



DTU TIMES

www.dtutimes.dce.edu

A PUBLICATION OF DELHI TECHNOLOGICAL UNIVERSITY

28th Edition
November 2014

From the desk of the **Vice Chancellor**



It gives me immense pleasure to welcome to the Convocation 2014 of DTU, on behalf of the entire DTU community and on my own behalf, the new graduates of this historic institution of national importance. DTU is one of the leading universities for higher education in India and is devoted to graduate and postgraduate studies as well as world class research. It is widely known for the excellence in teaching and research by its distinguished faculty.

Our University has a glorious past of more than 74 years and has been widely acclaimed for its excellence in education, research and training. A special emphasis is laid on total personality development along with quality education and technical training of the students. DTU is fully networked with industry, as well as with the academic and scientific community. It has active collaborations with leading universities and industries in India and abroad. Our college is the alma mater of highly distinguished engineers and technologists, which include the father of the Pentium Chip, Shri VinodDham; Shri Promod Haque, world known venture capitalist; Shri Raj Soin, the avionics wizard of US and a top ranking techno entrepreneur of Ohio and Shri Durgadas Agrawal, the renowned techno-entrepreneur of Houston, to name a few. We have a vision for DTU to continue being a leading world-class technological university playing its role as a

key node in national and global knowledge network thus empowering India with the wings of knowledge and power of innovation. We as faculty, administration, students and alumni are united in the mission to promote the engineering spirit of product development through effective integration of design engineering and rapid prototyping.

DTU has kept the quality of education and research as its main focus of academic and professional activities and this has earned it a high reputation in the country and abroad, as is evident from our college figuring several times among the top ten engineering institutions in the country along with the IITs. Alumni, staff, students and supporters take pride in having contributed to our University's reputation as India's flagship, research-led university, known for its excellence and service to local, national and international communities. Our challenge for the future is to build on this strong base to establish ourselves firmly among the world's leading universities.

We at DTU are proud to claim that our faculty and the members of various statutory boards are distinguished in their respective disciplines and are of honourable eminence. I, once again, welcome the newly graduated students to the convocation of this great educational institution and wish them a memorable, meaningful and rewarding future. Also, I wish them to excel as world-class engineers and scientists. I would urge upon them to prove themselves as good human beings and worthy citizens of this great country, India.

Swachh Bharat Abhiyan

Swachh Bharat Abhiyan is a mission initiated by the Hon'ble Prime Minister **Shri Narendra Modi** to realize Mahatma Gandhi's dream of Clean India by the 150th birth anniversary of Mahatma Gandhi in the year 2019. Our University supported the campaign under the leadership of our Hon'ble Vice Chancellor, **Prof. Pradeep Kumar**, by planning a plethora of activities for the month of October 2014.

The Swachh Bharat Abhiyan commenced on 27th September 2014 and the Oath was taken on 2nd October 2014 along with the Prime Minister in a live telecast from Rajpath, New Delhi, at the Dr. B. R. Ambedkar Auditorium. This was followed by an event devoted to spreading awareness about the significance of cleanliness in our surroundings. This was demonstrated through a Nukkad Natak performed by the students of DTU. Members of NSS DTU visited the nearby village, Shahbad, to carry out

a cleanliness drive to spread awareness and inculcate a need for sanitation in the minds of the villagers. The faculty, students and non-teaching staff from different departments of the University proceeded to clear the clutter and waste



एक कदम स्वच्छता की ओर

in different locations of the campus. The Vice Chancellor set an example by sweeping the campus, and asking students to take up the task of cleanliness themselves rather than depending solely on civic workers. Inspired by his gesture, the students, faculty and staff also joined hands and marched across the campus, engaging in various cleaning activities. Posters were put up and pamphlets were distributed to spread awareness about cleanliness, hygiene and sanitation.

The University has also joined hands with the Municipal Corporation of Delhi (MCD) to undertake and continue the cleanliness campaign

Placement Season on a roll

DTU has made an inspiring start in campus placements for the academic session 2014-2015. Our University, whose academic session began on the 1st of August has already witnessed some of the top companies such as **Flipkart, Epic, Deloitte, Amazon, Reliance, Airtel** and **Google** visiting the campus and offering impressive pay packages.

Training and Placement(T&P) department of DTU facilitates the placement process of students graduating from the University besides collaborating with leading organizations and institutes in setting up of internship and training program for students. Right from inviting companies to managing logistics of tests and conducting pre-placement talks and interviews, T&P provides the best possible assistance to recruiters.

Under the leadership and guidance of our new Vice Chancellor, **Prof. Pradeep Kumar**, DTU has witnessed an exceptional increase in the placement offers being made this year which stands at 1020 as on 25th Oct 2014 compared to 708 offers last year. Going by the numbers, it is expected that DTU shall break all records of the past.

Besides offering jobs to B.Tech, M.Tech & MBA students, many top companies have offered paid internships to pre-final year students and their number is also expected to rise this year. This shall help in enhancing

the industry interface and at the same time preparing students for the technological challenges faced by companies, giving them the required exposure.

Ninety companies from all the sectors such as Core Engineering companies, IT & ITES companies, Manufacturing companies, Consultancy Firms, Finance Companies, R & D laboratories and NGOs have already recruited from DTU this year. Some of the profiles offered are Software Developer, Applications Engineer, Operations Executive, Graduate Engineer Trainee, Analysts and Consultant.

The ostentatious beginning of the season goes on to prove that our college has a strong focus on industry relevance for its educational and research programs.

Dr. R. S. Walia, Head of T&P Department said, "This year T&P has set up a record by getting more than 1000 job offers before the first semester is over. It shows the hard work of the team of assistant professors and student placement coordinators who have left no stone unturned to invite and host recruiters from all over the world. T&P has also hosted invited talks, guest lectures and communication skills and resume development workshops for the students."

Honours and Awards

- **Dr. S. Indu**, Associate Professor, ECE:
 - o Member of syllabus update committee of GGSIPU
 - o Outstanding Branch Counsellor Award 2014
 - o Delivered expert lecture in various FDP and International conferences
 - o Technical committee member of various National and International Conferences
 - o Reviewer of national and international journals
 - o Principal Investigator of Two projects sponsored by Department of Science and Technology
- **Dr. N.S. Raghava**, Associate Professor, IT is the awardee of 2nd CCI Technology education excellence award.
- **Dr. Mohan Singh Mehata**, Assistant Professor, Department of Engg./Applied Physics was awarded the visiting scholarship for the year 2013-2014 to work at Dalian Institute of Chemical Physics, Dalian, China; he has established Laser-spectroscopy laboratory in the Department of Applied/Engg. Physics with high resolution equipment.
- **Dr. Neeta Pandey**, Assistant Professor, ECE:
 1. External expert in syllabus revision of GGSIP University
 2. External expert for the technical cum justification committee IG-DTUW
 3. Member, Course Review Committee Amity University
 4. Reviewer of various reputed international journals and conferences.
- **Mrs. Saroj Bala**, Assistant Professor, Department of Humanities received the Dr. Ambedkar Fellowship National Award by Bharatiya Dalit Sahitya Academy on 9th December 2012
- **Mrs. N Jayanthi**, Assistant Professor, ECE became the Co-Principal Investigator for a DST Sponsored Project on “Development of OGC standards based sensor network for Intelligent traffic management”; Amount: Rs. 20 Lakhs; Duration: 36 Months.
- **Dr. Saurabh Mehta**, Assistant Professor, Dept. of Applied Chemistry was awarded the CREST Fellowship by the Dept. of Biotechnology, Ministry of Science & Technology, Govt. of India. He has been pursuing the research in the areas of “Bioinformatics” and “Computer Aided Drug Design” at the Center for Computational Science, University of Miami, Florida, USA (since Jan. 2014).
- **Dr. Rishu Chaujar**, Assistant Professor, Dept. of Engineering Physics received Certificate of excellence by education expo for excellence in professional education and industry at 2nd ACADEMIC BRILLIANCE AWARDS- 2014 and is an Advisory Board Editorial Member, Journal of Electronic and Electrical Engineering(2013-Till Date).
- **Dr. Pravir Kumar**, Associate Professor, Biotechnology:
 1. Associate editor, Journal of Alzheimer’s disease (IOS press), USA Impact factor: 4.17 (2014)
 2. Lead guest editor on a special issue, Parkinson’s disease (Hindawi publication), USA; Impact factor: 2.02 (2014)
 3. Editorial board member: International Journal of Neurology Research, Hong Kong (2014)
 4. Editorial member: Austin Journal of Biotechnology & Bioengineering, USA

Research Papers *published or presented*

- **Dr. Rachna Garg**, Associate Professor, Electrical Engineering:
 - o Research papers : 2
 - o International conferences :3
 - o National conferences: 2
- **Dr. Pravir Kumar**, Associate Professor, Biotechnology published 6 research papers.
- **Dr. Rajeshwari Pandey**, Assistant Professor, ECE:
 - o International journals: 02
 - o International conferences: 07
 - o Reviewed International conferences: 02
- **Dr. S Indu**, Associate Professor, ECE published 6 research papers in International conferences.
- **Dr. N.S. Raghava**, Associate Professor, IT:
 - o International Journals: 8
 - o National Conferences: 2
- **Dr. Neeta Pandey**, Assistant Professor, ECE:
 - o International Journals: 3
 - o International Conferences: 10
- **Dr. M Rizwan**, Associate Professor, EE published 6 research papers in various international journals.
- **Dr. M.S. Ranganath**, Associate Professor, PIE published 11 research papers in International journals.
- **Dr. S. Anbukumar**, Assistant Professor, CE published 2 research papers.
- **Mrs. Saroj Bala** published 1 research paper and presented two of her papers in International conferences.

Participation in Workshops and Conferences

- **Dr. Rachna Garg**, Associate Professor, EE organised a one week TEQIP II sponsored FDP on ‘Recent trends in Switchgear and Protection’, 21st July – 25th July 2014, Elect. Engg. Deptt., DTU.
- **Dr. S. Indu**, Associate Professor, ECE delivered lectures in the following events:
 - o International Conference : ICCIN 2k14 at BPIT in January 2014
 - o National Conference organized by ABES Engineering College Ghaziabad in February 2014
 - o "Real Time Applications of Sensor and Instrumentation using Lab-view and DAQ cards" in an FDP organized by ABES Engineering College in January 2014
 - o "Speech and Video Processing" in an FDP organized by Bhai Paramanand Institute of Business Studies affiliated to IP university September 2014
 - o " Digital Image Processing, Animation and Computer Vision" FDP organized by Dronacharya College of Engineering Sept 2014
- **Dr. Neeta Pandey**, Assistant Professor, ECE organized A talk on “Big Data” By Prof. Rajani Jindal, IT Department, IGIT, Delhi.
- **Dr. M Rizwan**, Associate Professor, EE organised a UGC Sponsored Short Term Training Programme STTP (Two Week) on “Integrating Renewable Energy Sources into Emerging Electrical Power Systems” to be organized December 8-20, 2014.
- **Dr. Madan Mohan Tripathi**, Associate Professor, EEE delivered key note address on "Smart Grid: Communication & Cyber Security Challenges" at 11th International Conference on Wireless & Optical Communication Network at K L University, Vijayawada, on 13th September, 2014.
- **Dr. Dinesh K. Vishwakarma**, Assistant Prof, ECE, DTU was invited to deliver an expert talk and session chair at a 2 day National conference at Golgotia Institute of Engineering and Technology, Greater Noida UP, 20th to 21st February 2014.
- **Dr. Saurabh Mehta**, Assistant Professor, Dept. of Applied Chemistry participated in a poster session where some of his research on “Ligand-and Structure-based Virtual Screening to Discover Dual EGFR and BRD4 Inhibitors” was presented at Annual Sylvester Cancer Research Poster Session, Schoninger Research Quadrangle, University of Miami, Miller School of Medicine, Miami, Florida, USA (May 23, 2014).

Programmes and Workshops attended

- **Dr. S. Anbukumar**, Assistant Professor, CE attended
 - > Short Term Courses : 4
 - > FARO 3D User Conference 2014, at The Ashok Hotel, New Delhi.
- **Dr. S. Indu**, Associate Professor, ECE attended:
 - > Short Term Courses and training programmes : 2
 - > Synopsys University Symposium.
 - > One Day National Workshop on "Analog IC Design".
- **Dr. Rachna Garg** attended
 - > Short Term Courses : 2
 - > Annual meeting of Nomination Committee of IEEE Power Electronics Society, Pittsburgh, USA.
 - > Workshops : 1
 - > International conferences : 1
- **Dr. M Rizwan**, Associate Professor, EE :
 - > Short Term Courses and training programmes : 2
 - > Faculty Development Programme : 1
 - > Management Development Programme : 1
- **Dr. Pravir Kumar**, Associate Professor, Biotechnology participated in :
 - > Faculty Development Programmes: 3
- **Mrs. Saroj Bala** attended
 - > Short Term Course : 1
- **Dr. N. Jayanthi**
 - > Short Term Course : 1
- **Dr. Ruchika Malhotra**, Associate Professor, Software Engineering attended
 - > Short Term Courses and training programmes : 2
 - > Synopsys University Symposium
- **Dr. Jeebananda Panda**, Associate Professor, Department of ECE
 - Short Term Courses : 1
 - Faculty Development Programmes : 2
- **Dr. Rishu Chaujar**, Assistant Professor, Dept. of Engineering Physics:
 - > Faculty Development Programme : 3
 - > Attended a One Day Seminar cum Workshop on nano-simulation.
 - > Short Term Training Programmes : 2
 - > Synopsys University Symposium.
 - > Seminar on Social Infrastructure.
- **Dr. Rajeshwari Pandey**, Assistant Professor, ECE:
 - > Short Term Training Programmes : 2
 - > Synopsys University Symposium.
- **Dr. Neeta Pandey**, Assistant Professor, ECE
 - > Short Term Courses and training programmes : 2
 - > Synopsys University Symposium.
 - > One Day National Workshop on "Analog IC Design".

IEEE DTU

IEEE DTU and IEEE PES DTU took an initiative and organized an event called "Technology for a Cleaner India". Through this event, they celebrated IEEE Day 2014, consistent with its theme- 'Leveraging Technology for a Better Tomorrow' and contributed towards the Swachh Bharat Abhiyan. In this event, students were asked to present technological ideas which could make India cleaner and can help in the initiatives taken up by the government.



They also organized an essay writing competition, which aimed to present ideas/technologies that can help to fulfill our dream of a cleaner India. Participants were required to present their ideas, possible roadblocks to execution of their idea and a solution for the problem as an engineer. This way the society dedicated themselves to the betterment of the country, and to the collective betterment of Science.

The Entrepreneurship Cell - DTU

The Entrepreneurship Cell-DTU organised a start-up visit on 11th September to **Investopad**, Gurgaon. The members of the E-Cell got an opportunity to acquaint themselves with the start-up culture and get a feel of entrepreneurial life. The members also explored the various facets of entrepreneurship: the trials, tribulations and also the jubilations. The students also interacted with the founders of various startups who're setup at Investopad and were also addressed by a number of successful entrepreneurs.



SIAM

(Society for Industrial and Applied Mathematics)



SIAM hosted a 4-day annual symposium- **Evolute**, which invited both academicians and professionals from industry. The society successfully conducted its Fresher's Event and Orientation ceremony in the month of August, marking the beginning of the academic year. The society's newly elected council will be organising discussion groups intensive to the study of Finance, Machine learning, Algorithm design and the application of data analytics.

Society of Robotics



The Society of Robotics DTU in collaboration with the ECE Department had the following highlights this semester:

- Renesas Electronics Workshop on Embedded Systems.
- Texas Instruments Analog Maker Competition.
- MoU with Texas Instruments and setting-up of a new lab under the TI University Program for national TI Innovation Challenge participants.

Students present work in international conference

Anshul Singhal and Pulkrit Aggarwal, 4th year, PSCT attended the **International Symposium on Fiber Science and Technology** (28th September – 4th October 2014) held in Tokyo, Japan for an Oral Presentation. Their work, conducted under mentor **Dr. Roli Purwar**, was based on “*Coir Based Adsorbent System for Dyes Removal from Waste Water*.” Their absorbent system provides a cleaner environment especially for a textile manufacturing industry as large as India. The symposium was organized by Society of Fiber Science and Technology, Japan.



Team UAS - DTU

UAS-DTU secured the third position overall at the recently concluded 12th Competition organized by **AUVSI** in Maryland, USA in the month of July. Annual SUAS narrowly edged out by the teams of North Carolina State University and Cornell University on overall rankings,



UAS DTU managed to come first and second in the Journal Paper and Oral Presentation rounds of the competition respectively. The team has been awarded a trophy and a cash prize of \$3850 as well. A total of 34 teams from more than 10 countries had participated in this year's competition, making it the toughest edition so far.

UAS-DTU did a complete autonomous mission including an auto take-off and auto landing with its UAV, named **Vihaan**.

Team AUV - DTU

The DTU-AUV team participated in the **17th International Robo-sub Competition** held in San Diego, California (28th July - 3rd August 2014) where it successfully demonstrated its 6th Gen. vehicle “*Zyra*”. The team has already set its sights on the 7th Gen. vehicle “*Sedna*”, with which they are trying to achieve enhanced pneumatic and electronic functionalities.



Sahitya, The literary society of DTU

Kritant Mishra, a member of Sahitya, won the second prize in the event **Drishtikon** at Antargini'14, the annual cultural fest of IIT-Kanpur. 'Drishtikon' was a Hindi literary event and the member of our team was praised for her writing skills.

Cricket Team - DTU

The cricket team of our college, led by **Karan Narang**, 4th year, CE, won the third prize at the Alfred Deaken Cricket Tournament held in New Delhi in August, 2014.

Institute of Engineering and Technology - DTU Chapter

A team of 10 students from the IET-DTU chapter represented the university at the inaugural **IET-South Asia Present Around the World conference**- organized by the IET Delhi local network- at IIT Delhi on 6th September 2014. The conference also had a paper presentation competition. The event witnessed participation from delegates from across South Asia as well as from the length and breadth of the country. The guests for the event included academicians like **Mr Vishu Gupta**, **Mr M Sri-nivasan**, **Mr Joy Desai** and **Mr N Venkatesan**. **Mr. Balvinder Shukla**, Vice Chancellor of Amity University was the Chief Guest of the event.



Pratibimb - The Dramatics Society

Pratibimb's stage play “*Kya Dilli Kya Lahore*” secured second position at IIT Delhi recently and was lauded for their performance at IIT Kanpur. “*Pehchaan Kaun*”, a street play by the society got through the prelims of Mood Indigo after competing with 40 teams.



Team Defianz Racing

Team Defianz Racing, a Formula Student team of DTU, enjoyed a successful return from **IMEchE Formula Student** event at Silverstone Circuit UK. In the Design Event in FS UK 14, the team was placed 40th overall of 110. In the cost event, the team performed even better with the 31st rank. In the overall standings, the team finished 3rd in all of the competing Asian teams.

TI Analog Maker Competition 2014

A team of 5 students comprising of **Abhijit Ray**, **Aditya Prakash**, **Gaurang Kuchhal** (all EEE); **Madhav Aggarwal**, and **Mohd. Suhail** (ECE) won the Texas Instruments Analog maker competition.. Amongst the 15 teams with students from various departments, only this team managed to complete all given tasks correctly in given time.

Each team member has won a EZ-430 Chronos - Wireless Development tool, which they intend to use in further projects.

DTU Times Team

FACULTY ADVISORS:

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

ALUMNI ADVISORS:

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

STUDENT TEAM

STUDENT HEAD:

DAMINI GOEL, 4TH YEAR, PIE

EDITOR-IN-CHIEF:

NAMRATA YADAV, 4TH YEAR, EE

GENERAL SECRETARY, HEAD OF DESIGN

AND WEB DEVELOPMENT:
GARVIT GUPTA, 4TH YEAR, EE

STUDENT ADVISOR:

ISHA GUPTA, 4TH YEAR, EE

ASSOCIATE EDITORS:

SHUBHAM SHARMA, ANKIT KUMAR, PRATEEK SINGHAL, ARADHANA GAHLAUT

ASSISTANT EDITORS:

PARAG SAXENA, 4TH YEAR, ECE

REPORTERS:

VARUN GROVER, SHREYA SHANKAR, ISHAN SHANKAR, ABHISHEK DHYANI, VISHAL GAYAKWAR, SATYARTH PRAVEEN, MOHD FAHAD, ADITYA TRIPATHI, NISHA YADAV, GARIMA MISHRA, CHIRAG ARORA, RAGHAV SHARMA, ANKUR SHUKLA, VAISAKH NAIR,

DESIGNERS:

MILIND SINGLA, SAURAV AGRAWAL, ARPIT GUPTA

TO JOIN DTU TIMES PLEASE EMAIL US AT DTUTIMES@DCE.EDU