



# DTU TIMES

EDITION 32

A PUBLICATION OF DELHI TECHNOLOGICAL UNIVERSITY

AUGUST TO OCTOBER 2015

## From the desk of the Vice Chancellor, Prof. Yogesh Singh

**W**ITH THE ONSET OF THE 75<sup>TH</sup> YEAR OF THIS PRESTIGIOUS INSTITUTION, I'd like to congratulate the Staff and Students of Delhi Technological University for being a part of its glorious history, and wish them all the luck and success in the years to come. Opportunities come unannounced, hidden in your greatest responsibilities. Becoming the Vice Chancellor of DTU is certainly a great responsibility. DTU is a very well-known and prominent university. The students and faculty here are brilliant. Their expectations from the college are sky-high. And we as the administration strive to transform these hopes into reality.

Today, we have an incredible opportunity right before us – a chance to set the system right. Every decision that we make must be student centric. We must learn



to make tough choices when we need to. The administration plans to reach out to the students and the faculty in facilitating all their endeavours. Hence, we've started planning for a variety of measures which, if implemented properly, can improve the quality of education and extra-curricular.

Introducing a choice based credit system is one of the major reforms being planned. Under this system, half the credits will be fixed. The rest can be covered as per the students' interest. Students may derive more credits from the project work that they do, or from any other course that

they take up.

Plans to set up a new Technology-Business Incubator unit are also on the agenda. Students can set up their own businesses and breathe life into their ideas right from the college campus itself. We plan to institute a panel of learned professionals in financial, legal and management fields that will give the students the know-how for achieving success. Also, as a backup plan, we hope to introduce deferred placements for two years, so that the students can try different things, and then sit for placements even if nothing works out.

Last, but not the least, I'd like to congratulate the DTU Times team, for having worked tirelessly to bring to life this memorable 75 years' edition of the newsletter, and once again congratulate every proud DTUite on its Platinum Jubilee year.

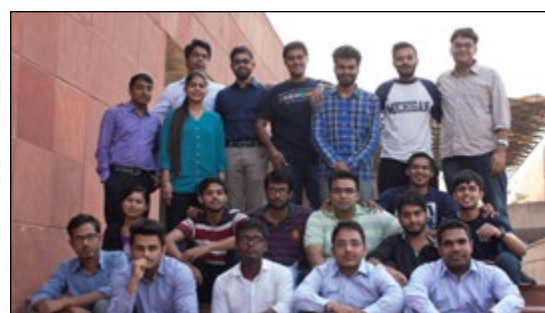
## Cultural Events celebrated at DTU

The DTU Students Association is undoubtedly the backbone of the University. Like previous semesters, this semester was also a great success. DTU SA welcomed the newly admitted freshers with an orientation on 12<sup>th</sup> August. The event saw a jam-packed auditorium and fun sessions that kept the audience engrossed. For the very first time DTU SA in collaboration with all the major societies of DTU organized a Freshers' week in the second week of September. The week's activities included a freshers' marathon, music train, flash mob, gully cricket and many other fun filled events to give the freshers a memorable welcome. The week ended on a high note with Freshers' Night. On 5<sup>th</sup> October, Swachh DTU Day was observed. Unhygienic spots around the campus witnessed cleaning activities. On 7<sup>th</sup> October, DTU pitchers was organised with the motive of building a startup ecosystem in DTU. It benefitted the students on-campus by offering support to emerging start-ups and inspired a lot of other aspiring entrepreneurs to plan and implement their innovative ideas. The cultural council also organized a dandiya night for the college students keeping in line with the festive season of October-November

## Students shine in the Placement Season

The Training and Placement Cell of DTU works round the clock to assure placements for the students of the college. Some of the best companies visit the college to recruit students into the industry. By the end of the academic year 2014-15, more than 1,500 offers were made to the students by an assortment of more than 250 companies such as *Deloitte, Goldman Sachs, Acceltrade, Qualcomm, Freescale, EPIC, UHG and Flipkart*. A multitude of other globally renowned companies visit the campus to recruit for profiles such as software developer, data analyst, IT Security, business analyst, position in a core technical field, consultant, product engineer, business research, finance professional and retail marketer.

Delhi School of Management was also awarded with more than 50 offers which



Placement Coordinators for the current session.

included Google as one of the major recruiters for on campus placements. With the onset of the academic year 2015-16, the Training and Placement Cell has once again begun with the placement process in full flow and currently, more than 100 companies have already made, upwards of 450 offers to the students.

## Notice of issuance of Internship Letters by the T&P

The department also issues internship letters for students of 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> years should they wish to pursue an off-campus intern during the vacations. The procedure for acquiring the aforementioned letter is:

- The letter needs to be downloaded from the website URL – [tnp.dtu.ac.in](http://tnp.dtu.ac.in).
- It should be printed in colour and the details are to be filled by the student including the name of the company where they wish to intern.
- The form along with one xerox copy is to be submitted before 12 noon at the T&P office.
- Stamped forms can then be collected from the office any time after 4 PM.

Bonafide certificates are issued by the academic branch next to admin block and not the T&P Cell.

## Conferences and Workshops attended

- Dr S. Indu**, Associate Professor, Department of ECE.
  - Organized Branch Counsellors meet, DTU, 11<sup>th</sup> October 2015.
  - "Big Data & Ontology" organised by EE Department of IITD, September 19, 2015.
  - "Management Capacity Enhancement Programs (MCEP)" organized by IIM Lucknow, Noida campus, 5-9 Oct 2015.
- Dr Rajeshwari Pandey**, Associate Professor, Department of ECE.
  - "Success that Succeeds", motivational talk by Dr Vijay Chopra held on 9<sup>th</sup> October, 2015.
- Dr Neeta Pandey**, Associate Professor, Department of ECE.
  - "Success that Succeeds", motivational talk by Dr Vijay Chopra held on 9<sup>th</sup> October, 2015.
- Dr Seema Singh**, Associate Professor, Department of Humanities.
  - "Tryst with Destiny: Empowering Women through Financial Inclusion in India" at the UWAV Conference on "Development Model - A Woman's Perspective" at Parul University, Vadodara, Gujarat.
  - Special Honoured Guest, 6<sup>th</sup> Expert talk on "Social Entrepreneurship", 18<sup>th</sup> September 2015, Delhi Management Association in collaboration with A.P.E Communication, New Delhi.
  - Delivered lecture on "Society and Higher Education" at First Short-term Principals' Workshop, 14<sup>th</sup> October, 2015 organised by the UGC-HRDC, JNU, New Delhi.
  - Member of Editorial Board Team of International Journal of Transformations in Business Management, International Journal of Research in Social Science & Humanities and Multidisciplinary International Journal.
- Dr Rishu Chaujar**, Assistant Professor, Department of EP.
  - Start-up Weekend Powered by Google for Entrepreneurs: October 30, 31 and Nov 1, 2015 Organized by E Cell, DTU (Faculty Advisor).
  - Workshop on Raspberry Pi in association with IIT Bombay: October 16-17, 2015.
- Dr Yasha Hasija**, Assistant Professor, Department of BT.
  - Co-Chair for session on 2 main tracks: Bioinformatics and Biosensor & Tissue science and engineering, 6<sup>th</sup> World Congress on Biotechnology, October 5-7, 2015, Delhi, India.
  - Invited speaker at Connecting the dots workshop, 6<sup>th</sup> World Congress on Biotechnology, October 5-7, 2015, Delhi.
  - Network based analysis of SNPs associated with Age-Related Disorders, 6<sup>th</sup> World Congress on Biotechnology, October 5-7, 2015, Delhi, India.
- Dr Vivek Kumar Aggarwal**, Assistant Professor, Department of Applied Mathematics.
  - International conference on Industrial and Applied Mathematics (ICIAM-2015), Beijing, China, 10-14 August 2015.
- Dr Anil Haritash**, Assistant Professor, Department of ENE.
  - 21-days Summer School of 'Geospatial Technologies' (July 21 to August 10, 2015) at Chitkara University, Solan, Himachal Pradesh.
- Mr Vinod Singh**, Assistant Professor, Department of EP.
  - Workshop on "Nanolithography and Nanofabrication" jointly organized by Nanoscale Research Facility, IIT Delhi and RAITH GmbH, Germany on October 17, 2015.
- Dr Ranganath M. Singari**, Assistant Professor, Department of ME.
  - Organised the TEQIP-II sponsored FDP on "Automation in Manufacturing" (AIM-2015) at DTU from 04-15 May, 2015. Faculty from IITs, NITs and other reputed institutions delivered their expert

lectures.

- Ms Saroj Bala**, Assistant Professor, Department of Humanities.
  - "Challenges of ELT in the new millennium", International Conference on Learning and Teaching of English in India: Setting Standards, organised by ELTAI and RKGIT, Ghaziabad, U.P.
  - "Reading revolution with the e-books", the International Conference on Advances in English studies and women empowerment, organized by the Department of English, K. L. University and IMRF at Guntur, Andhra Pradesh.
  - TEQIP II sponsored programme on "Urban Environmental Challenges and their Control Strategies" organized by the department of Environmental Engineering, DTU.
  - TEQIP II sponsored STC on "Supply Chain Management for Sustainable Performance", organized by the department of Mechanical Engineering, DTU.

## Research Papers published

- Dr S. Indu**, Associate Professor, Department of ECE.
  - "Map vs. Unordered Map: An Analysis on Large Datasets", published in IJCA, October 2015.
  - "Design of High Speed Vedic Multiplier Using Multiplexer Based Adder", accepted for presentation in the IEEE International Conference on Control, Communication and Computing.
  - "An Optimal Underwater Image Enhancement based on Fuzzy Gray World Algorithm and Bacterial Foraging Algorithm", accepted for presentation in NCVPRIPG 2015, IIT Patna.
  - "Neuronal Logic Gates Realization Using Vedic Mathematics", accepted for presentation in IEEE INDICON-2015, Jamia Millia Islamia, New Delhi.
- Dr Rajeshwari Pandey**, Associate Professor, Department of ECE.
  - "Voltage mode Universal First order filter employing single OTRA", accepted for June-August 2015 issue of i-manager's Journal on Electronics Engineering.
- Dr Neeta Pandey**, Associate Professor, Department of ECE.
  - "Design and Implementation of Novel Multiplier using Barrel Shifters", International Journal of Image, Graphics and Signal Processing, 2015, 8, pp. 28-34.
- Dr Seema Singh**, Associate Professor, Department of Humanities.
  - "Is CSR a win-win situation? A study of Listed Companies of India" with **Mr Anngad Singh** and **Yatin Arora**, B. Tech. 7<sup>th</sup> Sem. International Research Journal of Business and Management, VIII (11), pp. 31-41.
- Dr M. Jayasimhadri**, Assistant Professor, Department of EP.
  - "Emerging Cool White Light emission from Dy<sup>3+</sup> doped single phase Alkaline Earth Niobate Phosphors for Indoor Lighting Applications", Dalton Transactions, vol. 44, pp. 17166-74, 2015. (IF: 4.197).
  - "White Light Emission and Colour Tunability of Dysprosium doped Barium Silicate Glasses for Photonic Device Applications", Journal of Luminescence, vol. 169, pp. 121-127, 2016. 121-127 (IF: 2.719).
  - "Mechanical properties and microstructure of Spark Plasma sintered nanostructured p-type SiGe Thermoelectric Alloys", Materials and Design, vol. 87, pp. 414-420, 2015. (IF: 3.501).
- Dr Rishu Chaujar**, Assistant Professor, Department of EP.
  - "Analytical Drain Current Formulation for Gate Dielectric Engineered Dual Material Gate-All Around-Tunnelling Field Effect Transistor", Japanese Journal of Applied Physics, vol. 54, 2015.
  - "Impact of Device Parameter Variation on RF

performance of Gate Electrode Work Function Engineered (GEWE)-Silicon Nanowire (SiNW) MOSFET", Journal of Computation Electronics, Springer, Vol. 14, Issue 3, pp. 798-810, September 2015.

- Mr Vinod Singh**, Assistant Professor, Department of EP.
  - "A process of synthesis of Metal Core - Carbon Shell Nanoparticles". Patent filed on July 17, 2015.
- Dr Nitin K. Puri**, Assistant Professor, Department of EP.
  - "Enhanced Ferroelectric Photovoltaic response of BiFeO<sub>3</sub>/BaTiO<sub>3</sub> Multilayer Structures", Journal of Applied Physics, Impact factor: 2.183.
  - "Ultraviolet Radiation detection by Barium Titanate thin films grown by Sol-gel Hydrothermal Method", Sensors & Actuators, Impact factor: 1.903.
- Ms Saroj Bala**, Assistant Professor, Department of Humanities.
  - "Multicultural Literature in the age of Globalization" in the International Journal of Multicultural Literature, 5.2 ISSN 2231-6248, pp. 6-12.
- Dr Yasha Hasija**, Assistant Professor, Department of BT.
  - Book Chapter: Metabolic Engineering, Dimensions and Applications. Computational Biology and Bioinformatics: Gene Regulation. Ed: Ka-Chun Wong. CRC Press. Taylor and Francis Group (Accepted).
- Dr Ranganath M. Singari**, Assistant Professor, Department of MPAAE.
  - Published a total of 12 research papers in National and International Journals of repute.
- Dr Mohan Singh Mehata**, Assistant Professor, Department of EP.
  - "Controlled synthesis and optical properties of tunable CdSe quantum dots and effect of pH." AIP Advances 5 (2015) 097114.
  - "Controllable synthesis of silver nanoparticles using Neem leaves and their antimicrobial activity." Journal of Radiation Research and Applied Science, 2015 (Accepted).
- Dr Amit Pal**, Assistant Professor, Department of ME.
  - Published 5 research papers in international journals.

## Awards and Honours received

- Dr S. Indu**, Associate Professor, Department of ECE.
  - A member of selection committee of NIELT.
- Dr Neeta Pandey**, Associate Professor, Department of ECE.
  - Member of the Editorial Board, International Journal of Microelectronics Engineering.
  - Reviewer in Electronics Letters, Analogue Integrated Circuits and Signal Processing.
- Dr M. Jayasimhadri**, Assistant Professor, Department of Applied Physics.
  - Awarded Outstanding Scientist Award (in the category of Science/Materials), Venus International Foundation Research Awards-2015.
- Dr Rishu Chaujar**, Assistant Professor, Department of Engineering Physics.
  - Member of the Editorial Board, Journal of VLSI Design Tools and Technology, 2015.
- Dr Yasha Hasija**, Assistant Professor, Department of BT.
  - Sponsored Project: "Role of Human Genetic Variations in Age-Related Disorders"; Funding Agency: Science and Engineering Research Board (SERB) under OYS Scheme; Duration: 3 years (2012-15).
- Dr Amit Pal**, Assistant Professor, Department of ME.
  - Completed second phase of the project "Development of Biodiesel Reactor for the waste cooking oil collected from hotels and restaurants", sponsored by the Environment Ministry of the Delhi Govt.

## Department News

### Central Library organises Workshops

Central Library, DTU organized workshop on APS, SIAM, ACS, Project Muse and ASTM on 18<sup>th</sup> September, 2015, at the library for the benefits of the users. Experts from these databases explained how to search these databases for the benefit of users. Another workshop **Grammarly** was organised on 19<sup>th</sup> October, 2015 and was attended by all the faculty members of the university.



### Department of Environmental Engg. organises FDP

Department of Environmental Engg. organised a Faculty Development Program on 'Urban Environmental Challenges and Their Control Strategies' from 13-17<sup>th</sup> July, 2015. Current urban environmental challenges faced by the people worldwide in developing countries like India were emphasized by course coordinator **Dr Rajeev Kumar Mishra**. **Prof. P. K. Garg**, Vice Chancellor, Uttarakhand Technical University, delivered a lecture on Urban Planning using Geo-spatial Tools. **Prof. Mukesh Khare** from IIT Delhi delivered a lecture on Urban Air Quality Management with special reference to a comprehensive approach for megacities like Delhi.



### E-CELL DTU organizes StartUp Weekend

Entrepreneurship Cell, DTU organised the startup weekend, on 30<sup>th</sup> October-1<sup>st</sup> November a 54 hour event supported by Google for Entrepreneurs to create a startup, which included business model creation, coding, designing and market validation. Experts and successful entrepreneurs, including **Sameer Grover**, Founder, Crown It, **Varun Banka**, Founder, Social Cops, **Varun Jain**, Founder, Nom Nom Restaurant Chain and **Subrat Kar**, Founder, Vidooly were part of the event as guest speakers.



### NSS DTU stands up for Social Causes

NSS DTU organised various social drives to make a change. It included **Rehmat**- Books and Cloth collection drive, **Women Self Defence Workshop**, **Drug awareness campaign**, **Blanket Collection drive**, **Yamuna Bachao Andolan** and events to support **physically challenged students**. Most of the events have already entered their advanced stages.

### GOAT organises Social Signs Workshop

Society Get Out and Try organised a basic **Indian Sign Language Workshop** on 8<sup>th</sup> September, 2015 to teach students the English alphabets, basic words and phrases to communicate with the speech and hearing impaired community and create a more inclusive environment in our society.



### Pratibimb wins laurels

Stage play **Raavi Paar** by Pratibimb-the dramatic society won the best play award at Moksha'15, NSIT and an honourable mention at the Deshbandhu College's stage play fest. Stage play production, **Bench in the Park** won the best play award at the stage play event of Deshbandhu College. Street Play **Meherbaani** won the first prize at Thapar University, Patiala. **Ajay Sharma** also won the Best Actor Award at Deshbandhu College.

## Society News

### IEEE DTU organizes Repertoire and Xtreme

The annual techno-managerial fest of IEEE, DTU was organized on the 14-15<sup>th</sup> of September. The events included **Panache**-a multimedia quiz in the OAT, **SPAVE**-a B-plan event, **Vihaan**-a debate competition themed on women empowerment and **Junkyard** where students were required to innovate from scrap material. IEEE Xtreme was held on 24<sup>th</sup> October and was a 24 hour long coding competition.



### DTU Times organises Penguin India event

DTU Times, in collaboration with **Penguin India**, organised the book launch of the book "Love Not For Sale". Renowned author of the book, **Mr Anurag Garg** was present during the event, where various aspects of book writing were discussed and specially autographed copies of the book distributed.

## Other News

### DCE-DTU Alumni Association organises Events

The **DCE-DTU Alumni Association** organised various events throughout the session to keep the alumni community connected. **Kavi Sammelan** was organised in the campus as a part of **Guru Samman Diwas** on 4<sup>th</sup> September, 2015. An interactive panel discussion on "**Roadmap & Roadblocks: 24x7 Affordable Power to All**" was organised on 7<sup>th</sup> August, 2015 at CSOI, Chanakypuri, New Delhi and was attended by **Prof. Pradeep Kumar**, Vice Chancellor and **Sanjay Diwan**, Vice President, Alumni Association. A motivational session on "**Success that Succeeds**" was organised on 9<sup>th</sup> October, 2015. This lecture was delivered by **Dr Vijay Chopra**, Motivational Guru and alumnus (1960 batch).



## Research Papers and Books published

- Saamarth Jain**, B. Tech., 4<sup>th</sup> yr., MAE and **Soumya Aroy**, B. Tech., 4<sup>th</sup> yr., ME.
  - “Fluidic Thrust Vectoring Techniques for Application in V/STOL Aircrafts”, SAE 2015 AeroTech Congress & Exhibition, September 22-24, 2015, Seattle, Washington, USA.
  - “Flow Simulation and Theoretical Investigation on Aerodynamics of NACA-2415 Airfoil” at Low Reynolds Number, SAE 2015 AeroTech Congress & Exhibition, September 22-24, 2015, Seattle, Washington, USA.
  - “Study on the Parameters Influencing Efficiency of Micro-gas Turbines – A Review, ASME Power & Energy Conference”, with **Abhishek Aggarwal**, B. Tech. 4<sup>th</sup> yr., MAE June 28<sup>th</sup>–July 2<sup>nd</sup>, 2015, San Diego, California, USA.
- Abhinav Parashar** and **Aditya Vineet**, B. Tech., 3<sup>rd</sup> yr., ECE.
  - “Performance Analysis of different types of Parallel Adders” in IEEE Technical Paper Publishing Magazine, IOTA
- Nikhil Saxena** and **Nikhil Chaudhary**, B. Tech., 3<sup>rd</sup> yr., PIE.
  - Accepted for presentation and publishing “The Impact of Modular Sourcing in Supply Chain Flexibility” in the Fifteenth Global Conference on Flexible Systems Management, GLOGIFT 15.
- Arnesh Das**, B. Tech., 4<sup>th</sup> yr., CE.
  - “Determination of Illegal Pumping and Monitoring Network using Genetic Algorithm based Simulation-

Optimization Model” accepted at 3<sup>rd</sup> International Conference on Advances in Civil, Structural and Environmental Engineering held in Zurich, Switzerland.

- Arush Kakkar**, B. Tech., 4<sup>th</sup> yr., EEE.
  - Author of the book titled “Raspberry Pi by Example”, with Packt Publishing.
- Nag Mani**, B. Tech., 4<sup>th</sup> yr., ECE.
  - Author of the novel “The Green Room”. Selling successfully across online shops.

## Honours and Awards received

- Vivek Aggarwal**, B. Tech., 4<sup>th</sup> yr., CE.
  - Received MITACS, a highly competitive and reputed internship wherein he interned in Canada during summer 2015; a trip fully funded by Govt. of Canada.
- Dhruv Aggarwal**, **Shubham Desale**, **Shubham Dokania**, and **Prateek Narang**.
  - Won the Digital India Competition held at Tech Mahindra Noida and Google Mountain View. In the final round, attended by Honourable PM Narendra Modi and CEO of Google, Sundar Pichai, they built the software to predict food estimates for NGO Akshaya Patara using machine learning algorithms.
- Animesh**, B. Tech., 3<sup>rd</sup> yr., ME.
  - Received Central Sector Scholarship Scheme by CBSE.
  - First position in Technothon, IIT Guwahati.
- Anurag Gupta**, B. Tech., 4<sup>th</sup> yr., EEE.
  - Represented India at Gitex, Dubai and won the third prize. Designed the whole hardware and software of

the home automation system called Waiver.

- Gautam Gambhir**, B. Tech., 2<sup>nd</sup> yr., MAE.
  - Won the British Parliamentary Debate competition at International Management Institute, New Delhi.
- Laavanye Bahl**, B. Tech., 3<sup>rd</sup> yr., SE.
  - Won the Global Hackathon series in Delhi, travelling to Silicon Valley to present his project.
- Gunit Dhingra**, B. Tech., 3<sup>rd</sup> yr., EEE.
  - Stood second in Circuitrix, technical fest, IIIT Delhi among many teams from across the country.
- Jigyasa Grover**, **Aanchal Somani**, **Chhavi P. Gupta** and **Guneet Khosla**, B. Tech., 3<sup>rd</sup> yr., COE.
  - Stood second runners-up in the overnight competition Hack IIITD, IIIT Delhi on 21-22<sup>nd</sup> August, 2015 where they developed Android app developed Poll Khol in 20 hours.

## Conferences and Workshops attended

- Rahul Takoria**, B. Tech., 2<sup>nd</sup> yr., PCST.
  - 5<sup>th</sup> HR Round Table Conference organised by ISPE AND UPES on multi-tasking by human resource for the power sector.
  - Confluence–Annual Technical Conference on “New Horizons in Chemical Science”.
- Rishabh Khatri**, B.Tech., 2<sup>nd</sup> yr., PCST.
  - “The Potential and Pitfalls of Using Technology in creating Public Realm in Smart Cities by Shyam Khandekar”, at IHC on 14<sup>th</sup> October, 2015.

## OUR TEAM...

### Faculty Advisors

Dr S. Indu, ASSOCIATE PROFESSOR, ECE; Dr N. S. Raghava, ASSOCIATE PROFESSOR, ECE; Dr Rajeshwari Pandey, ASSOCIATE PROFESSOR, ECE.

### Alumni Advisors

Namrata Yadav, CLASS OF 2015; Damini Goel, CLASS OF 2015; Garvit Gupta, CLASS OF 2015

### STUDENT TEAM

#### Student Head

Shubham Sharma, 4<sup>TH</sup> YR., ECE

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Prateek Singhal, 4<sup>TH</sup> YR., EEE

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### Head of Design

Milind Singla, 4<sup>TH</sup> YR., ECE

### Head of Illustrations

Md. Irshad Gharbi, 4<sup>TH</sup> YR., ECE

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