

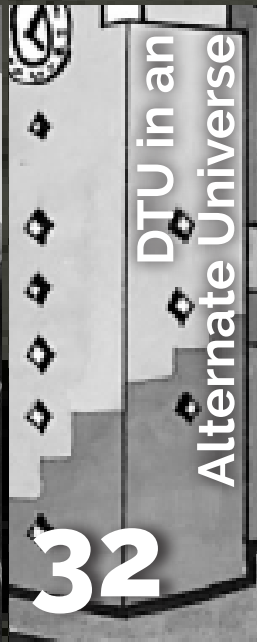
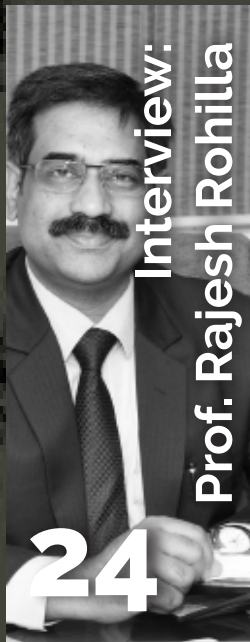


DTU TIMES



*** A MATTER OF TIME ***

CONTENTS



EDITOR'S NOTE

Eleventh-grade mathematics turned a hitherto mostly simple, even harmless subject into a juggernaut full of new terms, concepts and theories. Among these many terms, we were introduced to one that impacted the proceedings of nearly every chapter. This term was Infinitesimal Change. Every concept taught us the immense impact these infinitesimal changes can have on the smallest of quantities, when put together. Every small change we undergo in our life similarly impacts us, cumulating over time.

The first piece of code you write, your first rendezvous with a new software or even your first class taking a subject you instinctively like, initiate changes that shape your personality, your life and your future. While we are inherently resistant to change, the feeling of doing something new often supersedes our instincts. One change leads to another, and before you know it, you have a direction to go in!

The differential of the change has also increased as we experience our surroundings change rapidly in ever-smaller periods of time intervals. We shifted from playing pinball on our old desktops to smartphones in less than a decade, and we see the world gearing up for the fourth industrial age. We are the generation that has been experiencing the most expeditious changes in technology. To be a cog in this revolution we need to learn to adapt and acclimatise ourselves to these changes by learning new skills.

The 44th Edition explores these infinitesimal changes that make us who we are. The news sections celebrate the new heights that our University reached in the last three months as a consequence of efforts put in by faculty members and students, from pioneering research done by the faculty and students to various laurels that teams and societies won. All these achievements are small positive changes that take our University higher. The articles penned by the team explore the idea of changes happening in the world, from music to films to changes right here in the university.

At the end of your four years, when you receive your degree from this age-old institution, the piece of paper you receive will represent the sum result of all the small changes that occurred during your life at DTU. As ever, it's time to get up and change.

FROM THE DESK OF THE VICE CHANCELLOR



Delhi Technological University, entering its 77th year continues to be one of the most reputed Universities in the country. Each year, the best students take admission through the coveted Joint Entrance Examination. This year, the newly inducted students were welcomed to the University by Mr. Arvind Kejriwal, Hon'ble Chief Minister, Delhi, and several other dignitaries. The induction programme was a huge success with the students being ushered into a new phase of their lives.

The ongoing placement season has just cemented the University's tryst with the best companies. Students have bagged internships and placements from some of the most renowned companies in the world like Amazon, Uber, Flipkart, Adobe, Texas Instruments, Samsung, Citibank, etc.

A huge milestone was achieved by us as a university when DTU enrolled its first batch of B.Des. students at the Department of Design. A beautiful Art and Design competition was also organised at the DoD which saw a huge participation of enthusiastic students. The Department aims to foster creativity and inculcate the true spirit of art in the students and take the vision of the University to greater heights.

The Health Centre has also witnessed an upgrade in facilities and will now cater to more than just basic medical needs of the students. The University has also taken an initiative towards tackling the issue of depression and anxiety by providing the students with a counselor.

East Campus has been active in the frame too. USME helped organise a couple of seminars that saw an overwhelming response from both students and faculty. Into its second year now, the graph of growth is continuously rising.

The University has come a long way since its inception and the students have always been the torchbearers of change. I wish all students the very best in their endeavours and hope they take the University to higher pinnacles.

Messages From The Pro VCs

Prof. S. K. Garg



Over its long history, Delhi Technological University has continuously worked to excel in all fields, be it academic or non-academic. The age-old reputation of DTU as an institute of academic excellence is self-illustrating. This all-round commitment is exemplified by the varsity hosting the inter-collegiate sports fest, Triquetra.

The University has made continual strides in co-curricular activities. The electives offered to first years in the present academic session have been a success. These electives have enabled students to take part in co-curricular activities, including various sports, and gain course credits through them.

The University is fast growing towards being one of the premier institutes for higher education in the country. With each passing year, the existing educational facilities at the University transform for the better. Simultaneously, the existing infrastructure is supplemented by expanding it, to make it more suitable for the annual influx of academically sound students of various streams and fields.

Prof. Anu Singh Lather



Delhi Technological University has retained its place as one of the topmost choices of up and coming engineering students and as the years pass, will also see similar trends in the various other streams introduced in the University.

The addition of the East Campus has helped in broadening the horizons for students of both campuses, as they interact and expand their knowledge sphere. A series of guest lectures and interactions were organised by USME DTU which saw a positive feedback from all the students.

Various subject based conferences and seminars on ground-breaking technologies also played a crucial part in enhancing the personality and comprehensive abilities of the students.

DTU is always working towards creating an environment for its students which provides them with holistic development. The University gives its students enough freedom to pursue their passion for the various extra-curricular activities that the University has to offer. We are always accepting feedback from our students, ensuring that valid requests are taken into consideration and implemented promptly.

THE BULLETIN

Successful Introduction of the B.Design Program in the University

The academic year 2018-19 saw the formation of a new department, **Department of Design**. The department offers a Bachelor's Degree in Design (B.Des.). Admission to the four-year programme is based on Undergraduate Common Entrance Exam for Design (UCEED) score.



Electronic Waste Management Workshop

The University organized a 3-day workshop on **"Electronic Waste Management"** in August, 2018 in the **Conference Hall** on 3rd floor of the Central Library. The workshop was aimed at making the students and faculty members aware of how electronic waste management is an issue and how it needs to be tackled.

Recent Trends in Big Data Analytics (RTBDA - 2018)

Department of Computer Science and Engineering, DTU organized a one-day international seminar on **"Recent Trends in Big Data Analytics (RTBDA-18)"** in August, 2018 in Smart Classroom-II, Administrative building. The seminar

collaborate with universities of New Zealand for faculty/student exchange programmes and research collaborations. Eminent professors from three different universities of New Zealand visited the campus for the same.



Independence Day Celebrations

The Independence Day was celebrated in the most extravagant manner by the hoisting of the Indian flag by Hon'ble Vice Chancellor **Prof. Yogesh Singh** at Dr. B. R. Ambedkar Auditorium. NSS DTU also organized a spectacular kite-flying event on this day.

Educational Fair by U.S. University delegates

U.S.-India Educational fair was successfully conducted by the delegates from around **15 U.S. Universities** in August, 2018. The interactive Mini-fair aimed at briefing the interested students about the prospects of higher education and internship programs in the United States.

Gunijan Sabha

Gunijan Sabha verse 40 was conducted by the University in collaboration with **Ustad Imamuddin Khan Dagar Indian Music Art & Culture Society** and **The Dagar Archives**, Jaipur in August 2018 at Dr. B. R. Ambedkar Auditorium. The performances included Rajasthani puppet dance,

Kuchipudi Dance by Sushri Payal Ramchandani, Sarod recital by Sushri Chandrima Majumdar and live Q&A interaction round with Sushri Rama Pandey, a noted film and theatre personality and activist.



E-Resources: A Gateway for Research

The **Central Library** organized a 5-day workshop titled “**E-Resources: A Gateway for Research, 3rd edition (2018)**” in September, 2018. In the workshop, experts of databases being subscribed to by DTU gave their presentations explaining how to search and make effective use of these databases for research.

Lecture on Development of Leadership Skills

Internal Quality Assurance Cell (IQAC), DTU organised a lecture on the topic ‘**Development of Leadership Skills in India: A Historical Review**’ in the Seminar Room, Central Library in September, 2018. The lecture was delivered by **Sh. Balmukund**, a historian who is credited with the discovery of the origin of river Saraswati.

Inauguration of Campus Store & Souvenir Shop

The University inaugurated its official Campus Store & Souvenir Shop in September 2018 at the ground floor of the Administrative Building. It is full of souvenirs some of which include basic stationery with Deltech logo, T-shirts, cups and various others. Alumni ID cards are also available at the shop.



New Health Center Inauguration

The new Health Center is situated **near the SBI Bank**, beside the girls hostel. It was officially inaugurated in October 2018, by the Hon'ble Vice Chancellor Prof. Yogesh Singh. The new health center has improved facilities, and a tie-up with **Ishan Hospital, Sector-19, Rohini**.



Workshop on Adobe Spark

A two-day workshop on **Adobe Spark** was organised in collaboration with **Adobe Systems India Pvt. Ltd.** under the aegis of **Training and Placement Cell**, DTU in October, 2018. The subject of the workshop was the ‘**Adobe Digital Disha Program**’ which aimed at fostering digital creativity skills of both the faculty as well as the students. All the participants were provided with digital certificates and perpetual licenses of Adobe Spark. **Dr. Rajesh Rohilla**, HoD, Department of Training and Placement, was the course coordinator and **Dr. Anil Singh Parihar**, Associate Head, Department of Training and Placement was the co-coordinator.



Art and Design Competition

Department of Design, DTU organised an Art & Design Competition in October, 2018. The competition was for students of 11th and 12th standard. The event witnessed the participation of various enthusiastic school students.

JIYO - Asian Heritage Foundation Visit

A field trip was organized by the **Department of Design, DTU**, to expose the students to Indian handicrafts and artisans. The trip was headed by **Padma Bhushan awardee Rajiv Sethi** and **Prof. Ranganath M. Singari**, the HoD of the Department of Design. Students were introduced to various materials, handcrafting techniques, like grass weaving, paper-mache, hand woven textiles, wood carving art pieces, along with different painting styles from various parts of India.

Exploration - Exhibition visit

The **Department of Design, DTU**, organized a departmental visit to the exhibition '**Exploration-2**' at the India Habitat Center. The students were briefed about the artistic view and processes, along with the material for the art pieces to encourage the students to explore. The exhibition featured talented and experienced artists, including **Prof. Lalit Kumar Das**.

Magic of Clay - Terracotta Workshop

The **Department of Design, DTU**, also conducted a terracotta workshop from 25 August to 6 September and 11 October to 15 October, 2018. **Prof. Aqueel Ahmed** from **M S University, Vadodara**, was invited to conduct the workshop for B.Des. Foundation students. The students learned clay modeling, pinching, coiling, and traditional firing technique. They produced over two hundred items during the workshop.

Induction Program for 1st Semester Students

The University conducted a 2-day Induction program (3rd- 4th August, 2018) for students of B.Tech 1st Semester program for them to be well aware of the different problems and help them adjust to the university life. Visits to the different laboratories were planned to give exposure to the students in their respective fields and the different societies presented and explained their roles/activities to the newly admitted students.



Lecture on Internet of Things

Department of Electronics & Communication Engineering, DTU, in collaboration with **IEEE Delhi Section** organised a lecture on "**Internet of Things (IoT)**" in October, 2018 in Edusat Hall. The lecture was taken by **Mr. Nishit Narang**, Assistant Vice President - Technologies, Aricent, Gurgaon.

TEQIP Sponsored Events

Department of Applied Physics, DTU organised a **TEQIP-III** sponsored Faculty Development Program on ‘**Recent Trends in Material Science and Engineering**’ in September, 2018. The program was chaired and coordinated by **Prof. Suresh C. Sharma, Head of Department, Prof. A.S. Rao** and Associate Professors **Dr. Nitin K. Puri** and **Ms. Renuka Bokolia**.

A **TEQIP-III** sponsored Faculty Development Program was organised on ‘**Bond Graph Modelling and Simulation**’ in October, 2018. The lecture was delivered by **Prof. Wolfgang Borutzky, Bonn-Rhein-Sieg University of Applied Sciences, Germany**. The lecture aimed to create awareness on the various Bond Graph Modelling techniques and to impart fundamental and advanced knowledge on these areas to potential users, teachers and researchers.

A one-day long international workshop conducted by **Department of Civil Engineering, DTU**, and sponsored by **TEQIP-III**, based on ‘**Networking of Technology and Education for Sustainable Development**’ took place in October, 2018. The workshop was graced by the presence of International Expert **Prof. Philip Davies** from the UK and Hon’ble Vice Chancellor **Prof. Yogesh Singh** as the Chief Patron. The program was chaired by **Prof. Nirendra Dev, Head of Department** with Associate Professors **Dr. S. Anbu Kumar** and **Dr. T. Vijaya Kumar** and Assistant Professor **Dr. Ritu Raj** as the course co-ordinators.

International Conference on Recent Advances in Pure and Advanced Mathematics (ICRAPAM - 2018)

Department of Applied Mathematics, DTU, in memory of **Late Prof. Niranjana Singh**, organised a 3-day **International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM - 2018)** in October, 2018. The conference consisted of keynote addresses, plenary lectures, invited lectures, oral and poster presentations. It was attended by a number of professors and researchers from India and abroad, with Hon’ble Vice Chancellor **Prof. Yogesh Singh** as the Chief Patron, and Head of the Department **Prof. Sangeeta Kansal** as the chairperson.



International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES - 2018)

Department of Electrical Engineering, DTU, in collaboration with **IEEE PELS-IES, IEEE PES-IAS Delhi Chapters** and **IEEE Delhi Section**, organised the 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES - 2018) in October, 2018. The conference was attended by a number of professors, researchers and students from various engineering colleges of Delhi. The conference was graced by Hon’ble Vice Chancellor **Prof. Yogesh Singh** as the Chief Patron.

News from East Campus

USME, DTU organised a series of guest lectures and interactions under the banner of “**Deltech Economics Seminars**”. The first lecture in this series was held in October, 2018 by **Mr. Honey Karun**, an Economist associated with the IMF. The topic of discussion was ‘**Monetary Policy: Operating Procedures in India**’.

USME, DTU, in association with **Department of Food Safety**, organised a **Food Safety Seminar** in October, 2018. The seminar was held to raise awareness among students and faculty members about the contaminants commonly present in food, ways to deal with this problem.

ICAPIE

The **Centre for Advanced Production and Industrial Engineering Research (CAPIER)**, DTU hosted the **3rd International Conference on Advanced Production and Industrial Engineering (ICAPIE '18)** on 5th and 6th October, 2018 at Hotel Caspia, New Delhi. This was third in the series of annual academic conferences which aims to promote innovative advancements in various domains of the colossal field of Production & Industrial Engineering.

The conference was attended by a number of professors and researchers from this field. Hon'ble Vice Chancellor **Prof. Yogesh Singh** graced as the Chief Patron. It was chaired by **Prof. Vipin**, HOD, MPIAE, DTU and co-chaired by **Prof. Shamsher Singh**, Registrar, DTU. The convener for the conference was **Prof. Ranganath M. Singari**, HOD, Department of Design, DTU. The Organising Secretary for the event was **Dr. N. Yuvraj**. A book of abstracts containing abstracts of all the 155 papers presented during the conference was also released.



ORI EN TA TI ON



The **Orientation** for the class of 2022 was organised at **Open-Air Theatre, Delhi Technological University** in **August, 2018**. The **Hon'ble Chief Minister of Delhi, Mr. Arvind Kejriwal** and **Hon'ble Dy. Chief Minister and Minister of Education of Delhi, Mr. Manish Sisodia** were the Chief Guests for the event. The ceremony commenced formally with the national anthem and the welcoming of the guests, faculty, parents and the students. This was followed by inspirational speeches delivered by the chief guests, and the **Hon'ble Vice Chancellor Prof. Yogesh Singh** wishing best of luck to the future engineers. The 43rd edition of the official newsletter of the university, **DTU Times**, was also unveiled at the event by the dignitaries. The orientation ceremony concluded with lunch.





Triquetra

Triquetra'18, a tri-hosted sports fest by **DTU, NSUT** and **IIIT-D** was held in DTU this year in October. The Hon'ble Vice-Chancellor, **Prof. Yogesh Singh** was the Chief Guest and Physical Education Directors of IIIT-D and NSUT were Guests of Honor for the Opening Ceremony. There were multiple events including Cricket, Volleyball, Basketball, Table Tennis, Lawn Tennis, Football, Badminton, Chess, and Athletics in which teams from different colleges of Delhi-NCR were invited and participated. The fest saw a total footfall of more than 2000 participants. DTU's Cricket and Football teams won gold in both girls and boys categories. The silver medal in Badminton and Table Tennis was also bagged by DTU. Triquetra'18 concluded with the felicitation of the winners.

Freshers Week

DTU Cultural Council organised the **Freshers' Week** from 10th to 14th September, 2018. The whole week was planned with a plethora of events for the excited Class of 2018.

The five-day extravaganza started off with **Movie Screening** at the OAT. An amazing **Ethnic Night** was organised in the Aryabhata Ground on the second day, where everyone danced to the desi beats.

Day 3 of the week started with the **Informal Events**, which was followed by the **Cultural Train**. It also presented performances by the stand-up comedians and poets of DTU. The day concluded with an enthralling performance by Pratibimb, the dramatics society of DTU.

The week ended with the much-awaited **Freshers' Night**, which was organised at OAT. Students enjoyed performances by various cultural societies of DTU, and students from East Campus. The contestants for **Mr. and Ms. Freshers' pageant** showcased their talent to prove their worth for the title. The winners were awarded goodies by the sponsors.



Faculty News and Achievements

Dr. S Indu, HoD, Dept. of Electronics & Communication Engineering

- Organiser, 'Hands-on workshop on NetSim,' Dept. of Electronics and Communication Engineering, DTU
- Organiser, Lecture on Internet-of-Things, Dept. of Electronics and Communication Engineering, DTU



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

- Organiser, 'Proximate Analyses by NIR and FTNIR spectroscopy,' DTU
- Organiser, 'Basic Concepts of LCMS/MS,' DTU
- Organiser, 'Spectroscopy for water quality analysis,' DTU
- Organiser, '2D-GCxGC MS/MS principle and applications,' DTU

Prof. Bharat Bhushan, Dept. of Electrical Engineering

- Member, IEEE Control System Society
- Fellow Member, The Institution of Electronics and Telecommunication Engineers
- 'CSTR Control using IMC-PID, PSO-PID and Hybrid BBO-FF-PID Controller,' IEEE International Conference on Signals, Machines and Automation, NSIT, Delhi
- Session chair, 'Applications using Intelligent Tool and Techniques,' International Conference on Signals, Machines and Automation, NSIT, Delhi
- 'Tracking Control of 4 DOF Robotic Arm Using Krill Herd Optimized Fuzzy Logic Controller,' IEEE International Conference on Signals, Machines and Automation, NSIT, Delhi

Prof. Pravir Kumar, Dept. of Biotechnology

- Member, National Expert Panel: Life science research board
- Grant Reviewer, National Selection Committee Member, SPECIALISTS: United States-India Educational Foundation FULBRIGHT Fellowship
- Speaker, 'Human Health and Diagnosis,' Health, Human values, Ethics and Empowerment Programme, TEQIP-III STTP, DTU

Dr. Gurjit Kaur, Assoc. Prof., Dept. of Electronics & Communication Engineering

- Organiser, Lecture on Internet-of-Things, Dept. of Electronics and Communication Engineering, DTU

Dr. Kongan Aryan, Assoc. Prof., Dept. of Civil Engineering

- Member, Editorial Board, International Conference on Advances in Computing, Communication, and Information Technology, Rome, Italy

Dr. Poornima Mittal, Assoc. Prof., Dept. of Electronics & Communication Engineering

- Organiser, Lecture on Internet-of-Things, Dept. of Electronics and Communication Engineering, DTU

Dr. Sudarshan K Valluru, Assoc. Prof., Dept. of Electrical Engineering

- Session Chair, 2nd IEEE International Conference - 'Power Electronics, Intelligent Control and Energy Systems,' Dept. of Electrical Engineering, DTU

Dr. T. Vijaya Kumar, Assoc. Prof., Dept. of Civil Engineering

- Organiser, 'Networking of Technology and Education for Sustainable Development,' DTU

Mr. Anurag Chaturvedi, Asst. Prof., University School of Management & Entrepreneurship

- Attendee, National Marketing Conference 2018, FIIB Campus, New Delhi
- Presenter, 'Decoding the process and understanding the marketing nuances of Gali Paranthe Wali: A case study,' FIIB Campus, New Delhi

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

- Attendee, 'Video Surveillance,' MHRD sponsored GIAN course, Department of Electronics and Communication Engineering, DTU
- Coordinator, 'Hands-on workshop on NetSim,' Dept. of Electronics and Communication Engineering, DTU

Ms. Divyashikha Sethia, Asst. Prof., Dept. of Computer Science & Engineering

- Presenter, 'Pro-SRCC: Proxy-based Scalable Revocation for Constant Ciphertext length,' SECURWARE 2018, Venice

Ms. Geeta Singh, Asst. Prof., Department of Environmental Engineering

- Awarded 'Best Environmental Technology Implementation Award' for 'Analysis of Filtration Efficiency of Activated Carbon Coated Sand Beds,'

International Conference on Health and Pollution: Effect and Management, New Delhi

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

- Presenter, 'Decoding the process and understanding the marketing nuances of Gali Paranthé Wali: A case study,' *FIIB Campus, New Delhi*

Dr. N. Jayanthi, Asst. Prof., Dept. of Electronics & Communication Engineering

- Coordinator, 'Hands-on workshop on NetSim,' *Dept. of Electronics and Communication Engineering, DTU*

Dr. Nilam, Asst. Prof., Dept. of Applied Mathematics

- Resource person, 'Numerical methods,' *Deen Dayal Upadhyaya College, Delhi University*
- Co-convenor, 'International Conference on Recent Advances in Pure and Applied Mathematics,' *Department of Applied Mathematics, DTU*

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

- "An Efficient Weighted Trust Method for Malicious Node Detection in Clustered Wireless Sensor Networks," *ICPEICES*

Prof. Jaigopal Sharma, HoD, Dept. of Biotechnology

- 'An aptasensor for rapid and sensitive detection of estrogen receptor alpha in human breast cancer,' *Biotechnology and Bioengineering*
- 'The Continuous Culture of *Brachionus plicatilis* with Sea Water,' *Madridge Journal of Aquaculture Research & Development*
- 'Mass production of *Lemna minor* and its amino acid and fatty acid profiles,' *Frontiers in Chemistry (Frontiers)*

Prof. Madhusudan Singh, HoD, Dept. of Electrical Engineering

- 'Multi-Objective Genetic and Adaptive Particle Swarm Optimization Algorithms: A Performance Analysis with Benchmark functions,' *Intelligent Control and Energy Systems, 2nd IEEE International Conference on Power Electronics*
- 'Application of Linear Quadratic Methods to Stabilize Cart Inverted Pendulum Systems,' *Intelligent Control and Energy Systems, Proc. of 2nd IEEE International Conference on Power Electronics*
- 'Design of Multi-Loop L-PID and NL-PID Controllers: An Experimental Validation,' *Intelligent Control and Energy Systems, Proc. of 2nd IEEE International Conference on Power Electronics*
- 'Bifurcation Curves for Electrical DC Motors,' *Intelligent Control and Energy Systems, Proc. of 2nd IEEE International Conference on Power Electronics*

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

- 'Structural Investigations and Yellowish White Light Emission study of Dy³⁺ ions doped Alkaline-Earth Boro Tellurite Glasses,' *Optical Materials (IF: 2.338)*
- 'Detection of solar cycle signal in the tropospheric

Mr. Partha Pratim Das, Asst. Prof., Dept. of Design

- Attendee, Mahatma Gandhi International Sanitation Convention, *New Delhi*
- Attendee, Light India, *New Delhi*

Ms. Priya Malhotra, Asst. Prof., University School of Management & Entrepreneurship

- Attendee, Research Summer School on Empirical Finance & Accounting, *IIM Kolkata*
- Attendee, 3rd International Management Conference, *FIIB, New Delhi*

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

- Presenter, 'Iodocyclization of 2-(1-Alkynyl) benzamides: Synthesis of Cyclic Imidates and Isoindolinones,'
- *American Chemical Society National Meeting, Boston, Massachusetts, USA*

temperature using COSMIC data,' *Current Science (IF: 0.88)*

- 'Sensitization of Yb³⁺ by Nd³⁺ emission in alkaline-earth chloro borate glasses for laser and fiber amplifier applications,' *Journal of Alloys and Compounds (IF: 3.779)*
- 'Spectroscopic studies and lasing potentialities of Sm³⁺ ions doped single alkali and mixed alkali fluorotungsten tellurite glasses,' *Optics & Laser Technology (IF: 2.50)*.
- 'Enhancement of 1.54μm emission in Ce³⁺-Er³⁺ co-doped Ca₄Si₂O₇F₂ phosphor,' *Journal of Alloys and Compounds (IF: 3.779)*
- 'Photoluminescence Studies of Sm³⁺ ions doped barium lead alumino fluoro borate glasses for reddish orange optoelectronics device applications,' *Materials Research Bulletin (IF: 2.446)*

Prof. Bharat Bhushan, Dept. of Electrical Engineering

- 'Real-Time State Observer Based Controller for Stochastic Robotic Manipulator,' *IEEE Transactions of Industrial Applications*

Prof. Pravir Kumar, Dept. of Biotechnology

- 'Can Luteolin be a therapeutic molecule for both Colon Cancer and Diabetes? Briefings in Functional Genomics,' *Oxford University Press (IF: 3.8)*
- 'An In-Silico Investigation of Key Lysine Residues and Their Selection for Clearing off Aβ and Holo-AβPP Through Ubiquitination,' *Interdiscip Sci. (Springer) (IF: 0.8)*

Dr. Dinesh Kumar Vishwakarma, Assoc. Prof., Dept. of Information Technology

- 'A Deep Structure of Person Re-Identification using Multi-Level Gaussian Models,' *IEEE Transactions on Multi-Scale Computing Systems*
- 'A review of state-of-the-art techniques of Abnormal Human Activity Recognition,' *Engineering Applications of Artificial Intelligence (Elsevier) (IF: 2.819)*

- 'Video Benchmarks of Human Action Datasets: A Review,' *Artificial Intelligence Review (Springer Nature)* (IF: 3.814)

Dr. Sudarshan K Valluru, Assoc. Prof., Dept. of Electrical Engineering

- 'Multi-Objective Genetic and Adaptive Particle Swarm Optimization Algorithms: A Performance Analysis with Benchmark functions,' *Intelligent Control and Energy Systems, 2nd IEEE International Conference on Power Electronics*
- 'Application of Linear Quadratic Methods to Stabilize Cart Inverted Pendulum Systems,' *Intelligent Control and Energy Systems, Proc. of 2nd IEEE International Conference on Power Electronics*
- 'Design of Multi-Loop L-PID and NL-PID Controllers: An Experimental Validation,' *Intelligent Control and Energy Systems, Proc. of 2nd IEEE International Conference on Power Electronics*
- 'Bifurcation Curves for Electrical DC Motors,' *Intelligent Control and Energy Systems, Proc. of 2nd IEEE International Conference on Power Electronics*

Dr. Asmita Das, Asst. Prof., Dept. of Biotechnology

- 'Radiation induces perk and Ire1 mediated pro-survival autophagy,' *Autophagy (Taylor and Francis publication)* (IF: 11.1)
- 'In silico approach to study affinity of NK cell inhibitory receptor interaction with classical and non-classical ligands,' *Archives of Immunology and Allergy*

Ms. Divyashikha Sethia, Asst. Prof., Dept. of Computer Science & Engineering

- 'NFC Secure Element-based Mutual Authentication and Attestation for IoT access,' *IEEE Transaction on Consumer Electronics*

Mrs. Geeta Singh, Asst. Prof., Dept. of Environmental Engineering

- 'Artificial Rainfall & Sedimentation by Water using Quadcopter for control of Suspended Sand and Dust,' *National Conventional of Environment Engineering & National Seminar, New Delhi*
- 'Investigation of correlation between El-Nino, Maximum temperature and annual average precipitation in India using PCA,' *International Conference on Health and Pollution: Effect and Management, New Delhi*

- 'Analysis of Filtration Efficiency of Activated Carbon Coated Sand Beds,' *International Conference on Health and Pollution: Effect and Management, New Delhi*

Dr. Naval Garg, Asst. Prof., University School of Management & Entrepreneurship

- 'Promoting Organizational Performance in Indian Insurance Industry: The Roles of Workplace Spirituality and Organizational Citizenship Behavior,' *Global Business Review*

Dr. Navneeta Bharadvaja, Asst. Prof., Dept. of Biotechnology

- 'Effect of Various Culture Condition on Shoot Multiplication and GC-MS Analysis of Plumbago zeylanica Accessions for Plumbagin Production,' *Acta Physiologiae Plantarum*
- 'Impact of climate change on biodiversity,' *34th National Convention of Environmental Engineers and National Seminar on Environmental Pollution and Climate Change, Delhi*
- 'Microalgae-bacterial aggregated (MABAs) for cost effective treatment of wastewater,' *34th National Convention of Environmental Engineers and National Seminar on Environmental Pollution and Climate Change, Delhi*

Dr. Paras Kumar, Asst. Prof., Dept. of Mechanical Engineering

- 'An experimental investigation on gear tooth failure,' *International Conference on Advanced Production and Industrial Engineering*

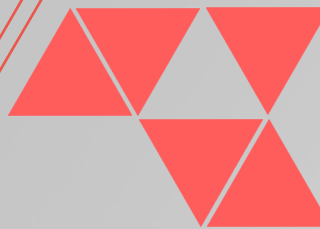
Ms. Priya Malhotra, Asst. Prof., University School of Management & Entrepreneurship

- 'Performance evaluation of select Indian Debt Mutual Funds,' *Good Governance and Growth in Global Economy (Bloomsbury)*

Mr. Rajesh Sharma, Asst. Prof., University School of Management & Entrepreneurship

- 'Health and economic growth: Evidence from dynamic panel data of 143 years,' *PLoS ONE (IF: 2.8)*
- 'Stock Market Development and Economic Growth: Evidence from Bootstrap Panel Granger Causality Test,' *Journal of Economic Development*

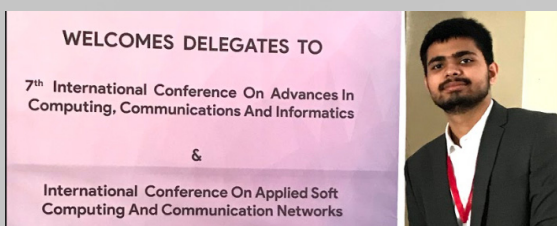
Student News



Research Papers Published and Conferences Attended

Arjun Rajpal, B.Tech., SE, Class of 2018

- 'Genre Classification using Word Embeddings and Deep Learning', 7th International Conference on Advances in Computing, Communications and Informatics (ICACCI-2018), Bangalore, India



Kunal Mathur, B.Tech., ME, Class of 2018

- 'Design, Development and Fabrication of a Gokart', International Journal of Advanced Research and Innovation (IJARI)

Arpita Roy, Ph.D., BT

- 'Effect of Various Culture Condition on Shoot Multiplication and GC-MS Analysis of Plumbago zeylanica Accessions for Plumbagin Production', Acta Physiologiae Plantarum
- 'Biotechnological Approaches for Production of Pharmaceutically Important Compound: Plumbagin', Current Pharmaceutical Biotechnology
- 'Role of medicinal plants against Alzheimer's disease', International Journal of Complementary & Alternative Medicine
- 'Impact of climate change on biodiversity', 34th National Convention of Environmental Engineers and Nation Seminar on Environmental Pollution and Climate Change
- 'Microalgae-bacterial (MABAs) for cost effective treatment of wastewater', 34th National Convention of Environmental Engineers and Nation Seminar on Environmental Pollution and Climate Change
- 'Application of nanobiotechnology in various fields', National conference on Thieme Chemistry: Science of synthesis

Awards and Competitions Won

Lokesh Kumar, Ph.D., BT

- First prize, poster presentation, 'National Workshop on Thieme Chemistry: Science of Synthesis', Department of Chemistry, University of Delhi, New Delhi

Harsheen Kaur, MBA., 1st Year

- Winner, Negotiator competition, JWEF 7.0, Birla Institute of Management Technology (17th October, 2018 under Dare2compete)
- Runner-up, Vishleshan'18 competition (annual analytics conclave), Department of Business Economics, University of Delhi

Chirag Pangoriya, B.Tech., SE, 3rd Year

Ashay Raj, B.Tech., MAM, 3rd Year

- Runners-up, Ebullience: The Gargi case study competition

International Internships and Scholarships Awarded

Dhruv Rath, B.Tech., COE, 4th Year

- Shastri Indo-Canadian (SRSF) Scholarship
- Received Provisional Patent - Detecting, Monitoring and Treating Facial Paralysis
- Research Assistant, University of British Columbia

Sagar Jain, B.Tech., ECE, 4th Year

- 'Complete Charge Recovery Diode Free Adiabatic Logic', 5th International IEEE Conference on 'Signal Processing and Integrated Networks'



Vishwamitra Singh, B.Tech., ECE, 4th Year

- 'An Efficient Weighted Trust Method for Malicious Node Detection in Clustered Wireless Sensor Networks', 2nd International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)

Paragi Neema, B.Tech., ENE, 3rd Year

Mridul Narang, B.Tech., ENE, 3rd Year

Harmann Singh Mann, B.Tech., ENE, 3rd Year

- 'A Review of Biochar based technologies in Carbon Capture and Sequestration', International Conference on Health and Air Pollution: Effects and Management (ICOHAP EM-2018)

Robin Kumar Singh, B.Tech., ECE, 3rd Year

- 'Manned Mars Missions and risks evaluation', 69th International Astronautical Congress in Bremen, Germany

Anuksha Arsh Gulati, B.Tech., BT, 2nd Year

- Harvard Project for Asian and International Relations, Kuala Lumpur, Malaysia

Keshav Sehgal, B.Tech., ME, 2nd Year

Kshitij Jain, B.Tech., ME, 2nd Year

- 'Overview of Solid Modelling in Automotive Designing', International Conference on Advanced Production and Industrial Engineering (ICAPIE).

Himanshu Aggarwal, B.Tech., COE, 3rd Year

- Jury's Choice Award, Accenture Innovation Challenge, Bangalore



Ravikant Rajan, B.Tech., CE, 4th Year

Kshitij Bansal, B.Tech., ME, 3rd Year

- OP Jindal Engineering & Management Scholarship

Meghna Bhatnagar, B.Tech., IT, 3rd Year

- Google Women Techmakers Scholarship 2018, APAC Region

SOCIETY NEWS

PRATIBIMB FILMS' OUTSHINING DEBUT

The first filming venture of Pratibimb, **Abhi Na Jao**, was awarded the Best Short Film award, while Shirish Prakash Singh received the Best Music and Editing award for the same at the *Internet College Film Festival*. Shubham Chaudhary received the Best Actor award for the short film **Others** at the same platform. Naman Roy bagged the Best Actor Award at the street play event of **PULSE '18**, the Annual Cultural Fest of AIIMS for the 2017-18's annual street production, **Tript**.

The annual stage production of 2017-18, **Treadmill**, bagged the second position at **Rangrezz - National Theatre Festival** organised by *Chitkara University*, where Shubham Chaudhary won the first prize at **Dramaturgy** - the monologue competition.



SAHITYA HOSTS OPEN MIC FOR ALL

Sahitya organised the 4th rendition of **Guftagu: Aawaz-e-dil**, which facilitated an open mic platform for storytelling, poetry, narration, and discussion. Rajat Sood won the 1st Position in poetry at *Oasis*, *BITS Pilani* and Jayansh Gupta secured the 1st Position in **Just a Minute (JAM)** at *Antaragni*, IIT Kanpur.



QUIZZERS OF DELHI 42 SWEEP AWARDS

Delhi 42, the Quiz Club of DTU, organised the Delhi Round of the **Indikya National Level India Quiz**, in collaboration with *College of Engineering, Pune*, hosted by *Pradhyumna Asthana*, the Delhi round of the **Enigma Quiz**, in collaboration with *BITS Hyderabad*, the **Inquizitive Minds Quiz** by *Career Launcher*, and the **Jaipuria Quiz League**, wherein the Quiz Club members *Rishi Aneja*, *Ankit*, *Harshit Tanwar* and *Rohan K.* qualified for the national round of the quiz. The highlight of the club was the Inaugural Freshers' Quiz where *Angad Bhalla* and *Raghav Byala* won the **Best DTU Team** award.

Bramhdeep Singh Jakhar and Ankit qualified for the National Finals of the **Quiz on the Beach** organised by *TA Pai Management Institute* along with the National Semi-finals of the **NTPC Electron Quiz**. The two quizzers also came third at the **Comquest Quiz** organised by *JIMS, Kalkaji* and *Jesus and Mary College*. *Ankit* came first at **Ecquizzite**, the Economics Quiz organised by *St. Stephens' College*. *Anwesha Chatteraj* and *Kumar Shashwat* came second at the Delhi round of **Enigma**. Delhi Quiz Circuit's **Oktoberfest quiz** held at *Miranda House* saw *Kumar Shashwat* bagging the third position in the Open Music, Entertainment, Literature, Arts (MELA) Quiz. *Harshit Gupta* and *Kumar Shashwat* came first at the **Tech quiz** held at *Maharaja Surajmal Institute*. *Rohan K.* came first at *Ramanujan College's Maths Quiz*.

SR-DTU ORGANISES QUESTIVAL 2.0

SR-DTU organised a technical seminar on core electronics and a week-long technical mini-fest with a plethora of competitions.

Workshops on Artificial Intelligence and Quadcopter-building were organised under **Questival 2.0**. A tech quiz, in collaboration with *Uber*, and a placement seminar was also conducted in the campus.

SR-DTU also organised **JUMPJAPAN**, which was attended by Japanese delegates from the biggest Ed-Tech Startup in Japan, *Progate*, and *Biz Japan* held a seminar on the scope of higher studies and career options in Japan.

DELTECH MUN AND DEBATING SOCIETY ORGANISES DEBATE

The DelTech MUN and Debating Society organised the **Youth Ki Awaaz** debate on 11th September. The members of the society also won the **Best Delegation** at the *ARSD Youth Conclave*. *Srishti Nanduri* received the **Best Delegate** award at *The Delhi Model United Nations Conference 2018*, *DU Conference Centre*, North Campus.



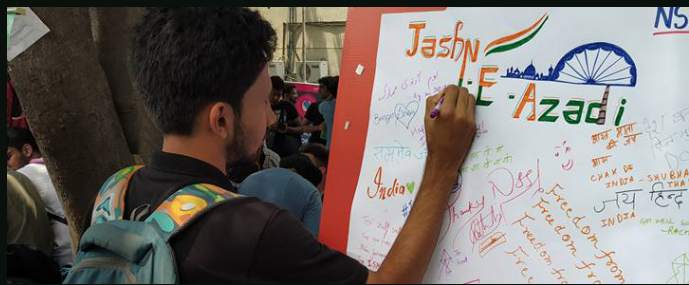
IEEE ORGANISES TECHWEEK '18

IEEE DTU organised the Animation Workshop, the Embedded Systems Workshop, the Robotics workshop, and the CURRENT-X workshop along with **MISSION MBA**, in association with *Career Launcher* as part of **Techweek '18**. IEEE DTU, in association with *Coding Blocks*, organised workshops by Mr. Arnav Gupta, *Founder, Coding Blocks* and Ms. Garima Chhikara, *Mentor, Coding Blocks*, along with **Solidworks**, a workshop on 3D CAD designing. The **What After College (WAC) Fiesta**, powered by *Microsoft, Hewlett Packard Enterprise*, and *EDC IIT Delhi* was also organised by IEEE on 13 and 14 October 2018.



NSS VOLUNTEERS FOR A CAUSE

NSS DTU bagged the second position for their work at the *Dadumandu Temple* under the Swachh Bharat Internship. They also organised the **Jashn-e-Azadi** in August. NSS DTU, in collaboration with the Rotaract Club of DTU, organised a collection drive for those affected by Kerala floods. They also organised a **Cancer Detection Camp** in August at *Subhakshika, Amar Jyoti Colony* where the volunteers assisted the doctors. They also resumed the **Kalam ko Salaam** initiative which aims to teach and engage students at the *Subhakshika Open Shelter*. The **Joy of Giving Week** was organised in October, wherein volunteers collected stationary and books for the needy. NSS DTU also conducted a first responders Training Session on road safety with doctors from AIIMS training over 350 people.



ENTREPRENEURSHIP CELL LAUNCHES AN APP

The Entrepreneurship Cell of DTU launched the **InternDTU App** at their orientation. The event was graced by the presence of Pro V.C., Prof. Anu Singh Lather. They also organised **Teachstars Startup Weekend - Delhi**, which saw many new startups putting forth their innovative ideas. A **Patent and IPR Workshop** was also organised.



KALAKRITI EARNS LAURELS

Kalakriti members painted a wall-sized graffiti of Bob Marley at *IIT Delhi* for their annual cultural festival, **Rendezvous**. In September, Kalakriti organised two workshops on Digital Art and Sketching. They also organised an online art competition, **Lakshay**, in association with the *Gyankunj NGO*. **Abhivyakti '18**, the annual Art and Craft festival of DTU, was also organised by Kalakriti. Members from Kalakriti participated in the *Rang Badlav Ke* event organised by various NGOs like the *Satyarthi organization* (run by the Nobel laureate **Kailash Satyarthi**). The team went to *Sanjay Camp* slum area to paint the walls.

SOCIETY FOR ENVIRONMENTAL SUSTAINABILITY ORGANISES A PLANTATION DRIVE

The Society for Environmental Sustainability organised the **SES-DTU Mega Plantation Event**, which saw the students enthusiastically participating in planting of saplings near DTU Lake. The event was graced by the presence of **Mr. Raghav Chadha** and was also attended by the Vice Chancellor and Pro Vice Chancellor of the University.



CASRAE ORGANISES BLOOD DONATION CAMP

CASRAE organised a **Blood Donation Camp** in association with the *Indian Red Cross Society* on 12 September 2018. It received an overwhelming response with over 300 participants. A guest lecture on **Emission Regulation and Control** in collaboration with *IMEchE DTU Chapter* by **Mr. Vagesh Shangar R., Senior Engineer-Engines Automotive, Mahindra Research Valley** was received well by the audience.



MADHURIMA STEALS THE SHOW

Vinayak Arora won the 3rd prize in Western Solo while Akash Narayan came 3rd in the Instrumental category at *All India Institute of Medical Sciences*. At *OP Jindal University*, Vinayak Arora stood 2nd and Akash Narayan stood 3rd in the Western Solo category, while Mahaba Ekka and Vinayak Arora bagged the 2nd position in the Western Duet category. The Madhurima A cappella team also bagged the second position in the **A cappella Competition** held at *IIT Delhi*. Pranshu Kukreti secured the 1st position in the **Roadtrip Nationals** held at *IIT Kanpur*.

The distance between Dilli and Delhi is the same as the emotional gap between being left awestruck at a sunset dotted with skyscrapers and being left mesmerised with mystical monuments that stir your soul.



Dilli is littered with souvenirs of the past with buildings issuing
their own singular statements of grace, while Delhi is cocooned
in exceptional banality that
routinely aggravates the burdens of a dying cityscape.



PROF. DAVE PARRY AUCKLAND UNIVERSITY OF TECHNOLOGY

DTU Times interviewed **Prof. Dave Parry**, Head, Department of Computer Science, Auckland University of Technology, New Zealand, who was at DTU for a one day international seminar on Recent Trends in Big Data Analytics.



Has the surge in the computer science industry in India, been reflected in New Zealand as well?

Not so much. I think it's starting to come back a little bit now. There wasn't so much interest in computer science five to ten years ago, maybe. Most people who later pursued computer science came from some other course, like, I came from physics. So, a lot of people who do computer science have actually done something else beforehand.

How has your background in physics facilitated your research in computer science?

I think that physics uses a lot of mathematics. It is a very good tool to analyze the sensibility of your solution. That's very useful in CS especially when you're dealing with data because reaching a solution does not mean it is true. So, it helps to check the authenticity of the solution.

Healthcare is not a domain one would usually associate with computer science. What specifically does your research in healthcare comprise?

Healthcare has a large amount of data and

there have been a lot of issues in dealing with that data and using it to make better decisions, treatment, and diagnosis. I'm particularly interested in how one can use computer systems and data to avoid making errors. I think there's a strong link there.

How does operating out of New Zealand, which is not connected to a mainland, hinder or facilitate your research?

New Zealand is a remote place, it's a long way from anywhere and it has a small population of 4 million people. There are not a lot of large companies like we have in India. So, one of the things that we have to look at is how to collaborate with other countries, to work together and how we can use the certain areas that we have and make the most of them. Hence, having an excellent instant communication is very important. If I was the in charge, I would say that putting up high-speed broadband networks is the top investment that you can make for developing computing.

A number of students do not consider research a viable career option, opting for regular jobs instead. How would you encourage such students to take up research?

A great advantage of computing is that a lot of students find good jobs which is why they do not want to necessarily go into research but I think that a lot of students develop curiosity in their jobs. The most important thing is to be passionate about what you really want to do. I am very flexible with people moving back and forth. Also, fortunately, New Zealand has quite a few students who are actually working in a job and studying for research.

How important is it to know the specific area you want to research in?

I think that there are three important things- first being able to recognize yourself. You must know whether you like writing programs, doing analysis or developing algorithms. Second most important thing is who you're going to work with- a team or a supervisor that you're going to have an effective collaboration with. Lastly, you need to know what exactly you're going to work on. If you're using the skills and techniques that you enjoy using, then you'll definitely go a long way.

Read the full Interview on our official blog www.dtutimes.wordpress.com

INTERVIEWS



PROF. PHILIP DAVIES ASTON UNIVERSITY, UNITED KINGDOM

DTU Times interviewed **Prof. Philip Davies, Aston University, United Kingdom**, who was at DTU for an international workshop on Networking of Technology and Education for Sustainable Development.

How has sustainable development in India and Europe progressed differently?

Europe has a higher GDP growth and lower pollution index. In India, economic growth is the priority while in the UK the reduction of greenhouse gases and the well being of the environment is being prioritized.

What are your thoughts about the problem of overpopulation in India?

I think the problem is reaching a saturation point and it needs to be controlled. As you know, high population growth tends to go together with the rural economy and poverty. In rural economies, families tend to have lots of children because they think it is beneficial to have more children to ensure the future of their family. Hence, with good education and gender equality, the population growth automatically goes down.

Being British, how do you think has colonization affected the development of the nation?

I think colonization has a negative impact on any nation. It changes the natural structure of the country. The biggest legacy of the British colonization in India was the partition between India and Pakistan which remains a problem to this date because of the unrest in the Kashmir region. So colonization has definitely hindered the development of this

nation. But luckily India has recovered well from the aftermaths of the colonization because it is much more developed than ex African colonies like Somalia and Nigeria. And I am positive that the ongoing trend of innovation in the world will carry the world out of the colonization fallout towards a more sustainable future.

As the Head of the Water Department at the Aston University, what do you think about the role of water as an alternative source of energy?

Wastewater can be used to cultivate bio-energy resources and water can also help in the production of hydrogen gas which is a fuel. We can recover a lot from wastewater. Biochemical fuel cells can be used to harvest energy from water. So, energy can be harnessed efficiently from water resources.

How important is harnessing water resources in sustainable development?

I think it's crucial because water is an absolute necessity. It is the most important resource. For a country like India which is much of an inland country with huge landmass with many big cities thousands of kilometers away from the sea, if the cities don't recycle wastewater, where will they get the water from? Wastewater recycling is very practical and essential. It's not really the technology but it's the investment that toughens up the arrangement of technology for this process.

How can the engineers contribute to sustainable development?

They can make a huge effect because it is changes in technology that transform economies ultimately. So the moment there is a big revolution in information and communication technologies in India, it could be a big way to revolutionize the development.

Do you have any message for students of DTU?

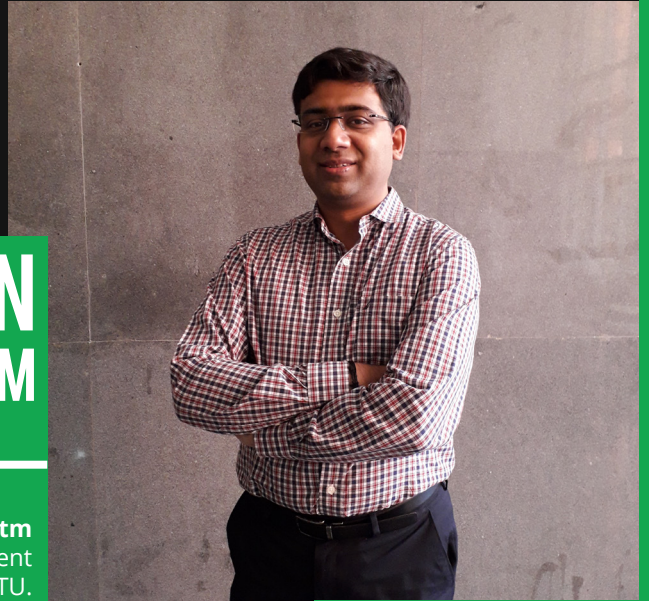
Yes, you should keep an eye on networking and maintain good contacts with your fellow alumni and teachers because that will be very valuable to you in the next few years.

Read the full Interview on our official blog www.dtutimes.wordpress.com

INTERVIEWS

MR. SAURABH JAIN VICE PRESIDENT, PAYTM

DTU Times interviewed **Mr. Saurabh Jain, Vice President, Paytm** who was at DTU as a keynote speaker for the Delhi Section Student Congress 2018 (DSC), organised by IEEE Delhi Section and IEEE DTU.



With other online wallets trying to win customers, how does Paytm manage to stay on top of such tough competition?

The differentiating factor is that most of our management team and our founder is from a small town city, and when you come from a tier 2 to tier 3 town, you know what India is. One is India and one is Bharat, and since all our competitors are basically US multinationals they only know what is India, not what Bharat is. That is where we have an edge over them.

What do you think are the challenges faced by organisations that depend on Digital Marketing and what are the future prospects of it?

Digital Marketing is becoming very important these days because you have digital products for everything and you have to promote them. I came across a case study recently that said a large share of what the startups spend on is digital marketing, making it the number

one expense for all the startups. Its growing into a very big thing, and everyone should have a strong hold of it. You should learn it even if you're an engineer, because if you're in a product based company, you have to do some sort of digital marketing within your job indefinitely.

Students in-campus, nowadays aim to get the best of the best internship opportunity at the best company. Where do you think maximum learning is done, at a company working as an intern, or by publishing research papers on the preferred topic ?

One should work in a company, especially in a startup. That's the best thing nowadays. Research papers can also be published during holiday time but I do think that one should focus more on practical experience. Also, one should do research for the benefit of the common man. I think most research paper writers do not think in that way, they do it as an addition to their resume.

What advice do you have for the students wanting to learn digital marketing?

Key to learning digital marketing is to start a startup or join a small one, because you get to learn things like digital marketing in a startup everyday. Someone around you is already doing it. So if you want to learn digital marketing, joining a small startup is the best option.

Read the full Interview on our official blog www.dtutimes.wordpress.com

INTERVIEWS



PROF. RAJESH ROHILLA HEAD, TRAINING & PLACEMENT DEPARTMENT

DTU Times interviewed Prof. Rajesh Rohilla, Head, Department of Training and Placement and Professor, Department of Electronics and Communication Engineering.

What all encompasses in the job of Head of Training and Placements department? How important is the role of a Placement Coordinator in the placement process?

The role of the Head of the Training and Placement Department consists of defining the placement policy, selecting the Placement Coordinators, identifying the prospective employers, inviting them for campus hiring and internship. He has to finalise the schedule of visiting companies and provide them with all the assistance needed. He has to ensure that the maximum number of students are getting placed, and are getting handsome salary package consistent with their capabilities. DTU has a rich legacy in terms of alumni base and the same must be explored to the fullest for getting a large number of recruiters to the campus.

There are only a handful of core companies of various branches including and not limited to ECE, EE, ME and CE that visit the campus, due to which the students resort to a Non-Technical job. How will you tackle such a problem?

There's a lack of interest among students in their core subjects. Choice-based Credit System (CBCS) gives the opportunity to choose advanced subjects in their area. With a better understanding of their branch subjects, the students would definitely be inclined towards technical jobs. We are trying to reach out to more and more core companies for better

placement prospects of all branches.

At the same time, we are also exploring the possibility of collaboration for joint research/project work. With relevant projects, core companies will find our students since they seek students with in-depth domain knowledge.

What changes do you plan to bring about during your tenure as the Head of Training and Placements department?

The first initiative we have undertaken is allowing B.Tech. (Evening) students to participate in the placement process as well. We will also focus on enhancing the placement opportunities for M.Tech. and MBA students. This time, we will also try to make provisions for placement for Ph.D. scholars. We will resort to our strong alumni network for bringing relevant recruiters.

We plan to explore the possibility of collaborations with industry for lab development, projects, and specialised training programs in various areas and in tune with the current technology trends. This will be helpful in taking up industry relevant projects. Apart from this, we also intend to tie-up with universities and research laboratories for the purpose of offering internships.

What message would you like to give to the students of DTU, for better placement opportunities?

It is my personal suggestion that students must start working on their soft skills and personality development right from their first year since this is a long process. Expertise in technical domain knowledge takes comparatively lesser time than the development of life skills. Secondly, the students must identify which field they want to pursue, be it technical or non-technical, and start working towards it early. You don't need to be a master of the subject, but your concepts in the subject should be thoroughly clear.

During the placement process, always have a positive attitude. You shouldn't get disheartened on initial few failures. Stay motivated, and you'll ace the placements. Strive for excellence, and you'll eventually attain success.

Read the full Interview on our official blog www.dtutimes.wordpress.com

INTERVIEWS

ANANT SHARMA BRONZE MEDALIST, ASIAN CHAMPIONSHIP, XINXIANG, CHINA

DTU Times interviewed **Anant Sharma, 4th year, Computer Engineering** who won a Bronze Medal at the Asian Championship for Lawn Bowls held in Xinxiang, China



Who introduced you to lawn bowls and what got you hooked to this game?

I did my schooling from DPS RK Puram, which had 2 Lawn Bowl greens in the sports complex. This amazing journey started when our coach, PE Teacher at DPS RKP and Commonwealth Medalist introduced us to this game during 8th grade. To the normal eye, this game might not seem as engaging as other sports, but the amount of concentration and strategizing required in Lawn Bowls makes it one of a kind.

What future does this game have in India according to you?

The Bowling Federation of India is in talks with the Olympics Association to get this game included in the upcoming Olympics. Lawn Bowl is already present in the Commonwealth Games and has brought India numerous medals. Each year, players from more than 14 states participate in National Games as well as a separate National Lawn Bowls Championship. The game is gaining popularity in India and participation is increasing every year. Steps to improve the infrastructure for the game are being taken in the country.

What is your next stop and how are you preparing for it?

Winning the Bronze Medal for India in the Asian Championship feels great. Our next target will be the Birmingham 2022 Commonwealth Games. In the meantime, we also hope to represent Delhi in the coming National Games (Goa '19). As far as practice is concerned, we are day scholars and so we have to utilise our time wisely. The final year has been kind, we've been lucky to get this extra time to participate in the Asian Championship without losing much of the studies.

What are some of the biggest hurdles you faced while preparing for this championship and how did you tackle them?

Managing the university and practice simultaneously was tough. We used to come to college, attend some labs and lectures and then go straight for a three-hour practice session. And then there were mid-semester examinations to add pressure. But all the hard work was worth it when the Indian Flag was raised during the medal ceremony.

Nowadays many students get lost in academics and ignore their talent. So how important do you think it is for oneself to recognize their true calling?

Academics are very important without a doubt. However, one should always try not to completely eclipse the extracurriculars and ignore one's talent. If a person tries to manage his time well and pursue his/her talent along with academics, it will always act as the icing on the cake.

What is your message for other students who are sports enthusiasts?

A close match even if lost, can teach a person what he may not learn in the entire course of ethics in a semester, if played with the right spirit. One should not neglect sports just because we may not need it in our professional lives. Sportsmanship is never lost, be it on the field or a conference room.

Read the full Interview on our official blog www.dtutimes.wordpress.com

INTERVIEWS



MAJOR GENERAL (RETD.) P.K. SEHGAL

DTU Times interviewed **Major General (Retd.) P.K. Sehgal**, who was at DTU for an interactive session.

What are your thoughts on a career in defense for the youth of the country?

At the time when my elder brother and I joined the services, we were very bright students. Defense career was our first option. The highest level of heads and hearts used to opt for these services. It is a sad thing that today it has become a career of last resort. Students take it up when they have exhausted all their opportunities. There is a population of 1.25 billion in the country, yet there is a shortage of 15-20% of officers in the Air Force which will have cascading implication in the future. We are only looking for people with the highest head. A small mistake, and numerous lives will be lost. If an equipment is not handled correctly the defense will have to incur a loss of 20-30 crores and the replacement will not come into service for at least 30 years. So under these circumstances, we cannot make compromises, we are looking for people who can endure such pressure. The integrity of a nation is at stake.

According to you, what are the internal challenges faced by the Indian Army?

There are huge challenges as far as the internal dynamics are concerned. Firstly, the armed forces are structured to fight the wars that were fought in the Second World War. The army needs to be restructured to fight the network-centric warfare of the 21st century. It requires a huge amount of change

at the top-level. After the Kargil War in 1999, remedial and peripheral recommendations have been made. Although bureaucracy has failed to implement major recommendations. Saying that we have an integrated ministry of defense is not precisely correct. All services are functioning virtually in an environment of their own. There is a lack of coordination and intelligence sharing and gathering between the army, the air force and the navy which in turn leads redundancy of work. As a result, a huge amount of money is being wasted. If all this becomes integrated, we can save phenomenally.

Secondly, today the biggest threat to the armed forces is the cyber threat which poses a grave danger to the nation. Even today attempts to tweak our water, transport and power distribution systems are being made which, if not dealt with properly, will prove chaotic. Even before the first bullet is fired, should it ever take place, there will be chaos within the country as we will be defenseless.

Thirdly, the space-based command system is a reality. We've been talking about cyber and space command for a very long time. Now would be the right time to work in this direction. Moreover, modernization in the defense system is something that we have failed to follow, steps should be taken in that direction as well.

What is your perspective on women in armed forces being made eligible for the permanent commission and how fruitful do you think it will prove to be?

It is extremely important to keep up with the times. All over the world, women are being empowered. As far as India is concerned 49.5% of its population is women. Presently, only 8-10% of this population is working. If India has to turn around and find a place of its own in accordance with its demographic, geographic, economic and military crowd, it has to empower women. I think it's a very appropriate and properly timed decision.

Read the full Interview on our official blog www.dtutimes.wordpress.com

ALUMNI NEWS



Alumni Meet February'18

This year's Alumni Meet, second North American DCE-DTU Chapter meet, took place at Hotel Hilton, San Francisco, USA, from 16th-18th February, 2018. The meet was marked with the addition of some new faces. It was an evening of enthusiasm and nostalgia.

INTERNATIONAL TIES

A MoU was agreed between Delhi Technological University and the University of Georgia to engage in cooperative educational, research and outreach activities for the mutual benefits of both institutions. **Prof. Pravir Kumar** took the initiative of MoU together with 2002 pass out alumnus of DCE, Polymer Chemistry **Prof. Hitesh Handa**. Prior to the signing, three delegates came to DTU and interacted with students, faculty, and officials. They also explained the entire possibilities of MoU with **Pro VC Prof. S. K Garg**, **Prof. Jai Gopal Sharma** and **Prof. Pravir Kumar (Dean, Alumni Affairs)**.



MULTIPURPOSE “RAJ SOIN HALL” AT DTU

The proposed multipurpose building, which is under construction, at the University will be named after an Indian-American philanthropist **Dr. Rajesh K Soin**, an alumnus of the 1969 Class of Mechanical Engineering; now Chairman and CEO of Soin LLC in Ohio, USA. He made a hefty contribution of 5 Crores towards the construction of the hall, which is ought to open new opportunities for the students.

NEW OFFICE BEARERS MEET THE VC

Honorable Vice Chancellor **Prof. Yogesh Singh** congratulated newly elected president of DCE-DTU Alumni Association, **Dr. Muktesh Chander**, DGP Goa, and other office bearers at DTU on 18th September, 2018.



KNOW YOUR ALUMNI



RAVI GROVER

- Mechanical Engineering, Class of 1971
- Completed PhD from IISc, Bangalore
- Founding Director of Homi Baba National Institute
- Worked as President of Indian Society of Heat and Mass Transfer, 2010-2013
- Received Padma Shri by Government of India, 2014

MEERA MUKHERJEE

- Diploma in Painting, Graphics, and Sculpture from Delhi Polytechnic (present-day DTU)
- Received Senior Research Fellowship from Anthropological Survey of India in 1962
- Received Press Award for the Master Craftsman from the President of India in 1968
- Awarded Padma Shri in 1992



ROHIT CHADHA

- Computer Engineering, Class of 2005
- Worked at Merrill Lynch, U.K., as an investment banker
- Co-founded Foodpanda, online food ordering app, in 2012
- Ranked 22 on Fortune 40 Under 40 Most Influential Business Leaders List, 2015

Hostel Life in Different Epochs

Rishabh Chaurasia, 1st year, COE

Mandeep Singh, 1st year, COE

Raj, Rishika and Ruhu are three youngsters who have to leave all their comforts and shift into the hostels of Bawanaland. Raj is a small-town boy from Bihar of 1980s. Rishika is a modern, present-day middle class girl of 2018 from Delhi and Ruhu is a rich lad hailing from the splendours of South Mumbai of 2040.

Raj regrets the fact that he couldn't get a college closer to his home. Aware of the truth, that he will be coming back to his home only after a year, he takes a step out of his doorstep into a world devoid of his loved ones. He promises to write a letter every week and spend less than 30 rupees each month. His parents, teary-eyed yet smiling give him their blessings, and as the train starts rolling, he realizes that he has to embark on this journey, all alone. The only thing that keeps him going is the thought of the smile and joy on his mother's face, the pride in his father's eyes when he will receive his engineering degree.

With several promises (including video calling everyday) and dreams (to grab that 1 cr. package), along with some tears (and a powerbank in her hand), Rishika hugs her parents one final time before settling in the hostel. Now, her roommates are to be her new family, her hostel mates are to be her new friends, and the college is to be her new home.

Fast forward a month, she loves the freedom and independence she has been getting but there are certain obstacles too! Limited by her budget, she cannot choose to ignore the mess food and order from outside everyday, nor can she stay out after 10 for a bash (at least legally).

Coming straight out of South Mumbai, Ruhu expected not much but only a private bedroom, an attached convenience and a pool in his hostel. Of course, his expectations were met, but the mess still didn't serve Italian or Caribbean on weekends. That wasn't a concern for him though, as MicMac's™ Herbed- Spice Lasagne put him at peace. When it came to choosing between Starbucks' Bawana Chip Frappuccino and Maggi Baba's good ol' Masala Chai, the *latte-r* always won. Ruhu did promise his parents to hyperloop back at least once a week, though it's another story that he returned only when his room's temperature controller failed or when he was completely fed up (quite literally) with the bland sushi of the mess.

The complexities in different timelines pose different problems of living in a hostel, but few things never change. Creating long-lasting relations with your partners-in-crime, hating on the mess food, having midnight celebrations involving expensive treats and cheap drinks, watching movies and talking on nothing and almost everything, fighting for the silliest of reasons and forgetting them the very next morning, missing parents (and their pampering during sickness) are some of the many things that all have in common, irrespective of the timeline or the location. Rightly, all of it makes hostel life the best phase of our lives.



THE 3 KIDS WHO CHANGED MUSIC

Shrey Padhi, 2nd year, PIE



In the summer of 1986, a group of high school buddies, Rob, Shoji, and Frank set out for one of the most remarkable musical journeys, one which would take the whole world on a crazy trip. It all started with the heartbreak of losing another close friend, when these three, and Alphonse, whose face was no funnier than the clown of their local circus, were in high school, frustrated from the science stream subjects they had, annoyed at the teachers for asking assignments after they procrastinated it till the morning school bell, and where they couldn't be more carefree about their marks.

In those days, they became close friends by just sharing music through MySpace. It was all Rob's idea, to perform on Alphonse's funeral on that rainy day. Their passion, love, and energy brought everyone gathered to tears on that rainy day. Their unorthodox constant rhythm technique was something which got the attention of many locals, who begged them to perform on open mics. Five years later, the band Evolution was credited with the creation of a whole new genre evolved from Alternative Rock, the Grunge music.

Rob and Shoji had decided to do something completely different for the year 2000. They had planned to fuse the very popular Electronic Music with Alternative Rock tunes, with just one goal in mind, the prestigious Grammy Award. With the use of rented synthesizers, in Rob's backyard, the band members started experimenting. Rock music was slowly dying then, so this was one of the only ways for them to stay relatable. Failing to do so would end with them on the streets. Their album track, 'I'm out', which they recorded after Frank said so before leaving the band, had topped the charts in the US.

In later years, the band was commercialized heavily due to their global popularity. Evolution would sell out the biggest of the biggest arenas, from New York's Madison Square Garden to London's Manchester Arena when they would perform.

They began to get very tired, performing day-in and out. Rob felt that this way the band would not be able to create something new and fall behind as they did in the 90s. He was the creative genius of the band and one of the two band founding members who was holding the band together. He was always the quiet observer and had always appreciated something different. With all the tours that Evolution was going on, away from family many times, there was no time left to create anything new. This got Rob really frustrated. He felt like he was in school again, being controlled by his teachers, who he never liked.

On the day Evolution got their well-awaited Grammy, only Shoji went on-stage to collect the award. It was two days after the frustrated mind of the creative genius Rob gave in to the thoughts of suicide. The fast paced, money-minded music industry had taken another life.

A handwritten signature in the bottom right corner, likely belonging to the author, Shrey Padhi.

If we were a Movie

Anjali, 3rd Year, CE

Our life undergoes a complete overhaul when we knock the doors of college. Here is what it might look like from behind the lenses of a camera if we were a movie in making...

Landing in DTU must have left most of you with no choice but to have school memories of less friends and more books. And when you looked at a couple in school, you couldn't help but wonder 'Jaane Kyun Log Pyaar Karte Hain?', sigh and drown back in your books. From then, to introducing yourself to every girl as 'Mere Dost Mujhe Majnu Bulaate Hain!', you do come a long way!

You're in Electrical and the one good thing that you wished for was to have a Circuit like Munna does, who'd settle you in hostel. But alas, you find yourself playing Ranbir from *Wake Up Sid* instead while moving beds and putting curtains with your Sherlock posters compensating for the lack of aesthetics.

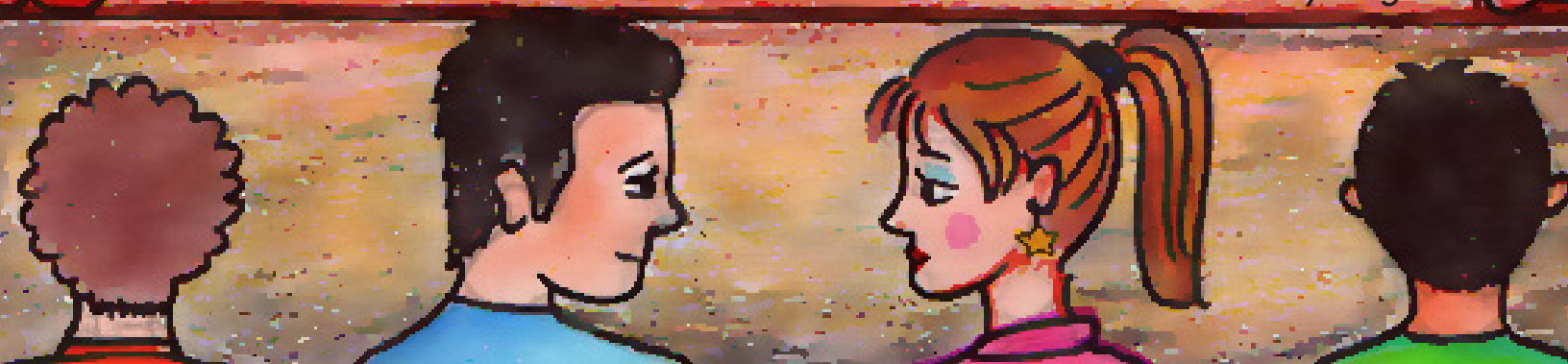
And how can we miss – the nostalgia of home! Did you ever know what it felt like to miss your parents before you shifted to hostel? And, go back home to your mom's food after days and finally realize the feeling behind people singing 'Yeh Toh Sach Hai Ki Bhagwan Hai' for their parents. You conclude that 'Hum Sath Sath Hain' was not an exaggeration after all!

Suddenly, your social circle inflates much like becoming Laxman from Ram in *Main Hoon Na* with the exception that Ms. Chandni is nowhere to be found!

From reaching out for the alarm clock's *Subah Hogayi Mamu*, to nights when you felt *Ki Naina*, *Kaash Is Raat Ki Subah Kabhi Na Ho...* daytime memories of school turn into nights that you won't forget in college.

But sadly, even the best of movies come to an end and before you even realize, *Kabhi Na Beetein Chamkeele Din* becomes a thing of the past. Now comes the time to move on to *Rocket Singh* from being Rancho, and it's another transition that you gear up for!

Tanmay Singh



DTU in an Alternate Universe

Priyansh Soni, 2nd year, COE

The day started as I woke up unsettled with the controller still unearthly wrapped around me from last night's gaming session. Nonetheless, I grabbed my yellow-coloured-Skullcandy and headed to college. I was already having a nagging presentiment of something worse as the cacophony of 10-rupee sawari could no longer be heard. Hesitant, I still took the 879 for the college and grabbed a seat quickly.

I decided on grabbing my usual at HPMC and I sipped on my masala Nimbu Pani only to notice that my HPMC juice corner is now *Apka Apna Deol's Pvt. Ltd.* with Abhay Deol as the brand ambassador for their Oreo shakes. I was impressed at the idiosyncrasy but benumbed at how it all ended up like this since the last time I attended classes.

To avoid any further revelations, I started walking nonchalantly with my ear-splitting hum towards the OAT. I heard something similar to the chime played by very, very ancient clocks and lifted my head up only to see that the clock in the clock tower sounded the hours distinctly audible to even the ones performing *Forging* in the Workshop. I qualified that as daydreaming and decided to rush off to class.

As I was bursting in my class, I overheard a bunch of students complaining about how Electrical kids don't have the heebie-jeebies about a plethora of pending assignments and practicals. Bewildered enough, I knew now that I was either very sleep-deprived or very hungry; trusting my guts for the latter, I headed to Micmac for *Chandan Bhaiya's* Rajma-chawal, credited with the supernatural power to fix everything.

I saw a poster of *Kabali 2* starring Chandan Bhaiya as the antagonist opposite Rajinikanth. I felt every bit of the *garam rajma* slide down my oesophagus as I tried to grasp what I had just seen. At this point, I knew I had seen enough and despised everyone who'd told me to trust my guts, and rushed to the main gate.

As I walked past the trees, everything turned hazy like the helmet of someone driving through the fog in Delhi winters, and the roads seemed as empty as the *Maal* road past 11 P.M. As I was about to reach the main gate, I saw a Maruti 800 slowly come towards me and rush in through me. Last I remember is lying in Maggi Baba's arms, and the world seemed at peace. I recall a mystical figure pulling his hood back on and then came the feeling of being sucked by something so powerful that even my Patronus couldn't save me.

My clock was chiming. I woke up feeling unsettled and was wrapped in my controller. I still had to finish my assignment and rush to college.



अमृतसर का रावण

लोकेश नारायण, द्वितीय वर्ष, आई.टी

रावण को देखा है हमने रामायण में
गायब होना और फिर अन्य दिशा से हमला करना
ये छल-कपट तो पहले से ही थी उसके चाल में।
जो अमृतसर में हुआ, शायद ये उसी पापी का एक जाल है
हम एक दिशा में अटक गये रावण के जल-मरने के इंतज़ार में,
रावण भी भांप गया इसबार के मुकाबले में श्री राम नहीं
बदलो दिशा करो आक्रमण जान की कोई परवाह नहीं
एक बाज़ी में समय का पहिया ऐसे घूमा है
रावण की काया भी मंडराती है सर पर ये हर कोई भूला है
यही मुसीबत का कारण है
नतीज़तन हार रहे लोग हैं, जीत रहा रावण है
इस रावण की बला पर किसी का जोर नहीं
जिनका जोर था किसी युग में रावण पर
इस युग में अभी वो मौजूद नहीं
इस युग में ...हां
इस युग में मेरे श्रीराम नहीं, वो मेरे हनुमान नहीं!

Dakshita

The Dtu-Dce Paradox

Karan Singh Bora, 2nd Year, EE
Srishti Mittal, 2nd Year, PSCT



What happens when a student from 90s DCE suddenly wakes up in modern-day DTU?

I must have dozed off again. I have to admit, nothing beats a mid-lecture nap on a Monday afternoon.

“Log in to your individual apps for the attendance, everyone!”

Startled by this sudden announcement, I ask my partner what the professor is talking about. He gives me a cold glance, as if I’ve asked the most absurd question. I see him turn on his - *is that a phone with no buttons?* - and click on a blue icon. To my surprise, this somehow makes the professor aware of his presence inside class. Before I can ask any questions or beg him for attendance, the professor hurries away. I’m left confused as to what is going on within the lecture hall; apparently, it transformed while I was asleep.

My classmates - strangers, all of them - begin to shuffle outside, and naturally I follow. What I see outside makes me freeze in my tracks. Lush greenery, wide roads - I’m apparently in a huge campus with an equally massive number of people to fill it. In the distance, I sight a clock tower without a clock.

Following the endless stream of students originating from sources unknown, I enter what seems to be the main canteen. I take one look at the price of a samosa and walk right back out, suddenly no longer hungry. This feels even more mind boggling than the time I went to attend that advanced workshop on Signals & Systems. Nothing makes any sense; am I in the right college? The right *century*?!

However, a figure clad in white catches my eye. Sitting comfortably on the pavement, surrounded by large steel vessels and hungry students: the legend himself, Maggi Baba. I see a boy knock over a glass, and Baba releases a familiar outburst of profanities. Tears blur my vision as I take in the comforting sight.

I guess some things truly never change.

Different Ages, Different Problems

Ishaan Gupta, 1st year, ME



When I was a little boy, I would often go to my grandpa's room. We didn't have a TV then, and many of my friends weren't allowed to play in the sunlight, consequence of their mothers trying to preserve their skin complexion. Pa would always make space on his '*khaat*' for me to sit. His life stories were simply beautiful. He had been a bread winner for his parents and his 6 siblings since the age of 7. He had slaved away his youth working in fields and worrying every second. He went on to go to college through a scholarship and was hired as a lecturer by the university. Life moved so fast for him that he always had something to do, whether it was getting an education or a paycheck, he never had the luxury to think about what he wanted to do. He knew that his son - my father - would be better.

My dad went to a government school all his life. He had duties to fulfill - being the eldest of his siblings - like doing all the house chores, often making his own lunch for school, sewing up his own shoes instead of buying new ones. He would travel in buses in chilly December mornings to get to a school. He married my mother at the age of 21. He started his own business, taking the seed money at crushing interest from the market. For the first 5 years of his business, he took no leaves, making sure that he earned just enough to feed my mom and I. He took no breaks, because he had a dream of his giving his lovely son everything he wanted, a goal he achieved.

He has only expected one thing from me all his life: to be successful, and have a happy life. Seeing their lives, it seems like a very simple thing. But how am I supposed to be successful, when I don't know what I want to be successful at? How am I supposed to look him in the eye and tell him that his boy isn't happy?

My problems aren't tangible like my kin's. My problems exist in my head, ever aggravating and dancing in different parts of my head. Continuously looping, hiding themselves in different parts of my brain, leaving me a reluctant victim in a snowstorm.

So I go looking for answers. I skip yet another class and get on the metro. I put on music to drown out my thoughts. And then, I finally reach my destination. I walk the rest of the way. I climb up the stairs and ring the bell. My aunt opens the door as I walk inside, greeting her gently.

I sit at my spot on the *khaat*, joining my hands to greet my grandpa.

Featured under *#dtutimes*



Image by: Vyom Garg (@vyom_garg25)

The road less travelled would not always make the difference. You will have to take a lot of wrong paths, to find that right one.



Usually a frenzy of activity during Engifest, this lane lies isolated during other parts of the year.

Image by: Sourav Kumar (@virudhh_photography)

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