

Newspaper Clips
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IIIT-D displays students' research

Press Trust of India

Innovative projects by engineering students of Indraprastha Institute of Information Technology (IIIT-D) on a wide range of fields including healthcare, energy conservation and online social networking were put on display at the fourth annual research showcase of the state-run institute.

Projects on display covered an entire spectrum of research in computer science and electronics domain, showcasing technologies

PROJECTS ON DISPLAY COVERED AN ENTIRE SPECTRUM OF RESEARCH IN COMPUTERS AND ELECTRONICS DOMAIN

in the field of energy monitoring, healthcare, information access, data mining, security etc.

The two-day event, which concluded yesterday, also saw tech-savvy students interacting with industry leaders and top scholars from across the country.

NBT New Delhi

यंग इंडिया का इनोवेशन

आईआईटी दिल्ली के फेस्ट में 500 प्रोजेक्ट्स होंगे शोकेस

आईआईटी दिल्ली के स्टूडेंट्स 19 अप्रैल को इस्टिस्ट्यूट के अनुएल फेस्ट में कई इनोवेटिव प्रोजेक्ट्स पेश करेंगे। इस्टिस्ट्यूट के 10वें ओपन हाउस-2014 फेस्ट में करीब 500 इनोवेटिव प्रोजेक्ट्स को शोकेस किया जाएगा। टेक्सटाइल, इलेक्ट्रिक, केमिकल, सिविल, मैकेनिकल इंजीनियरिंग के स्टूडेंट्स के प्रोजेक्ट्स को फेस्ट में दिखाया जाएगा। कुछ ऐसे ही अनोखे प्रोजेक्ट्स के बारे में बता रहे हैं राहुल मानव :



Photos : Rahul Manav

इनोवेटिव स्कूटर

यह स्कूटर और रिसिंग वाइक का कॉम्बिनेशन है। इसे बिजी ट्रैफिक से लेकर लंबे हाइवे पर जाकर चलाया जा सकता है। आईआईटी के मास्टर ऑफ डिजाइन के स्टूडेंट्स आकाश कुमार और अमोल महाजन ने एक मिड लेवल के नए स्कूटर का डिजाइन तैयार किया है। उन्होंने इसे 3 महीने में तैयार किया है। आकाश के मुताबिक स्कूटर श्री इन वन है, यह रिसिंग, क्रूजिंग और रोज की कंप्यूटिंग का काम करेगा। 175 सीसी फ्यूल इंजेक्टिड लिक्विड कूल इंजन लगा है। स्कूटर 6 गियर से लैस है। यह 25 वीएचपी की पावर देगा। इसकी कीमत एक लाख रुपये के अंदर रखने की कोशिश की जा रही है। स्कूटर में चैन का इस्तेमाल नहीं किया गया है। इंजन की टेस्टिंग चल रही है इसलिए माइलेज का पता नहीं चल सका है।

इनोवेशन का मेला

कहां : आईआईटी दिल्ली कैंपस
कब : शनिवार, 19 अप्रैल
एंटी : फ्री है



खुद रीचार्ज होगी यह साइकल

पीएचडी के स्टूडेंट दर्शन पंडित ने एक नई इलेक्ट्रिक वाइसाइकल तैयार की है जिसे आईआईटी के ओपन हाउस फेस्ट में शो करेंगे। दर्शन ने बताया है कि साइकल को चलाते हुए उसे चार्ज किया जा सकता है। साइकल की ब्रेक मारने पर बैटरी चार्ज होगी। साथ ही ढलान जैसे रास्तों से उतरते समय भी साइकल की बैटरी को चार्ज किया जा सकेगा। पीएचडी के स्टूडेंट फर्नंद बाबू और प्रोफेसर के.आर. राजागोपाल के साथ मिलकर दर्शन ने साइकल को तैयार किया है। 20 किलोमीटर से ज्यादा स्पीड होने पर इसे चार्ज किया जा सकता है।

बुजुर्गों के लिए हेल्थ केयर डिवाइस

सीनियर सिटिजंस की मदद के लिए एक डिवाइस बनाया गया है। बुजुर्गों के पैरों पर आमतौर पर बल्ड क्लॉट बन जाते हैं। इन्हें रोकने के लिए एक डिवाइस तैयार किया गया है। मेडिकल डिवाइस डीप वैन थ्रोमबोसिस (डीवीटी) नाम की बीमारी को प्रिवेंट करने के लिए बनाया गया है। इसे मास्टर ऑफ डिजाइन की सेकेंड इयर की स्टूडेंट नेहा सिंह ने तैयार किया है। नेहा ने एम्स के एक सीनियर डॉक्टर के साथ मिलकर इस मशीन को बनाया है। नेहा के मुताबिक मार्केट में ऐसी तकनीक मौजूद है और



वह काफी महंगी है। मार्केट में मौजूद मशीनें 30 से 40 हजार रुपये की हैं। नेहा कहती हैं मशीन की कीमत 10 हजार रुपये से कम लाने पर विचार किया जा रहा है।

विजली बिल कम करेगा कन्वर्टर

एसी, फ्रिज और वॉटर पंप की मोटर में एक कन्वर्टर फिट करके 5 फीसदी विजली बचाई जा सकेगी। आईआईटी के पीएचडी के स्टूडेंट

वशिष्ठ विष्ट ने एक ऐसी तकनीक को विकसित किया है जिसकी मदद से विजली की खपत को कम किया जा सकेगा। वशिष्ठ के मुताबिक



अगर एक घर में एसी, फ्रिज, तीन पंखे और वॉटर पंप, एक साल में 6500 किलोवाट आवर की बिजली की खपत करते हैं। तो इस कन्वर्टर को लगाने के बाद 300 किलोवाट बिजली की बचत होगी। वशिष्ठ का दावा है कि इससे लोगों को हर महीने 1500 से 2000 रुपये का लोगों को फायदा होने की उम्मीद है। उन्होंने प्रोफेसर भीम सिंह के साथ मिलकर इसे तैयार किया है। इसका पेटेंट भी कराया जा रहा है।

HT Mumbai

IIT-B students and faculty guard their inventions by patenting them

SAFEGUARDING CREATIVITY 89 national and international patents filed in academic year 2013-14

Apoorva Puranik

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MUMBAI: Students and professors at the Indian Institute of Technology, Bombay (IIT-B) are increasingly filing national and international patents to safeguard their technological inventions.

Till recently, academic institutions preferred publishing work in research papers, as the time and money consumed was almost negligible. However, owing to the rising infringement of copyrights and intellectual property, the number of patents filed under the premiere engineering college has gone up. In the academic year 2013-14, 89 national and international patents have been filed, as against 19 in 2008-09. In this academic year, two Indian patents and eight US patents have already been granted.

Chetan Solanki, associate professor with the department of energy science at IIT-B, has filed two patents in this academic year. Solanki, along with a team of students, has patented a technology which can clean solar power panels using the ambient moisture available.

The institute has held several seminars to create awareness about Intellectual Property

RECOGNITION FOR INNOVATIONS

A patent was filed for communication in remote monitoring systems which makes use of solar energy and mobile phone towers to channelise communication in remote areas by students from the department of energy science.

Automatic Windshield Wiper System was patented by students from the Mechanical Engineering Department which is an automatic system for wiping windshields of automobiles

At IIT-B, a number of patents have been filed in the areas of chemical synthesis, electrical and electronics, energy and environment, healthcare, aerospace etc

Department of Industrial Policy and Promotion, Ministry of Commerce and Industry highlight-



ed the outstanding IPR performance of IIT Bombay as one of the top five entities filing Indian patents applications in the field of information.

■ The solar cleaning technology panel was patented by Chetan Solanki and his team of students.

HT PHOTO

expertspeaks

"This technology works for areas with minimal water. It has been found that the efficiency of solar panels is reduced by around 40% if not cleaned regularly for more than a month. This will help save significant amount of water and maintain efficiency of the solar plant."

CHETAN SOLANKI, associate professor with the department of energy science at IIT-B

Rights and patents. In February 2014, the second International Conference on Management of Intellectual Property and Strategy was organised by IIT Bombay.

In 2009, IIT-B signed a memorandum of understanding with

'Intellectual ventures', an invention capital company based in Washington DC, for commercialisation of its patents. There have been arguments for and against this step. While the process of patenting becomes easier through the company, and it pays

the institute for licensing, along with bearing the patenting costs, the patent rights of the technology have to be handed over to the company. "Patenting is useful if someone wants to make commercial use of the technology and protect its intellectual property right.

However, if the patent rights are handed over to the company, it becomes difficult for the developer to get the license back if he wishes to commercialise it on his own," said V Ramgopal Rao, professor, electrical engineering department, who holds 25 patents.

HT Mumbai

Rise in Chinese women taking up GMAT

NEW DELHI: There has been a tremendous upsurge in women taking GMAT in China as 64% of the total tests taken in 2013 were by young Chinese women. In contrast, women made up 26% of the GMAT test takers in India.

This was revealed in the just released mba.com Prospective Students Survey in 2014, carried out by GMAC.

Gregg Schoenfeld, Director, Management Education

Research, GMAC told HT: "China's single child policy has been the most significant enabler for aiding financial security of women graduates there. The average age for females was around 25 for Indian citizens against about 22 in China. A critical factor for younger GMAT test takers in China could be their financial ability to pay for such costs."

VANITA SRIVASTAVA

Mail Today ND 15/04/2014 P-7

DU still draws a blank on teacher absence helpline



DU says it will be functional in two days but sources claim it will take few more weeks.

By **Mail Today Bureau**
in New Delhi

DELHI University's much publicised helpline service, announced more than a month ago for students to register complaints about absent teachers, is yet to see the day of light. And if sources are to be believed, it might take a few more weeks before the helpline becomes functional.

The university plans to launch a series of steps to curb the problem of absenteeism among teachers. The first step is to launch the helpline number 1065 — which was acquired by the varsity a few weeks ago. The helpline will also have a fax number, an email id and a mobile application for it using which students can complain about teachers who don't turn up for classes.

Sources said the helpline will only be 'fully functional' by the next academic session as creation of mobile

app and a unique e-mail id will take time. "The helpline number will only be functional after enough counsellors have been provided training. Other facilities like e-mail id and mobile application will take more time as it involves a lot of technical inputs," sources said.

The varsity administration officials, however, maintained that the number will be made functional in the coming few days — a promise they have been making since last few weeks. "The helpline number will be launched in a couple of days. There will be three counsellors to attend the calls. It took us a little time as we wanted to ensure that there is cross-checking mechanism so that students don't make false complaints," said Alka Sharma, DU registrar.

On the other hand, the teaching community is not very happy with the idea of such a helpline with many of them claiming that the helpline was a rebuttal from the administration over their protest against the Four-Year Undergraduate Programme. "Students can make false complaints and teachers can be targeted

for various reasons on the pretext of having received calls on the helpline number," said a teacher.

Meanwhile, Even as Delhi University Students Association (DUSU) maintains that their offices were sealed

by the varsity in response to the attack on a senior official by DUSU Joint Secretary, the DU administration on Monday rebutted the claims and said that the office was merely shifted to a nearby location.

University had announced the helpline service, which the teachers are crying foul over, more than a month ago

Mail Today ND 15/04/2014 P-24-25



PASSION FOR PRECISION: Boeing technicians working inside the nose cone of a plane.

A DREAM COURSE

With Boeing India predicting robust long-term growth, the time is just right for aspirants seeking a career in aerospace industry

By **Sangeeth Sebastian**

More than 1,600 airplanes. That's what American plane maker Boeing (the manufacturer of 787 Dreamliner) intends to sell in India by 2035. At a time when the country's aviation industry is going through a phase of operational and financial turbulence, the updated delivery figure announced by Boeing at a civil aviation show in Hyderabad last month might seem a little far-fetched. But not according to Pratyush Kumar, the company's India president and international vice-president. The IIT Delhi alumnus foresees a robust, long-term growth for the sector.

There was a time when manufacturing in aerospace was mostly the prerogative of the government. There was not much progress then. As a result, opportunities were few, says Kumar on the sidelines of a 'National Aero-modelling Competition' held at his alma mater on Saturday. Now with private players coming in, there is a huge potential for civil and defence aviation, he says.

The company is already experiencing a "shortage of skilled workforce at all levels" in the country. To address the skill gap and churn out frontline factory floor workers, Boeing has partnered with the National Skill Development Corporation.

"The skills required to work in a (Boeing) factory floor is very specialised and stringent. It is not easy for an automotive person to make a switch to avi-



6 The kind of skills required to work in a (Boeing) factory floor is very specialised and stringent. Even drilling a hole should be done in a precise and consistent way

— **PRATYUSH KUMAR**
President, Boeing India

ation. The need for precision and tolerance is very high," says Kumar. "Even drilling a small hole should be done in a precise and consistent manner," he adds.

This means candidates with a good grasp of mathematics and physics are in great demand, as a lot of fundamental principles from the two subjects are extensively applied in flight technology.

Aerospace engineering is very multi-disciplinary, says Kumar. Making an aeroplane requires an understanding of Computer Science, Electronics Engineering, Systems Engineering and Materials Engineering, he says. The Boeing president, however, is reluctant to put a number on the estimated manpower requirement in the industry but adds that the company is collaborating with vari-

WHERE TO LEARN

- Indian Institute of Science (IISc), Bangalore
- Almost all the IIT's (Indian Institute of Technology)
- Hindustan Institute of Engineering Technology, Chennai
- Indian Institute of Aeronautical Engineering, Dehradun
- Academy of Aerospace and Aviation, Indore

ous universities and research labs, including the IITs, to nurture future talent. Boeing's partnership with IIT, Kanpur, allows six students to undertake aerospace and engineering projects with Infotech Enterprises, its industry partner. The national aero-modelling contest is yet another initiative to energise young minds about aerospace, says Kumar. The event attended by over 170 teams assessed the winners in Saturday's finale on the basis of their prototype's efficiency in undertaking swift and complicated airborne manoeuvres.

NIT-K director gets second notice

Special Correspondent

The Returning Officer for Dakshina Kannada Lok Sabha constituency A.B. Ibrahim has served second notice to the director of the National Institute of Technology – Karnataka (NIT-K) at Surathkal, asking him why he should not recommend the Election Commission of India to take legal action against the director, for giving a vague reply in connection with allowing BJP leaders to campaign in the premises of the institute on April 1.

The second notice was served on April 11, the Additional Returning Officer and the Additional Deputy Commissioner B. Sadashiva Prabhu told presspersons on Monday.

Violation

At the same time the flying squad of the commission has filed a complaint of violating model code of conduct against BJP leaders Nalin Kumar Kateel, H.N. Ananth Kumar, J. Krishna Palemar, N. Yogish Bhat and Rajani Dugganna for campaigning in the premises of the institute on April 1 without permission. The complaint was registered at Surathkal police station on April 11, he said.

To a question Mr. Prabhu said that Mr. Kumar has not replied to the notice served to him earlier.

Vague reply

Mr. Prabhu said that in the second notice served to the director the Returning Officer said that the reply given by the director to the first notice was not satisfactory and vague.

The director did not clarify whether the BJP leaders campaigned in the premises or not and whether its security personnel were aware of it.

The fact that the director was not aware of the activities taking place in the premises of the institute was a “cause of concern” considering that the government institute was of national repute, said Mr. Prabhu.

District Magistrate and Deputy Commissioner of Dakshina Kannada A. B. Ibrahim has issued an order saying that legal action will be taken against those employers if they did not allow their employees to vote on April 17. The order was issued on Monday. The government has declared April 17 as a paid holiday to enable all to vote. It applied to both the organised and unorganised sector, according to the Additional Deputy Commissioner B. Sadashiva Prabhu.

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