



# DTU TIMES

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## Phenomenal placement season *witnessed* by University

Delhi Technological University (DTU) once again received tremendous response from leading corporates across the country for recruiting students graduating in June 2015 with 1400 job offers made by 165 visiting companies. This included overseas positions offered by companies such as Toshiba and Brothers Industries, Japan. The highest pay package offered, as on 12th January 2015 came from U.S. based software company EPIC. Some of the other major recruiters this year were Samsung, Amazon, Flipkart, Jabong, Snapdeal, Adobe, Nvidia, Freescale, Larsen and Toubro, United Health Group, Bharti Airtel, Turner Construction and Maruti Suzuki among others. Many government organizations such as C-DOT, Indraprastha Gas Limited, Indian Army and Indian Navy etc. also visited the campus for recruitment. Additionally, pre-placement offers were made to students by companies including Goldman Sachs and Royal Bank of Scotland. The number of companies recruiting MBA students saw a 300% increase this year with participation from Google, KPMT, E&Y, Markit, Indiamart among others. The Department of Training and Placement, DTU played a cru-

cial role in carrying out the entire placement process of the students including arrangements for facilitating tests and interviews, organization of pre-placement talks and round the year focus on managing internships and corporate training programs.

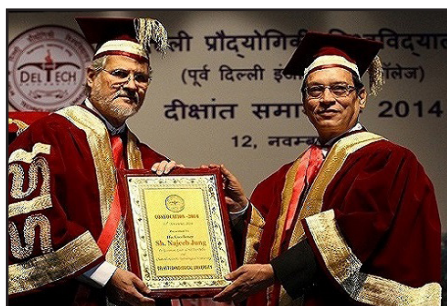
**Prof. Pradeep Kumar**, Vice Chancellor, Delhi Technological University says, "We enjoy highly valued partnerships with all our recruiters and remain committed to make their recruiting experience productive and positive along with helping students in order to find the best match between their needs and capabilities."

**Dr. R. S. Walia**, Head, Training and Placement says, "This year our department has broken all records by getting around 1400 job offers as the first semester approaches its end. This year, we are observing a happy change with as many as 6 companies visiting the campus on a single day for placements and internships. It just goes on to demonstrate, how hard the whole department is working to get the best firms to campus without leaving any stones unturned."

## Convocation 2014 *organized*

Delhi Technological University organized the annual convocation on November 12, 2014. His Excellency **Shri. Najeeb Jung**, Lt. Governor of Delhi and Chancellor of DTU presided over the ceremony.

**Shri Mangu Singh**, Managing Director of Delhi Metro Rail Corporation (DMRC) was the chief guest for the ceremony and delivered the convocation address. In the address, he motivated the students to build capacity with their vision and innovation to fulfill the 'Make



*In India*' campaign launched by the hon'ble Prime Minister. **Shri Anindo Majumdar**, IAS, Principal Secretary, Training and Technical Education, Govt. of Delhi was the guest of honor.

His Excellency **Shri. Najeeb Jung** congratulated all degree recipients of the university and motivated them to serve the country. He awarded Chancellor's medals to overall toppers of undergraduate and graduate student of each batch. In the 2014 convocation 72 medals were awarded and degrees were conferred to 1947 students including PhD, Mtech, MBA, Btech and Btech(evening). In addition to this 1460 degrees were conferred to graduates of Delhi College of Engineering (Batch of 2012). The president of DCE-DTU Alumni Association **Shri Karnail Singh**, IPS along with other alumni members also graced the occasion.



## Republic Day *celebrated* on campus

26th January 2015: Delhi Technological University celebrated the 66th Republic Day with the Flag Hoisting ceremony by the hon'ble **Pro Vice Chancellor Prof. S. K. Garg**, which was followed by a cultural program.

**Prof. S.K. Garg** also delivered the Republic Day address in the event attended by both students and faculty members and ended the ceremony with the national anthem.



## SH Institute of Agriculture delegation *visits* DTU

A team of 26 students and faculty members led by **Dr. Prashant Antony**, Associate Professor, Department of Chemistry, Sam Higginbottom Institute of Agriculture, Technology and Sciences, Allahabad visited the Dept. of Applied Chemistry and Polymer Sciences on 12th January 2015

## Guest Lecture and Activities on Swachh Bharat Abhiyaan *organized*

An invited lecture on 'Sensitizing for Waste Management' by **Mrs. Susan Jain**, former faculty, Delhi University was organized on 28th October 2014. On the Swachh Bharat theme, the Department of Humanities organized a creative writing competition on the 28th, a sketching competition on the 15th and a painting competition on the 2nd of October 2014. The department also organized an invited lecture on 'Caring about Ethics and Human Rights in Science and Engineering' by **Dr. Sushma Moitra**, faculty, Dept. of Botany, Miranda House on the 2nd February 2015.



## Honours and Awards

- **Dr. Asmita Das**, Assistant Professor, Department of Biotechnology
  1. Project Investigator in DST-SERB sponsored project on “Tumor induced Natural Killer Cell Immunomodulation”; Amount: Rs. 20.6 Lakhs
  2. Co-Project Investigator in UPE JNU for “Studies on elucidating Silver Nanoparticle as potent inhibitor of hyphal morphogenesis and drug resistance in opportunistic fungal pathogen, Candida and potential host cell toxicity”; Amount: 11 Lakhs; Duration: 5 years
- **Dr. S. Indu**, Associate Professor, Department of Electronic & Communication, received the “Outstanding Branch Counselor award 2014” from IEEE USA.
- **Dr. Mohan Singh Mehata**, Assistant Professor, Department of Applied Physics, awarded Chinese Academy of Science Visiting Fellowship for two months.
- **Dr. Yasha Hasija**, Assistant Professor, Department of Biotechnology
  1. Project Investigator in CSIR-OSDD sponsored project on “Tuberculosis: Genetic Susceptibility and Pharmacogenomics Databases”; Amount: Rs. 12.8 Lakhs; Duration: 2 years.
  2. Project Investigator in SERB sponsored project on “Role of Human Genetic Variations in Age-Related Disorders”; Amount: Rs. 15 Lakhs; Duration: 3 years.
  3. Awarded the Best Oral Presentation Award for Assessing Nutraceutical Alpha Ketoglutarate for Its Effectiveness: 99m Technetium-Mebrofenin Nuclear Imaging in CCl4 Induced Hepatotoxic Animal Model in the International Conference on Chemical, Food and Environment Engineering (ICCFEE’15), Dubai (UAE) on 11-12 January, 2015.
- **Dr. Vikas Gupta**, Assistant Professor, DSM, awarded with the Doctorate degree titled “Developing A Framework For Knowledge Creation Capability Towards Innovation: Indian Context”.

## Research Papers *published* and *presented*

- **Dr. S. Indu**, Associate Professor, ECE
  - o International Conferences: 3
- **Dr. Roli Purwar**, Assistant Professor, Department of Applied Chemistry & Polymer Technology
  - o International Conferences : 1
  - o National Conferences : 4
- **Dr. M. Rizwan**, Assistant Professor, Department of Electrical Engineering
  - o International Journals : 4
- **Dr. Yasha Hasija**, Assistant Professor, Department of Biotechnology
  - o International Journals : 6
  - o National Conferences : 3
  - o International Conferences : 1
- **Prof. PK Suri**, Head, DSM
  - o Publications: 3
- **Dr. Shikha N. Khera**, Assistant Professor, DSM
  - o Presentations and Publications: 4
- **Dr. Archana Singh**, Assistant Professor, DSM
  - o Publications and Presentations: 4
- **Dr. Rajan Yadav**, Associate Professor, DSM
  - o Presentations and publications: 2
- **Dr. Neeta Pandey**, Assistant Professor, ECE
  - o International Journals: 3
  - o International Conferences: 5
- **Dr. Rajeshwari Pandey**, Assistant Professor, ECE
  - o International Journals: 3
  - o International Conferences: 5
- **Dr. Seema Singh**, Professor, Department of Humanities
  - o International Journals: 2
- **Dr. Nand Kumar**, Professor, Department of Humanities
  - o International Journals: 1

## *Participation* in Workshops and Conferences

- **Dr. Ram Singh**, Assistant Professor, Department of Applied Chemistry & Polymer Technology, organized the TEQIP-II sponsored two week FDP on “*Frontier on Polymer and Chemical Science*” in DTU from 15-26 December, 2014.
- **Dr. M. Rizwan**, Assistant Professor, Department of Electrical Engineering
  - o Organized the UGC Sponsored Short Term Training Programme on “*Integrating Renewable Energy Sources into Emerging Electrical Power Systems*” at DTU during 8-19 December, 2014
  - o Attended the TEQIP-II sponsored one week FDP on “*Intelligent Control Techniques and their Applications*” at DTU during 22-26 December, 2014.
- **Dr. Asmita Das**, Assistant Professor, Department of Biotechnology attended the International Conference on “*Advances in Pattern Recognition*” organized by the Indian Statistical Institute, Kolkata
- **Dr. Anil Kumar Haritash**, Assistant Professor, Department of Environmental Engineering, delivered an invited lecture on “*Contamination of drinking water, its prevention and treatment*” on 15th December, 2014 in JNU, New Delhi. The lecture was part “*Natural Resources and Water Management*” for Africa, supported by the Department of Science & Technology and organized by School of Environmental Sciences, JNU, New Delhi.
- **Dr. Roli Purwar**, Assistant Professor, Department of Applied Chemistry & Polymer Technology,
  - o Attended the International Conference on “*Polymeric Biomaterials, Bioengineering and Biodiagnostic*” on 27-30 October, 2014 and the “*International Conference on Technical Textiles and Nonwoven*” on 6-8 November, 2014, both organized by IIT Delhi, India.
  - o Attended the ITTAC - ETDS Seminar on “*Tyre Rolling Resistance*” at Indian Institute of Chemical Engineers (IICHe) Auditorium on 29th November, 2014, Qutab Institutional Area, New Delhi.
  - o Attended the IPI-Delhi Chapter: V. K. Grover Memorial Lecture on 9th Oct 2014, India International Centre, Delhi.
- **Dr. S. Indu**, Associate Professor, Department of Electronic & Communication
  - o Attended and presented her work in a workshop cum exhibition on Indian Digital Heritage project during 18-19 November, 2014 at India Habitat Centre, Delhi, organized by Prof. Santanu Chaudhury, IIT Delhi.
  - o Delivered an invited talk on “*ARM Micro Controllers and its Variants*” on 6th December in a National Conference “*NCRWCN-2014*” at Amity school of Engineering and Technology.
  - o Attended ICVGIP 2014 at IISC Bangalore during 14-17 December, 2014
- **Dr. Nilam**, Assistant Professor, Department of Applied Mathematics, visited the University of Manitoba, Winnipeg Canada from 9-30 November, 2014 on invitation for research collaboration.
  - o **Dr. Nilam** delivered an invited Lecture in Department of Biology, University of Winnipeg, Canada.
- **Dr. Mohan Singh Mehata**, Assistant Professor, Department of Applied Physics, delivered an invited talk in January 2015 on “*Workshop on Frontiers of Spectroscopy*” organized by the Department of Physics, Banaras Hindu University, Varanasi.
- **Dr. Yasha Hasija**, Assistant Professor, Department of Biotechnology attended the TEQIP-II sponsored FDP on “*Frontiers in Chemical and Polymer Sciences*” organized at DTU from 15-26 December, 2014.
- **Alok Kumar Singh**, Assistant Professor, Department of Electronic & Communication, participated in TEQIP-II sponsored one week FDP on “*Intelligent Control Techniques and their applications*” during 22-26 December, 2014 at DTU.
- **Prof. P. K. Suri**, Head, DSM
  - o Delivered talks at ICAR-Indian Agricultural Statistics Research Institute, on “*Examining Feedback Loops and E-Governance Performance in the context of Agriculture*”, New Delhi, January, 2015.
  - o National Institute of Agricultural Marketing on “*E-governance: Initiatives of Government of India with particular reference to Agriculture*”, November, 2014.
- **Dr. Shikha N. Khera**, Assistant Professor, DSM, Delivered expert lecture at Institute of Information Technology & Management, Delhi, on “*Transactional analysis*” and “*Team Building*”, 14th November, 2014.
- **Dr. Neeta Pandey**, Assistant Professor, Department of ECE,
  - o Attended International Conference on Signal Processing & Integrated Networks as a Technical Program Committee member and reviewer.
  - o Attended 2015 International Conference on Signal Propagation and Communication as reviewer.
  - o Attended 6th International Conference IEEE POWER INDIA 2014 as reviewer.
- **Dr. Rajeshwari Pandey**, Assistant Professor, Department Of ECE,
  - o Attended STTP on “*Faculty Development Program on Intelligent Control Techniques & Their Applications*”, DTU during 22nd- 26th December, 2014.
  - o Attended International Conference on Signal Propagation and Communication 2015, International Conference on Signal Processing & Integrated, 2015 and 5th International symposium on electronic system design, 2014, NITK Surathkal as reviewer.
- **Dr. Anjana Gupta**, Associate Professor, Department of Applied Mathematics,
  - o Attended a short term course on Optimization Methods and Applications at IIT Delhi. (December 16-19, 2014)
  - o Attended the phase -I of same at NITTR Chandigarh (January 21-23, 2015) and selected for phase-2.

## HPVC India 2015 *organized* by ASME DTU

Delhi Technological University continued its streak of excellence in technological endeavors by organizing the ASME-Human Powered Vehicle



Challenge India-2015. The national level competition was organized from the 16th to the 18th January. 55 teams from top engineering colleges across India rolled out new concept designs in pedal powered transportation. The three sub-events, namely the **Design round, Drag Race and Endurance**



race took place in the campus in the presence of Chief Judge *Mr. Nathan Taylor* as a team of 3rd year students from DTU secured the 1st, 5th, and 3rd places respectively to become overall winners for **HPVC India 2015**. The vehicle clocked a top speed of 60km/hr solely on human power. The four final year students **Satyam Taneja, Shubham, Manish Lohan and Sidharth Wali** led the organizing team of ASME DTU as it won the ASME Outstanding Student Section International Award.

## Faculty Development Programmes *organized*

A Faculty Development Program on 'Intelligent Control Techniques and their Applications' (ICCTA 2014) was organized by the Department of Electrical Engineering on the 22nd – 26th of December 2014. Dept also Organized the UGC Sponsored Short Term Training Programme on "Integrating Renewable Energy Sources into Emerging Electrical Power Systems" at DTU during 8-19 December, 2014. Another FDP (under TEQIP-II) on 'Frontiers in Chemical and Polymer Sciences' was organized by the Dept. of Applied Chemistry and Polymer Sciences from the 15th-26th December 2014.

## Research Papers *published* or *presented* by Students

- **Asheesh Ranjan** and **Pranav Jetley**, B.Tech 2nd Year, COE Paper titled 'Evaluation of signal smoothing algorithms for stability of a quadrotor MAV' was published at IEEE International Conference on Autonomous Robot Systems and Competitions (ICAR-SC) 2014, Espinho, Portugal.
- **Amit Kumar**, B.Tech 4th Year, PCST
  - i. "Formulation and Characterization of Permanent White Body Polyurethane (PU) Foam with Isophorone Diisocyanate" presented at Asian Workshop on Polymer Processing (AWPP 2013), Dec 2013, Goa, India.
  - ii. "Propylene Carbonate Modified Polyether Amine Based Flexible Polyurethane Foam: Formulation & Characterization" presented at AWPP 2013 and APA International Conference on Polymers: Vision & Innovations (APA - 2014), Feb 2014, New Delhi, India.
  - iii. "Study of Aliphatic Isocyanate based Non-Yellowing Flexible Polyurethane (PU) Foam" presented at National Conference on Innovation and Development in Chemical Technology (IDCT - 2014), March 2014, New Delhi, India.
  - iv. "Electrical & Morphological Characteristics of in-situ Polym-

erized Polypyrrole Coated PET & Cotton Conductive Yarns" presented at International Conference on Emerging Trends in Traditional & Technical Textiles (ICETT - 2014), April 2014, Jalandhar, India.

- **Vasundhara Dehiya**, B.Tech 4th year, ECE
  - i. "Targeted Surveillance system for Highly Maneuverable target using Fuzzy Kalman Filter" presented at International Conference on Industrial and Information Systems (ICIIS), 15-17 Dec. 2014. The paper was co-authored by faculty of department of ECE. (Authors: Rohilla, Rajesh; Dehiya, Vasundhara; Kapoor, Rajiv)
  - ii. "Segmentation of Terahertz images using 3D graph-cuts" published at the Computational Intelligence for Multimedia Understanding (IWCIM), 2014 International Workshop on, IEEE, pp.1, 4, 1-2 Nov. 2014 and was presented at IWCIM conference, Paris.
- **Edwin Basel Mathew**, B.Tech 3rd year, EEE
  - i. Presented the hardware prototype of 'Smoke Alarm Analyzer and Site Evacuation System' at Texas Instruments India Educator's Conference 2014.
  - ii. Won consolation prize in Texas Instruments Innovation Challenge-India Analog Design Contest 2014 in Bangalore.

## Conferences *Organized*

A two day conference, the **IEEE Delhi Student Congress, 2015** was organized on the 10th-11th January at **Delhi Technological University**. The speakers, **Dr. S. Indu**, Branch Counselor of IEEE DTU Student Branch, **Dr. Rachana Garg**, faculty advisor of IEEE DTU PES chapter and **Mr. Ravi Batra**, Chairperson of the IEEE DTU Student Branch, spoke about the various activities and events organized by IEEE DTU throughout the year. **Prof. Mini Shaji Thomas**, Executive Vice-Chair, IEEE Delhi Section was the guest of honour and delivered a talk on 'Smart Cities'. Other speakers at the conference were **Ms. Disha Chhabra** (Author, DCE and IIM C Alumnus), **Dr. Amit Roy**, from Freescale(India), **Mr. Jitin Chawla**, co-founder Director, Centre for Career Development, **Suraj Raman**, project head and mentor at Make a Difference and **Mr. Kartik Misra**, Vice Chairperson, IEEE Young Professionals, IEEE Delhi Section. **Dr. Neeta Pandey**, Associate Professor, ECE, **Dr. Jeebanada Panda**, Associate Professor, ECE and **Dr. Rajeshwari Pandey**, Assistant Professor, ECE also served as organisers for the event



## Pratibimb *showcases* Talent

**Pratibimb**, the dramatics society of DTU, has completed its audition process for this semester and has selected 15 new members. The stage play team is working on two new bilingual productions. Their play “*Kya Dilli Kya Lahore*” won the second prize at the *Maitreyi College*, DU and is set to perform at the Jesus and Mary College soon. They will be performing two shows of their play “*Fandi*” at

the amphitheatre – India Habitat Centre on 18th and 19th February. The street team performed at Mood Indigo, IIT Bombay and received appreciation for their play “*Pehchaan Kaun*”.



## SR DTU 2014-15: An Overview

**The Society of Robotics, DTU** has been working on various projects:- A team of 3 second year students from this society has been working on a project to develop a UAV that can be used by the DMRC for the purpose of electrical power line inspection and is presently working on their ultimate goal: the UAV being able to lift a 15 kg payload. Members of SR-DTU completed multiple projects using Renesas Electronics RL-78 microcontrollers for the Renesas De-



sign Challenge held on 9th January 2015.

SR-DTU recently collaborated with **Tryst IIT Delhi**, to conduct the zonal rounds of their annual technical fest in DTU along with the conduction of workshops. The society also recently opened a new chapter in **MERI College of Engineering and Technology**, Rohtak. The inauguration for the **SR-DTU MERI CET Chapter** and Robotics Lab took place on 24th January 2015. **SR-DTU** is now collaborating with **Texas Instruments** for the conduction of the Texas Instruments Innovation Challenge and various student projects using TI launchpads.

## ASCE DTU *organizes* Guest Lecture and Annual Technical Festival

The American Society of Civil Engineers - DTU Student Chapter organized an expert lecture on “Engineering Properties of Bentonite Sand” by Dr. Terrence Cousens from the University of Leeds, U.K. on the 13th November 2014

The chapter also successfully organized its annual technical fest 'Encaster' from 27-29th January, 2015. The 3-day fest witnessed the students taking part in a variety of events ranging from informal events such as Jenga, Anti-Chess and Tug of War to core technical events which included Kayak-e-Crete, Build it Out, Turris Gruis and Fileteratti. Intelligense, the quiz competition, tested the participants' knowledge regarding current affairs and various other fields. The event was conducted in the guidance of Chief Faculty Advisor - Prof. AK Trivedi and the Faculty Advisor - Dr. Raju Sarkar.



## Team Defianz *participates* in the FORMULA DESIGN CHALLENGE

Team Defianz participated in the first ever Formula Design Challenge in India held at the Kari Motor speedway, Coimbatore during 20th-25th January, 2015. The car, made with at least 25% reduction in weight compared to its predecessor, performed fairly well at the competition by finishing at 4th, 5th and 6th respectively in the skidpad, endurance and design categories.



### DTU TIMES TEAM

#### FACULTY ADVISORS:

DR. S. INDU, ASSOCIATE PROFESSOR, ECE  
DR. N.S. RAGHAVA, ASSOCIATE PROFESSOR, IT  
DR. RAJESHWARI PANDEY, ASSISTANT PROFESSOR, ECE

#### ALUMNI ADVISORS:

DHRUV SAPRA, BATCH OF 2014  
MADHURIMA BARAL, BATCH OF 2014

#### STUDENT TEAM

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DAMINI GOEL, 4TH YEAR, PIE

##### EDITOR-IN-CHIEF:

NAMRATA YADAV, 4TH YEAR, EE

##### GENERAL SECRETARY, HEAD OF DESIGN

##### AND WEB DEVELOPMENT:

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ISHA GUPTA, 4TH YEAR, EE

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##### ASSISTANT EDITORS:

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##### ASSOCIATE DESIGNER:

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##### REPORTERS:

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## IET organises guest lectures

IET DTU organized a guest lecture by **Dr. Abhishek Asthana**, a renowned scientist from the *Sheffield Hallam University (England)*, on January 7, 2015. Dr. Asthana delivered the lecture on “*Nuclear Power Generation*”. In addition to enthusiastic students, Professionals from the Ministry Of Railways and distinguished faculty members of DTU attended the lecture. Topics such as the basics of Power Generation, Elementary Principles and applications of Radioactivity and the basics of fission and fusion in respect of nuclear application were eloquently described

## DTU CROSS COUNTRY RUN

**Society of Information Technology Engineers (SITE)** organized a “*DTU Cross Country Run*” on 3rd February 2014 in the Sports Complex. The total distance to be covered was 3 km for boys and 2.5 km for girls. More than 150 students participated in the run and the top 3 winners were presented with a trophy by **Dr. O.P. Verma**, HOD, Dept. of Computer Engineering in a prize distribution ceremony held after the run. Top 10 winners were also given certificates. **Pratyaksha** emerged as the winner in the Boys category with **Karan Suri** and **Saud** grabbing the 2nd and 3rd prize respectively. In the Girls category, **Jyoti** was the winner with **Ritu Meena** and **Lalita** having to content with the 2nd and 3rd prize respectively.