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# DTU TIMES



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## EDITORS' NOTE

This month marks thirty years since the fall of the Berlin Wall. The Wall represented not merely a geographical division of Berlin, Germany and Europe, but also an ideological one, with the relatively liberal and democratic Western bloc on the West and the communist Soviet bloc on the East. As strenuous as it would seem to reconcile these seemingly antithetical schools of thought - within twelve months of the Wall falling, Germany had been reunified into one sovereign nation. And ever since, it has grown into one among the world's major economies, even as the echoes of faded scars of the East-West divide remain.

Even at an individual level, much of our lives are spent bolstering the active efforts of the consciousness within you, to uplift its body-identified self into unity with the soul, for it should not allow itself to remain mired in the lowly delusive strata of the senses and material entanglement.

Unity undoubtedly brings strength. However, it also requires persistence and the will to remain unified. One needn't look far to notice scores of such examples within the boundaries of our campus. Our teams are constituted of students of different backgrounds, experience and branches. Notwithstanding these differences, team members are brought together by the will to create, participate and win. At the end of the year, each team competes as one unit, under the University banner.

The edition you hold in your hands is made possible only through the combined efforts of columnists, designers, illustrators and photographers, each of whom views its contents in a different light. Each member of the team has different visions and aspirations for the edition; when they work together, these are reconciled into an edition of DTU Times.

सर्वभूतस्थमात्मानं सर्वभूतानि चात्मनि |  
ईक्षते योगयुक्तात्मा सर्वत्र समदर्शनः ||

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# FROM THE DESK OF THE VICE CHANCELLOR



78 years since its inception, Delhi Technological University continues to be one of the leading educational institutions of the country. This year, the students of the Batch of 2023 were welcomed into the university by Mr. Manish Sisodia, Hon'ble Deputy Chief Minister and Minister of Education, Delhi. I am elated to witness the new batch settle gracefully into the college environment.

The placement season has begun with much zeal and zest, with students already bagging placements in top companies like Amazon, Uber, Samsung, Qualcomm, L&T, Deloitte, etc. Numerous companies are also hiring third year students for their prestigious internships, hence solidifying the university's relations with the best in the industry. The first batch of students from USME has also participated in this placement season, securing impressive placements all across the board. I would like to congratulate the students for their excellent performance.

The university has made continual efforts to create awareness about the environment and was praised by Mr. Arvind Kejriwal, Hon'ble Chief Minister of Delhi for the transplantation of over a hundred trees in lieu of the ongoing Phase-II construction on the campus. Initiatives like the Fit India Plogging Run and Swachh DTU have inspired the students to take a positive step towards saving the environment. DTU recently started its NCC Chapter, which will guide and inspire its members to become disciplined and law-abiding citizens of the country.

The university has come a long way and all the credit goes to the students, the faculty members and the administration who have made this possible. I wish the students excel in all their endeavours and hope that they take the university to new horizons.



# THE BULLETIN

## TRANSPLANTATION OF 111 TREES IN DTU

In view of the new Phase-II construction project proposed, DTU transplanted 111 fully grown trees in its sports complex to make way for a new academic block. Several trees as old as 15-20 years were uprooted and given a new home.

**Mr. Arvind Kejriwal**, Hon'ble Chief Minister, Delhi, appreciated Delhi Technological University's effort in transplanting the trees for construction work on the campus and said it was an encouraging sign for environmental protection. He also watered the transplanted trees.



## INAUGURATION OF SEWAGE TREATMENT PLANT

The newly-constructed Sewage Treatment Plant was inaugurated by **Mr. Manish Sisodia**, Hon'ble Deputy Chief Minister and Minister of Education, Delhi in August 2019. The new plant is situated near the Aryabhata Hostel and has a capacity of 1 MLD.



## ADVANCED PEDAGOGY, IPR, SPONSORED RESEARCH AND ENTREPRENEURSHIP

**Industrial Research and Development Cell**, DTU and **Intellectual Property Rights Cell**, DTU, in association with *Engineering Staff College of India*, organised a one-week **Faculty Development Program** on "Advanced Pedagogy, IPR, Sponsored Research and Entrepreneurship" in July 2019.



## ELECTRONIC DESIGN AUTOMATION AND DOCUMENTATION TOOLS

**Department of Electronics and Communication Engineering**, DTU organised a TEQIP-III sponsored one-week Staff Development Program on "Electronic Design Automation and Documentation Tools" in July 2019. **Prof. Yogesh Singh**, Hon'ble Vice Chancellor, DTU was the Chief Patron, and **Prof. S. K. Garg**, Pro-Vice Chancellor, DTU was the Patron. **Prof. S. Indu**, HoD, Department of Electronics and Communication served as the Chairman. **Dr. N. Jayanti** and **Ms. Trasha Gupta** were the course coordinators.



## RECENT TRENDS IN AI AND MACHINE LEARNING

**Department of Information Technology**, DTU organised a TEQIP-III sponsored Short-term Training Program on "Recent Trends in AI and Machine Learning" in August 2019. **Prof. Yogesh Singh**, Hon'ble Vice Chancellor, DTU was the Chief Patron, and **Prof. S. K. Garg**, Pro-Vice Chancellor, DTU was the Patron. **Prof. Kapil Sharma**, HOD, Department of Information Technology was the Chairman. **Dr. Dinesh K. Vishwakarma** and **Ms. Priyanka Meel** were the course coordinators.

## INDEPENDENCE DAY CELEBRATION

DTU celebrated the 73<sup>rd</sup> Independence Day with the traditional hoisting of the tricolour by **Prof. Yogesh Singh**, Hon'ble Vice Chancellor, at the Admin Block. This was followed by a cultural program in B.R. Ambedkar Auditorium, organised by **Cultural Council**, DTU.



## RESEARCH WRITING WORKSHOP

**Industrial Research and Development (IRD)**, DTU, in association with *Indian Women Scientists' Association (IWSA)*, Delhi organised the 8<sup>th</sup> **Veena Roomal Memorial One-Day Workshop** on "Research Writing" in August 2019. **Prof. Yogesh Singh**, Hon'ble Vice Chancellor, DTU was the Chief Guest. **Prof. Ashutosh Trivedi**, Dean, IRD coordinated the event.





## RECENT TRENDS IN WELDING TECHNOLOGY

Department of Mechanical Engineering, DTU organised a TEQIP-III sponsored two-day workshop on **“Recent Trends in Welding Technology”** in August 2019. **Prof. Yogesh Singh**, Hon’ble Vice Chancellor, DTU was the Chief Patron, and **Prof. S. K. Garg**, Pro-Vice Chancellor, DTU was the Patron. **Prof. Vipin**, HOD, Department of Mechanical Engineering was the Chairman. **Dr. N. Yuvaraj** and **Prof. M.S. Ranganath** were the course coordinators.

## TECHNICAL TALK ON DEEP LEARNING AND ANALYSIS OF SOFTWARE CODE FOR FUN AND PROFIT

A delegation from **Singapore Management University** visited DTU in August 2019 for possible research collaboration. **Prof. Jiang Lingxiao**, School of Information Systems, Singapore Management University presented a technical talk on **“Deep Learning and Analysis of Software Code for Fun and Profit”**.



## TEACHERS’ DAY CELEBRATION

**DCE-DTU Alumni Association** celebrated **“Guru Samman Utsav”**, an expression of gratitude to the teachers, on the occasion of Teachers’ Day in September 2019. The celebration also witnessed *Hasya Kavi Sammelan*, including performances which made people appreciate poetry irrespective of their age.



HER'S DAY 2019

## SWACHH DTU - ZERO ORGANIC WASTE CAMPUS

**Swachh DTU** initiative aims to build a zero organic waste campus in DTU by building a proper waste management system. The goal is to segregate waste at the source level and utilise the collected waste for energy generation. The residents of DTU pledged to support the initiative and promised to dispose off organic waste separately.

## E-RESOURCES: A GATEWAY FOR RESEARCH

**Central Library, DTU** organised the annual 5-day **Information Literacy Workshop** on **“E-Resources: A Gateway for Research”** in September 2019 for library users. The main aim was to encourage users to use the different databases and e-resources made available in the library, to improve the quality of articles and reports. The workshop was coordinated by **Dr. Lalita**, Assistant Librarian.



## US UNIVERSITIES MINI EDUCATION FAIR

**Office of International Affairs, DTU** organised a mini-fair on **Higher Education in US Universities** in September 2019. Delegates of several prestigious universities from USA were present to guide and mentor the students. The fair proved to be very informative for the students and expanded their vision for studying abroad.



## n+i FRENCH UNIVERSITIES EDUCATION FAIR

**Office of International Affairs, DTU** organised the **n+i French Universities Education Fair** in September 2019. Delegates from the associated universities visited and apprised the students of the opportunities abroad. The students got all their doubts cleared about higher studies from the experts.





## AWARENESS OF SCIENCE SUBJECT AMONG TEACHERS

Centre for Extension and Field Outreach, DTU and Human Resource Development Centre, DTU organised a two-day Training Program on "Awareness of Science Subject amongst Teachers as well as Students of Govt. Schools for HOS/Principals of Govt. Schools of NCT of Delhi" in September 2019. Prof. Yogesh Singh, Hon'ble Vice Chancellor, DTU was the Chief Guest for the program.



## WORKSHOP ON GRAMMARLY

Central Library, DTU organised a workshop-cum-training Session on Grammarly in the Conference Hall in September 2019. The workshop was conducted by Mr. Jagadesh V., Head - Technology, Bridge People Technology Solutions Pvt. Ltd. The workshop was coordinated by Dr. Lalita, Assistant Librarian, under the supervision of Mr. R.K. Shukla, Librarian.



## FIT INDIA PLOGGING RUN

Sports Council, DTU in association with NSS DTU, organised a Fit India Plogging Run on the occasion of Gandhi Jayanti in October 2019 for the 5-year commemoration of Swachh Bharat Abhiyaan. Prof. Yogesh Singh, Hon'ble Vice Chancellor, DTU was the Chief Guest. The participants collected plastic garbage from the campus while running and pledged to avoid single-use plastic in their daily life. It was followed by a slogan writing competition on the theme of "Single-use Plastic Hazards".



## NCC ORIENTATION PROGRAM

National Cadet Corps, DTU organised their Orientation Programme in October 2019 at B.R. Ambedkar Auditorium. NCC is the Youth Wing of the Indian Armed Forces and grooms its members to become disciplined and patriotic citizens of the country. Prof. Yogesh Singh, Hon'ble Vice Chancellor, DTU and Brig. Harbir Singh were the Chief Guests for the event.



## WORLD STUDENTS' DAY

Literature and Film Council, DTU organised the celebration of World Students' Day in October 2019. The event began with the customary lighting of the lamp and address to the audience by the Chief Guest, Prof. Yogesh Singh, Hon'ble Vice Chancellor. Celebrated poet Gaurav Tripathi performed during the event.



## NEWS FROM USME

### CV BUILDING WORKSHOP

Corporate Relations and Placement Committee, USME, DTU organised a CV Building and General Interview Preparation Workshop. The workshop was conducted by Nikhil Chainani, Founder, Perspectico AI, an AI-powered value matching tool for companies to evaluate and screen candidates better. Experts from prestigious companies like Nomura, Bain, AT Kearney, Times Internet and Boston Consulting Group were also present to assist students in making professional and articulate resumes.



# Faculty News and Achievements

## Awards, Honours, Conferences

### Prof. S. Indu, Dept. of Electronics & Communication Engineering

- Expert Member, Selection of Lecturers under DTTE, UPSC
- Expert Member, Evaluation Committee of a project, DRDO
- Organiser, Orientation Programme for 3<sup>rd</sup> Semester B.Tech. students and 1<sup>st</sup> Semester M.Tech. students, DTU

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

- Presenter, Project Report, 'Wrap up Meeting of the International collaborative project of DBT, India & BBSRC, UK', *University of Stirling, Scotland, United Kingdom*
- Fishery Expert, 'Animal Health Management in Rainy Season', *DD Kisan Channel*

### Prof. Qasim Murtaza, Dept. of Mechanical Engineering

- Awardee, Best Paper Award, 2<sup>nd</sup> International Conference on Computational Methods in Manufacturing, *IIT Guwahati*

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

- Organiser, 'Recent Trends in AI and Machine Learning', *DTU*



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

- Attendee, 'Scaling up of Solar Thermal Technologies', *UNIDO, New Delhi*

### Dr. Rahul Katarya, Assoc. Prof., Dept. of Computer Science & Engineering

- Speaker, 'AI in Healthcare Analytics', *GLA University, Mathura*
- Speaker, 'Importance of Big Data Analytics & Intellectual Property Rights in E-learning & E-Governance', *UGC-Human Resource Development Centre, Jawaharlal Nehru University, New Delhi*
- Participant, 'E-Resources: A Gateway for Research', *DTU*
- Participant, 'Recent Trends in AI and Machine Learning' TEQIP-III sponsored one-week Short Term Training Programme, *DTU*



### Dr. Rajiv Ranjan Dwivedi, Assoc. Prof., Dept. of Humanities

- Presenter, 'Language Learning through Literature: A Perspective on Pedagogic Shift', *WEI Conference, Harvard Faculty Club, Harvard University, Boston, USA*

### Dr. Saroj Bala, Assoc. Prof., Dept. of Humanities

- Presenter, 'Indian English among World Englishes', *Golden Jubilee 14<sup>th</sup> International Conference of English Language Teachers' Association India, Amity University, Noida*

### Dr. Shilpa Pal, Assoc. Prof., Dept. of Civil Engineering

- Speaker, 'Advances in Concrete Technology', *JSS Academy of Technical Education, Noida*

### Mrs. Lovleen Gupta, Asst. Prof., Dept. of Environmental Engineering

- Presenter, 'First time long term measurements of PM2.5 and PM10 aerosol composition over Ghaziabad, India's most polluted industrial city', *European Aerosol Conference 2019, Gothenburg, Sweden*

### Mr. Rahul, Asst. Prof., Dept. of Computer Science & Engineering

- Attendee, 'Issues and Challenges in Intelligent Computing Techniques', *IEEE International Conference, KIET Group of Institutions, Ghaziabad*

### Dr. Ravindra Singh, Asst. Prof., Dept. Of Design

- Speaker, 'Universal Design Principles and Practices', *Empower 2019, Indian Technical and Economic Cooperation Programme, IIT Delhi Technopark, Sonapat*
- Guest Editor, *Design for All Publication, Design for All Institute of India*
- Attendee, 'Design Hackathon', *UP Institute of Design, Dr. APJ Abdul Kalam Technical University, Noida, UP*

### Dr. N. Yuvaraj, Asst. Prof., Dept. of Mechanical Engineering

- Organiser, 'TEQIP III sponsored workshop on Recent Trends in Welding Technology', *DTU*





# Publications

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

- 'Production potential of greater duckweed Spirodela polyrhiza (*L. Schleiden*) and its biochemical composition evaluation', *Aquaculture*

## Prof. Sudhir Warkar, HoD, Dept. Of Applied Chemistry

- 'Synthesis and assessment of carboxymethyl tamarind kernel gum based novel superabsorbent hydrogels for agricultural applications', *Polymer*

## Prof. Uma Nangia, HoD, Dept. of Electrical Engineering

- 'A Hybrid Intelligent Approach for Solar Photovoltaic Power Forecasting: Impact of Aerosol Data', *Arabian Journal for Science and Engineering*

## Prof. Amit Pal, Dept. of Mechanical Engineering

- 'Performance Evaluation and Analysis of Underutilized Argemone Mexicana seed oil Biodiesel in Single Cylinder 4-S Diesel Engine', *International Journal of Innovative Technology and Exploring Engineering*
- 'Efficient production of biodiesel from Cannabis sativa oil using intensified transesterification (hydrodynamic cavitation) method', *International Journal of Energy Sources, Part A: Recovery, Utilization and Environmental Effects*

## Prof. Pravir Kumar, Dept. Of Biotechnology

- 'Can luteolin be a therapeutic molecule for both colon cancer and diabetes?', *Briefing in Functional Genomics*

## Prof. K. C. Tiwari, Dept. of Civil Engineering

- 'Glacial Lakes and Glacial Lakes Outburst Floods in Himachal Pradesh, India using Remote Sensing and GIS', Natural Resource Management, Himalayan Researchers Consortium - 2019, *Wildlife Institute of India, Dehradun, Uttarakhand*

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

- 'Synthesis optimization, photoluminescence and thermoluminescence studies of Eu<sup>3+</sup> doped calcium aluminozincate phosphor', *Journal of Alloys and Compounds*
- 'Spectroscopic Investigations of dysprosium ions doped Oxy Chloro Boro Tellurite Glasses for Visible Photonic Device Applications', *Journal of Alloys and Compounds*
- 'Spectroscopic Studies of Dy<sup>3+</sup> ions doped barium lead alumino fluoro borate glasses', *Journal of Alloys and Compounds*
- 'Color tunability and energy transfer studies of Dy<sup>3+</sup>/Eu<sup>3+</sup> co-doped calcium aluminozincate phosphor for lighting applications', *Materials Research Bulletin*
- 'Near UV based Dy<sup>3+</sup> ions doped Alkaline-Earth Chloro Borate Glasses for white LEDs and Visible Lasers', *Optics & Laser Technology*
- 'Judd-Ofelt parametrization and Radiative analysis of Dy<sup>3+</sup> ions doped Sodium Bismuth Strontium Phosphate Glasses', *Journal of Luminescence*
- 'Structural, Optical and NIR studies of Er<sup>3+</sup> ions doped Bismuth Boro Tellurite Glasses for Luminescence Materials Applications', *Journal of Luminescence*

- 'Spectroscopic Investigations on Dy<sup>3+</sup> ions doped Zinc Lead Alumino Borate Glasses for Photonic Applications', *Journal of Rare Earths*
- 'Spectroscopic properties of deep red emitting Tm<sup>3+</sup> ions doped ZnPbWTe Glasses for Optoelectronic and Laser Applications', *Journal of Non-Crystalline Solids*
- 'Effect of Sm<sup>3+</sup> ions Concentration on Borosilicate glasses for Reddish Orange Luminescent Device Applications', *Journal of Non-Crystalline Solids*
- 'An Electron Paramagnetic Resonance and Photoluminescence investigation of UVB radiation emitting Gadolinium activated Ca Y<sub>2</sub>Al<sub>4</sub>SiO<sub>12</sub> Garnet compound', *Journal of Electronic Materials*
- 'Spectroscopic investigation of Erbium ions doped Alkaline-Earth Boro Tellurite glasses for fiber optic amplifiers', *Solid State Sciences*

## Dr. Akhilesh Arora, Assoc. Prof., Dept. of Mechanical Engineering

- 'Energy and exergy analysis of vapor compression-triple effect absorption cascade refrigeration system', *Engineering Science and Technology, An International Journal*

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

- 'Crowd anomaly detection using Aggregation of Ensembles of fine-tuned ConvNets', *Neurocomputing*
- 'Fake News, Rumour, Information Pollution in Social Media and Web: A Contemporary Survey of State-of-the-art, Challenges and Opportunities', *Expert Systems with Applications*

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

- 'Pinch Analysis and Heat Integration in a Sugar industry using Hint Software', *SSRG International Journal of Mechanical Engineering*
- 'Solar Photovoltaic system study and Installation Optimisation using MATLAB and SIMULINK', *SSRG International Journal of Electrical and Electronics Engineering*

**Dr. Pravin Kumar, Assoc. Prof., Dept. of Mechanical Engineering**

- 'Measuring the flexibility index for a supply chain using Graph Theory Matrix Approach', *Journal of Global Operations and Strategic Sourcing*
- 'Evaluation of supply chain coordination index in context to Industry 4.0 environment', *Benchmarking: An International Journal*

**Dr. Rahul Katarya, Assoc. Prof., Dept. of Computer Science & Engineering**

- 'Role of Opinion Leader for the diffusion of products using Epidemic model in Online Social Network', *12<sup>th</sup> IEEE International Conference on Contemporary Computing, IIIT Noida*
- 'Opinion Leader detection using Whale Optimization Algorithm in Online Social Network', *Expert Systems with Applications*

**Dr. Sudharshan K. Valluru, Assoc. Prof., Dept. of Electrical Engineering**

- 'Trajectory Tracking Control of TRMS using FO-PID and FOI-PD Controllers: An Experiment', *3<sup>rd</sup> IEEE International Conference on Recent Developments in Control Automation and Power Engineering, Amity University, Noida*

**Dr. Raju Sarkar, Assoc. Prof., Dept. of Civil Engineering**

- 'Estimating Rainfall Thresholds for Landslide Occurrences in Bhutan Himalayas', *Water*
- 'Effect of 3D Geogrid and Glasgrid in the Bearing Capacity of Square Footing over Soil Slope', *International Journal of Recent Technology and Engineering*
- 'Forecasting Landslide in Chukha from Index Properties of Soil-Research to Policy Making', *World Scientific News*
- 'Determination of the Probabilities of Landslide Events—A Case Study of Bhutan', *Journal of Hydrology*

**Dr. Ram Singh, Assoc. Prof., Dept. of Applied Chemistry**

- 'Development of Polypropylene/Banana peel (Treated and Untreated) Composites with and without Compatibilizer and their Studies', *Materials Research Express*
- 'Phytochemical screening, antioxidant and antimicrobial activities of Bombax ceiba flower', *Algerian Journal of Natural Products*
- 'Facile one-pot synthesis of highly functionalized pyrazoles using Alumina-Silica-supported MnO<sub>2</sub> as recyclable catalyst in water', *Research on Chemical Intermediates*

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

- 'Intelligent Approach-based Hybrid Control Algorithm for Integration of Solar Photovoltaic System in Smart Grid Environment', *IET Smart Grid*
- 'Sizing of Renewable Energy based Hybrid System for Rural Electrification using Grey Wolf Optimization Approach', *IET Energy Systems Integration*
- 'Short Term Solar Energy Forecasting using GNN Integrated Wavelet based Approach', *International Journal of Renewable Energy Technology*

- 'A Hybrid Intelligent Approach for Solar Photovoltaic Power Forecasting: Impact of Aerosol Data', *Arabian Journal for Science and Engineering*
- 'Optimal Sizing and Placement of the UPQC and DG Simultaneously based on Sensitivity Analysis and Firefly Algorithm', *International Journal of Power and Energy Conversion*

**Ms. Anamika Chauhan, Asst. Prof., Dept. of Information Technology**

- 'Encoding Context in Task Oriented Dialogue Systems using Intent, Dialogue Acts, and Slots', *International Conference on Innovation in Computer Science and Engineering, Hyderabad*

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

- 'Removal of benzothiophenes from model diesel/jet oil fuel by using pervaporation process: Estimation of mass transfer properties of the different membranes and dynamic modeling of a scale-up batch process', *Journal of Membrane Science*

**Mr. Prashant Giridhar Shambharkar, Asst. Prof., Dept. of Computer Science & Engineering**

- 'Automatic Annotation of Events and Highlights Generation of Cricket Match Videos', *International Journal of Innovative Technology and Exploring Engineering*
- 'Multimodal KDK Classifier For Automatic Classification of Movie Trailers', *International Journal of Recent Technology and Engineering*

**Mr. Rahul, Asst. Prof., Dept. of Computer Science & Engineering**

- 'Issues and Challenges in Intelligent Computing Techniques', *International Conference on Inventive Computation Technologies, Coimbatore*



# ORIENTATION

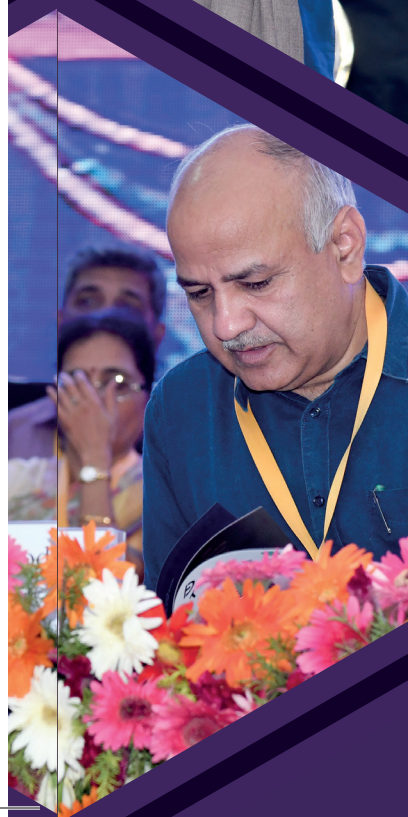




The **Orientation Programme** for the Class of 2023 was organised in August 2019. **Mr. Manish Sisodia**, *Hon'ble Deputy Chief Minister and Minister of Education, Delhi*, was the Chief Guest for the event, accompanied by **Mr. Sheo Pratap Singh**, *IAS, Secretary, DTTE, Delhi*, as the Guest of Honor.

The programme commenced with a felicitation ceremony for the dignitaries, followed by an extended welcome to all faculty, parents and students. The Chief Guest, along with **Prof. Yogesh Singh**, *Hon'ble Vice Chancellor* and **Prof. Madhusudan Singh**, *Dean, Academics (UG)* delivered speeches and motivated the future engineers to become admirable achievers and take forward the legacy of the university. A short documentary on DTU was also screened. The 47<sup>th</sup> edition of the official newsletter of the university, **DTU Times**, was released by the dignitaries. The day concluded with a vote of thanks by **Prof. S. K. Garg**, *Hon'ble Pro-Vice Chancellor*, followed by lunch.

Day 2 of the Orientation Ceremony witnessed addresses by the dignified professors wherein they explained the registration process, the academic culture and the curriculum structure. This was followed by interactive sessions with notable DTU alumni. The two-day programme ended on a light note as youth icons like DTU alumnus **Rajat Sood** and **RJ Naved** from Radio Mirchi were invited on stage for a short entertainment session.







# FRESHERS' WEEK



The Class of 2023 received a warm and refreshing welcome to the university at the **Freshers' Week** organised by the **DTU Cultural Council** in September 2019. The week-long extravaganza started with the **Band Night**, which had the open air theatre jam-packed with students swaying to the tunes of **Awaan** band.



The following day saw celebrations being continued with the highly anticipated **Ethnic Night**. Students dressed up in their traditional best and were seen letting their hair down as they danced their hearts out. This was followed by the **Cultural Train** and **Informal Events** by various societies of DTU. A **Movie Screening** was also held in the auditorium.



The five days of festivities wrapped up with the much awaited **Freshers' Night**. Performances by Panache as well as dance exhibits by Vibe, DTU Bhangra and Nrityangana kept the audience in good spirits. Students took to the stage to display their diverse talents. The evening concluded with the crowning of **Mr.** and **Ms. Fresher** amidst loud cheers and revelries. It was a befitting end to a string of festivities and left the students energised and excited for their upcoming days at DTU.

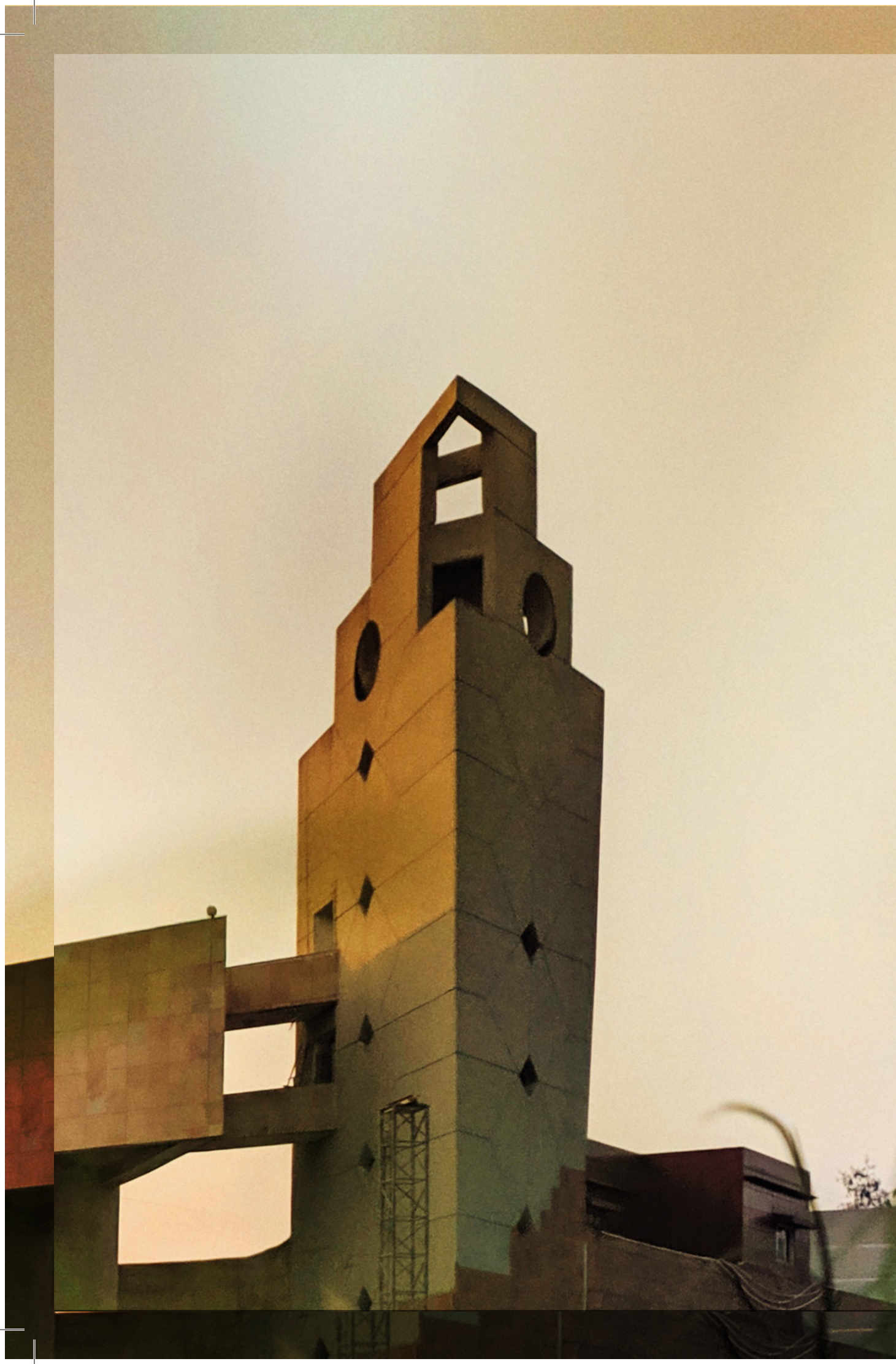


The **Cultural Council, University School of Management and Entrepreneurship** welcomed its freshers for the academic year 2019-20 with pomp and show as it celebrated **Inizio**, the Annual Freshers' Event in September 2019. The celebration commenced with **Mr. Amit Mookerji**, *Head of Department, USME* addressing the gathering and assuring everyone to look forward to another brilliant academic year.

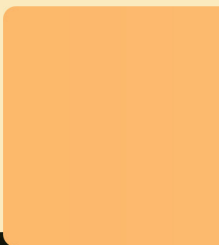
The event comprised of several quizzing competitions and a **PUBG tournament**, amassing an enthusiastic crowd. Performances by Furious, the dance society, Shiddat, the music society, and Disguise, the fashion society, kept the audience entertained. The freshers competed in a series of rounds to earn the coveted titles of **Mr. and Ms. Fresher**. An **Open Mic** was also organised for budding writers and poets. The celebration concluded with the much awaited **DJ Night** as students danced their hearts out to the beats.

# INIZIO





TIN

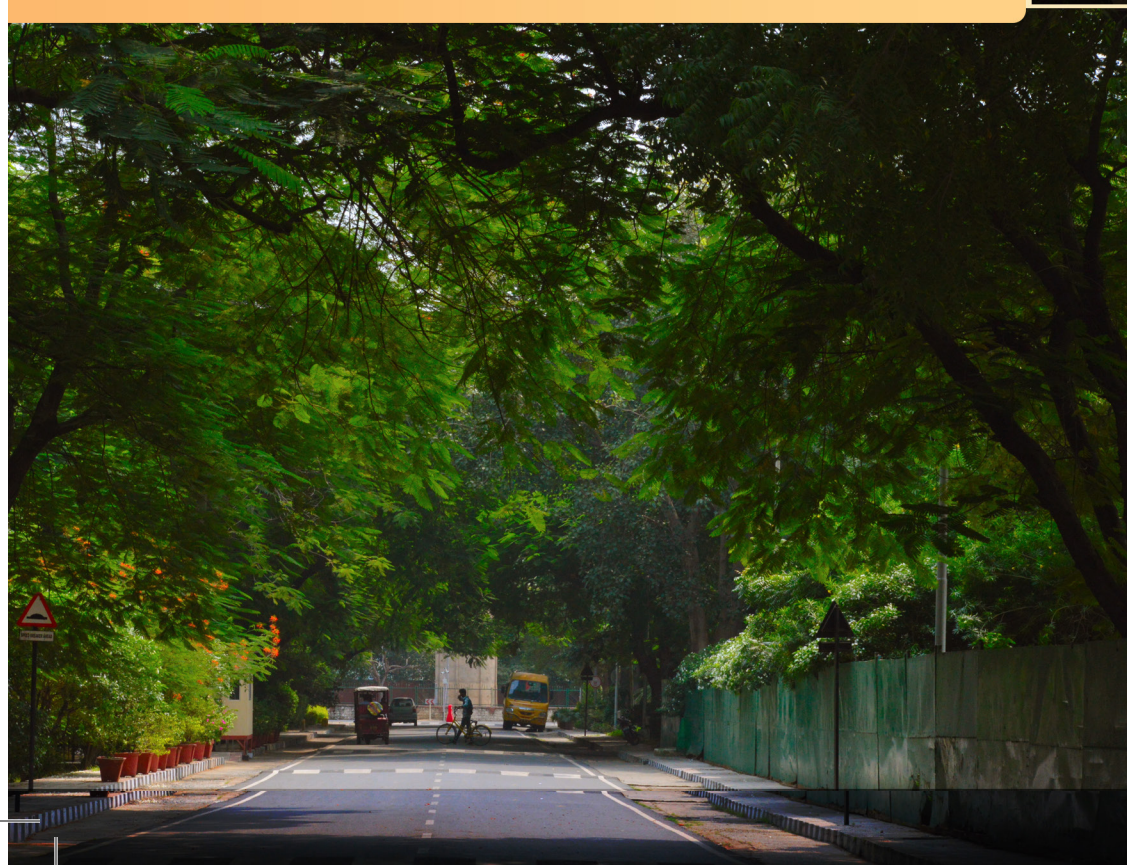






IMES

REEL







### 180 Degrees Consulting DTU wins laurels

At the NSUT Case Study Competition, the team of Aakriti Khurania, Ankit Keswani and Rohit Gupta secured the 2<sup>nd</sup> position. Parth Sharma bagged the 2<sup>nd</sup> position in the National Finals of the Youth Parliament at NITIE, Mumbai. The team of Param Chhura and Shivam Jha were the Runners-Up at Finatic, Business Quiz at St. Stephen's College.



### ACS DTU and IICHe DTU conduct workshop

The American Chemical Society DTU Chapter in collaboration with Indian Institute of Chemical Engineers DTU Chapter organised a Career Consulting Workshop. The workshop was conducted by Mr. Abhijeet Singh, Founder, StepVue.



### IEEE DTU organises Techweek

IEEE DTU organised their annual workshop event Techweek in September 2019. It consisted of various technical workshops which were conducted by 2<sup>nd</sup> and 3<sup>rd</sup> year IEEE students. The topics covered included Solidworks, Data Structures & Algorithms, IoT, WebD, Graphic Designing, Robotics, Animation, Circuit Designing, and Android Development.

# SOCIETY NEWS

### IMEchE DTU Chapter devotes for change

IMEchE DTU Chapter conducted a Blood Donation Camp in August 2019. Prashant Chandra Pujari and Devang S. Nath participated in IMechE SOFE ('Speak Out for Engineering'), securing the 3<sup>rd</sup> and 4<sup>th</sup> position respectively at the North India level.



### Kalakriti drives ahead

In September 2019, Kalakriti conducted an Inverse Sketching Workshop as well as a Digital Art Workshop. At IIT Delhi, Kalakriti's Design Team secured the 1<sup>st</sup> prize in the Digital Art Competition. Their team also won the Graffiti Competition. Mohit Bhankar won the 3<sup>rd</sup> prize in the Sketching Competition while Pritish Rath bagged a special mention.



### Madhurima wins accolades

At Vardhman Mahavir Medical College, Manas Singh bagged the 1<sup>st</sup> position in the Light Indian Solo Singing category. At IIT Delhi, Pranshu Kukreti won the 2<sup>nd</sup> prize in Light Indian Solo Singing, while Jahnvi Rajaram and Bhuvan Ved bagged the 3<sup>rd</sup> and 4<sup>th</sup> positions respectively in the Western Solo Singing competition.

In August 2019, Pranshu Kukreti participated in the Ethno Brazil 2019 Festival held in Brazil. This included performing in four shows for 1200 people in Bragança Paulista, São Paulo, Cerquilho and Sorocaba for a total of 88 hours.

### Let's Talk organises talk

In September 2019, Let's Talk - An English Learners' Collective organised 'Think Global Act Local', a talk by Dr. Sanjay Kumar, India Country Director, Harvard University. Dr. Kumar spoke about his journey from the small village of Katihar in Bihar to the coveted Harvard University.







### SCEE maps advancements

The Society for Civil and Environmental Engineers organised a workshop on geospatial technologies and their applications. A guest lecture on GATE 2020 was conducted by Mr Ashish Gupta, a DTU alumnus and AIR 7 in GATE 2018.



### Rotaract Club of USME instills social responsibility

The Rotaract Club of USME organised a Blood Donation Camp along with a Thalassemia Awareness Workshop-cum-Thalassemia Check-up Camp in USME, DTU East Campus. The members organised a polio vaccination drive, in which they delivered oral polio vaccinations to underprivileged children in Shalimar Bagh. They also participated in a Dog Walk in collaboration with Sanjay Gandhi Animal Care Hospital.



### NSS DTU volunteers for a cause

The volunteers of NSS DTU along with the faculty members took part in a college-wide Plantation Drive in August 2019. The plantation drive was led by Dr. Pravin Kumar, Associate Professor, Department of Mechanical Engineering, with the support of Dr. Anil Parihar, Dr. Deva Nand, Dr. Dinesh K Vishwakarma, Dr. Mohammad Zunaid, Dr. N. A. Ansari, Dr. Saurabh Agrawal, and others. Fifty saplings were successfully planted.

A Campus Tour for J&K Students was conducted by NSS DTU in September 2019. As per the stratagem of the National Integration Tour organised by Indian Army under the authority of the Ministry of Defence, GOI, students and army officials hailing from Jammu and Kashmir visited DTU. The team from J&K was addressed by Prof. S. K. Garg, Pro Vice-Chancellor, and Prof. Madhusudan Singh, Dean, Academics (UG), where they interacted with the students and guided them regarding the careers to pursue and the opportunities present for them in DTU and elsewhere in India.

### Sahitya bags awards

Sahitya, the Literary & Debating Society of DTU organised a Letter Writing Event in October 2019. They invited students to write anonymous letters on mental well-being. These letters were handed out to the attendees of the Mental Health Fiesta.

The team of Akshat Sharma, Mihir Rajora and Shivam Jha broke tabs at the 5<sup>th</sup> CBS Parliamentary Debate. At IIIT Noida, Abhishek Gupta and Shubhang Gopal were awarded Best Team in the English Conventional Debate, while Nilesh Nishant bagged a Special Mention in the Hindi Slam Poetry event. At IIIT Delhi, Abhishek Gupta and Manika Jain won the 3<sup>rd</sup> Best Team award in the Debate competition. Angad Sethi received the Best Interjector award in the Conventional Debate at Shaheed Rajguru College. At IIT Delhi, Shubhang Gopal secured the 3<sup>rd</sup> position in the Turncoat Debate while Mihir Rajora was the Breaking Adjudicator in the Parliamentary Debate.

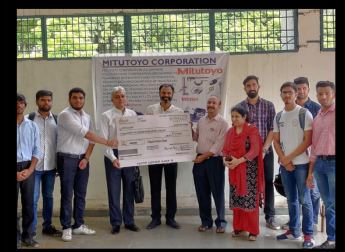
Apratim Shrivastava won the Best Adjudicator Prize at the Mukarjee Memorial ProAm Parliamentary Debate held at St. Stephen's College. He also secured the Runners-Up position at the 4<sup>th</sup> IIT Bombay British Parliamentary Debate and was awarded 3<sup>rd</sup> Best Speaker in the Inaugural Debate Tournament at Gargi College.

### Vibe sweeps awards

Vibe bagged the 1<sup>st</sup> position in the Street Dance Competition held at AIIMS Delhi. They also secured the 2<sup>nd</sup> position in the Street Dance Crew on Crew Competition held at IIT Kanpur. At IIT Delhi, Chirag Gupta secured the 1<sup>st</sup> position in the categories Popping and Rep Your Style. Vibe has been selected to participate in the Hip-Hop League 2019, a national-level hip-hop competition.

## In other news...

- ASME DTU Chapter organised an industrial trip to *Pragati Power Corporation Limited, Bawana* for its members.
- ASSETS, the Finance and Economics Society of DTU, organised a **Career Counseling Seminar** on GMAT/CAT/GRE hosted by Mr. Sharat Mayank, an alumnus of IIM Lucknow.
- In September 2019, DTU's all-women community C.L.I.M.B organised its first meetup in the meetup series **She Speaks Up**.
- DTU Altair secured the 1<sup>st</sup> position in the **Line Following Robot (LFR)** event held at IGDТУW in October 2019.
- Enactus DTU participated in **World Water Race 2019** organised by Enactus. Their initiative **Project Unnayan** was selected in the competition as one of the top 12 projects worldwide.
- In September 2019, Kshitij Bansal, Lead, Google Developer Student Clubs DTU, presented a talk at the **Google Developers Group Delhi DevFest** held at The Westin Gurgaon.
- The Managing Director of Mitutoyo South Asia Pvt. Ltd. visited Hertz Electric's workshop and met with the faculty advisors of the team.
- The Indian Game Theory Society - DTU conducted **Stratazenith at EcoVantage: The Economics Fest** at Jesus and Mary College in October 2019.



## E-Cell DTU organises Startup Weekend

**Startup Weekend**, an annual event organised by **E-Cell DTU**, was held from 6-8 September 2019. The participants lobbied to form teams, and these teams were given an incubation opportunity to refine their startup ideas and solve real-world problems. **Charu Khanna**, Director, American Express, **Kanav Arora**, Vice President, UrbanClap, **K. K. Verma**, Member, Harvard Business Review and **Saurabh Shukla**, Partner, Republic TV, were among the 15 mentors who were invited by E-Cell DTU to guide the participants during the preparation of their business models.

The teams discussed the crucial aspects of their ideas, such as cost, demand, ingenuity and viability with their mentors, then pitched their ideas to a panel of investors for a chance to receive funding. The panel of judges included **Amit Gupta**, Vice President, MasterCard, **Gaurav Malhotra**, Founder, Ann Patra, **Neeraj Singh**, Director, KPMG, **Rajiv Sikka**, CEO, IndianOil - Adani Gas Pvt. Ltd., and **Sunil Solanki**, Sr. Director, Head, SAP Cloud Platform.

**E-Cell DTU** in collaboration with *Floating GMAT* organised an **MBA Talk Session**. It was conducted by **Tarun Dokania**, Founder, *Floating GMAT*.



## UAS DTU flies high

**UAS-DTU** participated in the **Mehar Baba Prize Competition** organised by the *Indian Air Force* with an aim to develop a system of collaborative UAVs equipped with swarm intelligence. The team received a development funding of ₹25 lakhs for a demonstration of the swarm of 10 UAVs in the second phase. Amongst a pool of over 200 startups and companies, they stood among the top 5 competing contenders. Currently, the team is participating in the **3<sup>rd</sup> Phase** of the competition, competing for ₹100 crores of production order by the *Indian Air Force*.

Consequently, the team also signed an MoU with *Adani Defense and Aerospace* to execute research work for jointly identified prospective domains of mercantile, licit feasible research and development programs in the emerging fields of unmanned systems, which include indigenous development of scalable technologies and will be demonstrated using drone platforms for commercial purposes.

The team has been invited to the **Asia Oceania Systems Engineering Conference 2019** in Bangalore to present on the topic '**Engineering Robust Aerial Swarms**'.





# Student News

## RESEARCH PAPERS PUBLISHED AND CONFERENCES ATTENDED

**Pallavi Singh Gautam, Ph.D., HU**

- 'English for Empowerment', 14<sup>th</sup> International Conference of English Language Teachers' Association of India, Noida

**Aayushi Pandey, J.R.F., Multidisciplinary Centre for Geoinformatics**

**Gopinadh Rongali, J.R.F., Multidisciplinary Centre for Geoinformatics**

- 4<sup>th</sup> Himalayan Researchers Consortium (HRC) 2019, Dehradun

**Mamta Ghunasham, M.Tech., ENE, 2<sup>nd</sup> Year**

- 'Assessment of Water Quality and Suitability of Sukhna Lake for Irrigation, Chandigarh, India', International Conference on Stewardship towards Sustainability, Shree Guru Gobind Singh Tricentenary University, Gurugram
- 'Evaluation of Air Pollution Tolerance Index of trees in the mining area of Mahendragarh, Haryana', National Conference on Recent Trends in the Field of Environmental Science & Engineering, Haryana

**Mohd. Shakeeb Khan, M.B.A., 1<sup>st</sup> Year**

- 'Automatic cooking machine using microcontroller and servo motor', All India Seminar on Reverse Manufacturing, Imagineering Laboratory, IIT Kanpur

**Ashima Suvarna, B.Tech., COE, 4<sup>th</sup> Year**

- 'Handling Gender Biases in E-Commerce Product Specifications', IEEE Grace Hopper Celebration India 2019

**Rajul Kumar, B.Tech., EE, 3<sup>rd</sup> Year**

- 'Trajectory Tracking Control of TRMS using FOPID and FOPD Controllers: An Experiment', 3<sup>rd</sup> IEEE International Conference on Recent Developments in Control, Automation, and Power Engineering, Noida

**Bamba Yabaha Solo Marius, B.Tech., COE, 2<sup>nd</sup> Year**

- World Youth Conference on Kindness, Delhi

**Dhruv Chandel, B.Tech., IT, 2<sup>nd</sup> Year**

**Kartik Bansal, B.Tech., IT, 2<sup>nd</sup> Year**

**Kunal Taneja, B.Tech., IT, 2<sup>nd</sup> Year**

- 'Multimodal KDK Classifier for Automatic Classification of Movie Trailers', International Journal of Recent Technology and Engineering

**Pranav Prakash J, B.Tech., EP, 2<sup>nd</sup> Year**

**Ritik Tiwari, B.Tech., EP, 2<sup>nd</sup> Year**

- International Astronomical Search Campaign

## AWARDS & COMPETITIONS WON

**Ashutosh Mishra, Ph.D., ME**

**Rashin Khera, Ph.D., ME**

- Runners-up, Inter ASHRAE India Chapter Student Chapter's Quiz, Delhi

**Isha Gupta, M.B.A., 2<sup>nd</sup> Year**

**Sarthak Jasra, M.B.A., 2<sup>nd</sup> Year**

**Swati Ghansela, M.B.A., 2<sup>nd</sup> Year**

- Best Project for Future Opportunities, HDFC Industry Academia Live Research Project

**Ronak Sakhuja, B.Tech., COE, 4<sup>th</sup> Year**

**Sarthak Katyal, B.Tech., COE, 4<sup>th</sup> Year**

- Winner, Microsoft AI Challenge-Hack the North 2019, University of Waterloo, Canada

**Simra Shahid, B.Tech., IT, 4<sup>th</sup> Year**

- Second Runner-up, Singapore-India Hackathon 2019, Indian Institute of Technology, Madras

**Tanmay Singh, B.Tech., IT, 4<sup>th</sup> Year**

- Top Ten, Singapore-India Hackathon 2019, Indian Institute of Technology, Madras

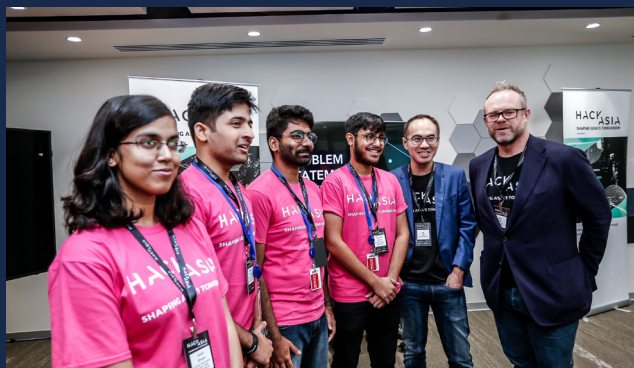
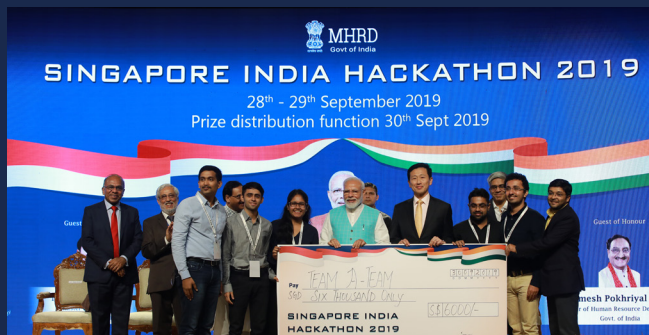
**Aditya Sharma, B.Tech., COE, 3<sup>rd</sup> Year**

**Aheli Ghosh, B.Tech., COE, 3<sup>rd</sup> Year**

**Pratik Anand, B.Tech., COE, 3<sup>rd</sup> Year**

**Priyansh Verma, B.Tech., COE, 3<sup>rd</sup> Year**

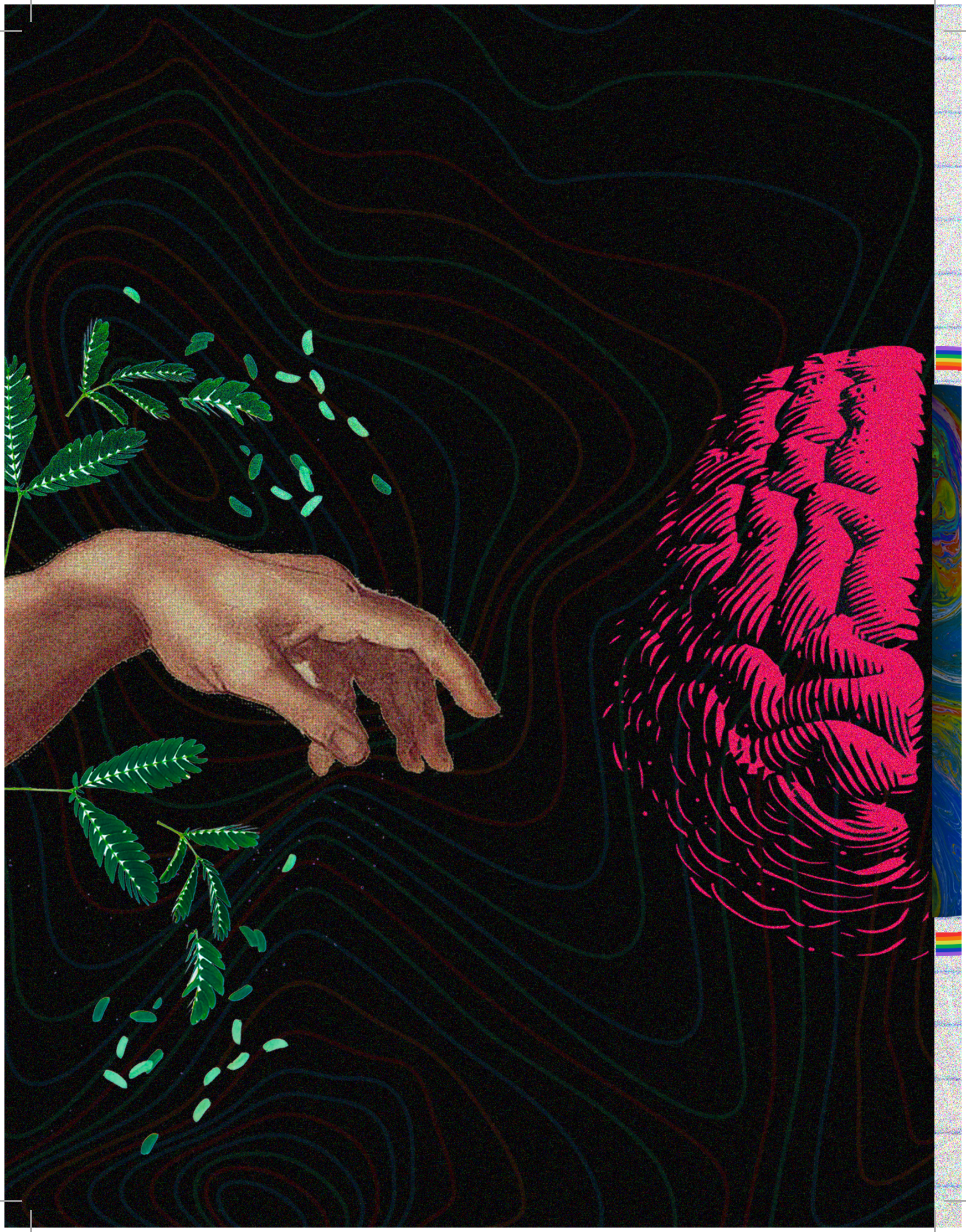
- Top Six, HackAsia Hackathon 2019, Amazon Web Services Office, Singapore



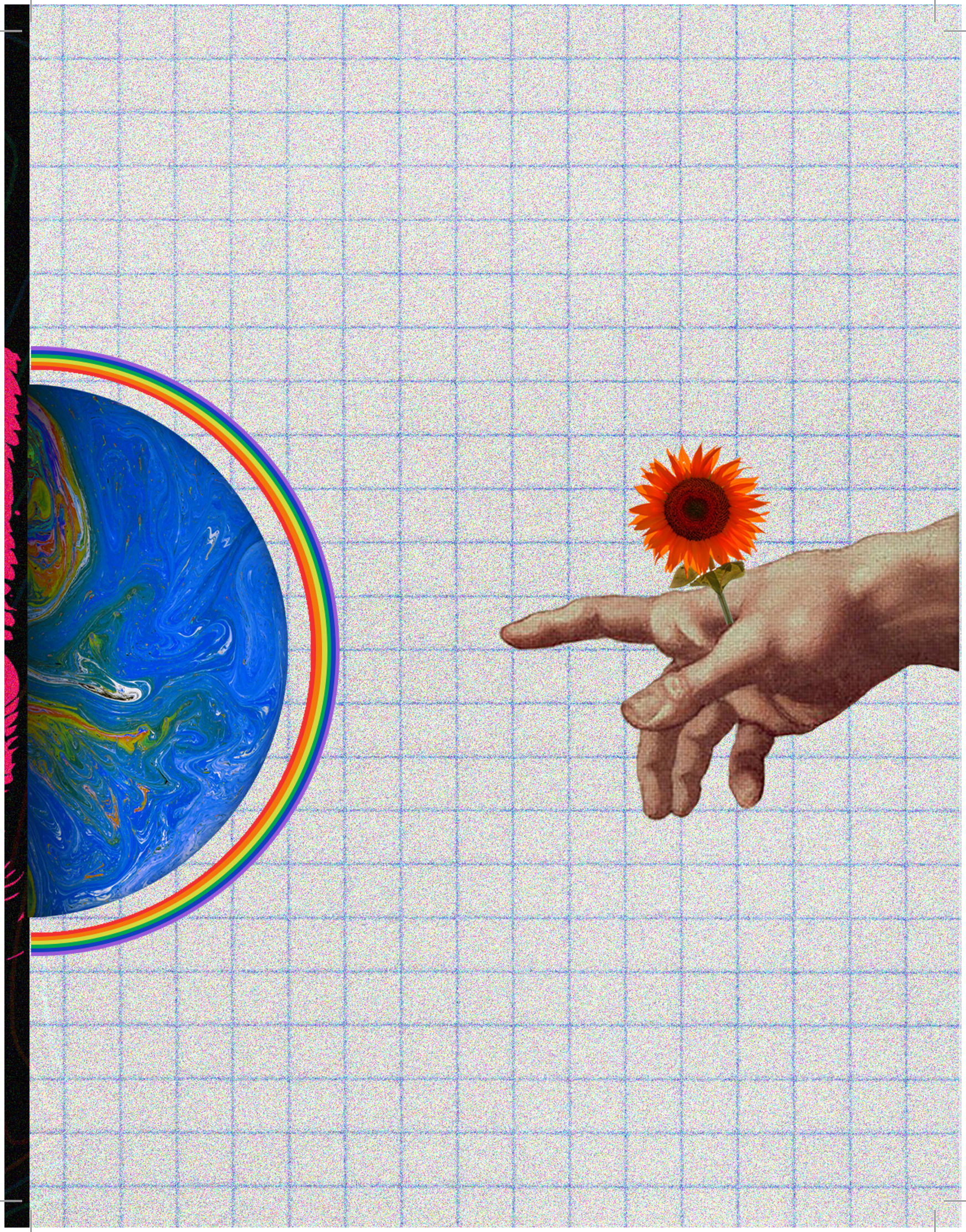
**Himanshu, B.Tech., IT, 3<sup>rd</sup> Year**

- Winner, Boeing University Innovation Leadership Development Program 2019 National Finals, Bangalore



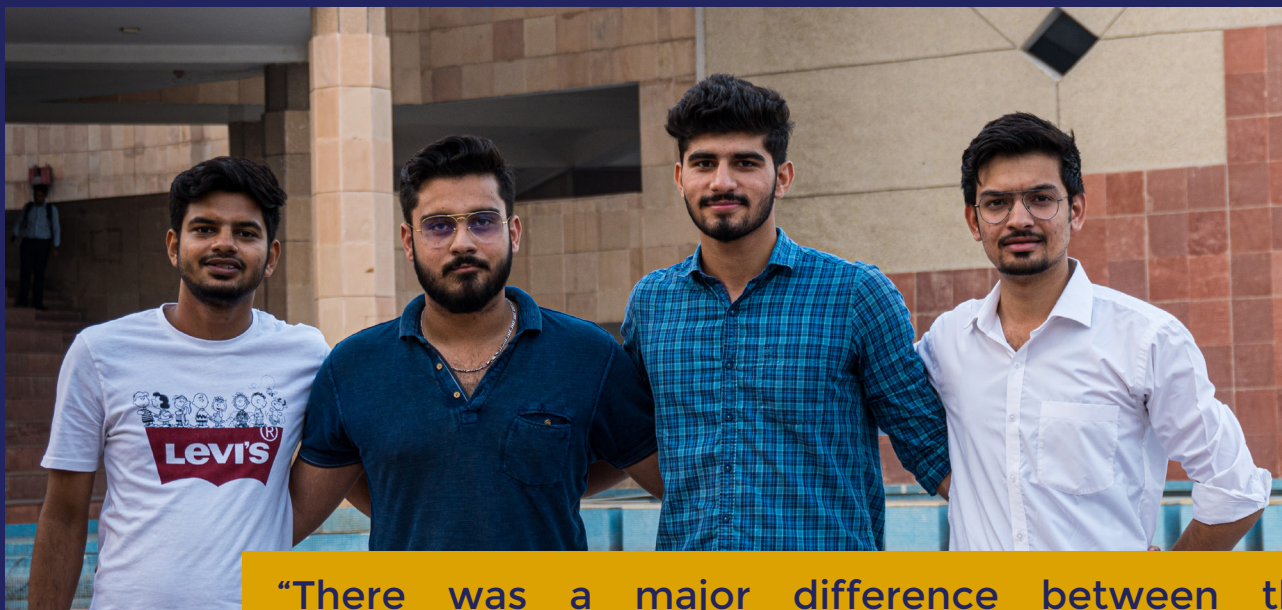








# INTERVIEWS



**"There was a major difference between the expectations of the students versus the actual reality."**

*DTU Times interviewed the newly elected members of the Student Association, DTU - Pulkit Pal (President), Dharmesh Singh Rana (Vice President), Maheep Bhardwaj (General Secretary) and Shavik Balyan (Joint Secretary).*

**How do you plan to increase the participation of students from disciplines other than B.Tech. in the events held in the university?**

The business and management acumen of the students from USME would prove beneficial for the corporate teams of various events. This would, in turn, allow them to communicate with the students from other streams and enhance their skills.

The involvement and participation of M.Tech. and Ph.D. students in the various technical societies would bring a lot of expertise in their functioning, because of their knowledge and expertise in the Research & Development field. We need to exploit the technical and management potential of the students and bring everyone together to support each other.

**What events have been planned to increase the participation of day scholars?**

This year we plan to conduct Arena, the inter-branch sports tournament, in a more efficient manner. It will include cash prizes and trophies to increase the enthusiasm of the participants. Moreover, we will definitely ensure better participation of the day scholars in all the events and fests. Along with this, we would like every student to benefit from the various facilities provided by the university such as the indoor sports hall, reading room, etc. by regularly informing them about the same.

**What steps is the SA willing to take to increase the participation of female students in the events held in the university?**

Following along the lines of major universities worldwide, we are planning to create a Women Development Cell - a division of DTU-SA which will make sure that every girl is given an equal chance to participate in the events of the university.

**When did you think that you were capable of handling a position of such great power and responsibility in the university?**

(Pulkit:) Being at the apex of various student bodies in my third year, I felt that there was a huge difference between the expectations of the students and the reality. Consequently, I came to the decision that I would be a suitable candidate for DTU-SA and strive to bring about change in our university, and decided to contest the elections.

**How do you plan to bridge the communication gap between the students and the SA?**

It is really important to have effective communication between our team and the students of DTU. To accomplish this task, we have decided to come up with an online platform through which everyone would be able to send in their queries and report their problems. Our team will try to solve each one of them. We are also beginning to appoint SA Volunteers from all branches and years to represent us at every level.

*Read the complete interview on [dtutimes.dtu.ac.in/blog](http://dtutimes.dtu.ac.in/blog).*



**What all thought that go into organising an event and how do you measure its success?**

Every event demands a concerted team effort to handle all its intricacies. It usually begins with devising an action plan, followed by designating a time frame to the plan and drafting a budget after taking into account unforeseeable situations. Publicising the event amongst the target audience also plays a crucial role. Along with the attendees' and sponsors' satisfaction as a way to measure the success of the event, we believe that personal feedback is another way that accounts for the improvements for the next event.

**What is the team's vision for the current academic session so as to boost the cultural spirit in the campus?**

Our aim is to organise more cultural events than previous

**"We are exceedingly focussed towards Engifest 2020, as we yearn to put together the best fest that DTU has ever seen."**

*DTU Times interviewed the newly-appointed DTU Cultural Council - Sanchit Gupta (Cultural Secretary), Harsh Rajput (Treasurer), Nalin Nehra, Ankur Srivastava, Bhavya Akhouri (Joint Cultural Secretaries) and Kunal Sehrawat (Joint Treasurer).*

years in order to keep the enthusiasm and zeal alive amongst the students throughout the year. The Freshers' week and Dandiya Night went quite smoothly. We are exceedingly focussed towards Engifest 2020 as we yearn to put together the best fest that DTU has ever seen, and we are also committed towards organising various kinds of informal events preceding Engifest.

**How do you intend to encourage students' participation in cultural activities?**

Soft skills can either make or break careers. If you can communicate effectively, you can work miracles. You are often required to analyse and solve different problems and prove to be a valuable asset to the company. Extracurricular activities equip an individual for various hurdles that they might face in the workplace, and college life provides a plethora of extracurriculars to choose from.

**"The overwhelming response of the students is our biggest motivation."**

*DTU Times interviewed the newly-appointed Cultural Council, USME - Nikhil Gaur (Cultural Secretary PG), Divyansh Kamal (Cultural Secretary UG), Kartik Mittal (Joint Cultural Secretary), Kalash Aggarwal (Treasurer) and Lakshay Aggarwal (Cultural Advisor).*

**How do you make use of your managerial know-how to gauge your event's qualitative and quantitative magnitude?**

Managerial skills aren't taught, but are acquired through pragmatic groundwork combined with an application of theoretical knowledge. It is our attempt to apply the knowledge of our subjects to all initiatives. We strive to give our best and the overwhelming response of the students after a successful event is our biggest motivation.

**How is the council able to overcome the various hurdles faced while organising events?**

Barriers and blockades are inevitable. We try to work our way around them and achieve our set targets. Paucity of funds is one of the most prominent barriers we face,



but with the help of corporate contacts and a dedicated Fund Raising Cell, we manage to bag sponsorships and successfully scale up our events.

**What should be expected of the cultural council this year with respect to the annual fest Traction?**

The Cultural Council is set to organise the fest at an even bigger scale this year. We have started working on fixing the shortcomings from previous years and are looking forward to more sponsorships this time. We have even started working on invitations to the star performers. The Cultural Committee is determined to take the annual fest to new heights.

*Read the complete interview on [dtutimes.dtu.ac.in/blog](http://dtutimes.dtu.ac.in/blog).*





DTU Times interviewed the office bearers of National Service Scheme (NSS) DTU on the occasion of 50 years of establishment of NSS.

**Mental health is an important issue and measures to remove the stigma associated with it are being discussed widely. How has NSS DTU incorporated mental health into their agenda?**

NSS DTU has organised workshops in the university to generate awareness about mental illness. We have invited acclaimed psychiatrists to take these sessions. They were designed to educate students on how they should try to resolve issues related to anxiety, depression, trauma, etc., wherein both the cases of the victim and the comforter were taken care of. NSS also organised Adolescent Awareness camps in schools. Through these camps, volunteers try and listen to the problems of teenagers hitting puberty and inform them of the various biological and hormonal changes during this period.

**"NSS DTU has grown in the number of volunteers as well as in its domain of work."**

**NSS is celebrating 50 years of its establishment this year. How would you describe the evolution of NSS throughout these years?**

NSS has come really far from the point of its inception in 1969, both in terms of the number of volunteers and its domain of work. It is the largest student-volunteer organisation on our campus with over 300 volunteers. The society has a variety of projects and events belonging to almost every possible domain. Apart from the addition of new projects such as Voter ID camps, Recycle Today, voice of animals, etc., our existing projects have also developed over the years. Another important aspect of our growth has been the rising influence of social media and our online campaigns. This evolution of the society has resulted in not just greater volunteering opportunities, but has had a positive impact on the society as well.

**What is the source of inspiration for all your work?**

I believe that all of us are inspired, but we have worn a 'lens' which makes us feel small and complain. Our natural state is of inspiration without this 'lens'. Our sub-consciousness makes us worry about the past or the future and forces us to compare ourselves with others. Comparison and complaining don't go hand-in-hand with inspiration. A judgemental person cannot find inspiration because he cannot see his own potential. Believing in self is the natural state of every animal on this planet, and humans are no different. I believe we are living a second-hand life by comparing ourselves with others, a trend which is commonly witnessed in the younger generation. We are becoming less authentic about our lives, because whatever we post on social media is very different from what is actually happening. Hence, we selectively create a story which is filtered and less authentic. I believe that being authentic to everybody around you is the best way to feel inspired.

**"The fundamental aptitude of all human beings is curiosity."**



DTU Times interviewed Prof. V.M. Chariar, IITD who was in DTU as a guest lecturer in the lecture series organised by the Department of Design.

**Do you believe that research is a prerequisite for being an inventor?**

Exploration is the key. The fundamental aptitude of all human beings is curiosity. Thus, anything which encourages us to be more curious will eventually turn us into inventors. It is very natural to be curious. If you look at children, they ask a lot of questions and have no apprehensions or preconceived notions about doing various things. Invention could be with respect to anything. It need not always be a ground-breaking breakthrough, but rather a small thing which can be done on an everyday basis to make things better and more beautiful in our lives. Invention is not necessarily about sitting under an apple tree and then waiting for something to happen, it is about taking certain actions.



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DTU Times interviewed Phil McKoy, CIO, UnitedHealthcare who was in DTU for a Leadership Session organised by Training & Placement Department, DTU in association with Optum Engage.

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### **What motivated you to venture into technology after getting degrees in Political Science and International Affairs?**

I had no intention of pursuing a career in technology. I wanted to work internationally. I grew up in Jamaica and had a passion for the world and its different cultures. I specialised in International Economics during my Masters', which was consistent with what I wanted to do in life. In order to work internationally, I could have joined one of the big firms, but that meant waiting till I was middle-management in order to get the opportunities that I was looking for. I am considerably impatient, so I went into consulting, because that is one of the fields that takes you wherever the work is. I joined a consulting firm and there I was first exposed to technology. I started coding in C++, writing financial reports through code, and it became my window to both technology and working internationally.

### **What key differences have you felt between Indian engineers and those in other parts of the world?**

There is a term that I have been introduced to during my time in India - 'Jugaad'. There is a notion of innovation that comes out of necessity in every Indian. The ability to find creative solutions from limited resources is a unique trait of Indian engineers. A sense of figuring it out and the ability to 'jugaad' a solution is what sets an Indian engineer apart.

### **There exists a significant gap between academic coursework and industry demands. How can students, in their personal capacity, bridge this gap?**

I think one of the reasons for this gap is limited real-world exposure to students. As you go through university, you undergo

structured learning and have a definitive process where you come out very deep technically. On the other hand, students need to grab opportunities to get acquainted with real-world problems. In order to be a good working professional, you need to be aware of the changes happening around you. This is something you have to seek out, understand, read, and participate in. Experiencing the situations personally, seeing what works and what doesn't, and then working upon improving the technology while combating the inefficiencies in the sector is crucial for growth.

**"Students need to grab opportunities to get acquainted with real-world problems."**

### **One of the major plagues of the healthcare industry is the cost of the services. How does UHG plan to make healthcare services affordable in developing Asian countries?**

One of the ways to control cost is by intervening long before diseases become acute. At UHG, we regularly employ AI and Machine Learning to understand any underlying patterns which would allow us to look for treatments ahead of time. For people with chronic conditions, one can look into the longitudinal data, gather a sense of what is happening beforehand and then come up with treatment policies that would allow us to counter chronic diseases. Lately, technology has a role to play in daily management of health conditions, whether it is medication, alternative treatments or keeping track of the symptoms. Thus, by syncing technology, healthcare becomes more affordable and advanced.

*Read the complete interview on [dtutimes.dtu.ac.in/blog](https://dtutimes.dtu.ac.in/blog).*



# UNSUNG HEROES OF DTU

DTU continues to stand strong as one of the most reputed engineering universities of the nation. This is not only because of the intelligence and vigilance of our alumni and faculty, but is also a result of the combined efforts of all the unsung heroes who have contributed in their own ways.

Such are the 'masked heroes' who hide in plain sight on our campus and only become visible in dire times of need. DTU Times interviewed some of these great personalities and dove into their lives.



Chandan Bhaiyya

The one-man army behind the iconic MicMac, a modern-day university legend, goes by the name *Chandan bhaiyya*. His quips and unique services cannot be availed anywhere else, and his skill in efficiently handling his perky staff along with the continuous barrage of orders directed at him seems effortless. Curious to know more about the man himself, we found ourselves pestering him with our questions in his territory behind the counter at the night canteen.

*I was around 18 years old when I came to this city from my hometown in Bihar. I worked at a hotel in Pitampura before coming to the university and have been here for about 9 years now. This job at the university has been my favourite so far. Watching the kids chatting away or sometimes celebrating birthdays is always a treat. Whenever presented with a chance, I like to listen to some Bollywood classics by Mohd. Rafi Sahab, Alka Yagnik ji and Sonu Nigam.*

When asked about his personal life and the people in his family, he shyly smiled and informed us that he was still a bachelor, yet to start his own family.

*My parents live in Bihar and I still have a few years before settling down and marrying. I do enjoy the rare visits to my hometown by taking a stroll with my childhood friends, playing cricket and just goofing around.*

A strong believer in the talents of our national cricket team, he is a Rohit Sharma fan and is always overjoyed with his exceptional performances.

We also spoke with Mrs. Usha Kiran, who was on duty as a guard at the girls' Type-2 Hostel. Diligently carrying out her responsibilities for the past 2.5 years, she mentions that no one has ever entered the hostel during her shift without seeking permission. When asked about her family and what she enjoys the most at our college, she was happy to enlighten us with her stories.

*I was posted at Delhi Home Guard before joining DTU, and I enjoyed my job there since it required me to travel often. We used to assist Delhi Police and had the same duties as those of policewomen. I was often tasked with escorting dangerous criminals to and from hospitals. I do admire the serene atmosphere here and the obedience displayed by the students.*



Mrs. Usha Kiran

*My husband works for a private firm and I have two sons at home, but I have always wanted girls and now God has blessed me with so many daughters here at DTU.*

She enjoys the cultural events held at the university and has only appreciation for the students.



Anil Bhaiyya

For 13 years, Anil Bhaiyya has been serving in the DTU Mess and has been maintaining mess records meticulously. This time around, we took the opportunity of getting to know him better.

*I came to Delhi right after finishing the 9th grade. My entire family resides in West Bengal and I get to visit them only once in about four months, in either June or December.*

He takes pride in his innate ability to remember the names, room numbers and hostel names of every hostel student.

*I am used to seeing new faces every day for about 13 years now. Every new face becomes a new member of my ever-growing family at DTU. I can even remember the names of students who graduated three to four years back. I like working here, especially meeting and talking to the students on an everyday basis. They make me feel at home.*

When asked about how the culture of the university has changed from DCE to DTU, he mentioned that the students were way more serious back then, although he appreciates that now a student whether in his first or fourth year is treated equally.

He mentions that the students like talking to him and even a small gesture such as wishing him Happy Diwali Anil Bhaiyya makes his day a thousand times better.

Our quest took its final turn through the fruit stall of Mr. Raghunath, the superman in shadows, who has been affiliated with our university since 1996. In our little chit-chat, he shared with us the bittersweet tale that is his life.

*When I was young and there was strength in my bones, I used to work in a factory since I had a family of five to look after. My family consists of my 3 children: 2 girls and a boy. Both my girls are happily married and settled, whereas my youngest son, who is 21 years old, is pursuing a Bachelor's in Commerce. I feel relaxed in the serene working environment that DTU provides me with.*

*I get the chance to witness the several cultural programmes that take place throughout the year, and share most of my day with troops of monkeys that roam the college roads.*

He feels obliged in being able to contribute to the lives of students in a healthy way and admires the respect that he receives in return.



Mr. Raghunath

# KNOW YOUR ALUMNI



## Prashant Sarin

- Class of 1999, B.Tech., Civil Engineering
  - Partner at Bain & Company, based in Silicon Valley
  - Recognised as Young Global Leader by the World Economic Forum in 2015
  - Was granted an M. Litt., Management Studies degree by the University of Oxford, England in 2003
  - First Indian to have received the Rhodes Scholarship
  - Studied Global Leadership and Public Policy for the 21st Century Program in the John F. Kennedy School of Government at Harvard University in 2018
- 



## Dr. Rajiv Ratn Shah

- Class of 2012, M.Tech., Computer Technologies and Applications
  - Completed his Ph.D. in Computer Science from the National University of Singapore in 2016
  - Granted with CAT-A scholarship in 2011 by Erasmus Mundus, European Commission in Sweden and Germany
  - Founder and Director, MIDAS Labs at IIIT Delhi
  - Awarded the ERCIM Alain Bensoussan Fellowship 2016 to pursue postdoctoral research at NTNU, Norway
  - Recipient of NII Internship Scholarship granted to carry out research in Tokyo, Japan in 2015
- 



## Sat Goel

- Class of 1954, B.Tech., Electrical Engineering
- Graduated from IIM Ahmedabad in 1971
- Graduated from Harvard Business School in 1974
- Has acted as a Consultant to the World Bank
- Has provided independent consulting to various organisations around the world in the areas of sector studies and structural adjustment studies
- Has worked in several countries including South Korea, Indonesia, Yugoslavia and Mexico, among others





# ALUMNI NEWS



## Reunion of the Class of 1974 at DTU campus

The class of 1974 held their reunion in July 2019. The alumni, which included eminent industrialists, businessmen and ex-servicemen, were given a warm welcome by **Prof. Yogesh Singh, Hon'ble Vice Chancellor**. They also paid a visit to the old DCE campus at Kashmere Gate to take a walk down memory lane. Having recollected the memories of their college days, the alumni expressed their gratitude towards the teachers. They also thanked the administration for making the reunion possible.

## A reminiscent visit by Mr. Ganesh Krishnan

**Mr. Ganesh Krishnan**, an alumnus of DCE Class of 1982, visited the campus in August 2019. He was greeted by **Prof. Yogesh Singh, Hon'ble Vice Chancellor**, **Mr. Anoop Lather, Public Relations Officer** and **Prof. Rajesh Rohilla, HoD, Training and Placement Department**. A serial entrepreneur and a reputed promoter, Krishnan has successfully incubated several esteemed startups including *Bigbasket*, *Hungerbox*, *Homelane*, and *Freshmenu*.





# Homecoming '19

Delhi School of Management held its annual alumni meet Homecoming '19 in August 2019. It was a nostalgic day for the alumni members as they gathered at their alma mater and reminisced about their days at DSM. The welcome speech was followed by the HoD's address, who was extremely proud of the achievements of the alumni. The cultural events and fun activities helped the attendees bond with the current students and served a healthy dose of laughter and merriment.

The participants were awarded creative titles such as '*Million Dollar Smile*', '*Ms. Well Dressed*' and '*Mr. Amiable*'. The event concluded with the attendees urging the students to continuously strive forward and to enjoy college life to the fullest.



## Down the Memory Lane

Renowned Bollywood actor and a DTU alumnus **Sushant Singh Rajput** took a trip down the memory lane as he visited the campus in September 2019. The actor was overwhelmed with the warmth of the crowd and reminisced about his old days in Delhi College of Engineering by visiting the campus hotspots such as MechC and the OAT. He was later spotted interacting with the students at the Night Canteen.

Rajput, who joined DCE in 2003 to study Mechanical Engineering, was elated on meeting the students. He described his visit as a long overdue trip on his bucket list that he was looking forward to ticking off.





# मिजाज़ २.०

लोकेश नारायण शंकर, तृतीय वर्ष, आई.टी.

कॉलेज का पहला साल  
अपनों से बिछड़ कर  
दूर आ जाने के गम में  
उदास होकर होस्टल की बालकनी से  
चाँद को ताकते रहता  
जिस रोज चाँद दूसरे हिस्से में चला जाता  
उस दिन पीछा करते-करते  
कॉलेज की सैर पर निकल जाया करता  
पर साल भी बदला और शायद हालात भी बदले  
उदासी थोड़ी कम हुई क्योंकि मेरा चाँद भी बदला  
पहले आसमान में टूँडता  
अब जमीं पर टूँडता फिरता  
ऐसे ही टूँडते फिरते  
ये साल भी गुजरा  
न आसमान वाले का दीदार हुआ  
न ज़मीन वाले से बात हुई  
आज साल तीसरा चल पड़ा  
फिर होस्टल की बालकनी से चाँद दिखा  
शिकायत थी हम दोनों की  
'पूरे साल ना तुम दिखे ना मैं दिखा, क्या वजह रही होगी?'  
ये सवाल तो मेरा पहला था  
पर जवाब लगा आखिरी हो-  
'तुम चाँद जिसको मान लिए  
वो चाँद की बात अब करती है  
तुम उसका पीछा थोड़ा कम करो  
वो तुम्हारी शिकायत मुझ से ही करती है  
रुको ठहरो और इंतज़ार करो  
मेरी तरह वो भी आएगी कल को'  
अब सवाल नहीं रह गया कोई...  
मगर ऐसा लग रहा  
अगर वो खुद को चाँद कहती है  
तो शायद अमावस की रात है मेरी ज़िंदगी!

*Sourajit*



# GRIEF AND WEATHER CHANGE ALIKE

**Denial**, a dangerous paradigm to be in. Infamously bounded by climate skeptics, supported by their industrial, political and ideological interests and backed up by conservative media.

For ignoring the elephant in the room is not an option while it lets out a battle cry and charges right at us.

Scratching the surface to analyse why some of us think so, two plausible explanations emerge out: an unreal issue must not tamper with our comfort zone and the other being a part that chooses to accept climate change and its detrimental impact on the environment, rather than opting for practices that would serve as a setback to our respective financial ambitions.

Denial of a crime is always followed by the **anger** of the victim. The reason the baby boomer generation does not pay heed to the peril of climate change is that most of the projected statistics show the adversities of climate change as an event that would occur after their death. Their selfishness deserves our anger. We laugh at the irony of our situation, we march towards the light of glory at the end of the tunnel, which only turns out to be a reflection from the final nail in the coffin of our lineage.

And alas, their acts of aggravation are kept up with enthusiastic ignorance which leads to **negotiation**. As we make our points to the ones who promise to listen, we start rolling the wheels of difference. We start to make small changes and broadcast them for infidels to learn, indeed, an anomaly as inevitable

as its prevention. Big corporations, millionaires, industrialists are holding our planet captive to suck every last penny from its udders.

Sadly, our pleas and proposals to the big corporations fall to a deaf ear. Companies refuse to save our planet at the expense of a micron of the economy. Eco-anxiety has been on an uprise at an alarming rate. The American Psychological Association dolled out reports regarding grief, despair and stress that climate change mitigators and activists have been going through. They seem to have lost hope and gone into **depression** regarding climate change. However, our silence is not a deterrent against climate change

- our voice is. Change, much like evolution, is a gradual and painstaking process.

After much conflict, **acceptance** of a utopian dream but a reality, we all eventually reach and cross. While some act to undo travesties, some are aware of its absence.

This paradigm consists majority of us.

It is because evidently climate change would hit the youth most stridently. Whether it is something as small as boycotting straws in college canteens or going vegan on Tuesdays, the inference is that it all counts.

When small things irk us and the bigger ones enrage us, a green flag is visible over the horizon.

The sooner we realise the importance of 'Fridays for future', the less likely we are to stand in queues for 'Fridays for drinking water'.



*Akanksha Tanwar, 2nd year, IT  
Ishaan Gupta, 2nd year, ME*



# ENVIRONMENTAL TIMES

The year 2016. The world knows nothing of the likes of Angela Merkel, Donald Trump or Narendra Modi. Instead, they know of a world government, with factions in each country whose sole job is to collect and pass on information to the government.

*But that's not all. You eavesdrop on a makeshift parliamentary session being held at a chai stall, where all "scholars" on their lunch break convene and find out that there is a newly established body, the World Environment Programme (WEP). It is unparalleled in its power, second to no one, and has the License to do what it must to save the environment. And it has taken its first major step.*

The WEP came down like a sledgehammer on all industries manufacturing chemical fertilisers, decommissioning them in its first month. No fines, no plans, no warnings. A new bill was passed, which ordered these industries to manufacture natural compost and redirect their research and development sector to study ways of improving compost.

*You now have an inkling as to why this world is the way it is, in 2019, but the WEP is just getting started.*

By 2017, the WEP put out a scathing and brutal article condemning the automobile sector for being hypocrites. This sector created revolutionary

technologies to be incorporated in electric vehicles while being inventors of fuel-guzzling SUVs. The WEP realised that this hypocrisy was doing more harm than good to the environment. They directed the automobile sector to gradually reduce the number of automobiles being manufactured, simultaneously ordering them to collaborate on public transport, effectively eliminating the need for private transport.

It's in 2018 when the air is cleaner and purer. The gale from the blue oceans enriches the landscape in a soothing symphony of green. The path of Jon Doe is no longer neatly arranged, carefully placed and immensely limited by artificial brick pavements and bipolar roads.

*And that's when you realise you're walking on the Road, not on the pavement, not dodging cars, but walking. You hear the two neighbourhood-gossip aunties talking, or rather yelling, and you realise that some things never change. Before the gossip about the new neighbour can catch your attention, something else has. You raise your head and see numerous trains zipping past at unimaginable speeds. While you remain transfixed by the solar panel covered train, you recognise the Honda logo on one of the trains and the BMW logo on another.*

Angad Sethi, 2nd year, COE

## भारत में तालों की दुःस्थिति

एक अनुमान के मुताबिक आज़ादी के वक्त देश में 24 लाख तालाब वाले देश में वर्तमान समय में दस प्रतिशत से भी कम ताल बचे हैं। लघु सिंचाई जनगणना की रिपोर्ट को देखें तो पता चलता है कि देश में अब 2 लाख 41 हजार 715 तालाब सरकारी तौर पर दर्ज हैं। ये आंकड़े निश्चित तौर पर हमारे 'प्रकृति प्रेम' को उजागर करते हैं, झीलों के लिए प्रसिद्ध नगरी भोपाल का ही उदाहरण ले लीजिए, हमारे प्रकृति प्रेम ने कभी एशिया के सबसे बड़े मानव निर्मित तालों में से एक रहे भोपाल के भोजताल को कई 'नये आयाम' दिये हैं।

कभी राजा भोज के काल में जिस ताल को केवल कुछ शल्य चिकित्सीय उपकरणों के लिए बनाया गया था, आज हमारे अति विकसित समाज ने उस ताल को एक नया ही रूप दे दिया है, न केवल कम वर्षा के कारण उस ताल पर से जल के भार को कम करने में हमने सहायता की है, अपितु

उसके जल के दोहन में भी प्रत्यक्ष या परोक्ष रूप से भरपूर योगदान दिया है। कभी बिना प्रदूषण के स्वच्छ जल व एक भरे पूरे जलीय जीवन वाले उस ताल को आज हमने न केवल जलीय जीवन से 'मुक्ति' दिलाई है परंतु उसे विभिन्न प्रकार की गंदगी से 'लाभान्वित' भी किया है। हमारे इन्हीं सब कर्मों के कारण ही यह ताल 38 वर्ग किमी के क्षेत्रफल से सिकुड़कर अब केवल 5 वर्ग किमी तक सीमित रह गयी है।

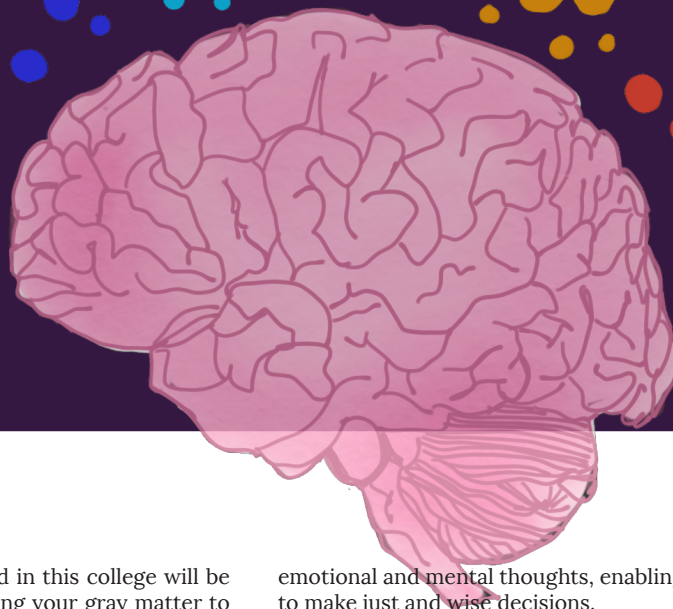
संभवतः भारत में तालों की यह स्थिति सरकारी संस्थाओं व लोगों की इसके प्रति उपेक्षा की ओर इंगित करती है। तालों की इस दयनीय स्थिति को ठीक करने के लिए आज समाज के द्वारा कुछ ठोस कदम उठाये जाने की अति आवश्यकता है। अन्यथा ताल इसी प्रकार काल के गाल में समाते चले जायेंगे।

उमेश सारस्वत, चतुर्थ वर्ष, आई.टी.



Anoushka Raj, 2nd year, ENE  
N. Krithika, 1st year, ENE

# SPECTRUM OF COLLEGE LIFE



The 4 years you spend in this college will be utilised not just in using your gray matter to learn the nitty-gritty of codes and formulae, but will also add a plethora of shades to your personality. Every experience you have here gives rise to new bonds and adds a new colour to your character. Each shade will reflect an emotion which influences all our lives, making them polychromatic.

Life at college is painted in every colour of the rainbow. Once you go through the prism of life at university, you emerge not in your previous shade of unadulterated white. Your time here will tap into your hidden potential and open you into a spectrum of vibrant colours.

**Violet:** Be it getting into a great college, winning competitions, or simply getting good grades, every achievement here will infuse you with shades of violet and victory. Pride and gratification are important to give you confidence, but it shouldn't open a room for vanity or exclusivity; real growth is when you grow with others and strengthen the bonds you form with them.

**Indigo:** Brightness, intuition and perception - all three are assets for any intelligent individual. A dash of indigo aligns your

emotional and mental thoughts, enabling you to make just and wise decisions.

**Blue:** The colour which often symbolises sadness, gloominess, and loneliness. Remember the first day, when you entered the gigantic DTU campus and found yourself lost in the middle of nowhere? You'll often be in blues about everything from class to betrayal, but it is integral to embrace your sadness and grow from it.

**Green** is for freshness! Green reminds you of the bond you have with yourself and how it is the most important of them all. It is also the colour of envy. Whenever you feel the slightest twinge of jealousy, realise that everyone is on different paths and the graph of growth varies for each individual.

**Yellow:** Gaiety, freshness, purity, and unadulterated happiness - one might expect college to be an exhibit of unbridled optimism, thanks to media depictions. Happiness here comes in various forms, but an excess of yellow hurts the eyes. It is important to prioritise and derive happiness from within and not just bank on tangible achievements. A hearty laugh with friends at MechC, the refreshing sip of iced coffee on a sweltering morning, the joy of walking into

your favourite professor's classroom - all of these are intangible bonds and moments that you cherish and remember.

**Orange** is the source of all the energy that is required to survive a bad day. The orange fireball pushes you towards your goals and provides you with the zeal to fuel your passion. The energy in all the fests and functions, from the first time you dressed your best on dandiya night amongst the pulsating crowd to gyrating to *Jatta ka chhora* on Farewell Night - orange gives you reasons to celebrate.

**Red:** Running in vain to the labs in the scorching heat with your body soaked in sweat. This tragic incident must have made your face all *red* with anger! But a chilled frappe at Nescafé with your partner in crime would have melted down your anger and the angry red would have turned into a red of love.

All these hues make a wide spectrum. Every colour is different and in these coming years, incorporating each shade in your canvas of life constructively will surely make it a rainbow which you'll cherish forever.



# ENGINEERS' MASTERY OF ALL KNOWN TRADES!

*Sankhaya Singh Chandel, 2nd year, COE*

In times not so distant, if one was to express his desire to become a stand-up comedian, it would be safe to assume that he would instantly be relegated to an object of ridicule and derision. If one were to have the misfortune of pulling off such an antic upon the successful completion of an engineering degree, chances are high that he would weigh the possibility of becoming a recluse on account of the intense lambasting and condemnation that he would be subjected to. In societal terms, one was to be considered successful only if he pursued a degree in the Sciences or Engineering and procured a highly remunerative job. The only permissible destination where the individual could take his business to thence was a Business School.

Ever since cultural events at engineering colleges have come to be a rage and cultural societies have gained significant traction, a mad scramble has set in to identify potential candidates with a strong artistic mind. There appears to have been a paradigm shift compared to yesteryears, when the centre of attention had not gravitated substantially towards enhancing one's prowess in non-academic avenues.

There has also been a tangible dearth of sportsmen hailing from engineering backgrounds. With the turn of the century, however, inter-collegiate sporting events have not only invigorated the sporting landscape, but have also provided a massive impetus to numerous sportspersons to enroll themselves into said institutions, furnishing them with the added advantage of a decorated degree.

Hence, with the dissipation of the myth that a degree in engineering sets you up for life, there has been an enormous efflux of engineers into other professions, thus allowing one to choose a job that he wants and not the one that is picked for him by the likes of certain well-wishers. With the population ballooning, it becomes almost unavoidable that the chunk of those who take up engineering would also swell. Yet, what remains indisputable is the fact that engineers will continue to venture into uncharted territories, setting whopping benchmarks along the way and further enriching the connotation associated with the label of 'Engineer'.



## THE ANCIENT THROUGH A CONTEMPORARY LENS

*Pratiksha Pradhan, 2nd year, ECE*



Many versions of the Ramayana end with Ram and Sita ruling Ayodhya happily ever after. It's honestly the only version I knew for a very long time. These days, not only does the story move forward, but it also shines light upon other vantage points, particularly Sita's. At the end of the war with Ravan, Sita is asked to prove her chastity. After returning to Ayodhya, questions were raised regarding her purity and she was asked to leave the kingdom by her beloved husband for the sake of his subjects. During the Ashwamedha Yajna, she is asked to do the same again. From Ram's perspective, this seems fair because as a king, it is his foremost duty to respect his subjects. However, from a more feminine and humane perspective, this royal duty causes Sita to prove her purity time and again for people who have nothing to do with it. It is emotions such as these that are highlighted through these new perspectives.

Apart from the feminist perspective, another point to be noted regarding the reincarnation of Indian mythology is the shift in the narration of stories. Previously, most versions of these myths focused on the protagonist of the story and the fulfilment of their mission. There is a clearly defined hero, a villain, and a lesson to be learnt. The narration of these myths remain deeply rooted in our culture, but there is an evident deviation from predetermined dualities to a grey indifference.

Instead of giving out a lesson and inspiring the audience to follow the path of the protagonist, the retelling focuses on downplaying the blissful godly side of mythological characters by humanising them. Their actions may not always be driven by a higher purpose, and the experience of emotions like jealousy and selfishness is profoundly portrayed. Not all protagonists are pure at heart, and not all antagonists entirely evil. This sort of retelling opens avenues for the audience to connect better with the characters and relate their circumstances with contemporary issues.

Over the years, several versions of the same Indian myths have come up, been accepted or neglected, and then disappeared again, but as Amish Tripathi says, "Whatever version one finds the Truth in, that is the true version for you. That is the Indian way."



# Divided by Communities, United by Art

*Artika Sharma, 3rd year, ENE*  
*Gehna Sharma, 3rd year, BAE*

Art is a word that paints a multitude of images across one's head on its mention. The peculiarity of those images lies in its colours, making it a creative mess, a giant ball constituting every human quest ever to decipher emotions, and putting them into expression. Art is subjective while constructing a reality of its own; at other times, it is abstract and has no definite form.

The language of art is thus not a spoken or written language. Art is ethnic and has a language of its own, carrying the weight of human emotions and thoughts of the artist to the Creator and his creations. It reaches effortlessly, instilling in them a familiar yet strange feeling.

Overlooking the contemporary notions that communalise and divide us, tangible or otherwise, there remains one principle that impacts people from all walks of life: the appreciation and mutual understanding of art that invokes causality larger than any other lingual presence. Hence, the industries that are built around art are objectively perceived to harbour some of the most diverse sets of people.

Association with a particular age group, ethnic group, gender, or sexual orientation is not imperative to engage in art, for it embraces people from all backgrounds, disregarding everything but their emotional identities. One sees many more cross-border fandoms and collaborations happening for dance, films, music or theatre productions as compared to any other industry. Who else to look up to but the King of Pop, Michael Jackson himself, who united thousands of fans across the globe as they sang along with him whenever he was on stage. His song "Black or White" and its video are a model of the very idea that people of different colours, age, caste and creed groove to the same beat and sing the same song.

**That's the power of art.**

The sheer ease with which street artists are able to amass an audience is another testament to this, be it in London with their fully painted bodies or the street dancers in New York with a massive fan following. Artists all around the world find their own medium to express themselves wherever they go. They feel a sense of belongingness when they find an audience for themselves. This same sense of belongingness is shared by the audience that relates to the work of the artist, and in this manner, art has a deeply unifying presence. While it is true that people communalise based on where and who they are born to, they are forever united in their pursuit of art.





# Unite and Conquer



*Mandeep Singh, 2nd year, COE*

*Mihir Ranjan, 2nd year, EE*

Just recently, when I was sheepishly scrolling through my fathomless Facebook feed, I came across a video. It was a video of the Raksha Mantri performing the traditional Shastra Puja on the auspicious day of Dussehra. What surprised me, though, was the fact that the Puja was being performed on the newly commissioned, highly advanced fighter jet, Rafale. He drew the sacred Om symbol on the airframe of the multimillion-dollar fighter jet and placed two lemons near the landing gear. However superstitious it may have seemed, what the video reiterated was that every Indian is tied to their traditions, especially at the most crucial of times.

Rituals during festivities aren't uncommon, even in the armed forces. A Muslim dominant subunit of the Grenadiers regiment of the Indian Army may be commanded by a non-Muslim. Spiritedly, the commanding officer fasts every day along with his troops and leads their prayers five times a day during the holy month of Ramzan. Traditions, festivities, and celebrations have been associated with our culture since the beginning of our civilisation. While the country went through a slew of different eras, it has always thrived on the idea of pluralism. Pluralism is what defines India as a country. Mutual respect has been one of the major causes of the rise in prominence that these festivities hold. A day when people can forget their woes and celebrate in pompous fashion, unite with good to battle against evil, or simply see the night sky light up as the second sun. No matter their belief, every person is welcome in the revelry. Maybe that is what our leaders

envisioned in a secular India - an India where our beliefs do not generate animosity, but a feeling of mutual respect and belonging.

However, despite the peace and tranquillity which has prevailed within the country for centuries, there is a call to action. In today's times, religious polarisation is at a maximum, with our country's mettle being tested. During times like these, the newer generation mustn't forget their rich lineal. India comes from perhaps the most culturally diverse palette that any country has had to paint its past; a diversity which, while being a boon, has also been a major cause of rifts. The annals of history have witnessed several conspiracies being hatched to bank on the difference in beliefs. Proudly, our countrymen always ignored their differences and foiled such malicious attempts. Apart from the architecture and the wondrous monuments that have withstood the test of time, perhaps the greatest legacy we have is our festivities. Festivities have always transcended our social and religious divides; be it the distribution of sweets during Diwali or sevai during Eid, every household has the liberty to celebrate unity the way it was meant to be.

Regardless of the spectrum of beliefs in spiritualism, a presence of a familiar bond looms around forever, one that every household from metropolitans to villages shares. A bond that runs thicker than blood, forged aeons before us, one diffused into the very soil from which we come. A bond that has stood the test of time and will continue to do so.



# GUIDE TO MOBILE PHOTOGRAPHY

Ankit Dutta, 3rd year, ECE  
Parangat Mittal, 3rd year, ECE

Gone are the days when clicking a good photograph used to be quite a task, from tediously setting up the camera and its gear to editing the raw photos on a desktop computer. With the new-generation smartphones, equipped with decent processors, it is now possible to take high-quality photos and edit them on the mobile itself without too much hassle. Capturing good photos with a mobile isn't a herculean task, and with a few basic tips and tricks, you'll be able to create amazing masterpieces to share on social media!



**RAW:** A RAW image is minimally processed, so it captures all the details of the image which can be tweaked while editing.

**Rule of Thirds:** The main subject or other compositional elements of the image must be placed at the intersection of the gridlines to create a visually pleasing photo.

**ISO:** ISO is the level of the camera's sensitivity to ambient light. During the daytime, prefer a lower ISO, while at night or in low light, a higher ISO will give the desired effect.

**WB:** White Balance allows you to restore the true colours of the image, which often fade. Use the slider to restore the original colours of the image.

**Shutter Speed:** A slower shutter speed is desirable for low-light photography and capturing motion blur. The lower the denominator, the slower is the shutter.

**Focus:** Focus enables you to focus on any other element in the frame manually, which auto-focus is unable to catch. The slider allows you to shift the focus from near to far.

## SOME GENERAL TIPS:

- Experiment with the Manual/Pro mode of the camera to get complete control over all the settings.
- Make sure the subject is properly exposed. The smaller pixels in mobile sensors provide less room for manipulation later on.
- Instead of zooming through the camera, always try to move closer to the subject.
- For devices with a triple camera setup, try and utilise all the focal lengths for different perspectives.
- To enhance the look of your photos, edit with Snapseed, Lightroom CC, VSCO, etc. (Don't overedit, a person shouldn't be left with red skin!).
- If you're trying to shoot a video, always try and shoot at 24 FPS to get a more cinematic look.
- Always keep the glass of your smartphone camera smudge-free.

**BONUS TIP:** Monochromes look better than coloured photos on smartphone cameras.



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Ikshvaku Shyam, Medhavi Thakur,  
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Ankit Dutta, Bhumika Bhatia,  
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Malay Raj, Manvir Singh,  
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दो लोग साथ चल रहे हों या  
पाँच उंगलियों की छाप हो  
ऐसा करो समाज निर्माण जिसमें  
एकता की जाप अपने-आप हो  
चाहे कितनी भी तौहीन-ए-जज़्बात हों  
नज़र उठाइये और देखिए  
साथ चल रही है दुनिया  
बस हमलोग एक दूसरे के साथ हों!



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