber),' European Journal of Biomedical & Pharmaceutical Sciences
- 'Shelf life enhancement of Khoya Burfi by Gamma Irradiation treatment,' European Journal of Biomedical & Pharmaceutical Sciences
- 'In vitro radical scavenging activity and antimicrobial potential of Berberis asiatica Roxb. Ex. DC. Fruit extract in four different processed forms,' Indian Journal of Traditional Knowledge

Dr. C. P. Singh, Assoc. Prof., Dept. of Applied Mathematics

- 'Holographic dark energy in Brans-Dicke theory with logarithmic form of scalar field,' International Journal of Theoretical Physics

Dr. Vijay Gautam, Assoc. Prof., Dept. of Mechanical Engineering

- 'Maximum Bulge Height and Weld Line Displacement in Hydroforming of Tailor Welded Blank,' Journal of Manufacturing Science and Engineering
- 'Experimental and numerical investigations on springback in V-bending of tailor-welded blanks of interstitial free steel. Proceedings of the Institution of Mechanical Engineers, Part B,' Journal of Engineering Manufacture

Mr. Deva Nand, Asst. Prof., Dept. of Electronics and Communication Engineering

- 'New Configuration for OFCC-Based CM SIMO Filter and its Application as Shadow Filter,' Arabian Journal for Science and Engineering, Springer

Dr. Dinesh Udar, Asst. Prof., Dept. of Applied Mathematics

- 'Restricted Boolean group rings,' Archivum Mathematicum.
- 'J-Boolean group rings and skew group rings,' Journal of Algebra and Its Applications

Dr. M. Rizwan, Asst. Prof., Dept. of Electrical Engineering

- Book titled 'Grid Integration of Solar Photovoltaic Systems,' CRC Press (Taylor & Francis), USA
- 'Energy Management Supporting High Penetration of Solar Photovoltaic Generation for Smart Grid using Solar Forecasts and Pumped Hydro Storage System,' Renewable Energy, Elsevier
- 'Voltage Regulation Mitigation Techniques in Distribution System with High PV Penetration: A Review,' Renewable and Sustainable Energy Reviews, Elsevier

Dr. M. Jayasimhadri, Asst. Prof., Dept. of Applied Physics

- 'Photoluminescence investigations on Sm³⁺ ions doped borate glasses for tricolor w-LEDs and lasers,' Materials Research Bulletin
- 'Effective sensitization of Eu³⁺ and energy transfer in Sm³⁺/Eu³⁺ co-doped ZPBT glasses for CuPC based solar cell

and w-LED applications,' Journal of Luminescence

Dr. Mohan Singh Mehata, Asst. Prof., Dept. of Applied Physics

- 'Spectral and time-resolved properties of photoinduced hydroxyquinolines doped thin polymer films,' Optical Materials
- 'Medicinal Plant Leaf Extract and Pure Flavonoid Mediated Green Synthesis of Silver Nanoparticles and their Enhanced Antibacterial Property,' Nature Publication

- 'Probing charge transfer and short-lived triplet states of a bio-sensitive molecule, 2,6-ANS: Transient absorption and time-resolved spectroscopy,' ACS Omega

Dr. Ruchika Malhotra, Asst. Prof., Dept. of Computer Engineering

- 'Investigation of Various Data Analysis Techniques to Identify Change Prone Parts of an Open Source Software,' International Journal of System Assurance, Engineering & Management, Springer
- 'Prediction of Change prone classes using Evolution-based and Object-Oriented Metrics,' Journal of Intelligent and Fuzzy Systems

Dr. Saurabh Mehta, Asst. Prof., Dept. of Applied Chemistry

- 'Benzofuran Synthesis through Iodocyclization Reactions: Recent Advances,' MOJ Biorg Org Chem. 1(7): 45

Mr. Vinod Singh, Asst. Prof., Dept. of Applied Physics

- 'Room temperature response and enhanced hydrogen sensing in size selected Palladium-Carbon core-shell nanoparticles: Role of carbon shell and Pd-C interface,' International Journal of Hydrogen

Dr. Yasha Hasija, Asst. Prof., Dept. of Biotechnology

- 'Automated Detection of Dermatological Disorders through Image-Processing and Machine Learning,' presented in First International Conference on Information Technology, Communications and Computing, Bhopal, and published in IEEEExplore
- 'MED-PDB: An Online Database of Medicinal Plants,' presented in 1st International Online Conference on Biological Science, published in Journal of Advanced Pharmacy Education & Research

Student News

Research Papers Published

1. Milan Srivastava, Ph.D., AM

Best Paper Presentation Award, 'Viscous Cosmology in New Holographic Dark Energy Model', National Conference on Differential Geometry and General Relativity', 2017

2. Arpita Roy, Ph.D., BT

• "Estimation of Asiaticoside by Using RP-HPLC and FAME Analysis of Medicinally Important Plant Centella asiatica", with Koyel Kundu, Gaurav Saxena and Navneeta Bharadvaja, Journal of Plant Biochemistry & Physiology

• "In-silico study on plant determined flavonoids compounds for the synthetic medications against breast cancer growth", with Garima Singhal and Navneeta Bharadvaja, Journal of Ayurvedic and Herbal Medicine, 2017

• "Medicinal Plants in the Management of Cancer: A Review", with Navneeta Bharadvaja, International Journal of Complementary & Alternative Medicine 2017

• "Silver Nanoparticles Synthesis from a Pharmaceutically Important Medicinal Plant Plumbago zeylanica", with Navneeta Bharadvaja, MOJ Bioequivalence & Bioavailability, 2017

• "A Review on Harvesting and Lipid Extraction Methods for Biodiesel Production from Microalgae" Research and Review in Biosciences, 2017

• "Biosurfactant Producing Microbe Isolation and Effect of Different pH on its Growth" Research and Review in Biosciences, 2017

• "A Review on Pharmaceutically Important Medicinal plant: Bacopa monnieri" Journal of Natural Product and Plant Resources, 2017

• "Influence of various Carbon and Nitrogen sources on Lipid productivity of Chlorella minutissima and Scenedesmus sp. and their FAME analysis", with Tushita Atre and Navneeta Bharadvaja, Journal of Algal Biomass Utilization, 2018

• "A Review on the Alkaloids an Important Therapeutic Compound from Plants", International Journal of Plant Biotechnology, 2017

3. Nimphy Sarkar, M.Tech., NSE, 2nd Year

"Numerical Simulation of Nanostructured Layered Materials Using IM3D and SRIM"

with Dr. Nitin Kumar Puri, International Journal of Creative Research Thoughts (IJCRT), 2018

4. Sirish Oruganti and Yatin Gilhotra, B.Tech., ECE, 4th Year

• "OTRA Based Piece-Wise Linear VTC Generators and their application in High-Frequency Sinusoid Generation", Advances in Electrical and Electronic Engineering, 2018

• "New Topologies for OTRA Based Programmable Precision Half-Wave and Full-Wave Rectifiers", IEEE International Conference on Recent Developments in Control, Automation & Power Engineering, 2017

5. Fahad Sarfaraz Ahmed, B.Tech., ECE, 4th Year, Devank Tyagi and Simran Kaur, B.Tech., COE, 4th Year

"Predicting Crowdfunding Success using Optimally Weighted Random Forests", International Conference on Telecommunications and Unmanned Systems, 2017

6. Sushant Jain, B.Tech., COE, 3rd Year

"Underwater fish species classification using CNN and deep learning", International Conference on Advances in Pattern Recognition, 2017

7. Vasudev Grover and Vishwas Gosain, B.Tech., ECE, 4th Year

"Arithmetic Logic Unit Using Diode Free Adiabatic Logic and Selection Unit for Adiabatic Logic Family", 5th International Conference on Signal Processing and Integrated Networks (SPIN), 2018

8. Vivek Gangwar and Ishita Jaisia, B.Tech., IT, 4th Year

"A Study on different data mining classifiers", International Conference on Computer Communication and Informatics (EEMCC), 2018

9. Manish Kumar and Tarun Saxena, B.Tech., MAM, 4th Year

"Commercial & Technological feasibility study of using Solar e-Rickshaw for semi-urban areas", International Journal of Development Research (IJDR), 2017

10. Aditi Garg, B.Tech., EEE, 3rd Year

"Analysing factors affecting FDI in India", International Journal of Advance Research and Innovation, 2018

11. Shivam Dehinwal, B.Tech., ECE, 3rd Year

"Design and implementation of an economical CNC coffee art machine", International Research Journal of Engineering and Technology (IRJET), 2017

12. Alankrit Tomar, B.Tech., EP, 3rd Year

"Rectangular Core Photonic Crystal Fibres for Terahertz Communication", International Conference on Advances in Photonics and Optics, 2017

13. Divye Bhutani, B.Tech., SE, 2nd Year, Yusuf Ali, B.Tech., ME, 2nd Year, Pratyush Gupta, B.Tech., ECE, 2nd Year

"Design and Implementation of a Wireless Chess Playing Physical Platform", International Journal of Engineering Research and Technology, 2017

Scholarships Awarded

1. Nikhil Kumar Mishra, B.Tech., ECE, 3rd Year

Awarded Richard E. Merwin Student Scholarship, IEEE Computer Society, 2017

2. Shubhi Sareen, B.Tech., COE, 3rd Year

Upsilon Pi Epsilon Honor Society Scholarship, Executive Council of Upsilon Pi Epsilon (UPE) and IEEE Computer Society, 2018

3. Anuj Kumar, B.Tech., CE, 2nd Year

Awarded O P Jindal Engineering and Management Scholarship (OPJEMS), 2017

4. Chirag Gupta, B.Tech., EE, 2nd Year

Awarded O P Jindal Engineering and Management Scholarship (OPJEMS), 2017

5. Yusuf Ali, B.Tech., ME, 2nd Year

Awarded O P Jindal Engineering and Management Scholarship (OPJEMS), 2017

Competitions won

UAS DTU shines at the IITB Techfest

The team secured Runners Up position at TATA UAV Challenge (TATA Pioneer's Makerthon) which was a part of IIT Bombay's Techfest, organised in December 2017. The problem was to fabricate a portable, lightweight launch pad for multicopters capable of adapting to uneven ground conditions by automatically leveling. The launch pad was fabricated from composites and could carry a payload of 15 kilograms.



Defianz soars to greater heights

Team Defianz worked tirelessly throughout the year to build a Formula Student car and participated in Formula Bharat, the biggest Engineering Design competition in the world. The car goes from 0-100km/hr in 4.2 seconds. The team bagged 2nd position in the Cost and Manufacturing Event, 3rd position in Business Plan, Design Event, Autocross, Endurance and Efficiency category and secured 2nd place in the competition.

D42 Quiz club continues its winning spree

Ankit and Brahmdeep Singh Jakhar secured the 1st Position in Eco-Biz Quiz and Business Quiz held at St. Stephen's College. They also won the 2nd place in General Quiz held at IIFT and 3rd place in Tech Quiz held at JIMS. Rishi Aneja secured 2nd position in Jaipuria Quiz League National Round organised by Jaipuria Institute of Management. Ankit, Aditya Kulraj and Brahmdeep Singh Jakhar secured 2nd position in General Quiz held at Shiv Nadar University. Harshit Gupta and Kumar Shashwat secured 3rd position in Tech Quiz held at VIPS.



IEEE promotes exchange of knowledge

IEEE conducted WAC Workshop series on Ethical Hacking and Kyron Tech Competitive Programming Workshop with the help of Women Who Code and won the Best Project Presentation in Delhi Student Congress 2018 at NSIT

SOCIETY NEWS

Rotaract organises Cloth Donation Drive

The Rotaract club of DTU in association with We Clothe Them, conducted a cloth donation drive in November 2017. The drive was a success and managed to collect 15 bags of clothes.

Cosmology Club hunts for Asteroids

Cosmology Club of DTU participated in International Asteroid Search Campaign organised by Hardin-Simmons University, Texas. The objective behind the campaign was to discover new Asteroids in the Main belt. Radio data recorded by PannSTARRS, Hawaii were provided to the Cosmology club members and analysis of the data recorded using the software Astrometrica revealed the existence of five probable Asteroids. The students received a certificate from International Asteroid Search Collaboration and Hardin-Simmons University for their active participation.

IOSD quenches thirst of budding gamers

IOSD organised an MSI Interactive Workshop to enlighten interested students on the dynamics of the gaming industry. The workshop was attended by a wide demographic, ranging from gaming enthusiasts to serious game developers.

NSS DTU spreads smiles

NSS organised the Annual Rural Camp in Harchandpur Kalan, Etah District, Uttar Pradesh in December. During the camp, volunteers conducted educational programs for the students which included activity based learning. The volunteers set up a library in the school premises.

An EWS Admission campaign was organised in January in Shahbad Dairy. The campaign was held with the motive of bridging the gap between the government's online portal and people from economically weaker sections of society. About 40 volunteers worked over the weekend and filled more than 330 forms of EWS members.



ASSETS-DTU talks about Cryptocurrency

ASSETS-DTU organised a webinar on 'Decoding Cryptocurrency and Blockchain Technology' in January 2018 led by Mr. Parth Gargava, leading researcher in Fidelity Investments Innovation Laboratory on Cryptocurrency and Blockchain. He enlightened the students by sharing his

insights on how these technologies would evolve in future.

Enactus continues to be in limelight

Enactus DTU organised 'Digital Day' as a part of National Volunteer Week in January 2018. The event was aimed at bridging the gap of digital illiteracy among the slum dwellers of Shahbad Dairy. Digital Day was conducted with great enthusiasm with the help of 50 Enactus members along with the Entrepreneurs and with active assistance of local self government leading to an incredible outreach and impact.



वेष्टीहा

Just like Delhi, DTU, within the confines of its sprawling campus, forms a miniature India. Students from around the country come to DTU with the ambition of a glorious future. It is hence only fitting that this Engifest, DTU celebrates Delhi, and the various aspects that make it shine!



वेत्तु

Sourajit

Dhrum



How have you seen the internet market change over the years, from 1990s till date? Do you feel internet is a better medium for promotion for firms than conventional publicity methods?

Yes. Advertising today is mainly online advertising. So, the world of communication and advertising has changed immensely. Also, today a lot of advertising is through the social network, a relatively newer part of the internet.

What does it take to manage a company like Dailymotion?

I'm someone who is always on the edge. I'm fighting every morning to build the company, to build the right product. And if one day, you stop to consider that you have the good goal in life, it means you're not an entrepreneur. An entrepreneur is someone who is never satisfied. So, it's very easy to manage while working on such a company because you're always at the beginning.

You believe that a company should have only one leader. Don't you think a company would have better financial resources and work distribution in case of multiple leadership provisions?

The fact that you have multiple partnerships or multiple financial leaderships doesn't change ways. The real question is- How is the governance of the company? In a company, you have to manage a lot of things. For me, someone who can lead the company and take decisions, whatever be the conditions, is required. I strongly believe that a company can only be successful if it has only one leader.

I think that the giants of tomorrow are the small companies of today. Entrepreneurs of today are very important for any country. It is the war of the administration to help young entrepreneurs to build companies that will build the giants of tomorrow.

What about the initial stage?

You build an ecosystem. In that ecosystem, you need leaders as they

set examples for everyone because they highlight the sector. But you need a lot of small companies, new companies and very often when you are a giant you don't have the drive of innovation and that's why you see so many big companies buying young startups. In fact they buy what they need to survive, to stay a giant. It's very important that the nation supports the creation of new companies and startups, for the building of the nation.

Entrepreneurship is a gamble given the extent of risk it involves. So what would your message be for youth who refuse to take this risk?

Being an entrepreneur is the best thing an individual tries. There are people who try it and those who don't, the ones who try it are the people who go in and get their shot at the success. But having said that, the society is an assemblage of both kinds of people and both contribute to the growth of the society.

How can a startup idea be turned into a reality and how can government help to facilitate this?

It is very important for the government to set up the right structures to support young startups. For example, France is very strong at that. They give a massive push to young entrepreneurs to build a company. This is something that the other nations should pick up in order to help the startup culture grow. But it's not all good in France, being a great support for the new startups we still haven't learnt to manage companies at a higher level. Very often you will see a big company in France being sold to an American company for millions based on their valuation and everyone takes pride in it. But this is the failure of the management and not something they need a pat on the back for. You should be persistent and take your company to new heights yourself. There are different stages of development and good governance keeps a good balance between all of them.

“A COMPANY CAN ONLY BE SUCCESSFUL, IF IT HAS ONLY ONE LEADER.”

DTU Times interviewed happn CEO and Dailymotion Co-Founder Mr. Didier Rappaport, who addressed the students as a keynote speaker in the Entrepreneurship Summit.

DTU Times interviewed Madhur Gupta, ME, Class of 2016, who is one of the 20 candidates to attain 100 percentile in CAT 2017.

What was your overall preparation strategy for CAT and how was it different from the mock tests that you might've given?

This was my first CAT attempt, and I gave every mock test as if it were the CAT exam and I gave the CAT exam as if it were just another mock test. Consistent performance in the mock tests played a crucial role in motivating me during my preparation for CAT.

Did you plan to give CAT immediately after graduation?

When I was in my third year, I had planned to give it a shot, and so I prepared for about three months. However, I felt that a job would be more intriguing at that point, so subsequently I decided to gain some work experience, and thus ended up not giving CAT until last year.

How did you prepare for the three sections of CAT separately?

I joined the T.I.M.E. institute, and when I initially started appearing for mock tests I realised that I was always securing a place among the top ten to twenty scorers. For about three to four months, I focused on DI & LR and QA which were my stronger sections so that I would at least be scoring well in these two sections. My work at Amazon was taxing and until July, I was able to dedicate only about an hour or two a day towards CAT studies. It was in July that I decided to give up my job as I was unable to balance the two. After leaving my job in August, I started focusing vigorously on my preparation.

What was your preparation schedule like?

I used to get enough sleep for about 5-6 hours daily and I prepared for CAT with a fresh mind in the

morning. At night I read either a novel or the newspaper in order to boost my reading speed.

What role did DTU and your fellow batchmates play in motivating you during your preparation?

DTU provides you the right kind of network of people that one needs in order to succeed. The kind of talent that you get to meet here is something that makes a difference because everyone chooses a different career path and so you get to know your universe of opportunities. Not only my batchmates, but also my team mates at Team Defianz created the right kind of atmosphere for me to stay motivated. They played a very big role in providing the support and the right kind of suggestions that one needs when preparing for such a crucial examination.

What comparison can be drawn between the competition you faced during JEE Main and the one you faced during CAT?

I would say the competition was fairly less fierce for the CAT because the students from the top IITs generally do not appear for this examination, and so the cream of the country gets filtered out. However, in CAT, students from other streams, such as Commerce, compete but Engineers have an edge over them as we are superior in analysing and solving quantitative problems.

What suggestion would you like to give to the CAT aspirants?

The first would be to lay your groundwork and complete the course as soon as possible. I would suggest one to give mock tests from different sources because a variety of questions helps you broaden your area of expertise. If you have attempted a good variety of questions, then a new question that appears in the exam becomes indifferent to you while it becomes difficult for someone who hasn't practised as much.



“DTU PROVIDES YOU THE RIGHT KIND OF NETWORK OF PEOPLE THAT ONE NEEDS IN ORDER TO SUCCEED.”



“DTU GIVES STUDENTS AMPLE TIME TO DEVELOP THEMSELVES”

*DTU Times interviewed **Gunit Dhingra**, 4th Year, EEE, who is placed at Texas Instruments as an Analog Engineer.*

What part of your resume do you think most appealed to the recruiters?

Resume building plays one of the key roles in getting any kind of a job. A good resume with relatable projects helps a lot when it comes to cracking the interview. However, contrary to my expectations, my interviewers did not focus much on my resume. They were analysing my technical knowledge and my responses to their questions. I think the two major parts that appealed them the most were my subjects of interest and extra courses I had undertaken along with my projects. Based on my interview, I can surely say that the interviewers were not looking for something extraordinary.

Has getting a handsome placement been your single-minded aim at University? Would you consider going for higher studies?

Getting a decent placement was on the top of my list since the beginning of third year. The main reason for this was my inclination towards the electronics domain. Going for a master's degree has always been at the back of my mind but only after a good exposure and relevant work experience.

Apart from academics, what part has your time at DTU had to play in your development leading up to placement?

DTU gives students ample time to develop themselves. In my first year, I became a team member at UAS DTU and IEEE, which provided me a strong base to work in robotics/electronics. In my second and third year, I participated in various regional and national level competitions, worked with a start-up, made various projects in varying domains like embedded systems, verilog etc. and also interned during winter and summer holidays. All of this helped me gain a lot of experience and developing my interest in the electronics domain.

What does your profile entail, and which area of your profile most excites you?

My profile at Texas Instruments

is Analog Engineer. An Analog Engineer can work at different stages like product development, product testing, product management, or even looking after the inventory, sales etc.

The most exciting part of my profile is a chance to work on new kinds of circuits. Also, complete exposure to all the stages of product development helps learn and grow in the best possible manner.

What tips would you give to ace the interview rounds?

My interview was completely technical and revolved around RLC circuits, MOSFETs, Op-Amps, Current mirrors, Bode Plots, Transfer functions and filter obtained etc.

In the interview round, I suggest the following points to be kept in mind. Never give out final answers. The interviewers usually look for the approach you follow. So always try to speak each and every point you are thinking, even if it is very basic. This way, even if you don't arrive at the right solution, the interviewer usually helps you reach the correct one. Listen to what the interviewer has to say. My interview was more of a discussion. My interviewer taught me a concept and then asked questions based on it, to understand how well I had been able to grasp. So, listen to each and every word the interviewer says, carefully.

What message would you like to give juniors aiming for similar feats as yours?

Do not go for advanced stuff or think that a lot of extra knowledge is required to crack an interview. Mostly, just strong basics and your interest to learn and work in that domain is all that's required. Also, good projects and percentage always help in some way or other. Lastly, in the Analog domain, never memorise equations and concepts. 'Feel' them intuitively.

With the competition increasing every year, how did you ensure that your resume has a cutting edge over others?

Working on projects and with startups was the best way to learn and explore. This strategy helped me add work experience to my resume. I gave my best to do full justice to each task. Apart from this, simple things should be really taken seriously, like for the resume:

A proper format, getting it reviewed by friends if needed

Quantifying the impact of your work
Knowing your resume thoroughly and being confident about your work

A good aggregate (it does matter at some places)

No bragging

Three key elements for cracking the GD and PI rounds from your experience?

Group Discussions: I didn't experience many except one during Samsung internship procedure. But according to me, good points, easy words to express them, some confidence and the patience to listen to others are the keys.

Personal Interviews (Coding interviews particularly), going chronologically:

0. Prepare well enough to give you the confidence to sit in interviews, give mock interviews.

1. Ask questions, clarify doubts and go through examples to confirm if you have understood the question and its expectation well.

2. Discuss solution approaches with an open mind.

3. Confirm that your code works as intended.

An advice from a senior that you would want to pass on?

I have two important ones. One, nothing is the end of the world. No selection or rejection or even a series of rejections can define your worth.

Two, from a woman to all women - Believe in yourself. People around you will always say things in order to let you down. They will say that you were selected because you are a woman. The same people will

laugh if you didn't get selected. Just ignore every negative thought that makes you doubt yourself, and put that energy in working on yourself and your goal.

What do you expect from your upcoming life at Google?

Apart from challenging projects, a peaceful working environment, learning and unparalleled opportunities, I am excited about enjoying Google's perks and living around some really amazing people.

At what point did you get serious about pursuing your choice of career path? And if it wasn't the most apt time, what in your opinion is?

It was the beginning of the second year, before which I had never explored Computer Science. It was then that I started taking some courses like OOP, Data Structures seriously along with learning Android Development.

I don't know if it was an apt time or not but sometimes this thought came to my mind that I am starting too late and will not be able to sustain competition because of this. But I was definitely wrong in thinking so, the best part being I didn't give up before trying and this helped me realise how much I wanted to give my time towards coding and development.

What kind of extracurricular activities did you participate in? How did you balance Extra curricular activities and Academics?

I was in the Street dance society during the first year of college, and have been playing basketball from the first year till now. Also, I like sketching and painting.

These things are a source of fresh air to me and help me regulate my overall efficiency and let me spend time with some amazing people in college through trips and tournaments. But yes, since each day has a fixed number of hours, I set my priorities accordingly. Setting priorities, planning, managing and being satisfied with the choices you make is important.



“FROM A WOMAN TO ALL WOMEN - BELIEVE IN YOURSELF.”

*DTU Times interviewed **Himanshi Jain**, 4th Year, COE who has received placement offers from Adobe and Google India.*



DTU Times interviewed Dr. Kalyan Sen, Chief Technology Officer, Sen Engineering Solutions, Inc. and Senior member of IEEE.

He was the instructor for an MHRD-sponsored GIAN Course on "Smart Power Flow Controller for Smart Grid Applications". 'Smart Grid' is an initiative to modernize the existing electric power system, which is envisioned to be integrating necessary devices for its most efficient and reliable operation.

How has your experience been since coming to DTU?

It has been a good experience. The students in India are better prepared in power Engineering than most countries. It is rewarding to teach here. I have covered a lot of material, almost a complete book in four days.

How is the response from the students here?

The students who want to specialise in this area are very interested and often spend extra time in campus to learn. I was surprised to see students willing to study till 6 P.M.

How would you describe the importance of institutions such as IEEE in the life of a student?

IEEE is a great organisation to build your network, attend conferences and publish papers. Conferences here are structured in such a way that members get a concession, so it's an advantage to become a member. There are actually

two-fold benefits of joining IEEE- the exchange of ideas and research is one of the aspects, the other aspect is that it provides a platform to exercise one's people skills by organising conferences, meeting new people and discussing your research and ideas. It is considered a big plus if you already have an experience in organising such events and show leadership qualities at the college level.

How would you describe the present scenario of Electrical Engineering in general and power Engineering in specific in India and abroad?

35 years ago, when I went to study in the USA, classical Power Engineering was transforming into a mix of Power Engineering and modern Electronics. Students in the US were beginning to show little interest in Power Engineering and it started fading away. Now after 35 years, there is a shortage of Power Engineers there. There is no such problem in India as the curriculum here is set by the Professors.

It is noticed is that generally Indians prefer going in for jobs rather than research. Would you like to give any specific message to the students in this context?

I believe everyone should have experience in Engineering jobs and should have worked for some time. This experience is necessary even for professors, as it enhances their teaching abilities. Thus, everyone should work for some time and then go for research.

"THE STUDENTS IN INDIA ARE BETTER PREPARED IN POWER ENGINEERING THAN MOST COUNTRIES"

DTU Times interviewed Dr. Tim Fox, Independent Consultant and Former Head, Energy and Environment, IMechE, United Kingdom, who was a keynote speaker at NFEST 2018.

How do you think Engineers, mechanical Engineers in specific, can prove beneficial tackling the losses in food supply chain?

There are many challenges in the food supply chain that have mechanical Engineering in the root of their solution. Many of the challenges are to do with refrigeration, transport vehicles and mechanical handling of produce at the farms and docks and these are all very straightforward mechanical Engineering challenges. But the solutions need to be sustainable, so we need to find solutions wherever possible, use clean energy and work in harmony with the environment and increase the efficiency of machines so that they cause minimal damage to the environment.

You have been active in the past about the need to produce food in urban areas. What steps according to you should be taken to increase the sustainability of food production in urban cities in India?

As India moves forward and becomes much more urbanised, there are significant opportunities to use vertical farming where farm produce is grown in warehouses using a racking system and highly controlled water and air systems that ensure that the food is of very high quality with minimal environmental footprint and is closer to the point of consumption. Production close to consumption reduces the need for transport and the environmental damage that transport causes. Therefore,

vertical farming is a huge opportunity to have a sustainable food system in India.

You have stressed upon the need for clean cooling. How do you see unmanaged growth in cooling as a global threat and what according to you needs to be done in order to achieve sustainable cooling in the future?

Cooling is an enormous challenge for Engineers because current cooling and air conditioning systems are based on the technologies that were developed in the 1950s and 60s and are very inefficient. There is an opportunity for mechanical Engineers to increase the efficiency and combine these systems with sources of renewable energy that will provide a much cleaner solution for food cooling and food supply to future customers.

You have tweeted about the need to change the image of an Engineer from middle-aged males with glasses and jackets. What according to you should be the ideal image of an Engineer?

There is a historic image of Engineer that is a stereotype of a person who is technical, in glasses and probably a male. With the sort of challenges we are facing with sustainability, the image needs to change to Engineers that are much more caring about their environment and the societal implications of their actions. In many cases we should see a bigger input from lady Engineers who can bring a different way of thinking to Engineering that can complement the thinking of our male colleagues. So, the image of an Engineer needs to change from one wearing a hard hat to one doing useful things for the planet.

"THE IMAGE OF AN ENGINEER NEEDS TO CHANGE"

KNOW YOUR ALUMNI

- Batch of 1969, Mechanical Engg.
- M. S. in Industrial Engineering from Bradley University, USA.
- Studied advanced management programs at Harvard University and The Wharton School.
- In 1984, founded Modern Technologies Corporation (MTC) with his wife, Indu. The company grew to over \$400 million employing nearly 2,900 people worldwide.
- In August 2000, the business college at Wright State University was renamed the Raj Soin College of Business.
- In 2010, he was awarded a doctorate from Bradley University.
- Served on numerous boards including that of the Victoria Theatre Association, Kettering Medical Center Network and Ohio Venture Capital Authority. President of the Asian Indian Alliance.
- Ernst & Young's 1999 Master Entrepreneur, 1995 Enterprise Spirit Award, 2003 Recipient of the Ellis Island Medal of Honor Award.



DR. RAJ SOIN

Founder, MTC Technologies



MR. RAJESH SAWHNEY

- Batch of 1987, B.E. (Electrical and Electronics Engg.)
- Masters of Business Studies, University of Mumbai.
- Alumnus, Harvard Business School, has a fellowship from the London School of Economics.
- Founder and CEO of GSF India, Co-Founder and CEO at InnerChef and Healthie, and also serves as an Advisor at Althea Systems & Software.
- Besides being the Founding President of Reliance BIG Entertainment, was also Chief Operating Officer of Times Internet for 6 years.
- Associated with Times Of India Group for almost 14 years; the force behind IndiaTimes.
- New media, entertainment, telecom and IT industry veteran with 20 years of experience.

Serial Entrepreneur and Business Builder

STUDENTS' ENGAGEMENT WITH THE DEPRIVED

- Dr. SEEMA SINGH
Assoc. Professor, Department of Humanities

The poor are not poor because they remain unemployed, but because their productivity is low. They cannot afford to be unemployed, and work on whatever they get. However, as their productivity is low, their work does not fetch them enough money. To enhance this productivity, they need appropriate technology. In an effort to assess the technological need of slum dwellers, B.Tech. students are asked to visit a nearby slum in their Engineering Economics course and prepare an assignment on how knowledge of their branch of Engineering can be used for improving life at slum. In order to improve their social skills, they are asked to prepare an assignment in groups. Last semester, the enthusiastic students not only visited slums but responded to the address of our Hon'ble Prime Minister, Sh. Narendra Modi. They taught slum dwellers and owners of petty and micro enterprises how to handle e-money.



ALUMNI RECONNECT IN TEXAS



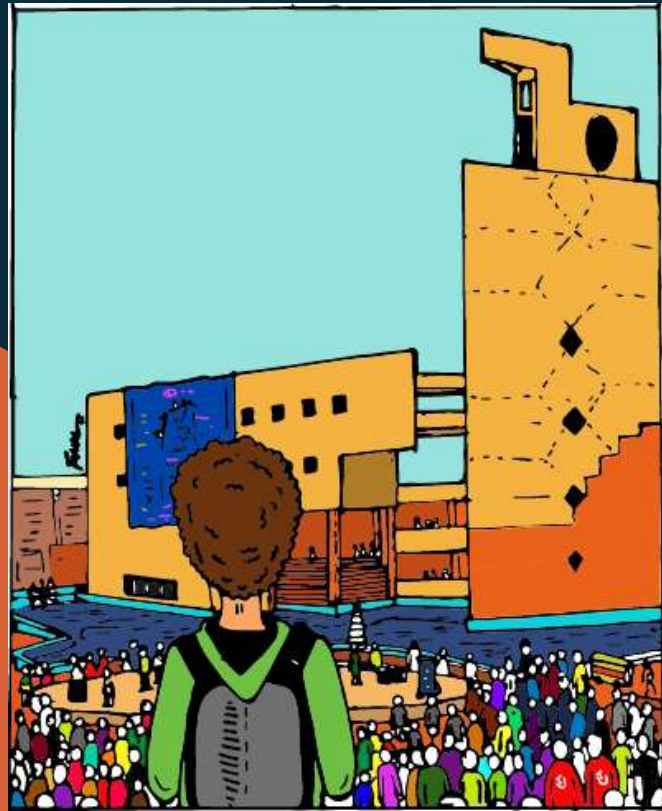
An year-end reconnect meet was organised for the alumni of DCE/DTU in Sugar Land, Houston on 16th December 2017. Hosted by Mr. Lagnesh Varshney, Batch of 1986, the occasion was marked by the presence of around 45 alumni. The attendees walked down memory lane by sharing happy memories of their alma mater and their life experiences. It was potluck dinner followed by singing over karaoke to celebrate the birthday of Mr. Rohan Gupta (Batch of 2011). The birthday celebrations were managed by Mr. Mahesh Joshi, Batch of 1982.

'TIS THE FEST SEASON

» Pratik Anand, 1st Year, COE

A window of sunlight dappling on my face brought about a sense of urgency. Comfortably uncomfortable after the winters, I realized that this was not the soft gleam of early morning in the spring - this was the aureate precursor to noon. I needed to rush to college.

The throbbing Open-Air Theater in the fest was something unprecedented to me. Anywhere one's eyes went, there was a colorful crowd continually rejoicing. Deluges of people flooded around, chattering and squealing and taking pictures. It is a strange concept. Lively moments captured and made permanent. Permanent into these photographs, when there could be an eternity of these present moments- a band of friends meeting after months. The nerdy videogamer socializing. The bookworms taking a much needed break. It all somehow energized the world around. The everyday giving way to the exuberant fest. The University was alive. More alive than ever.



FESTS CAN BE A GOOD PLACE

» Shrey Padhi, 1st Year, PIE

I had made many friends
Silence, Music and Me
Moving from school to college meant making "new" friends
At least that's what my dad said
Games I thought would be my companion through college

When I moved to my room
I found people fighting for their beds
I quietly sat on the undesired one
I felt a connection with it
Felt it was much like me

I was the bubble in the mighty sea
It burst whilst the DJ played music
It seems scary, but once it burst
I saw the beauty of this sea
Surrounded by fish like and alike

Fests can be a great place
Good food, good music, good people
Glad I had the courage to talk to roommates
Don't be surprised
But the group decision was made on my bed!



ENGIFEST A City Rekindled

» Karan Singh Bora, 1st Year, EE

Thousands of years ago, in the aftermath of Mahabharata, the Pandavas chose a desolated domain as their capital region. Lord Krishna and the quintet took the assistance of Mayasura- the prodigal demon architect. This absurd band of Gods and Demons then laid the foundation of Indraprastha- God's own city, which transformed into the modern-day capital of our country. The outcome was such that even Lord Indra was jealous of the grandeur of the city.

The will to work together and to bring into being something previously unfathomable, has been strong since the time of mythical legends. The Engineers' Fest, which has now crossed half a century of successful editions, is a splendid example of how a dedicated group of people can actualize an amazing celebration to interrupt an otherwise monotonous schedule. The success of this festival is the fruition of the perseverance and diligence of each and every person associated with it. The theme this year is 'A City Rekindled', and the people will witness the revival of this city in Delhi Technological University, to its former glory. Maybe the Gods will envy it again!

POST-ENGI BLUES

» Gul Asnani, 2nd Year, COE

From occupied breaks and untimely Engi team meetings to a carefree 3 day extravaganza, from feeding the ghost of attendance to becoming no less a ghastly being on the EDM night, you'll surely be ecstatic during the fest. But as soon as the hangover of the fest starts receding, the clutches of routine life would drag you out of your fairy tale and the pile of assignments and files would reach an all time high. Before

you even wake up from your beauty sleep, you'll realise that midsems are already dancing a macabre on your head. These are the post-Engi blues



that catch you completely off-guard. The only thing you have in your hands right now is the beautiful experience that lies before the blues.

So make sure you don't miss a single beat played. Make sure you don't lose sight of a single spectacle. Make sure the post Engi blues have a lot of reminiscing!

THE ORIGIN

» Shruti, 3rd Year, EE

It is natural to think of the word 'fest' to have originated from the word 'festival'. Where do festivals stem from? When one googles "World's First Festival", one is redirected to a search page of redundant, even irrelevant information. In a world where the practical currency of a country is cow, this is hardly surprising. Google "World's Oldest Festival" and one shall stumble upon something useful.

Here's what we found. Change calls for celebration. How did the earlymen recognize change? The passing of seasons. Five thousand years ago, the Turkish began to commemorate the harbinger of spring. They named this occasion "Nevruz". Nevruz is among the oldest known festivals in our history. The fests that we celebrate, as college students, also symbolize

change. They are a reminder of our brisk journey as an Engineering student. How many fests till we graduate? Four. It hits the final-year-student reading this piece slowly. Cherish every moment of your time organizing events related to fests, however frivolous. Stand in the crowd to scream your lungs out. Lose yourself in the ephemeral nature of those three days - while you still can!

THROUGH THE EYES OF A NON- DELHIITE

Hitee Singh, 1st Year, MBA

Typical Delhiites' days begin with a rush. A blind rush to reach their destination, their life being such a monotonous routine that they are unable to enjoy the little joys of life.

Blame it on my poetic way of seeing life, but I always find beauty in imperfect things. Beneath the tumultuous exterior of the city that has witnessed various *dharnas* that triggered the formulation of historic laws, I see tell-tale signs of a city which has always spearheaded revolution. The crumbling buildings of yore are anything but a woeful sight, as they stand testament to how far we have

come, and how far we still have to go.

Eyes only let you see the city for its face value. But, how does the city make you feel? Do you feel anything is possible? Do you believe the world is at your feet to be explored and conquered? Or does it smell of withered spirits, and all you can hear is the suppressed voices of rebellion? Because, that my folks, is how I feel Delhi!



The Dilemma

Pratyush Thakur, COE, 2nd Year



As she walks back home,
She hears footsteps
Heart pounding, pulse racing,
Her footsteps quicken.
There is a chill in the air.
Was it always like this? She wonders,
She can't come up with an answer.
She never really ventured in the dark.

A city is a city in the day,
It is night that turns it
Into what it really is,
Brightness subjugates shadows
Darkness elicits them,
The steps behind her quicken
And are upon her,

She breaks into a run,
She curses, heaves
And feels terrified inside
When finally she can't run
She turns, fists clenched,
Lips taut.
A hundred emotions running through her head,
She looks,

It's an animal.
But is it human?
That's the dilemma.

SHAHJAHANABAD: The *Dilli* within Delhi

Shivam Jha, ME, 2nd Year

Delhi neighbourhoods are littered with souvenirs of that past. Frustratingly, many of these have lost their stories of origins. Still, it takes only a stroll down densely cramped lanes through a tableau of chaos, bursting at the seams with people amidst dilapidated buildings, to fall in love with them. You can find a grand Mughal-era mosque still standing on its centuries-old spot, but there is no trace of its venerable grandeur because its glory has been hijacked by a gorgeous February sky you refuse to fall in love with.

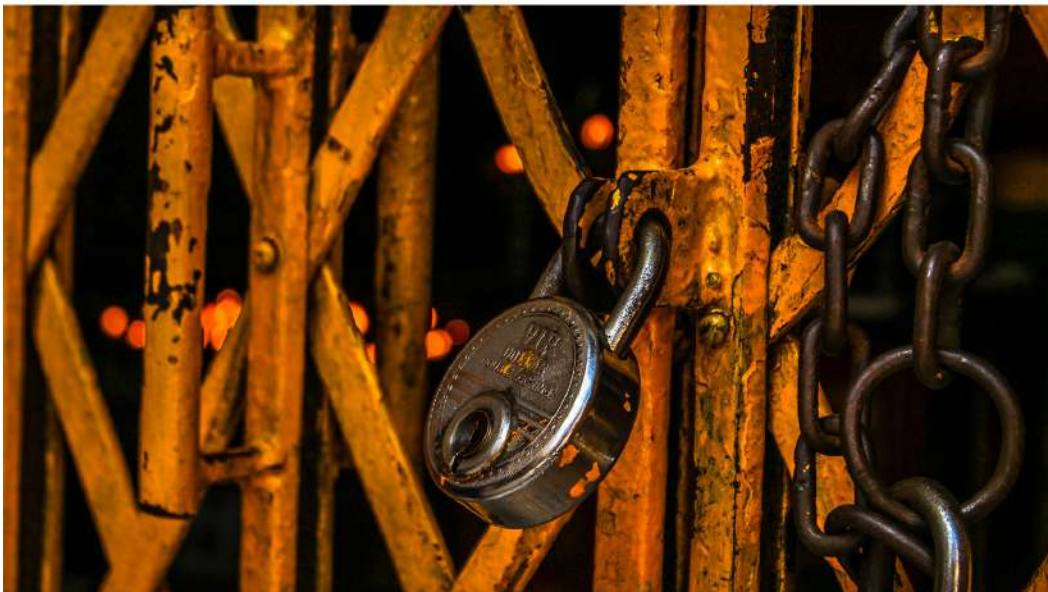


Through the many streets of broken doors, shattered windows, jaded paint, crippled hopes and a crumbled past, the romance of bazaars can still be sensed despite the crowded roads and jammed footpaths. The dull vibrance in the architecture floods you with questions like, 'What sort of lives did this elegant home once harbour?' You can somehow feel the sense of attachment to that lost world with one fleeting visit, and you became a part of something ethereal that gives our city its special melancholic beauty. The number of such places dwindle with each passing year in light of renovation, as old derelict homes do collapse after decades of benign, compassionate neglect. But this is more than merely sad as these places issue their own singular statements of grace, while most modern housing complexes arguably have nothing to say at all.

Like Mir Taqi Mir once wrote,

दिल्ली जो एक शहर था, आलम में इंतेखाब,
रहते थे जहां मुन्तखब ही रोज़गार के,
उसको फलक ने लूट के वीरान कर दिया,
रहने वाले हैं हम उसी उजड़े दियार के ।

Across a sea of rootless trees with leafy branches — seemingly dead and alive at the same time, much like the Dilli within Delhi, that is dying a slow death.



इश्क-ए-दिल्ली

Lokesh Narayan Shankar, IT, 1st Year

सुबह के 8 बज रहे हैं और आप सुन रहे हैं देश की सुरीली धड़कन, विविध भारती!
आइये सुनते हैं फिल्म 'फिर कब मिलोगी' से मज़रूह सुल्तान पुरी का लिखा ये गीत जिसे संगीत दिया है राहुल देव बर्मन ने और आवाज़ दी है मुकेश और लता ने।
“कहीं करती होगी, वो मेरा, इंतज़ार, जिसकी तमन्ना में, फिरता हूँ बेकरार...!”

आँखें मींचते हुए जब मैंने खिड़की से बाहर देखा तो दिल्ली दौड़ रही थी। रंगीन मेट्रो और बसों के जाल ने पूरी दिल्ली को जोड़ दिया है। जैसे तो छालावास में रहते हुए अभी तीन दिन हुए थे, पर ना जाने क्यों गाँव की याद कुछ ज्यादा ही आ रही थी। शायद इसलिये क्योंकि गाँव के प्यार पर इस नई प्रेमिका दिल्ली का आधिपत्य होने लगा था। तब हमें क्या अंदाज़ा था कि यह दिल्ली मन को इतना भा जाएगी; और भाये भी क्यों ना, कितनी यादों को तो कैद कर रखा है इसने खुद में। दिल्ली में पहले ही दिन एक नीले कोट वाली मैडम के जबरदस्त फरटिदार अंग्रेजी ने मूर्छित-सा कर दिया था, अभी भी याद है वह पहला मेट्रो सफ़र। खैर, दिल्ली को और जानना है तो सुनो, मुझे आँखे बंद करने दो और फ़ोन में रेडियो भी लगाने दो क्योंकि गाना सुने बिना दिल्ली-भ्रमण अधूरा-सा है। अभी मेट्रो के लिए कतार में लगा ही था कि आँखों पर चश्मे को चढ़ाए, कानों में छोटी-छोटी रिंग्स के बीच इयरफोन लगाए वह भी दरवाज़े तक जाने का प्रयास करती नजर आई। कितनी मशक़त करने और गणित लगाने के बाद उस तक पहुँचा ही था कि मेट्रो के दरवाज़े बंद हो गए। शीशे के आर-पार हथेली पर हथेली चिपकाने के अधूरे प्रयास के बाद मन-ही-मन बाय बोल गया। शायद यह हाई स्कूल के बाद दूसरी बार था, जब मैं उससे मिलते-मिलते रह गया था। यह शहर इश्क़ सिखाता है, किसी एक नहीं बल्कि यहाँ मौजूद हर चीज़ से। मेरा दिल्ली से इश्क़ तो लाल किला भ्रमण के दौरान ही पनपने लगा था लेकिन परवान चढ़ा जब हमने चांदनी चौक भी पैदल ही घूमा। कह तो रहा हूँ, यहाँ कदम-कदम पर इश्क़ होता है तभी तो इसका नाम दिल्ली है। पुरानी दिल्ली में घूमते वक़्त दीवारों और गलियों में 'ग़ालिब' का अक्स दिख जाना भी आम बात है। ईद के महीने में ज़ामा मस्जिद के आस-पास के दुकानों से आ रही अफगानी और तुर्की 'काजू-पिस्ते व खजूर' की सुगंध आपको बरबस ही शाही खानसामों का एहसास करा देगा। इन सबके अलावा चमचमाती हुई काले रंग की लंबी-लंबी गाड़ियों से भी आपको प्यार हो सकता है या आपका प्यार सीधा इंडिया गेट से होते हुए जाकर गिर सकता है रायसीना हिल्स पर। जैसे भी हम कितना भी इंसानों से या फूलों से प्यार कर लें, पर ये जो पावर ऑफ स्ट्रक्चर है न, जहाँ कुर्सी के फ़ैसले किये जाते हैं, उसके आगे सब पानी भी भरते मालूम पड़ते हैं। शायद इन्हीं गलियों से होकर काली दिल्ली का रास्ता जाता है, लेकिन हम तो ठहरे सुंदरता के शौकीन। ऐसे में मन का दिल्ली में फिसल कर गिर जाना कोई बड़ी बात नहीं। एक हाथ में डेयरी मिल्क और दूसरे हाथ की उंगलियों से चेहरे पर आ गिरी लटों को वापिस संभालती हुई, किसी लड़की का आकर 'एक्सक्लूज़ मी' कहना, आपको पल भर के लिए ही सही, रोमांचित तो कर सकता है। ऐसे में इस दिल्ली से प्यार होना लाज़मी है। लौटते वक़्त मन अगर कर्नाट प्लेस या सेंट्रल पार्क में रुक जाए तो प्रेम सौ-फ़ीसदी परवान चढ़ चुका होता है। मॉल की दीवारों से चिपकने से बेहतर यहाँ के सेंट्रल पार्क में सबसे ऊपर लहर रहे तिरंगों को सलामी दे लो।

“वैसे तुम्हारी दिल्ली सच में ख़ुबसूरत है!”

My Perfection

Jessjit Singh, 2nd Year, COE

Nobody's perfect, they say. The word "ideal" in a dictionary indirectly means impossible. Something that can only be imagined in the wildest of our dreams and can never be achieved even with the best of efforts. And for a long long time, I was forced to agree with them. But a series of events that started taking place in my life a while back now make me realise something. Perfection is something that you discover- discover in people and in memories. Perfection can be found, felt and appreciated. But most importantly, perfection is unique. Perfection, as we know it, is not absolute. It's relative. And it's yours and yours only.

For the past 4 months, 29 days and 2 hours, I have had the honour of sharing the most beautiful relationship of my life with someone that I can proudly call my perfection.

My Perfection. My perfection (a woman, for obvious reasons) is a pink skinned, dreamy eyed, perpetually inebriated human being who laughs like a hyena and hates being called a teletubby. She likes writing poetry and taking photographs of walls and buildings. She loves it when I sing to her and is weirdly obsessed with my big hands. She can argue with me about coffee being better than tea and Nathan being the smartest man on planet Earth for the next seven lifetimes. She literally survives on bread butter, cannot sleep for more than four hours a day and in her free time, develops rare disorders and thinks of different ways to die. Yup, like me, she's kinda messed up.

But boy, does my perfection do things to me. On some days, my perfection writes long paragraphs on how beautiful I am and makes me cry and on other days, she holds my hand and lies down with me and stares at me and trust me, the way she looks into my eyes and tells me that I'm the only person who can calm the storm within her makes my heart skip multiple beats. My perfection knows me. She's well aware of the fact that I've pretty much been an unaccepted outcast all my life and thus, makes me feel as wanted as I have never felt before. She is pretty much the only person who has had the courage and patience to peel of all of my onion layers of hatred and despair just to be with the mushy core inside. My perfection and I say the same things at the same time and then get surprised at the weird "Raabta" we share. While others find ways to leave my life, she dreams of a life with me. My perfection, she's been broken. Broken into pieces and is very afraid to be broken again. But don't they also say that you're the bravest when you're afraid. She's kinda the living proof of that statement. I don't exactly know how much time I have with her, but every second I call myself hers, I pray to the Gods she doesn't believe in and thank them for trusting me with my perfection in an otherwise imperfect life. My moment of happiness in the midst of inevitable melancholy. My forever in the limited time we have here. And I plan and will try my level best to keep her close for a long long time. Do you mind, perfection?

The Amateur Engineer's Guide to Research

Oruganti, S., 4th Year, ECE, Patra, S., 3rd Year, CE and Kashyap, V., 2nd Year, ME

Abstract—While Engineering, in essence, is an industry-oriented course, a number of engineers dive into the world of Research. Engineers who love to solve complex engineering problems, and wish to create innovative solutions go on to become the scholars of the future. This article delves into the method, outcomes, and career paths related to Research.

I. CHECKLIST

A. Will of Fire

Many students want to pursue research without knowing what is there to expect. On the outset, one needs to have an absolute resolve to dauntlessly imbibe the subject to its very boundary, and make magnificent efforts in expanding that boundary.[1] That, in essence, is what Research is all about.



Fig. 1. An aspiring, but unwilling researcher.

B. Area of Interest

For any aspiring researcher, zeroing in on their area of interest is of prime importance. For this, explore all areas of the branch till you find your calling. After gaining a strong grip on fundamentals of the subject, you might already have an innovation in mind. Well, hold that thought...

C. Literature Survey

Pull up and read research papers related to the topic. It is normal for you to understand nothing but 'the', 'and', 'of', or other such words in the paper. Be patient, and learn to get to the meat of the content. Once you're satisfied that your brilliant idea is new, you can start working. Make sure you index these papers, it'll come in handy when you publish your work.

D. Tutelage and Sponsorship

Going about a project on your own can be a daunting task, especially for newbies. Moreover, conducting research without a knowledgeable guide can cause delays. An experienced guide will be your compass. You also need the resources to perform research, but your guide should manage that for now.

E. Patience

In a few rare cases, people have observed their hair turn white between the initiation and publication of their research. Patience is important, not only because it takes long to see the output, but also because one encounters numerous hurdles.

F. Hustle

At times, during hypothesis, experimentation, or simulation, one finds oneself at a loss for resources or technology. It is at such junctures that the age-old Indian philosophy of *Jugaad* comes to the rescue. For, what is Research, but the conjuring of all available facilities to discover the unknown!

II. RETURNS

A. Publications

1) *Journal Articles*: Journals are periodic collections of articles on specific subjects. Journal articles may be Primary Research Articles or Review Articles.

2) *Conference Presentations*: In conferences, researchers can present their work before the research community. It is also an amazing place to meet scholars of your field and discuss the bleeding edge of technology.

B. Inventions

Inventions may be patents, copyrights, or design registrations. These are granted to researchers who produce a tangible product or design with no precedence in its application.

III. CAREER PATHS

A. Academia

Most researchers prefer teaching over other jobs. Academia has a huge support from the Industry for sponsored research. Plus, no long work days, or a boss standing over your head. And you get to do exactly what you want!

B. Industry

Some researchers prefer the Industry, as the resources are more, and the salaries are a little higher. But this comes at the cost of freedom in the area of research, performance evaluations, longer working hours, and strict deadlines.

CONCLUSION

For the driven, research isn't nearly as arduous as it is made out to be. Research ensures you are always learning something new, and connecting with the best of scholars. There is a world that remains to be explored. Who knows when, the next idea might strike, and change[1] it forever!

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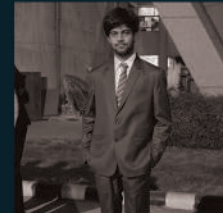
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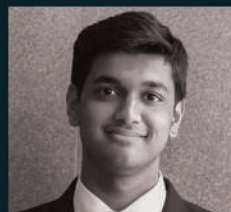
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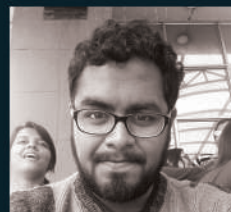
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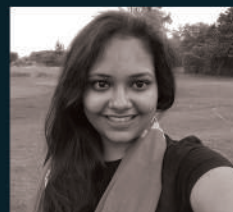
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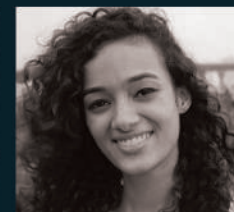
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