



DTU
TIMES

Welcome Freshers

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Editor's Note

Many a beginning constitutes the lives we live. Every year, the journey of incoming DTUites begins holding in hand scores of loosely bound documents- and this Edition. The beginning of your preparation for this day included you making perhaps your first life-altering choice- your senior school subjects. It started with toiling through challenging, often oddly relatable numericals and continued through the frantic tension of approaching consecutive Board exams and the engineering entrance exam to top them all.

Through seemingly unending sets of ninety questions and a confusing counselling season, you have made it here, to yet another beginning, perhaps the most important one yet. And the Edition nested in your palms will be here to guide you through this new journey to its crescendo.

You will find yourself amidst a crowd of unique individuals, some supposedly sorted from the get-go, yet others overwhelmed by the enormity of their circumstance. It is in the company of such individuals, you will find your own journey. The journey demands that you explore and learn, that you create and innovate, that you lay open yourself to new ideas, opinions, methods and ways. And the journey ensures that you arrive at your next beginning, all of four years later, a new person, often a faint shadow of your current self.

Through the first year of perplexity, second of realisation, third of preparation and fourth of consolation, what thousands of DTUites have realised is that despite the months of perspiration, long nights and inspired mentality, nothing prepares you, dear Fresher, for what lies ahead of you. For in every corner of this sprawling campus lie stowed tales waiting to be told, memories waiting to be made and opportunities waiting to be seized.

Through this Edition, curated especially for you, we give you a brief introduction to what awaits you beyond our towering gates. As you make yet another beginning, dear Fresher, we present to you the 43rd Edition of DTU Times.



FROM THE DESK OF THE VICE CHANCELLOR



Among India's premier institutions for higher education, Delhi Technological University has always ranked high in the wishlist of engineering graduates around the country. With over 75 years of legacy behind, DTU has forever held its own as an institute of great eminence and repute. On behalf of the administration, faculty, staff and existing students of DTU, I extend a warm welcome to all newly-admitted students. The following four years will be full of learning coupled with great opportunities to explore your fields of interest.

The previous academic year witnessed yet another successful placement season, with industry leaders from across fields visiting to recruit the cream of Indian talent. Our students bagged offers from the world's most prestigious companies for both placements and internships.

Students of the University also showcased stellar performances in examinations such as CAT, GMAT, UPSC CSE, IES, GATE and GRE. A number of our students are now pursuing further studies in the best universities of India and the world, taking the name of DTU to greater heights.

At DTU we believe in research as a driver of change. DTU hosts the best academic talent from across the country serving as members of the faculty. Both faculty and students have been pursuing exemplary research, being published in leading scientific journals and conferences of the world.

The Technology and Business Incubator Unit, established under the DTU Innovation and Incubation foundation has unceasingly sustained the spirit of entrepreneurship and vision of pioneerism in our students. We have witnessed the emergence and expansion of plenty startups in the past few years.

The DTU alumni have made us proud throughout the history of this University, and set excellent examples in every possible career domain.

The previous academic session saw the commencement of the University School of Management and Entrepreneurship (USME), located at DTU's East Campus, which runs economics, business and managerial courses. This year, we have introduced a course in Design, adding to our prolific undergraduate programs.

I would like to give my heartiest congratulations to the DTU Times team, firstly on publication of their 43rd edition, and also for their continual efforts in tirelessly maintaining the dynamic broadcast of information that fosters an enlightened community in our University.

The conjoined efforts of relentless students, faculty, administration, and the staff have preserved an exceptional environment in DTU that allows persistent exchange of information and upholds the unmatched excellence associated with this University for eight decades. I give my best wishes and once again welcome the newly admitted batch of 2022.

-Prof. Yogesh Singh

MESSAGE FROM THE PRO VICE CHANCELLORS



Prof. S.K. Garg

DTU constantly strives to be among the epitome of engineering institutes of India. Being a part of DTU comes with the responsibility of upholding the standard and reputation our esteemed institute possesses. We strive to not only impart academic excellence to our students but also to also inculcate the values of social and global responsibility.

The introduction of the Bachelor of Design (B.Des.) program in our university, prepared by experts from many different fields and universities, is one of the many initiatives taken cement the position of DTU in academic excellence. The newly established Department of Design strives to provide exemplary education, training and research through programs in Design with top-notch facilities and endless opportunities for the growth of our students.

The university scales new heights with each passing day and the onus to uphold the legacy is equally on the management and the students. The students have done exceedingly well by doing exceedingly well in research as well as the corporate circle. Our students have bagged placements in some of the leading companies of the world including Amazon, Adobe, Texas Instruments, Qualcomm, Samsung, McKinsey and Deloitte.

I extend a warm welcome to the incoming batch and wish them luck for the years ahead. I also extend my wishes to the outgoing batch for the upcoming placement season.

Prof. Anu Singh Lather



With every passing year, DTU is gaining new heights and strengthening its position among the top choices of engineering aspirants across the country. We continually aim for the betterment of existing educational facilities for our students so they excel in what interests them. Expanding existing educational infrastructure and providing unparalleled facilities has always been the norm at DTU.

It gives me great pride to announce the successful completion of one year of University School of Management and Entrepreneurship (USME) at DTU East Delhi Campus. In times of a rising number of earnest students, providing good education becomes imperative. Every new start is an opportunity for greatness and this achievement adds another feather in the cap for this esteemed institution.

To meet the rising competition, DTU has ramped up faculty recruitment to ensure that the students are taught by the best. Distinguished and competent people from all over the country teach at DTU, thus helping it spread its wings among academic circles. With such skilled guidance, our students are poised for excellence.

I would like to welcome all the new students to DTU and wish them best of luck for their time here!

THE BULLETIN

DTU Among Highest-ranked in Engineering

Delhi Technological University emerged among the highest-ranked engineering institutes in multiple college surveys. DTU was ranked 2nd in the **Competition Success Review-GHRDC Engineering College Survey**, 5th in the **i3RC Times Engineering Institute Rankings** and 7th among Government Engineering Institutes in the **India Today Ranking**.

4th International Yoga Day

NSS-DTU in collaboration with **Bharatiya Yog Sansthan, Delhi** organised the **4th International Yoga Day** in June, 2018. **Prof. Yogesh Singh, Hon'ble Vice Chancellor, DTU** graced the occasion as the Chief Guest. The one and a half hour yoga session started at 6 A.M. The event witnessed participation from people of different age groups, who were instructed by yoga professionals.



ESCI Program

Engineering Staff College of India organised a workshop on **NAAC-SSR/NBA-SAR filling and preparedness for assessment** in **Delhi Technological University** in May, 2018. The program focused on the need to deliver the highest quality of education to increase the mobility of engineering students across the globe.



Exploring Engineering Program

A 6-day Basic Program on **"Exploring Engineering"** was organised by **Prof. R.S. Mishra, Dean (Outreach & Extension Activities)**, in June, 2018. It was open to the Students of Class X/XI/XII of **Private and Government Schools**. The objective of the program was to impart basic knowledge in the fields of Civil, Electrical and Electronics Engineering.

Expansion of DTU

The expansion plan for Delhi Technological University was approved by the **Expenditure Finance Committee**, chaired by **Mr. Manish Sisodia, Dy. Chief Minister of Delhi**. The proposal includes the construction of **two new 10-storey academic blocks** and **three new 13-storey hostels**, adding an approximate strength of 3,000 students to the University.



Appointment of Ombudsman

Prof. Durg Singh Chauhan, *Hon'ble Vice Chancellor, GLA University* was appointed as the part time Ombudsman of DTU for redressal of grievances of students. He has been the former Vice-Chancellor, Uttar Pradesh Technical University, Uttarakhand Technical University, Lovely Professional University, Jaypee University of Information Technology and Secretary General, Association of Indian Universities. He has dedicated three decades of his life to the upliftment of tribal areas and is admired for his numerous contributions to the society. He was also conferred with the Best Engineer Award by Institution of Engineers, Lucknow in 2001.



Design Workshops

The newly created **Department of Design, DTU** organised its first creative workshop in handicrafts, "**Crafting with Bamboo**" in June, 2018. The 10-day design cum skill cum hobby workshop was conducted by **Mr. Vivekananda Bagchi**, *National Awardee and Master Craftsman*. The workshop was open to students, faculty, staff and wards of faculty and staff of DTU.

The department also organised a five-day sketching and drawing workshop for the students of classes 10th, 11th and 12th in **June, 2018**. The workshop was conducted by **Shri S.G. Ranjan**, *Department of Design, DTU*. The participants were encouraged to enhance their skills in the field of sketching.



World Environment Day

World Environment Day was celebrated in **Delhi Technological University** in June, 2018. The day was marked with the planting of saplings in the campus and spreading awareness about the need to keep our surroundings clean. **Prof. S.K. Garg**, *Pro Vice Chancellor, DTU* graced the occasion with his presence.

Visit by Ambassador of Uzbekistan

H.E. Mr. Farhod Arziev, *Ambassador Extraordinary and Plenipotentiary, Uzbekistan*, visited DTU in June, 2018. Mr. Arziev met with **Prof. Yogesh Singh**, *Hon'ble Vice Chancellor, DTU* and **Prof. S.K. Garg** and **Prof. Anu Singh Lather**, *Pro Vice Chancellors, DTU* and discussed faculty collaboration among India and Uzbekistan.



TEQIP-III Sponsored Events

A One Week Faculty Development Program on “**Polymer Analysis and Applications: Current Scenario**” was organised by the **Department of Applied Chemistry**, in June, 2018. The *General Chair* was **Prof. Archana Rani**, with **Dr. Roli Purwar** as the *Coordinator*. The goal of this program was to impart knowledge in the field of Polymer Analysis and Applications.

A One Week Faculty Development Program on “**Precision Manufacturing and Circular Economy**” was organized by the **Department of Mechanical, Production and Industrial & Automobile Engineering**, in June, 2018. The *General Chair* was **Prof. Vipin**, with **Prof. R S Walia**, **Prof. Q. Murtaza**, **Prof. Rajesh Kumar**, **Dr. Pushpendra Singh** and **Dr. S.M. Pandey** as the *Coordinators*. The goal of this program was to impart knowledge in the fields of Precision Manufacturing and Circular Economy.



The department also organised a TEQIP-III sponsored **Faculty Development Program** on “**Advances in Surface Engineering**” in May, 2018. **Prof. Vipin**, *Head, Department of Mechanical Engineering, DTU* was the *Chairman*, while **Dr. N. Yuvraj**, *Assistant Professor, Department of Mechanical Engineering, DTU* was the *course coordinator*. The objective of the course was to generate and impart knowledge on surface engineering processes.

Delhi School of Management, DTU organised **TEQIP-III** sponsored two-week **faculty development program** on **advances in research methods and teaching pedagogy** in June, 2018. **Prof. Yogesh Singh**, *Hon'ble Vice Chancellor, DTU* was the *chief patron* for the program along with **Prof. Ranjan Yadav**, *Head, DSM, DTU* as the *General Chair*. The course's objective was to sensitize the participants in understanding basics of research and case method teaching.



Department of Information Technology, DTU organised a **TEQIP III** sponsored **Faculty Development Program** on “**Feature Engineering for Pattern Recognition (FEPR-2018)**” in May, 2018. **Prof. Yogesh Singh**, *Vice Chancellor, DTU* was the *chief patron*, while **Prof. S. K. Garg** and **Prof. Anu Singh Lather**, *Pro-Vice Chancellors, DTU* were *patrons*. **Prof. Kapil Sharma**, *Head, Department of Information Technology, DTU* was the *General Chair*, while **Dr. Seba Susan**, *Associate Professor, Department of Information Technology, DTU* was the *course coordinator* and **Ms. Geetanjali Bhola**, *Associate Professor, Department of Information Technology, DTU* was the *co-coordinator*.

DSM: A New Campus

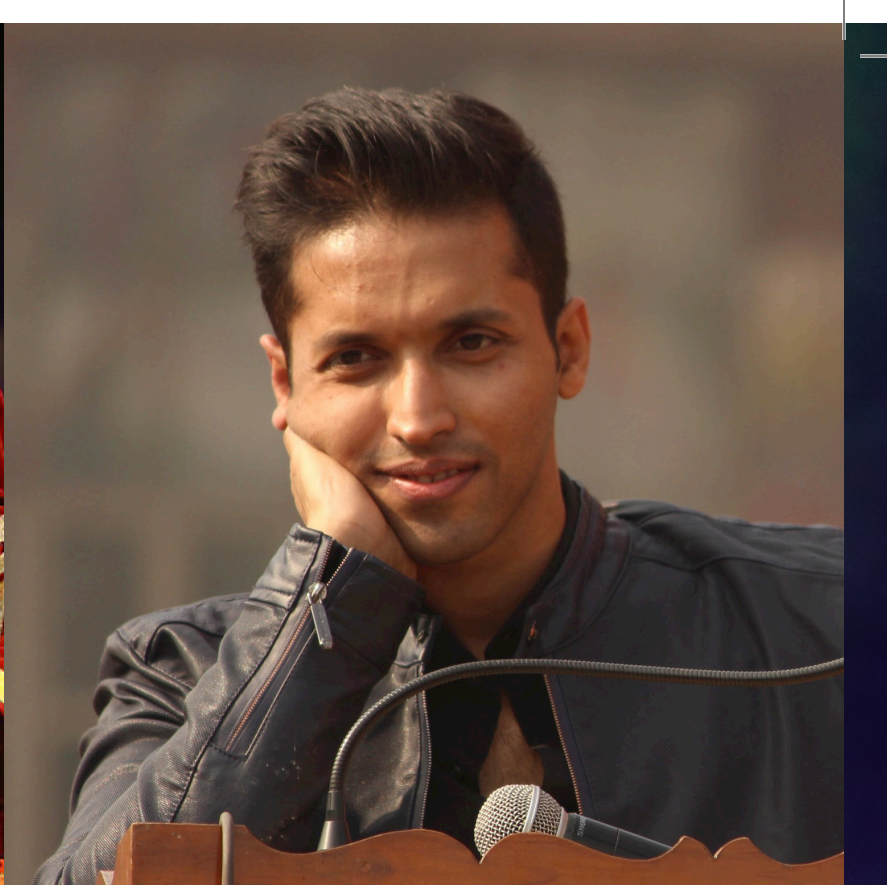
The inaugural ceremony for the new campus of **Delhi School of Management, DTU** was held in April, 2018. The function was graced by the **Hon'ble Vice Chancellor Prof. Yogesh Singh** along with all the distinguished management and faculty members of DSM. The inauguration began with a sacred *havan* ceremony followed by the unveiling of the foundation stone by **Prof. Yogesh Singh** and **Prof. G.C. Maheshwari**. The laying of the foundation stone was succeeded by lunch, after which a batch photoshoot was organised at the Mini OAT for the students of DSM, DTU. The new building will also host a library specially for the students pursuing management.



FAREWELL

The batch of 2018 was given a heartwarming farewell by the Cultural Council from 23rd to 27th April. The week commenced with **Rain Dance** in which everybody tapped their feet to the music along with enjoying a gentle shower. It was followed by **Lantern lighting** and **Ethnic Night** the next evening wherein the sky was adorned with little lights of reminiscence. The next day saw the whole batch sporting white tees carrying the creativity of their friends in the **Scribble Day**. The penultimate day of the week was one filled with laughter and dance as WiT staged a stand-up comedy show for the seniors, while the **Prom Night** took everyone to the dance floor later in the evening. The week concluded with the **Farewell Night** wherein various performances were staged for the passing batch bringing to a close one of the most memorable weeks of their lives.





THE YEAR

An overview of all the major events that took place at DTU in the Academic Session 2017-18.

August 2017

DTU Times Edition 39

- Freshers' Orientation
- Inauguration of the East Delhi Campus of DTU

September 2017

- Mid-semester examinations (Odd Semester)

October 2017

- Freshers' Week
- Diwali Mela
- International Conference on Advanced Production and Industrial Engineering (ICAPIE) 2017
- Abhilasha - Celebrating Ambitions
- Arena
- Workshop on "Self Realization Through Sahaja Yoga"

November 2017

DTU Times Edition 40

- End Semester Examinations (Odd Semester)

December 2017

- 4th Convocation of DTU
- GIAN Course: Emerging Trends in Advance Control System Applications in Intelligent Transport Systems
- EBSCO Discovery Service Workshop
- GLOGIFT 17: Global Conference
- GIAN Course: SMART Power Flow Controller for Smart Grid Applications

January 2018

- Yuvaan- The Literary Fest of DTU
- 1st International Conference on New Frontiers in Engineering Science and Technology (NFEST)
- E-Cell E-Summit

February 2018

DTU Times Edition 41

- DelTech MUN
- Invictus - DTU's First Unified Techfest
- Fortitude- Quiz Fest



IN REVIEW

- Engifest - The Annual Cultural Fest
- GIAN Course: Recent trends in Protection of Microgrids with high DER penetration: Issues, Challenges and Mitigation
- 10th Delhi State Para Athletics, Powerlifting and Table Tennis Championship organised by The Paralympic Committee of Delhi

March 2018

- Aahvaan- Annual Sports Fest of DTU
- ASME E-FEST Asia Pacific
- Indradhanush- The NSS DTU Conclave
- DSM Premier League
- Mid-semester examinations (Even Semester)

April 2018

- Batch Photoshoot
- Exuberance 2018 - East Campus
- Farewell Week
- TEDxDTU

- Rotaract Global Model United Nations 2018: Special Edition
- Inauguration of the new building of Delhi School of Management and the Health Centre
- Launch of Ofo, DTU's dockless bicycle sharing scheme
- TEQIP III: Sponsored STTP on Health, Human Values, Ethics and Empowerment

May 2018

DTU Times Edition 42

- End-semester examinations (Even Semester)

June 2018

- 'Crafting with Bamboo', organised by the Department of Design
- 'U Too Can Sketch', organised by the Department of Design

GUESTS OF DTU

Tim Fox

Former Head, Energy And Environment, IMechE

Didier Rappaport

Founder, Dailymotion

Dr. David Warsinger

Purdue University, USA

Dr. Wolfgang Borutzsky

Bonn-Rhein-Sieg University Of Applied Sciences,
Germany

Prof. Elias Strangas

Michigan State University, USA

Prof. Markos Papageorgiou

Technical University Of Crete, Greece

Amit Trivedi

Music Director, Singer And Lyricist

Bassjackers

EDM Artist

Guri

Singer

Durjoy Datta

Author

Manoj Joshi

Actor

Laxmi Agarwal

Social Worker

Abhishek Upmanyu

Comedian

Yahya Bootwala

UnErase Poetry

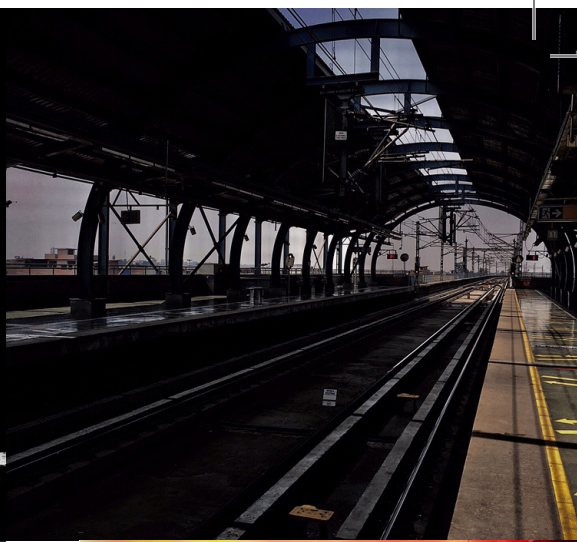
Akasa Singh

Bollywood Singer

Nizami Brothers

Folk Artists





FINESSE

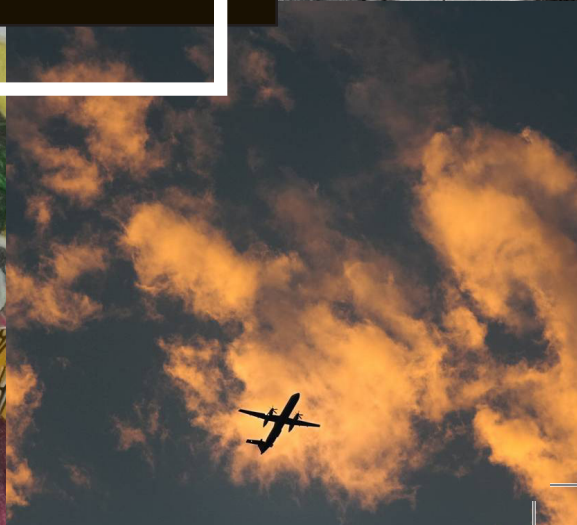
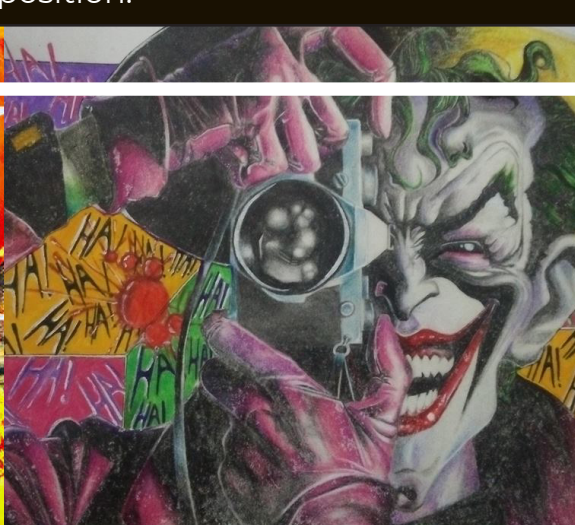
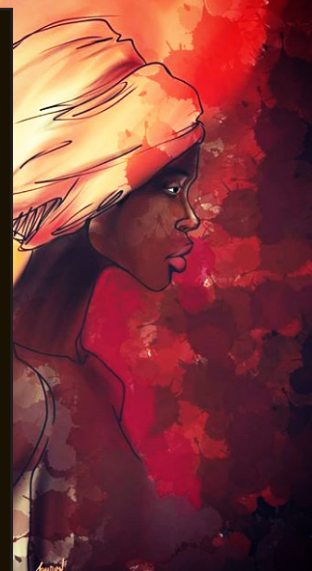
DTU Times organised the second edition of **Finesse-The Creative Extravaganza** in June, 2018. Writers and illustrators from across India participated in the events held.

The first event was **Caption Kranti**, involving participants sending in captions for pictures posted online, and fighting it out in the finale, judged by **Dr. Ashish Agnihotri**, Associate Professor, Centre for French and Francophone Studies, School of Language, Literature and Culture Studies, Jawaharlal Nehru University.

Ankit Gupta, DTU was declared the winner of Caption Kranti 2018.

The second event was **कलम, तसव्वुर और तस्वीर**, with participants sending in their illustrations covering a number of themes. The competition was judged by **Ms. Maison Chloeyeur**, **Mr. Artemii Myasnikov** and **Ms. Aditi Mali**.

Siddharth, DTU was declared the winner, while **Manasvi Singh**, DTU bagged second place and **Manan Dilip**, NIFT took third position.



Faculty News and Achievements

Awards, Honours, Conferences

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

- SRC member, School of Computer Science and Systems, JNU
- Co-organizer, *Engineering Exploration Workshop for 10th and 12th Class Students*

Prof. Jaigopal Sharma, HoD, Dept. of Biotechnology

- Member, National Advisory Committee, National Seminar on Researches in Environment and Biosciences: Current Scenario and Future Perspectives, Dehradun
- Presenter, "Evaluation of Immunostimulatory Properties of *Achyranthes Aspera* in Rohu Labeo Rohita in Pond Conditions," 18th International Symposium on Fish Nutrition and Feeding, Las Palmas de Gran Canaria, Spain

Prof. Rajni Jindal, HoD, Dept. of Computer Science and Engineering

- Coordinator, Faculty Development Program - "Machine Learning in Predictive Modeling," Department of Computer Science & Engineering, DTU

Prof. Vipin, HoD, Dept. of Mechanical Engineering

- Chairperson, Faculty Development Program - "Advances in Surface Engineering," Department of Mechanical Engineering, DTU

Prof. Pravir Kumar, Dept. of Biotechnology

- Reviewer, Selection Committee Member, "Life Science Research Board," *Defence Research and Development Organization*
- Reviewer, National Selection Committee Member for Specialists, *United States-India Educational Foundation Fulbright Fellowship*
- Speaker, "Health, Human Values, Ethics and Empowerment Program," TEQIP-III Short Term Training Program, DTU

Prof. Rachana Garg, Dept. of Electrical Engineering

- Awarded "Outstanding Contribution in Reviewing," *Sustainable Cities and Society, Elsevier*
- Awarded "Notable Services and Contributions Towards the Advancement of IEEE and the Engineering Profession," IEEE, USA

Prof. Qasim Murtaza, Dept. of Mechanical Engineering

- Awarded "Most Cited Paper" for "Literature Review and Perspectives in Reverse Logistics," *icRS 2018, Beijing, China.*



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

- Speaker, "Feature Engineering using MATLAB," Faculty Development Program - "Advance Applications of MATLAB in Engineering," G.L. Bajaj Institute of Technology and Management, U.P.
- Speaker, "Identification of Human Activity using Machine Learned Models," Faculty Development Program - "Machine Learning," Maharaja Agrasen Institute of Technology, Delhi
- Speaker, "Feature extraction and representation using MATLAB," Faculty Development Program - "MATLAB and its Application in Engineering," Hindustan College of Science and Technology, U.P.
- Speaker, "Feature extraction and representation," Faculty Development Program - "Feature Engineering for Pattern Recognition," DTU
- Speaker, "Identification of Human Activity in Videos," Faculty Development Program - "Signal Processing and Its Applications," JSS Academy of Technical Education, U.P.
- Speaker, "Human activity recognition using Computer Vision," Faculty Development Program - "Advances in Image Processing and Computer Vision," DTU

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

- Technical session chair, World Congress on Engineering 2018, Imperial College London, U.K.
- Presenter, "Hybrid Control Approach using NLMS and PLMS Algorithms for Grid Connected SPV System," World

Congress on Engineering 2018, Imperial College London, U.K.



Dr. Ruchika Malhotra, Assoc. Prof., Dept. of Computer Science and Engineering

- Attendee, Faculty Development Program - "Academic Excellence in Engineering Education," Centre for Skill Development and Engineering Consultancy, Shimla
- Presenter, "Analysis of Refactoring Effect on Software Quality of Object Oriented System," *International Conference on Innovative Computing and Communication, Guru Nanak Institute of Management, Delhi*
- Coordinator, Faculty Development Program - "Machine Learning in Predictive Modeling," Department of Computer Science & Engineering, DTU



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

- Presenter, "IL-6 protects the cells from radiation induced cell death by switching metabolism and activating STAT-3 mediated pro-survival signaling," *International conference on Cell Death in Cancer and Toxicology, IITR Lucknow*
- Presenter, "Role of Autophagy modifiers in recovery of Ionizing radiation induced intestinal damage in mouse model,"

International Conference on Radiation Research (ICRR-HHE), 2018

- Awarded “Best e-Poster” for “Effect of IL-2 Stimulation on NK Cell Receptor Profile and Function,” 17th Annual International Conference RGCON, Delhi

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

- Organiser, “Engineering Research Activities - Various Challenges and Solutions,” Elsevier, DTU
- Attendee, “Advances in Image Processing and Computer Vision,” TEQIP-III Short Term Training Program, DTU
- Attendee, “Teaching Pedagogy” Workshop, Academic Section (UG), DTU
- Attendee, “Voltage Mode Instrumentation Amplifier using Current Mode Block,” International Conference on Materials, Applied Physics & Engineering, Indore

Mr. Krovvidi Srinivas, Asst. Prof., Dept. of Mechanical Engineering

- Coordinator, Faculty Development Program - “Advances in Surface Engineering,” Department of Mechanical Engineering, DTU

Mr. N Yuvraj, Asst. Prof., Dept. of Mechanical Engineering

- Coordinator, Faculty Development Program - “Advances in Surface Engineering,” Department of Mechanical Engineering, DTU

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

- Presenter, “Exhaust noise measurement of a two-stroke spark ignition engine,” ICAST-2018, Jaipur
- Presenter, “Frequency Analysis of Noise Generated by Francis Turbine,” ICMISE-2018, Dehradun

Mr. Roop Lal, Asst. Prof., Dept. of Mechanical Engineering

- Coordinator, one-week Faculty Development Program - “Advances in Surface Engineering,” Department of Mechanical Engineering, DTU

Dr. Saurabh Agrawal, Asst. Prof., Dept. of Mechanical Engineering

- Awarded “Most Cited Paper” for “Literature Review and Perspectives in Reverse Logistics,” icRS 2018, Beijing, China

Publications.....

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

- “Optimizing and Enhancing the lifetime of a Wireless Sensor Network Using Biogeography Based Optimization,” International Conference on Applications of Computing and Communication Technologies (CCIS-Springer)
- “Nature inspired algorithms in WSN,” Book chapter, “Nature Inspired Algorithms in Big-Data Frameworks”, IGI Global

Prof. Jaigopal Sharma, HoD, Dept. of Biotechnology

- “Modelling and analysis of critical factors for phorbol ester degradation in Jatropha seed cake using ISM and MICMAC,” International Journal of Environment and Waste Management
- “Determining of pluripotency of a cell by an in silico method,” Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences
- “The study of effect of various temperatures on the abundance of ammonia oxidizing archaea and bacteria,” Indian Journal of Animal Sciences (Indian Council of Agricultural Research)
- “Structural analysis and protein-protein interaction of Sox2 and Sox6 to study the regulatory mechanism of pluripotency and differentiation: a bioinformatics approach,” International Journal of Creative Research Thoughts

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

- “Experimental Validation of PID and LQR Control Techniques for Stabilization of Cart Inverted Pendulum System,” 3rd

IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology - 2018

Prof. Daya Gupta, Dept. of Computer Science and Engineering

- “Optimizing and Enhancing the lifetime of a Wireless Sensor Network Using Biogeography Based Optimization,” International Conference on Applications of Computing and Communication Technologies (CCIS-Springer)
- “Nature inspired algorithms in WSN,” Book chapter, “Nature inspired algorithms in big-data frameworks”, IGI Global

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

- “Enhanced red down-conversion luminescence and high color purity from flux assisted Eu³⁺ doped Calcium Aluminosilicate Phosphor,” Journal of Luminescence - 2018 (IF: 2.732)
- “Photoluminescence Studies of Sm³⁺ ions doped barium lead alumino fluoro borate glasses for reddish orange optoelectronics device applications,” Optical Materials - 2018 (IF: 2.320)
- “Morphological and Luminescence Studies on KGdF₄:Yb³⁺/Tb³⁺ Up-Conversion Nanophosphors,” Materials Chemistry and Physics - 2018 (IF: 2.446)
- “Sensitization of Nd³⁺ by 4f-5d transition of Ce³⁺ in Ba₂Y(BO₃)₂Cl,” Journal of Luminescence - 2018 (IF: 2.732)
- “Spectroscopic Investigations on Dy³⁺ ions doped Zinc Lead Alumino Borate Glasses for Photonic Applications,” Journal of Rare Earths - 2018 (IF: 2.524)
- “Pure Red Color Emitting Eu³⁺ doped Lithium Lead Alumino Borate Glasses

for Solid State Lighting and Laser Device Applications,” Optics & Laser Technology - 2018 (IF: 2.503)

- “Intense green emission of Tb³⁺ ions doped Zinc Lead Alumino Borate Glasses for Laser and w-LED Applications,” Optical Materials - 2018 (IF: 2.320)

Prof. Atul Kumar Agrawal, Dept. of Mechanical Engineering

- “Online Condition Monitoring of Misaligned Meshing Gears using Wear Debris and Oil Quality Sensors,” Industrial Lubrication and Tribology
- “Modeling and Simulation of Mild Wear of Spur Gear considering Radial Misalignment,” Iranian Journal of Science and Technology, Transactions of Mechanical Engineering

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

- “Study of Starting Friction during the Running of Plain Journal Bearing under Hydrodynamic Lubrication Regime,” SAE Technical Paper - 2018
- “Experimental comparative study of chrome steel pin with and without chrome plated cast iron disc in situ fully flooded interface lubrication,” Surf. Topogr.: Metrol. Prop. - 2018

Prof. Rachana Garg, Dept. of Electrical Engineering

- “Algorithm for Islanding Detection in Photovoltaic Generator Network connected to Low-Voltage Grid,” IET Generation, Transmission & Distribution

Dr. Anjana Gupta, Assoc. Prof., Dept. of Applied Mathematics

- "Acceptably Consistent Incomplete Interval-Valued Intuitionistic Multiplicative Preference Relations," *Soft Computing*

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

- "New holographic dark energy model with constant bulk viscosity in modified $f(R, T)$ gravity theory," *Astrophysics and Space Science* - 2018
- "Ricci dark energy model with bulk viscosity," *European Physical Journal Plus* - 2018

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

- "Covariate conscious approach for Gait recognition based upon Zernike moment invariants," *IEEE Transactions on Cognitive and Development Systems* (IF: 1.952)
- "A unified model for human activity recognition using spatial distribution of gradients and difference of Gaussian kernel," *The Visual Computers (Springer)* - 2018 (IF: 1.468)
- "Convolutional neural networks for crowd behaviour analysis: a survey," *The Visual Computers (Springer)* - 2018 (IF: 1.468)

Dr. Janardan Prasad Kesari, Assoc. Prof., Dept. of Mechanical Engineering

- "Hydraulic Analysis and Modelling of Small Hydro Power: A Case Study of a Plant at Gogripur, Karnal," *International Journal of Advanced Research in Science, Engineering and Technology* - 2018
- "Design of Solar Photovoltaic Based Water Pumping for Automatic Irrigation System," *International Journal of Advanced Research in Science, Engineering and Technology* - 2018
- "Analysis of Three Types of Solar Systems: PV, Flat Plate Thermal, and Hybrid PV-T Using TRNSYS Model," *International Journal of Advanced Research in Science, Engineering and Technology* - 2018

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

- "Analysis of Concrete Pavement in Collapsible and Expansive Soil using Kota Stone Dust," *International Journal of Research and Analytical Reviews*
- "Analysis of Rigid Pavement on Expansive and Collapsible Soil," *International Journal of Research and Analytical Reviews*
- "Analysis and Design of Rigid Pavement on Collapsible and Expansive Soils," *International Journal of Research and Analytical Reviews*

Dr. Ruchika Malhotra, Assoc. Prof., Dept. of Computer Science and Engineering

- "Particle Swarm Optimization-Based Ensemble Learning for Software Change Prediction," *Information and Software Technology*

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

- "Experimental Validation of PID and LQR Control Techniques for Stabilization of Cart Inverted Pendulum System," *3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology* - 2018

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

- "Role of BRCA Mutations in the Modulation of Response to Platinum Therapy," *Frontiers in Oncology* (IF: 6.4)
- "IL-2 mediates NK cell proliferation but not hyperactivity," *Immunol Res. (Springer)* (IF: 2.9)
- "Advances in Cancer Immunity, A Formidable Army," book chapter, *Advances in Biotechnology*

Mr. Avinash Ratre, Asst. Prof., Dept. of Electronics and Communication Engineering

- "Tucker tensor decomposition based tracking and Gaussian mixture model for anomaly localisation and detection in surveillance videos," *IET Computer Vision Journal* (SCI Journal)

Dr. Indu Singh, Asst. Prof., Dept. of Computer Science and Engineering

- "Fuzzy ARM and Cluster Analysis for Database Intrusion Detection and Prevention," *International Journal of Information and Computer Security (InderScience)*

Dr. Manish Jain, Asst. Prof., Dept. of Applied Chemistry

- "Desulfurization of FCC gasoline by using spiral wound pervaporation module: Removal of different types of sulfur-containing species," *Chemical Engineering Research and Design* (Elsevier) - 2018

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

- "Enhanced red down-conversion luminescence and high color purity from flux assisted Eu^{3+} doped Calcium Aluminosilicate Phosphor," *Journal of Luminescence* - 2018 (IF: 2.732)

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

- "Development and Evaluation of Low Phytic Acid Soybean by siRNA Triggered Seed Specific Silencing of Inositol

Polyphosphate 6-/3-/5-Kinase Gene," *Frontiers in Plant Science*

- "Molecular characterization, modeling and docking analysis of late phytic acid biosynthesis pathway gene, inositol polyphosphate 6-/3-/5-kinase, a potential candidate for developing low phytate crops," *3 Biotech*
- "Biotechnological Approaches for Production of Pharmaceutically Important Compound: Plumbagin," *Current Pharmaceutical Biotechnology*

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

- "Online Condition Monitoring of Misaligned Meshing Gears using Wear Debris and Oil Quality Sensors," *Industrial Lubrication and Tribology*
- "Modeling and Simulation of Mild Wear of Spur Gear considering Radial Misalignment," *Iranian Journal of Science and Technology, Transactions of Mechanical Engineering*

Dr. Smita Rastogi Verma, Asst. Prof., Dept. of Biotechnology

- "Genotyping assessment of phosphate solubilizing bacteria isolated from rhizospheric soil from central regions of Lucknow," *Geomicrobiology Journal* - 2018

Student News

Research Papers Published & Conferences Attended.

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

Dushyant Rathore, B.Tech., SE, Class of 2018

- International Conference on Big Data and Artificial Intelligence (BDAI 2018), Beijing, China



Himanshu Yadav, B.Tech., MAM, Class of 2018

Rishika Chauhan, B.Tech., MAM, Class of 2018

Sumit Singh, B.Tech., MAM, Class of 2018

Tarun Saxena, B.Tech., MAM, Class of 2018

- 'Empowering people in India through Solar power tree technology', *International Journal of Research*

Awards & Competition Won..

Raman Kumar, B.Tech., EP, 3rd Year

Siddharth Singh, B.Tech., EP, 3rd Year

Vaibhav Kumar, B.Tech., MCE, 3rd Year

- Winners, *Dish-a-thon*, 2018



Sarthak Katyal, B.Tech., COE, 3rd Year

- Best Rotaractor Male, Rotary International District 3011 (Delhi + NCR)



International Internships & Scholarships Awarded.

Alankrit Tomar, B.Tech., EP, 4th Year

- MITACS Globalink Research Internship, *Université Laval, Québec City, Canada*

Arundhati Tewari, B.Tech., ENE, 4th Year

- Research Assistant, *University of British Columbia*

Rishi Aneja, B.Tech., EP, 4th Year

- MITACS Globalink Research Internship, *University of Ontario Institute of Technology*

Anirudh Goyal, B. Tech., ECE, 3rd Year

- Selected as one of the ten Cargill Global Scholars from India, 2018.

Ashwin Misra, B.Tech., ME, 3rd Year

- Visiting Research Scholar, *KU Leuven, Belgium*

Tejhas Kapoor, B.Tech., ECE, 3rd Year

- MITACS Globalink Research Internship, *University of Winnipeg, Canada*

Mononito Goswami, B.Tech., COE, 2nd Year

- Robotics Institute Summer Scholar, *Carnegie Mellon University, USA*

Sanskar Jethi, B.Tech., EE, 2nd Year

- Intern, *Google Summer Of Code-2018*

Umirbek Murotov, B.Tech., COE, 2nd Year

- Networking and Cloud Computing Technologies Research Internship, *Microsoft Russia*

SOCIETY NEWS

NSS DTU ADDS MORE TO THEIR CABINET

NSS DTU won the 2nd Prize in iSafe organised by the Indian Road Safety Campaign for coming up with innovative traffic solutions for the University. They donated a total of 198 books to 'Gurukul', an initiative taken by *Stonex Foundation* to teach selected students for IIT-JEE free of cost. NSS also organised a **First Responder Training** workshop for DTU security guards, conducted by Dr. Dinesh of *JPNA Trauma Centre, AIIMS* in collaboration with *WHO India* and *IRSC DTU*.



ROUND TABLE DTU CONDUCTS SUMMER TRAINING

Round Table DTU, the skill development society conducted a Summer Training in association with *What After College*, a unit of *Kyrion Technologies* which involved workshops covering Artificial Intelligence, Ethical Hacking, Web Development and Java.

KALAKRITI PRODUCES ART FOR A CAUSE

Members of Kalakriti, the arts society, volunteered for an NGO named *Navjyoti India Foundation* and painted their logo for them on a wall. They also organised a Wall Painting workshop in the college.

TOASTMASTERS DTU ORGANISES SESSIONS

Toastmasters DTU held a session to introduce the concept of public speaking as a way of empowering individuals to become more effective communicators in the presence of the Toastmasters Division Director, **Nimish Joseph**.



ENACTUS DTU QUALIFIES FOR NATIONAL FINALS

Enactus DTU organized a Health Camp for slum dwellers of Bhalswa as a part of its venture, **Project Unnayan**. The camp was organized under the able guidance of Dr. Jaideep Sharma (MD, AIIMS). They were placed in the top 24 teams out of over 100 Enactus Teams across India, and were invited to participate in **Enactus Nationals 2018, Mumbai**.

SAHIYA HOSTS INTRA-COLLEGIATE COMPETITION

Sahitya, the literary society organized a two-day intra college event called "*Wordsworth-it*" which included three competitions: Parliamentary Debate, Blackout Poetry, and Uncanny Reports, which tested participants on their wild imagination and oratory skills.

PRATIBIMB SHINES IN THE CIRCUIT

Pratibimb, the Dramatics Society, performed in over a hundred competitions this year.

Treadmill, the stage production, was shortlisted to be performed as a part of the **Old World Collegiate Theatre, Indian Habitat Centre**. It was awarded 'Best Play', 'Best Direction' and 'Best Actor' awards at *Netaji Subhas Institute of Technology* and *Maulana Azad Medical College* and secured the 2nd position at *Hindu College* and *Gargi College*.

TripT, the street production, was shortlisted to be performed at the **Theatre Olympics, National School of Drama**. It won the 1st prize at *Shaheed Bhagat Singh College*, *Kalindi College*, and *Fortune Institute of International Business* and was shortlisted as a finalist in *Sahitya Kala Parishad*.

ROTARACT DTU EARNS NUMEROUS ACCOLADES

At *Shukran: Rotaract District 3011 Thanksgiving*, Rotaract Club of DTU secured the **Best International Project** award for RGMUN. They were also awarded for hosting *Teachers beyond Teaching*, and for their work at *Prayas Juvenile Aid Centre*. They also won the **ROAR Outstanding Award**.

At *Aabhar: Rotary District 3011 Thanksgiving*, they were awarded the Best International Project for RGMUN.

At *Multi District Information Organisation (MDIO)*, **Outstanding Project-International Service** was awarded to Rotaract Global Model United Nations RI District 3011.





TEDxDTU

TEDxDTU 2018, with the theme '*Deus Ex Machina*', was organised on 20th April, 2018 at Dr. B.R. Ambedkar Auditorium. The event witnessed prominent personalities from various fields who deliver captivating talks that would inspire and motivate the youth community.

The speakers included **Sandra Colhando**, the Co-Founder of TransforME; **RJ Sukriti**, an electronics engineer-turned radio jockey; **Ankur Warikoo**, CEO of Nearbuy.com; **Subha Vilas**, an expert in the Vedas; **Kaustabh Radhkar**, an IRONMAN Certified Coach.

The event was headlined by popular cricketer-turned-actor, **Karan Wahi**, who shared his story of how a typical Delhi boy, made it big in the film industry, and Bollywood playback singer, **Akasa Singh**, who spoke about the immense pressure placed on her head after making it big at a young age.



ROTARACT GLOBAL MODEL UNITED NATIONS SPECIAL EDITION 2018

The Rotaract Club of DTU hosted RGMUN 2018 from 20-22 April 2018, which has previously been held at locations such as Romania, England, and the UNHQ in New York. The theme of the conference was "*Sustainable Development Goals: Fostering a Brighter Future*", and oversaw attendance of over 170 delegates, from countries such as China, France, Venezuela, Netherlands, United Kingdom, and Lebanon.

The guests gracing the event included **Ambassador Deepak Vohra**, who served as Secretary in the Ministry of External Affairs; **Mr. Sourav Kothari**, World No. 2 Billiards Player and Arjuna Awardee; **Mr. Shastri Ramachandaran**, veteran journalist; and **Ms Nabila Jamshed**, Programme Officer at the United Nations.

ME, MAM, PIE

With a central focus on heat, mass and thermodynamics, little separates Mercury from these 'hot' branches, that are forged to be evergreen.

MERCURY

VENUS

For us humans, who are made of chemicals and exist in a world of it, PSCT is indeed Venus, with an atmosphere full of frenzied reactions that make it exist.

EARTH



ENE, BT

From the minutest of living organism to the most widespread of natural phenomena, these branches deal with all the biotic and abiotic elements that constitute the Earth.

MARS



EP

Welcome to the planet with one of the best opportunities for research & development (and colonisation). Get set to delve into the uncharted world of physics & electronics on this monochromatic, red terrain.

COE, SE, IT

JUPITER



No planet dominates the solar system like Jupiter does. Analogous to the size (and no. of students), the impression of Jupiter is the vast and alluring world of computing, coupled with its numerous moons of substreams.

SATURN

ECE EE

ECE, EE

Of all planets, there's one that would draw a nonchalant passerby closer to the solar system. The cutting-edge of modern engineering, ECE and EE truly allure the technological world!

SATURN



CE

With an average temperature of 60 K, if you dip even the very tip of your finger into the pure liquid surface of Uranus, you'd shatter like glass! Be it liquids or solids, this branch is armed with the knowledge of maths and materials, common and sparse.

URANUS



MCE

Much like Neptune, the blue giant nobody knows truly, MCE collides the greatest powers of our time- mathematics and computing. And just like its 2000 km/h winds, this stream never sits static!

NEPTUNE



EEE

PLUTO



So kids, once upon a time, there used to exist a branch named Electrical and Electronics Engineering. It's now banished into oblivion, just like Pluto's position in the solar system. Legend says it will return. **Will it?**

DelTech BAJA

DelTech Baja is the oldest Baja SAE team in India which designs and fabricates a new single seater All Terrain Vehicle vehicle every year.

The team participated in **Baja SAE India**, *Ropar* and **SAE International**, *Illinois*. They were the design finalists of **Enduro Student India**, *Coimbatore* last year. The event consisted of both static and dynamic events which culminated with a four hour Endurance race.

DTU Supermileage

DTU Supermileage aims to develop super mileage vehicles that provide maximum mileage be it with a litre of gasoline or a kWh of electric charge. The ultimate goal being the protection of environment from vehicular pollution and moving towards a greener future.

The team won the Communication award along with a cash prize of USD 3000 at **Shell Eco Marathon Asia 2018**, *Singapore*, which saw participation of more than 150 teams from 30 countries in the Asian Leg. Their electrical vehicle averaged 157 km/KWH and was placed 7th in the event.

Defianz Racing

Team Defianz Racing is the 15-year old Formula Student Team of DTU. They conceptualise and develop a race-ready formula car for Formula Student competitions.

Team Defianz secured overall 2nd place in **Formula Bharat**, the biggest Engineering Design competition in the world. Their formula student car goes from 0-100km/hr in 4.2 seconds. They also participated in the **Formula UK**, held in *Silverstone Circuit, United Kingdom*.

Inferno DTU

Team Inferno DTU strives to manufacture an efficient Go-Kart.

The team won the Best Traction Award at **National Kart Racing Championship**, *Bhopal*. The team came 18th in **Indian Karting Championship**, *Pune* Season 2 out of 120 performing tech teams that came from various engineering colleges in India.

DTU AUV

Team DTU AUV (Autonomous Underwater Vehicle) aims to innovate and develop a fully-autonomous underwater vehicle.

They participated in the **Singapore AUV Challenge 2018**. The team is among the 18 Indian teams to qualify for the 2nd Round of **NIOT SAVe 2019**. They have also developed the **YAM-bot** for documenting pollution levels of the Yamuna river.

DTU Altair

DTU ALTAIR (Advance Leap in Technology and Intelligent Robotics) is a team of robotics enthusiasts aiming at developing autonomous robotic solutions.

They emerged victorious at the **Micromouse Robot Championship** and secured the 2nd position in the **Quadcopter Championship** held at *TechnoXian-World Robotics Championship, Indira Gandhi Indoor Stadium, New Delhi*. The team successfully built a 3D printer which brings 3D CAD models into reality with high accuracy.

TECH
TEAM
NEWS





UAS DTU

The DTU-Unmanned Aircraft System project was initiated with the primary purpose of developing technologies to reduce India's dependence on foreign ISR (Intelligence, Surveillance and Reconnaissance) products.

The team secured the overall 1st Position in both Regular and Micro Category at the **SAE-India Aero Design Challenge 2018**, along with the best design report and technical presentation awards. The team also bagged the 2nd Position for Best Design Report at the **AUVSI SUAS 2018, Maryland, USA**. They also secured the 2nd Position at **TATA Pioneer's Makerthon, IIT Bombay** for designing a self-stabilising launch pad for Multirotors.

Zephyr DTU

Team Zephyr intends acquaintance with the various technologies used in the development of self-driving cars. The team designs an intelligent ground vehicle with autonomous driving capabilities.

Team Zephyr bagged the 4th position in the Design Competition Group, **Intelligent Ground Vehicle Competition 2018, Oakland University, Michigan**.

Raftaar

Team Raftaar designs innovative human powered vehicles. The team aims to demonstrate the application of engineering design principles in the development of sustainable and practical transportation alternatives.

The Team secured overall 2nd Position in **ASME HPVC (Asia-Pacific) 2018, DTU**. They secured the 1st Position in Innovation and 5th Position in Design in the **ASME HPVC (North America East) 2018, Penn State University, Pennsylvania, USA**.

UGV DTU

The Unmanned Ground Vehicle team designs autonomous vehicles through calibrating and using various sensors and implementing real time Image processing.

The team made an autonomous bot, 'Ripple' that detects lanes and obstacles on its own and then finds the best route possible and even navigates between given GPS points. They participated in the **Intelligent Ground Vehicle Competition 2018, Oakland University, Michigan, US**.

Hertz Electric

Hertz Electric aims to manufacture a formula student electric vehicle. The team is planning to participate in Formula Bharat 2019, *Coimbatore* and Formula SAE Electric 2019. *Lincoln, Nebraska, USA*.

Okami Racing

Team Okami Racing, the Electric Motorcycle Team of DTU, aims to design and manufacture high performance electric motorcycles to nurture the advent of full electric - emission free modes of transportation.

They showcased their project at the **JLN Biker Fest** along with the *Delhi Bikers Breakfast Run*. The team aims to participate in the **Motostudent Competition, Motorland Aragon FIM Circuit, Spain**.

INTERVIEW



MRUDANG MATHUR

DTU Times interviewed Mrudang Mathur, ME, Class of 2018, who received admits from the University of Texas, Austin for Ph.D., the University of Oxford for D.Phil. and the University of California, Los Angeles, the University of Pennsylvania, the University of Michigan, Ann Arbor and Cornell University for M.S. in Mechanical Engineering.

How is the application process for a Ph.D. different from that for a Masters degree?

The application procedure for PhD is quite similar to that for Masters programs and differs in only a few ways. The key difference is interaction with faculty you're interested in working with to determine if they're hiring new grad students in the upcoming semester and if they have the funding to support and supervise you. If they're interested in your application, they will schedule an interview (over Skype for international students) to see if you're a good fit for their lab. The system differs between the US, where students must be shortlisted by a grad committee before names are passed to faculty members for evaluation, and the UK, where supervisors shortlist and interview candidates before recommending them to the graduate studies committee for admission.

When it comes to applying for higher education abroad, how important are extracurriculars as compared to academics?

Higher education is a large field to comment on so I'll talk about research programs specifically. Extra-curriculars such as the performing arts, MUNs, social initiatives, etc. don't specifically help bolster applications in my opinion (I didn't include any such information). In these programs, they want to see evidence of technical competence and the ability to receive advanced instruction in engineering. Co-curricular activities such as research projects and student teams (SMV, Baja, AUV etc) are a huge plus point to your application (and can offset lower grades). Just to be clear though, grades are very important (aim for a First Class with Distinction at least) and a lower GPA needs a lot of extra work to overshadow in an application.

In case you hadn't received a decent admit, did you have a backup plan?

I only applied to universities which I really wanted to attend. Even the 'safety' schools on my list were those with great programs and faculty. If I wasn't admitted anywhere then I would continue my research intern for another year before applying next year.

What advice would you give to your juniors, particularly Mechanical Engineering students aspiring for research examinations?

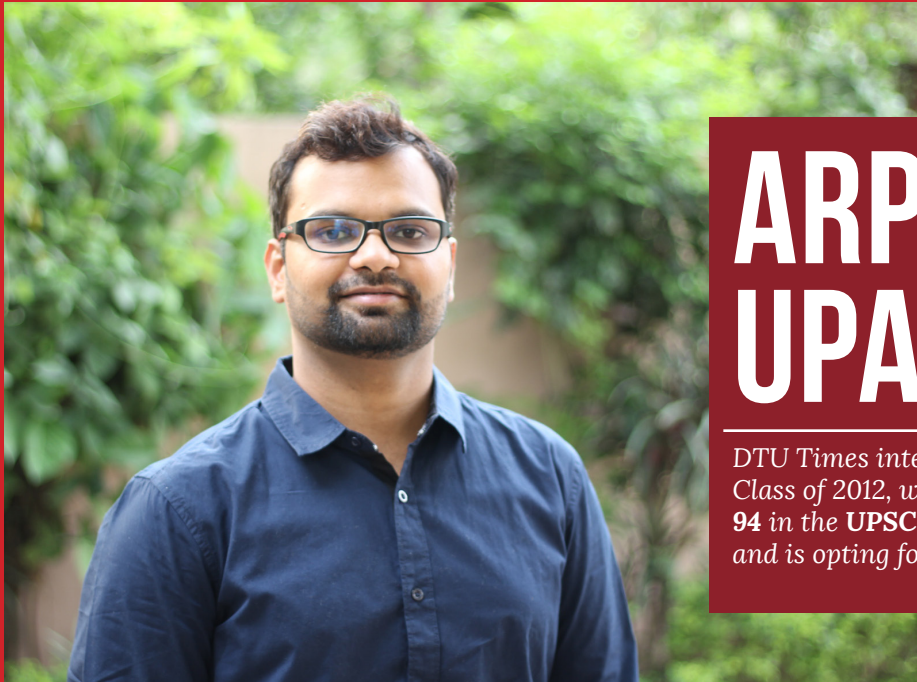
In general: Hands-on experience trumps classroom learning any day of the week. Find projects in the area of your interest and follow them till the end. If you're unsure of what interests you, speak to seniors and then cycle through sub-fields till you find the right topic.

To ME students:

1. Develop computational skills. Fluency in MATLAB/Python, SolidWorks, FEA and CFD packages are becoming the norm. It is almost criminal to believe that a Mechanical Engineer doesn't need to use computational tools in today's day and age.

2. There are many professors currently working in the various subfields of ME. Some of them are Prof. DS Nagesh (Controls/Robotics), Prof. BB Arora (CFD), Prof. Raj Kumar Singh (Experimental Fluids), Prof. Atul Agrawal (Solid Mechanics), Prof. Vijay Gautam (Material Science) and Prof. Vikas Rastogi (Design). Reach out to them and get involved.

INTERVIEW



ARPIT UPADHYAY

DTU Times interviewed Arpit Upadhyay, ME, Class of 2012, who achieved an **All India Rank of 94** in the **UPSC Civil Services Examination, 2017** and is opting for IAS.

How was your journey after you graduated from college? What motivated you to appear for the Civil Services Examination?

After graduating from DCE, I took up a job in HPCL as a Sales Officer in Pathankot, Punjab. CSE was an option that I did not take seriously until my sister put her foot down and asked me to prepare for it because she believed I could do it.

The next day, I coincidentally had a meeting with DC/DM, Gurdaspur. The aura in his office was mesmerising. Seeing people visit his office for help was overwhelming. It was then I decided to prepare for CSE. I resigned from my job and came back to Delhi to start this journey.

The CSE consists of three rounds. What is the difference in preparation styles for each of these rounds?

In prelims, your basic concepts are important. In mains, as the questions are subjective, and proper understanding of current world issues is very important. Mains has a detailed syllabus which defines the contours of your preparation. In prelims, you just need to be aware of important current events, policies,

schemes, etc. whereas in mains you need to relate these events with the GS syllabus, i.e., relating static with dynamic. The art of writing a good answer can vary your score from others considerably.

The third stage is the Personality Test. People often make the mistake of considering this an Interview Test. An interview is a test of your technical knowledge whereas UPSC calls for a Personality Test, to simply test your personality and not your technical knowledge.

It is difficult to change one's personality within such a short span of time. Its preparation revolves mostly around your DAF (detailed application form) and current affairs. Along with the content of the answers, one has to pay a lot of attention to verbal communication and particularly body language.

What were the different strategies you followed and which one was better and why?

I followed a very straightforward strategy: start with the syllabus and then analyse previous year questions. Once the nature of questions was understood, I started with reading textbooks. I included

regular revision as a part of my syllabus. I tried to limit my sources. One source per topic. I made very brief notes of topics mentioned in the syllabus and then kept on adding the current affairs to these notes. In this way, I was able to relate the static part with current affairs in a better way.

We have to choose a particular subject for the mains examination. Which subjects do you think engineers should opt for in order to obtain appreciable scores in the mains examination?

It is easy to prepare the engineering syllabus if you're confident, but there are major drawbacks: syllabus is very large, there is no overlap with GS or Essay, CSE specific guidance is not easily available.

On the other hand, if you take an optional subject from the humanities section, it helps in the GS answers and essay exam. Guidance for some optional subjects is easily available while others have less syllabus. The sole drawback is that you have to prepare it from the scratch.

Take these factors into consideration and before deciding your optional, do talk to someone who has cleared with that optional.

INTERVIEW



ASHISH GUPTA

DTU Times interviewed Ashish Gupta, CE, Class of 2018, who achieved an All India Rank of 8 in the Graduate Aptitude Test in Engineering (GATE), 2018.

How early should one start preparing for GATE? How effective is coaching in helping in the preparation?

As it is said, the earlier the better. Ideally, most people start preparing in their 6th semester only, that is, 1 year before the exam. However, if one has graduated, 6 months are enough, the difference being mainly due to the time available for preparation.

I would recommend taking studies in college seriously as the syllabus for GATE is same as our university syllabus, which would thus help reduce the efforts one has to put in the end.

What is the importance of mock tests in the preparation? When should one start giving more attention to mocks than learning concepts?

Mock tests are of utmost importance for GATE. The preparation can never be considered complete unless one has given as many mock tests as possible. This is because here, solving questions correctly in a given time frame is important, which can most efficiently be practised through mock tests.

Learning concepts and giving mock tests go hand in hand. Generally, test series of all coaching centres start around August and

provide questions both subject wise and those covering the full syllabus. These tests should be taken very seriously, wherein one should try and improve on their mistakes with each of them.

However, I happened to give only full syllabus tests in the end.

How should one manage time while preparing for GATE?

Time management is the key for cracking GATE.

It is difficult to handle college and coaching side by side and keep up on both fronts. During normal college days, more focus should be on preparation for GATE as the college exams can be passed with a good score even after studying 1 to 2 weeks before the exam, given that he/she has attended the lectures attentively. As the syllabus is almost the same, preparation for GATE also helps in college exams.

However, after the end semesters in November, full time should be devoted for revision in December and as many tests as possible should be given in January along with solving of previous year questions again and again.

Short notes should be prepared during the preparation to save time in revision. Lack of

short notes is one thing students regret in the end, including me.

I was well versed with most of the concepts till the end of November, while I had December for learning and revising as many formulae as possible and for giving mock tests of ESE. My focus shifted towards GATE only in January (one month before the exam), during which I did not revise but simply solved previous year papers together with mock tests.

What are your future plans?

I will be applying for a job in NHAI as soon as recruitment starts this year, and since the recruitment is directly on the basis of GATE score I am confident of getting one.

Also, I am planning to give ESE-Mains exam in July and currently preparing for that.

One thing which I suppose has helped me is preparing with a friend. When one discusses doubts with others, concepts become clearer because of consideration of the viewpoint of a second person on the same matter. That makes things easier to remember.

Read the complete interview on the DTU Times Blog at dtutimes.wordpress.com.

INTERVIEW



SAMARTH SHUKLA

DTU Times interviewed Samarth Shukla, EP, Class of 2018, who secured an All India Rank of 8 for the Indian Air Force in the Combined Defence Services Examination.

What was the motivation behind going for the CDSE, being so apart from the technical side?

I've always wanted to join the Air Force. Everyone you'll see has a 9-to-5 job and can't wait for the weekend to come, but I didn't want a life like that. I've always wanted to be a pilot, so the Air Force provided the perfect opportunity to do that. And then there is the job satisfaction and the pride of wearing the uniform. The CDSE is the best entrance for Armed Forces after graduation.

How's joining via CDSE, different from that via NDA?

NDA is directly after Class 12 and is equivalent to graduation. You study there, obtain a graduate degree and train in parallel too. CDSE entry is for people who've already done their graduation. Obviously, NDA cadets have an advantage

that they've been training that way for 3 years, so CDS entrants have an extra 6 months of training to catch up with them.

What strategy did you undertake to prepare for the exam? How tough was the competition?

About two lakh people wrote the exam, and in the merit list only twenty were selected for the Air Force. So it was probably the toughest competition. There are multiple stages. First was the written exam - English, Maths and GK - 2 hours each. Then there's the Service Selection Board. That is a 5-day process in itself, where they test everything from personal interviews to performance in group tasks. Specifically for Air Force there's a Computerised Pilot Selection System (CCPS) which you need to qualify, failing which you can never fly for armed forces.

Do you think engineering helped you in some way toward where you stand today?

It certainly helped in the written exam, I was still in touch with maths. For CCPS, sharp mental skills are needed which I believe are in every engineer.

What role has DTU played in your success?

There was a lot of documentation that needed to be done, and the academic section was very prompt to do that. When I was gone for my SSB and medical, the professors understood the reason for my absence and encouraged me to pursue it.

Read the complete interviews on the DTU Times Blog at dtutimes.wordpress.com.

INTERVIEW



NAKUL SHARMA

DTU Times interviewed Nakul Sharma, EP, Class of 2018, who secured a placement offer from McKinsey & Company.

What profile was offered to you? What matters more, the reputation of the company or the profile?

I was offered the profile of Junior Research Analyst. This time McKinsey hired for three teams (subject to changes); Data Analytics, Transformation Analytics, and MIRA (Research team). The recruitment process remained the same irrespective of profiles.

For me, the profile comes before the company's reputation. A profile is something that is going to leave the first and the biggest mark on your professional portfolio. It's the field you start your professional life with. So my order of priority was, Profile > Reputation > CTC.

How much importance do you think co-curriculars add up during the recruitment process?

Companies are always looking for candidates with an overall package. A student who has just studied for the last 6 semesters in a classroom will always fall behind the person who has managed it well with co-curriculars

and actually carved a life of his own.

I was part of the Techfest, literary fest, cultural, TnP and various other things in college and it actually helped me a lot during the process. I can give you two insights here,

1. If you have a good POR (Position of Responsibility) section, it gives a clear picture about you that how you had been in the last four years dealing with people, becoming a team player and actually leading by the end because you have already cleared the cutoffs and now your skills and experience matter, not your marks.

2. The more experience you have by working in various genres, the more stories you would have and they'd all be original. Trust me, the last round can be cleared with real stories of experiences only.

Do you think an engineering degree is sufficient for one's career? What are your future plans?

Completion of a degree just opens some gateways, sometimes related and sometimes

unrelated to your field, but it does not define your path in life. I believe before having a career goal, one should have a life goal and try to have the former oriented towards the latter for utter satisfaction. Rest, as far as I am concerned, I am looking forward to work in various sectors within the firm before I can feel a stagnancy in my career and plan to go for higher studies. Going for higher studies is not a compulsion but a need, if and only if it arises at some point to have a scaled up growth.

Any suggestions for juniors looking to follow in your footsteps?

Be watchful, yet tactful, have a plan, have the courage to go about it and win it. Nothing comes without hard work, yet smartwork, so it's the final lap, brush up and buckle up to create history.



HACK UST WINNERS

DTU Times interviewed Kartik Bhutani, Suvigya Nijhawan and Vagisha Nidhi, COE, Class of 2018 who emerged as winners in the Education Tech category at HackUST held at the Hong Kong University Of Science and Technology, Hong Kong, winning 15,000 HK\$.

How important is it to have a good profile for the selection process of such competitions? What is the selection criteria?

Having a good GitHub and LinkedIn profile is quite necessary for getting your candidature accepted for these type of competitions. With that, there are online applications which are needed to be filled for participation; the resume which is uploaded along with the application counts for a huge chunk of the selection weightage along with previous experiences with hackathons. There are essay questions asked in the application which must be attempted very carefully. One must always adeptly specify the reasons for attending the conference and how in general their idea will be working.

In what way do you feel your project stood out from the other projects that were presented at the conference? Why did you choose education as a track?

I feel that our project stood out from the other projects that were presented at the hackathon's finale due to the direct and instant impact on a current practical problem, i.e., lack of development of public speaking and soft skills. We had gone a step further and proposed a

partnership with Toastmasters International, a public speaking platform, which gave us a very strong stance with our idea at the conference. We chose education as a track because we thought education is the master solution to any problem. If a person is educated enough for a field, they can easily solve any problem at hand.

On top of that, we had a strong background of emotion recognition and speech recognition, which lay closest to the education sector. We also brainstormed various other available themes and topics, because it is always necessary to analyse all the options, before zeroing in on this one.

Do you think your idea can be implemented in DTU? What challenges do you feel are necessary for us to overcome for the implementation of this idea?

This idea has something for every student. The earlier they lay their hands on this, the more conducive the environment can be for them. This project can cover a vast fields of speech training ranging from emceeing and anchoring to debate and role play. This idea, hence, can be easily implementable in DTU.

The other issues like the presence of noise in

both audio and video analysis that could lead to incorrect results, robotic responses that could go awry for a situation and big data compression and management of the user and result data can be tackled with quicker servers, smooth APIs and collaboration with the right organisations. Challenges as such aren't that major, it just requires strong will and an imperishable desire for the implementation and use of our application.

What are the most valuable things you got to learn from your time spent at the conference?

The most valuable things we learnt at this hackathon is that brainstorming should take a decent share of your total time, because it's the idea that has to be shaped properly and adeptly so that it can be easily interpreted by the judges and audience. If brainstorming is done hastily, your whole project would go unnoticed even though you have a solid code base.

We had great academic and technological learning by implementing AI with emotion recognition, Isis, audio and facial parameters as input to get the various decision metrics and then to classify it as good, average or horrible speech.

Know Your ALUMNI



Vijay Shekhar Sharma

- Electronics and Communication Engineering, Batch of 1998.
- Founded One97 Communications Limited in 2000 which offered mobile content like news, cricket scores, ringtones, jokes and exam results.
- CEO and Founder of Paytm, mobile wallet and bank, since 2010. PayTM currently has the largest market share among mobile wallets in India.
- Was named youngest Indian billionaire by Forbes magazine in 2017.

Satish Kumar

- Electrical Engineering, Batch of 1965
- Served in the Indian Railway Service of Electrical Engineers for 31 years.
- Served as Director (Electrical) of the Delhi Metro Rail Corporation for 17 years, from 1998 to 2015.
- Currently Principal Advisor (Electrical) to DMRC.



Randhir Singh Kalsi



- Mechanical Engineering, Batch of 1981
- Joined Maruti Suzuki India Ltd. in 1984.
- Served as Senior Executive, Senior Manager (Quality Assurance), Head of Strategic Initiatives, Chief General manager (Sales), Executive Director (Sales) and Executive Director, Parts, Accessories and Vehicles Logistics at Maruti Suzuki India Ltd.
- Currently Executive Director, Marketing and Sales at Maruti Suzuki India Ltd.

A re-connect session of the Texas chapter of DCE/DIT/DTU/NSIT Alumni Association was held on June 9th, 2018, in Houston, Texas. The agenda for the event was to plan for the 3rd Annual Alumni Meet.

Alumni Reconnect at TEXAS

Apart from the main agenda, planning for future reunions of the Texas chapter was also done.

The event also saw the presence of Ms. Tanuja Singh, visiting from California and Ms. Alka Agarwal, from Dallas (Batch of 1994), both integral part of the Alumni team. Ms. Alka gladly agreed to be the connecting point in Dallas and became a part of the reachout team.

The event was hosted by Mr. Lagnesh Varshney and Mr. Rohan Gupta. The venue, Bombay Pizza, was owned by one of the alumni members, Ms. Renu Khanna.



THE DTU FUCCHA GUIDE

Pratyush Jain, 3rd Year, IT
Shivam Jha, 3rd Year, ME

THINGS TO DO IN FIRST SEMESTER

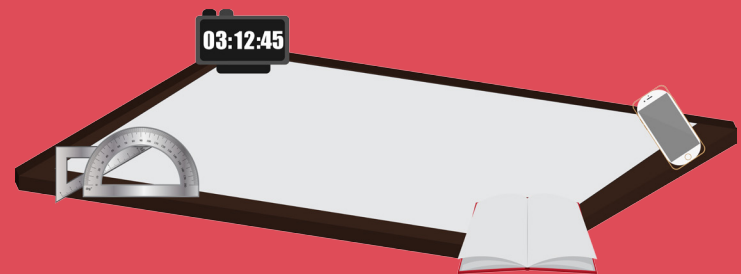
Understand the infamous drudgery it takes to complete one ED sheet at 3AM when you have lost your eraser.

Share the front seat of an e-rickshaw to learn the most important of life lessons through the inadvertently hilarious stories of the driver, across a cacophony of “BadliBadliBadli”.

Feel yourself teleport to the stadium while watching a World Cup match on the television in a jam packed canteen.

Ask Maggi Baba, (*the man, the myth, the legend*) who has been catering to students’ late night cravings for over 50 years, for some ketchup.

Have an event lined up and set a PR Desk at Amul,



and watch the information spread among students at the rate of *5 persons per minute*.

Put up the banner of a fest at the apex of clock tower and witness the most scenic *360° view* of the campus.

Learn about the real struggles of life while you’re in line (read: rat race) to get the notes or lab manuals from the photocopy shop, before you surrender and say, “*PDF se kaam chal jayega*”

PLACES TO GRAB A BITE INSIDE COLLEGE



MIC MAC's *Rajma Chawal* with a special topping of pyaaz and pickle

MECH C's *masala dosa* or the all-time-available sambar vada

NESCAFE's *Frappe* and *Pasta* for the elite

BABA's *maggi* along with the best *masala chai* in town

MESS' Curry Pakode provide a satisfying meal for those seeking ‘cheaper’ (or free) options

HPMC's iconic *neembu paani* for some respite in scorching summers

THE CONSTANTS AND THE VARIABLES

Parangat Mittal, 2nd year, ECE
Pratik Anand, 2nd year, COE
Srishti Mittal, 2nd year, PCT



The transition from school to college life is a shell-shocker for many. That said, it is not without its own fair share of similarities.

Back in the JEE days, each moment was consumed by either the question at hand or the thought of the impending exams. I would wake up, attend school, come back and immerse myself in books, modules and worksheets.

But now, things are different - university life involves much more self-study than ever before. I vaguely remember the tidbits of *gyaan* my mentor would provide about all the self-study, freedom, and friendships. Somehow, his tales prefaced my new life here, like self-fulfilling prophecies.

I remember deactivating my WhatsApp account back then - some friends argued for keeping it, for easy sharing of notes and mock papers. It was hard to ignore this voice of reason - but I did, for the greater good. Today, I use about a dozen social media apps, and everything is an opportunity for a Snapchat story.

I often found myself wondering about how I'll gel to the new lifestyle. It was only when college began that I realized fitting in isn't something I needed to do. In the midst of so many students, standing out is more of a task than fitting in.

Still, it isn't as if everything has changed - the urge to skip a class is as strong as ever, and incomplete practical files still haunt my fleeting existence. And just like before, the experience of seniors comes in handy. Of course, my wallet still finds itself as thin as it was in my school days.

When I looked forward to college, I foresaw some of these changes. But what I didn't really know was the exact way they would hit me, helping me move forward one step at a time towards adulthood; and I certainly didn't foresee the constants - they hit as hard as the variables if you look at them facefirst.

"Change is the only thing constant in the world," sounds more controversial when you actually look back at life.

PLACES TO GRAB A BITE OUTSIDE COLLEGE

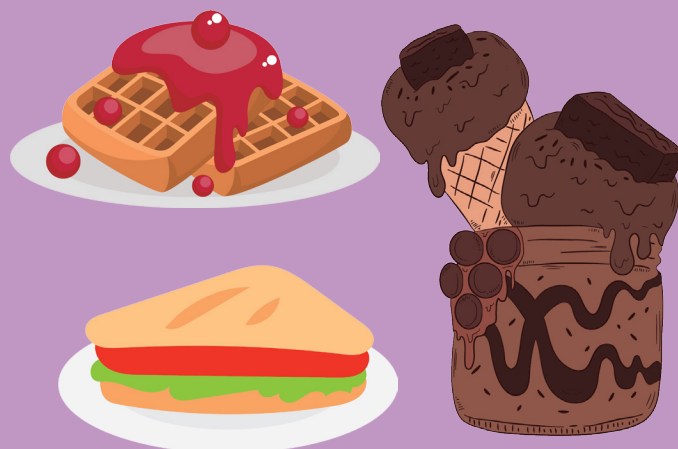
FUTURE POINT: Walk straight out of the gate to grab a quick *cheese sandwich* at Sachdeva or the *street rolls* at Zaika.

G3S: Nothing like pampering your sweet tooth with *Classic Belgian Waffles* after a film.

ROHINI WEST: All your favourite fast food joints don't need introduction.

NSP: When you're a little broke and want to awkwardly stumble upon fellow DTUites.

GTB: When you're not a little broke and want to awkwardly stumble upon fellow DTUites.



What Happens at the hostel-PG

Amit Dogra, 4th Year, COE
Anushka Sharma, 2nd Year, MAM

Much has been whined about the struggles of a day scholar, and much has been fancied about the apparently indolent lifestyle of a hosteller. In DTU, we have a fast-emerging third breed of people, colloquially substantiated by our classmates asking the same question in innumerable permutations, "Tune PG kab liya?"

1. Preferable habitat for the most

While most hostel terrariums are sweltering hot in summers and unbearably cold in winters, rooms in PGs are equipped with working devices and a complaint box. Legend has it that when an AC is switched on in a room, it has the ability to attract half of Transit hostel.

2. Curfew timings

While flexible curfew timings are a pie in the sky for hostellers, most students residing in PGs balk at the idea of even having one. The timings are found to be more convenient by the students, especially during the fest period, when even the gatekeeper's excitement level matches yours.

3. Late Night ~ Early Morning

Safe to say, the quantity (and quality) of midnight experiences and philosophical conversations increase dramatically. PGs are constantly hustling and bustling during the nights, courtesy WiFi (no LAN cable problems). Exam nights also tend to arouse the entrepreneur in you, as you realise that exams cannot decide your fate... only you can.

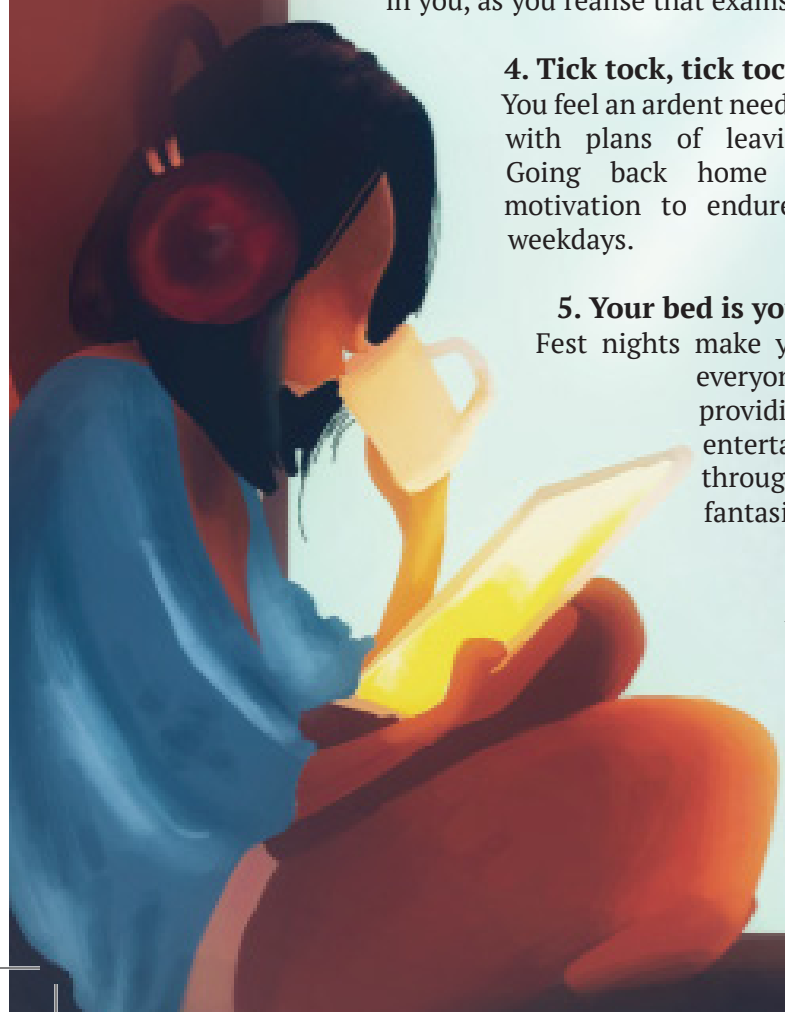
4. Tick tock, tick tock, tick...

You feel an ardent need of packing your bags on Thursday night, with plans of leaving for home as soon as possible. Going back home for two days gives you enough motivation to endure the gruelling academically charged weekdays.

5. Your bed is your bed, or is it?

Fest nights make you incredibly popular, as you become everyone's go-to person when it comes to providing a safe stay for the night. The entertainment is mutual, as they talk through the night like hopeless romantics fantasising about their budding social life.

Nevertheless, staying at a PG is no less than having your own little layoff spot, away from the chaos of college, where you tend to manage both the work and the unplanned shindigs that follow.



TO ALL THE NON-IITIANS

Shivam Jha, 3rd Year, ME

Aavriti

22,

Dear non-IITians of the Class of 2022,

Congratulations!

After two (or more) years of complete diligence, multiple sacrifices and continuous drudgery, you've crafted your way into one of the most reputed engineering colleges of the country. Unfortunately, some of you might still feel awry because of the fact that you couldn't get into an IIT, or gave up one to get here. Don't worry, you will not regret this decision and your time here will prove testament to it.

Consciously or not, our appetite for comparison is colossal.

The brand people call 'IITian', who wear it like their last name, is nothing less than a patronymic. A college tag does not drive you to hone your intellectual abilities, technical capabilities and professional skills further. To be distinguished at what you do, you need perseverance, not just a three letter institute name in your shadow.

DTU/DCE alumni have left an imprint on every possible creative and academic field; that should inspire you to strive to maintain that legacy. If you believe that life always has greater plans for you, then believe me, there is no such thing as a shattered dream.

Ultimately, if you have a strong inclination towards your field and undertook efforts to explore, four years down the line, you definitely will attain excellence.

-A fellow non-IITian.

कुछ यादें ऐसी भी!

लोकेश नारायण शंकर, द्वितीय वर्ष, आई.टी.



कॉलेज के पहले हीं दिन शिवेंद्र अपने पिताजी को स्टेशन छोड़कर वापस छात्रावास में आया तो खुश था कि चलो वर्षों कि तपस्या समाप्त हुई, अब ये आखिरी छात्रावास है। इंजीनियरिंग के बाद तो एक अच्छी नौकरी होगी, अपना घर होगा, पूरी तैयारी चल रही थी उसके दिमाग में तभी फ़ोन पर पिताजी का मिस्ड कॉल देखकर भावुक हो गया। शायद उसको याद आ गया ११ साल पुराना वो दिन जब पिताजी उसको शहर के एक छात्रावास में छोड़कर घर चले गये थे, उस दौर में जब गाँव से इक्का-दुक्का लोग हीं शहर जाते थे पढ़ने के लिए। घर से दूर तो शिवेंद्र भी नहीं जाता, वो तो महज एक संयोग था, घर के सभी सदस्य चचेरे भाई की शादी में व्यस्त थे।

उस क्षण में 'छोटू गणितज्ञ' के तमगे से नवाजे गये शिवेंद्र बाबू छत पर बैठ कर चौथी कक्षा में होने के बावजूद आठवीं कक्षा के गणित को स्पीकर पर बज रहे गाने को गुनगुनाते हुए दनादन सॉल्व किये जा रहे थे और ये सब देखे जा रहे थे शिवेंद्र के भावी मास्टर जी। मास्टर जी उस समय जिले के गिने चुने गणितज्ञों में से एक थे। शायद मास्टर जी को ९ साल के शिवेंद्र में उसके अपने उम्र के बच्चों से ज्यादा योग्यता दिखी, तभी तो उन्होंने अपने छात्रावास में निःशुल्क रहने का अवसर दे दिया। शादी सम्पन्न हुई, घर में बेटे की शादी थी लेकिन फिर भी एक बिदाई हुई क्योंकि शिवेंद्र अपने माँ, बहन, बड़े भाई, घर और गाँव के साथ छोड़कर जा रहा था उन यादों को, जो जुडी थी उसके खेतों से, खलिहानों से, वो जा रहा था दूर शहर छात्रावास में अपना बाकी का बचा हुआ बचपन बिताने।

उसे तो लग रहा था कि कुछ दिनों कि ही तो बात है, पढ़ाई पूरी करके वापस लौट आना है इन्ही झोपड़ियों में। उसे नहीं पता था कि

“गणित अब सिर्फ अंकों का खेल नहीं रहा, अब रिश्तों के जोड़ घटाव में भी गणित लगानी होगी”।

पिछले ग्यारह साल कि यादें एक साथ उसके दिमाग में चोट कर रही थी, कहाँ वो चला था चंद दिन छात्रावास में बिताने यहाँ तो कुल ग्यारह साल बिता दिए उसने उस दिन के इंतज़ार में जब वो वापस जायेगा अपने घर परिवार में। इन्ही यादों के बीच आंसुओं कि कुछ बुँदे टपक पड़ी मोबाइल स्क्रीन पर... “हेल्लो पिताजी! चरण स्पर्श, यहाँ सब ठीक है मैं अपने कमरे में हूँ आप ठीक तो हैं न?” इस प्रश्न के पूछने के कारण को सिर्फ शिवेंद्र और उसके पिताजी जानते थे, दोनों को याद है कैसे वो पहली बार छात्रावास से एक दूसरे से विदा होने के समय लिपट कर रोये थे।

What Your Seniors Won't Tell You

Gul Asnani, 3rd Year, COE

When you make your way through the hallowed walls of DTU's corridors for the first time, you do get the feeling of a strange charge creeping through your skin, reminding you have turned a new leaf. As the anxiety and excitement gradually precipitate, the woes and pressures of university life start setting in and you begin enquiring about what you should know to survive these four years gracefully. Here are some nuggets of wisdom you must know, that you often come to realise later:

- **CGPA matters.** It is one of the most debated queries of all time. It is very easy to get misguided when it comes to the importance of your CGPA. Whenever anything that affects your CGPA knocks on your door, try and be a good host to it. **Also, 1st year CGPA matters!**

- **Find your mentors, they won't find you.** Talking to completely alien but experienced people is something you really need to do. Find the people you want to be like, and just inquire! Don't waste your time hesitating.

- **Explore more, Think less.** When people tell you to explore yourself until you're deep into sophomore year, believe them. You will later realise how your freshman year is the best time you get to explore your interests in university.

If you're taking guidance from a sophomore, or maybe even a senior, there is a huge probability that he/she is as clueless as you are. Believe me, even the most successful in their leagues are still exploring themselves!

Viva la Vida!

Pratyush Thakur, 3rd Year, COE

Zara Khan, 3rd Year, PSCT

Life is merry and eccentric, everything is new and worth exploring. Classes, societies and fests are what university is about, right? But only until November, which brings along the eerie winds of the end semester examinations and vivas. There is just no getting around the dreaded viva! However, here are some tips to help you ace it:

- **Be calm:** When you are giving a viva, do you want your arms or hands to be flapping about in frenzy? Also, you don't want to be a mute spectator. Listen to the questions and calmly answer what's asked.
- **Answer to the point:** If you decide to add that one extra point you have, be prepared to be counter questioned. Trying to add frills to your answer will always end abysmally.
- **Prepare:** A little know-how of the concepts will surely go a long way and ensure you don't go blank on the spot. Read about the practicals that you have done along with some theory.
- **Don't bluff:** If you don't know the answer to a question, just say so. Chances are you may be asked a question from a topic of your choice. Try to create new theories and facts at your own risk!
- **Keep your work tidy:** Apsara pencils did not joke when they said, "Extra marks for good handwriting". Use black and blue pens and fill in the index and dates accurately. Remember to use a pencil for diagrams and cover your file.
- **"Kya pucha, kya pucha?":** You don't need us to tell you this one. Unless you are the unlucky ones who have to give the viva upfront, you can ask around and get an idea about the questions.
- **Be glad it's over:** We are all humans and sometimes we mess up. Don't brood over a viva that went horribly. You will have plenty of vivas to redeem yourself.

Flat Earth Society, DTU Chapter

Karan Singh Bora, 2nd Year, EE

Fresher (F): What is your society all about and how is it relevant to the students of DTU?

Society Head (SH): Our society- the **Flat Earth Society**, traces its roots all the way back to 1956 when a scholar named Samuel Shankar came up with the extraordinary theory of how the Earth is a flat shaped disk. Our roots are widespread round the globe...er, across the Earth.

F: What are your plans for your chapter in DTU?

SH: We plan to conduct orientations for freshers, providing them the opportunity to be a part of something unique. We are also planning for an annual trip to the sacred ice wall as soon as our leading explorers mark it on Google Earth. We will conduct monthly sessions that will provide an insight about the real geographical truths, such as the conspiracy of the curvature of the Earth, which has no solid supporting evidence except major space agency reports. These courses shall, of course, be free of cost for the members of FES.

F: How is your society beneficial for the students?

SH: We at FES-DTU prepare the students by improving their public speaking skills by conducting regular protests and marches. We even plan to organise a Flat Earth Festival, which will be the biggest fest of its kind in north India, to convince the students of our success as an established society in DTU and offer the members an opportunity to manage an event on a huge scale.

P.S. The registration fee is just INR 1700.

UNDER PRESSURE: How to Not Give In



- Anushka Sharma, 2nd year, MAM
Pratik Anand, 2nd year COE
Srishti Mittal, 2nd year, PCT

DOs

- **Befriend those who are supportive of you:** You are the average of the five closest people around you, so make sure these are the people who motivate you towards fulfilling your goals. Conversely, be there to provide help to those around you.
- **Boost your confidence and self-esteem:** College life exposes you to various vistas. Participate in activities and events that interest you; join societies and clubs that complement your persona as well as your objectives. Be sure to seize each practical opportunity to find your own area of interest and improve upon your skills. Don't let the fear of failure hold you back from trying something new.
- **Reach out to those who are being bullied:** If you come across someone who is bullied, tormented, or taken undue advantage of, don't act aloof; always stand up for the bullied - in case things escalate to criminal threats or actions, head to the appropriate authorities, prioritising your parents. For reporting and addressing matters, there is always the disciplinary board, and even the police authorities.
- **Ascertain that you are not yourself an aggressor:** Unknowingly, you might yourself be a bully to someone. Try to be more amiable and kind towards others, and don't push people around. Be sure to double-check your behavior, particularly around those who look up to you,

DON'Ts

- **Let your college life be defined by what others around you are doing:** Oftentimes it so happens that you are the black sheep in your peer group. Don't let yourself be overwhelmed by the contrasts you see. Follow your own independent aims - creating your own path is always an option.
- **Clam up and close off from the helpful people around you:** There is nothing wrong in seeking help when you need it - so open up about accepting it without being ashamed. There are far more helpful people than there are bullies.
- **Stay in a group that you feel is oppressive and/or pressurizing in a negative way:** Sometimes a bully isn't someone who is openly aggressive; they can covertly pressurize and influence you, siphoning your energy away. It is better to break ties with such friends than being exposed to unhealthy pressures, such as being forced to smoke or drink to appear "cool."
- **Be afraid to stand up for yourself:** Bullies thrive on the feeling of being in power they get from making someone feel weak. By remaining unruffled, the act of bullying stands futile.
- **Be afraid to seek out help from professionals when needed:** Timely help can prevent any lasting scar on your existence. Apart from dealing with the issues at hand, it helps you understand the psychology behind a bully's behaviour. This can often come in handy in helping others when caught in similar situations.



Harajit

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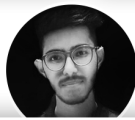
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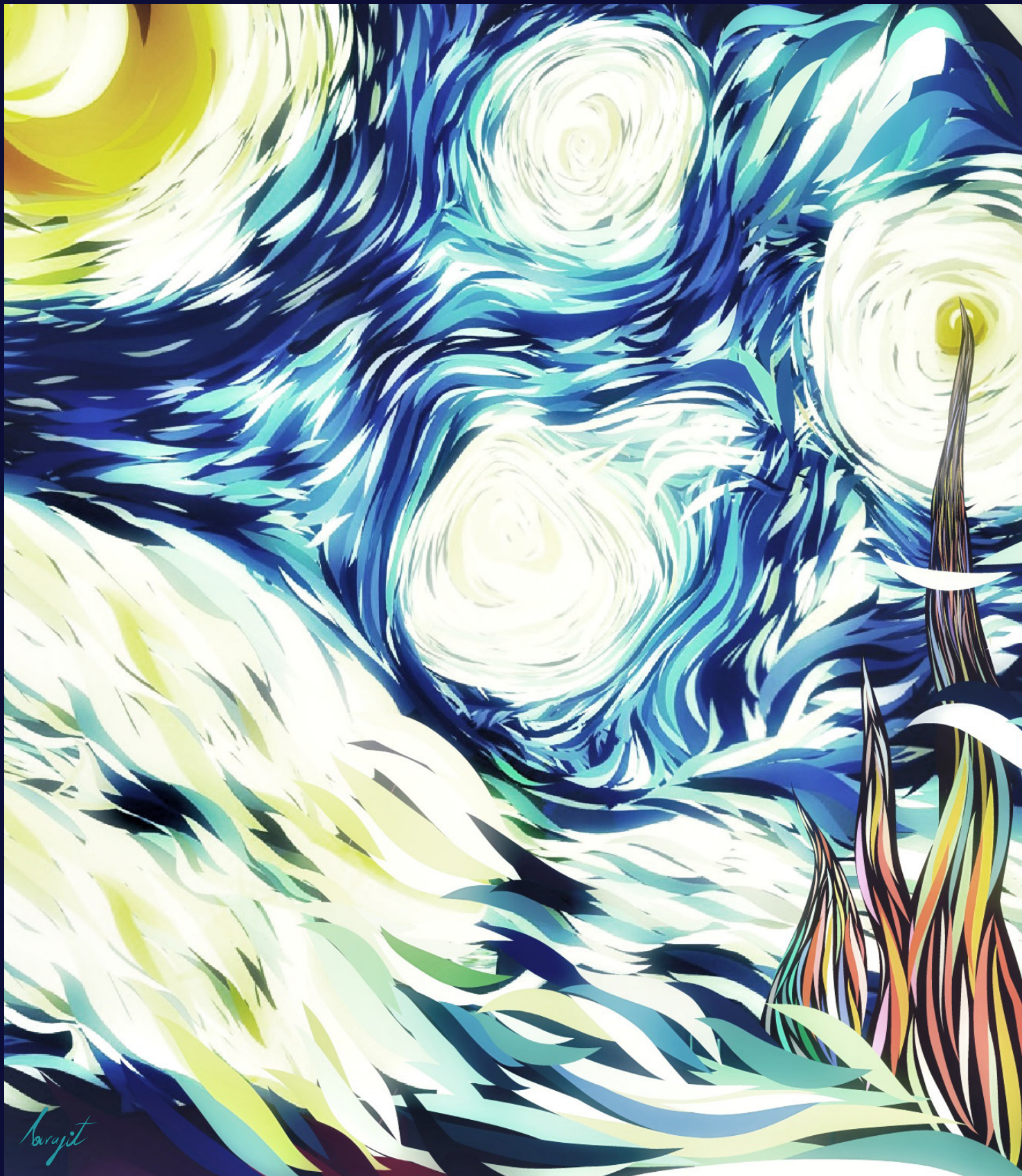
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