At IIT-D, students come up with some IDEAS FOR A GOOD LIFE

250 innovations showcased at open house address everyday problems and are affordable

Nisha Pushkarna | nd

From a simple clothes drying machine and an aloe vera extractor to a friction-based page-turning machine and a single seed sower, there was something for everyone at this year's open house show at IIT Delhi. Students from all disciplines showcased nearly 250 innovations on Saturday, which, if put up commercially could make lives easier, healthier and more interesting. No wonder, school and college students, researchers and even housewives came visiting the campus that had scientific models all over in the golden jubilee year of IIT-D.

"This place has a mix of all kinds of projects. Since all of them are made by students, there is lot of freshness in ideas. I really liked the bamboo cycle and the page-turning machine as students have thought about the environment and the disabled in these projects. My 13-year-old son loved the 3D Snakes & Ladders and the chance to interact with IIT students, though," said Ranjana Mehta, who had come from Pitampura. The bamboo cycle was designed by second-year students of MDes, Dwipayun Bhattacharyaa and Shahzam Ranjan Sharma, for rural areas.

It is a hand-made cycle put together with bamboo and functional parts of a discarded bicycle. "It is lightweight and can be made at a very low cost. This one just costs us Rs 1,800 and can take 90 kg weight. It would last about seven to eight years as compared to a normal cycle, which can be used for at least 15 years," said Dwipayun. The page-turning machine, ideal for those who lose their limbs, is also a low-cost option. The machine is fitted on a table with a pointer that can be moved with just the movement of the head. "It's a compact product, which may cost only Rs 1,000," said Gunjil Kumar, who made this machine with another student, Sanjeev Sharma. It can also be used in museums where touching books is not allowed.

A ceiling fan cleaner and pedal-powered airpump was very popular among visitors. The fan cleaner enables the user to clean a fan while simply standing on the floor. It has an adjustable red with sponge and brush at the top. The red has a nozzle that can transport water to the sponge for effective cleaning of the fan blades. It has been designed by MTech students and costs just Rs 100. The airpump, made by MTech student SriKesh, is attached to the bicycle. It fills air in the tyres if the pedal is moved in the reverse direction.

Several useful ideas had taken shape at this open house, but they needed improvement to become commercially viable. The Total Garbage Collector by Aarsh Vir Gupta and his team was one such product. It's a useful device for after-party cleaning. It has a scooper that can collect the waste scattered on the floor, like bottles and cups. An acoustic modem for underwater connectivity, a knee helper for those with joint pain, and a refreshable Braille display were some other sought-after projects.

Foldable Chair

Designed for banquet halls, this chair can be folded to turn it into a portable box. Students say it can even be carried by travellers or the security guards who do not have a fixed place to sit. Its price is Rs 2,000 when made in wood. Students plan to use plastic in the improved version to bring down its weight and cost.
Open House at IIT-Delhi showcases quality research

AGE CORRESPONDENT

NEW DELHI

April 23: The Indian Institute of Technology, Delhi, (IIT-Delhi) organised Open House for the seventh consecutive year providing an insight into path-breaking research work, student projects and showcasing numerous advanced facilities and laboratories available at IIT-Delhi to public in general and visitors from industry in particular. This year’s event is special as it happens to be in the Golden Jubilee Year of the institute.

To mark the occasion, a special exhibition, “Golden 50”, showcased some of the major technological contributions of the institute in recent times.

Open House provides a unique opportunity for schoolchildren, industry personnel and general public to directly interact with IIT students and faculty.

An important display this year was the teleoperation of an industrial robot which is of use in situations where robots must be operated, controlled from a distance. Such situations particularly arise in nuclear plants where the operator has to keep away due to radiation hazards.

The students have developed a knee-helper using a spiral spring to provide additional torque to assist knees in standing.
IIT displays technology innovations

Celebrating the golden jubilee on 23 April, the Indian Institute of Technology displayed over four hundred projects of technological innovations to Delhiites. The day-long celebrations also saw seminar and interactive sessions with the school-goers and tech-savvy who visited the premises in the Capital. "We are very much encouraged by the response from the general public and a large number of industry people came to the open house. The institute feels proud in displaying its history of 50 years with the activities and initiatives taken to achieve a better future in the field of technology," said Director, IIT (Delhi), Prof Surendra Prasad.
IIT faculty getting younger by the year

Hemal Chhapla | TNN

Mumbai: Campuses across India are getting younger. Aggressive, single and idealistic were, for long, associated with students. Today, faculty shares the same space.

In the 1980s, anyone who walked into a packed class at the Indian Institutes of Technology was a grey-haired wise 60-year-old. Most had folded their crazy daily schedule and decided to settle on a leafy quiet campus in a job that didn’t come with unachievable targets of the corporate world.

Today, the age gap between a faculty and a student is closing. Recruitment records from the IIT-Kanpur show that between 1990 and 2010, the average age of freshly recruited teachers fell from mid-50s to early-30s (see box).

Now, for many the life span of a corporate job has shortened dramatically. And with teaching paying handsomely, it’s a path many are taking. Within a span of just three decades, the average age of the faculty body has halved.

At IIT-Delhi, said its director Surendra Prasad, “There were 24 teachers below the age of 35 in 2006; in 2011, there are 43. In all, 123 faculty members on campus (a little more than 25%) are below 40 years.”

A typical teacher’s definition has changed: he, too, is from the Tweeting and Facebooking age. At IIT-Guwahati, for one, the average age of faculty on campus is 38; it’s 32 at the IIT-Madras campus.

“There has been a change in the culture on campus, just like there has been in society in general. The younger faculty are a lot more demanding of their students,” said M S Ananth, director IIT-Madras. Close to half the recently recruited teachers from the IIT system, many of whom went abroad to pursue a PhD and came back to teach.

Clearly faculty blocks are cleaved into two blocks — the old timers who are holding the institutes flag and the younger lot that is aggressively into publishing and setting their own new reference points.

As IIM-Ahmedabad’s dean (faculty) Ajay Pandey noted, “Today you see a lot of youngsters in IIM campuses across the country. Their values are different but there isn’t a clash. Of the 90 faculty members here, about 20% are below the age of 35.”

Himanshu Rai joined IIM-Lucknow at 35. After graduating from IIM-Ahmedabad, he spent time at Tata Steel, but gave up the corporate profile to do “something intelligent”. “I don’t want a fancy car; a safe vehicle is just fine. I couldn’t devote much time to pursue my vision with a job like that; hence teaching. And I am happy here,” he said.
New Delhi: As the Delhi Police prepares a supplementary sheet in the present case, the final report of the ITI-Delhi committee on the collapse of the building was submitted to and policed, and the report concludes that the building was already in a "critical condition" prior to the collapse and waterlogging aggravated the situation.

According to the report (CTI) has access to relevant documents, the structure was being built structurally weak and the material used in its construction was of poor quality. Sources said the report has been submitted to police and will be made public.

The report states that one of the support beams on which the building stood collapsed due to excessive pumping to remove stagnant water. Earlier, several experts had claimed that the structure was built on excessively sandy soil, which was eroded while pumping out water.

In March 2011, the crime branch had submitted all papers — including the detailed charge sheet and the other findings of the Lalita Park house collapse incident in the form of an affidavit to the fact-finding commission set up to govern the probe to the building, which had claimed 71 lives.

"We will file a supplementary charge sheet and even a supplementary affidavit after we analyze the Lalita Park report submitted by the ITI-Delhi committee," said a senior investigating officer.

The officers probing the incident said the investigation's findings have revealed that there were gross violations on part of the chief accused Amritpal Singh. "We have found that the soil condition was weak to support the structure. There was absolutely no system to drain out rainwater. However, all this will become clearer once we analyze the report," said the officer.

Cops said the National Disaster Management Authority (NMDA) has also submitted its report on the measures to be taken to avert such a tragedy from recurring in the area. "We plan to file the final supplementary charge sheet in the next 15 days," added the investigating officer.

Crime branch had earlier filed a charge sheet against the owner of the building, Amritpal Singh. "He had illegally built a 25 m high building with several structural defects in a residential colony in violation of the building laws," said the officer.

While 71 people lost their lives, over 100 people were injured when the building in east Delhi collapsed around 8.15 pm on November 15, 2010. Most of the tenants were inside when the incident took place. After the incident, a blame game ensued between the Delhi government and Municipal Corporation of Delhi (MCD). The report of the judicial probe ordered into the incident is pending. Sources in crime branch said that tests of both the soil and concrete proved that safety was "compromised". The cops, though, remained tight-lipped about the findings.

In the charge sheet filed by the inter-state cell of crime branch in Karol Bagh court, Singh has been charged under Section 304 (culpable homicide not amounting to murder) and Section 324 (voluntarily causing hurt by dangerous weapons).

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The court has also charged Singh under Section 16 of the Indian Penal Code, which deals with the murder of a public officer in the discharge of his duty.
DU teachers get support from overseas

New Delhi: A week after 11 teachers from Delhi University’s English department were served show-cause notices by the registrar, academicians from all across the world expressed solidarity with them by writing an open letter to the vice-chancellor. On Saturday, they shot off a letter to the DU V-C urging him to ban all ‘coercive’ measures against teachers in the university. The letter was sent on behalf of 115 academicians from various universities including Oxford University, Columbia University, University of Cambridge, University of California and University of Chicago.

The letter stated, “Some recent events brought to our notice have taken us by shock. We are alarmed by reports about coercive and intimidating measures adopted by the university that damages free debates in decision-making bodies and in the academic community. Apparently these include keeping records of which way university teachers vote on vital issues and the regular deployment of security personnel, including plainclothes men, to monitor routine academic meetings.”

The academicians further stated in the letter that they were particularly distressed by the issuance of show-cause notices to some teachers in the English department whose demand for a department council meeting had met with consistent refusal from the head.

“We are especially troubled since the colleagues who have been issued show-cause notices are widely respected scholars in their discipline, and teachers and intellectuals of high repute. It is a sad day when university authorities seek to quell dissent by the threat of punitive action.”
India ranks 14th on list of 37 in internet freedom

New Delhi: In its latest report on the state of Internet Freedom Index - a US-based organisation monitoring democratic changes, human rights and freedom of speech - ranked India 14th among 57 countries that were assessed on the basis of free and unrestricted access to the web.

According to the report, the internet is only “partly free” in India - even though there is no substantial political censorship, bloggers and online users have been arrested in the last two years. Among Asian countries, India ranks second.

The country scored 36 on a scale of 100, South Korea (80) topped the continent. In 2009, India’s score was 31.

“The internet blogosphere is quite active and tolerant, complementing the role in Internet use by different interest groups and civil society actors. Bloggers are not forced by the government or private individuals to take down their writings, but there have been a few instances in which this has occurred,” the report says.

It specifically makes an example out of Lakshmi R. Subramanian. “He was charged for 30 days for allegedly defaming an Indian historical figure, but it later emerged that another person had posted the material, and Subramanian was arrested based on the basis of an incorrect IP address,” it cites.

“In the past, instances of the central government seeking to control communication technologies were relatively rare. However, following the November 2008 terrorist attacks in Mumbai and with an expanding Maoist insurgency, the need, desire, and ability of the Indian government to control the communications sector have grown,” the report states. “Pressure has also increased on private intermediaries to remove certain information. Though most requests have targeted comments that might incite communal violence, some observers have raised concerns of certain removals being unnecessary.”

As far as global trends are concerned, in democratic countries like Thailand, India, Indonesia, South Korea, Turkey, and the UK, internet freedom is increasingly undermined by legal harassment, opaque censorship procedures, or expanding surveillance.

“The new internet restrictions around the globe are partly a response to the explosion in popularity of advanced applications like Facebook, through which users can post content,” the report says.
Hindu Chennai 22.04.2011 p-4

"India has to overcome hurdles to capitalise on opportunities"

Tata Steel official lists social unrest, skill shortage

ALL ATTENTION: (From left) G.K.Pillai, Union Home Secretary, B.Muthuraman, vice-chairman, Tata Steel; and M.S.Ananth, Director, IIT-Madras, at the 52nd Institute Day celebration held at IIT-Madras on Thursday. - PHOTO: S.R.RAGHUNATHAN

Special Correspondent

CHENNAI: India has to overcome the challenges of infrastructure deficit, governance and social inequities to fulﬁl its aspirations on the world stage, as the mere presence of post-meltdown opportunities cannot guarantee success, B. Muthuraman, Vice-Chairman, Tata Steel, said on Thursday.

Addressing the 52nd Institute Day celebrations of the IIT-Madras, Mr. Muthuraman said the economic rebalancing that the world was undergoing after the global meltdown presented India with tremendous opportunities. India also had a demographic advantage in its considerable proportions of youth and many of its companies, especially in IT and manufacturing, were doing well.

"However, the mere presence of opportunities cannot guarantee success. We need to overcome many challenges to capitalise on the opportunities," Mr. Muthuraman said.

He pointed out that 30 years ago, Latin American countries such as Argentina were on the threshold of fantastic opportunities for growth and wealth creation that India found itself now.

However, those countries had fallen behind and many were faced with social disquiet, he said.

Three challenges

According to Mr. Muthuraman, the three fundamental challenges that India was faced with were the social unrest in parts of the country that was rooted in unequal opportunities, skill shortages in some areas and bad governance.

Addressing the issue of unequal opportunities that was fuelling unrest - and even driving away investments - was not the mandate of the Government alone but required industry to adopt affirmative action, he said.

Pointing to the dearth of low-end skills, Mr. Muthuraman wanted the IIT graduates to persuade their future companies to implement skill development programmes that went beyond the corporate requirement.

He also identiﬁed as a serious challenge the issue of bad governance which impeded growth and discouraged investors. He wanted the graduates to look up to outstanding people and industrial organisations that had succeeded while sticking to the principles of good governance.

M. S. Ananth, IIT-M Director, listed some of the high points of the previous year that include a technical festival that had a record 60 competitive events, extra mural lectures by distinguished experts and the 45th Film festival. 'Turning to the Tata Steel Vice Chairman, Mr. Ananth quipped, '...and we also teach at the IIT'.

Awards presented

Prof. Ananth later presented Distinguished Alumnus Awards 2011 to Home Secretary Gopal Krishna Pillai; Carnatic vocalist Sowmya, Jayant Udgam, TIFR scientist; Vijay Kumar, Senior Associate Dean, Massachusetts Institute of Technology; M. G. Venkatesh Mannar, pioneer of microcrystals initiatives; Hota Ganga Rao, lead scientist at West Virginia University, US; K. Sridharan, founder of Sankar Eye Foundation, US, and V. S. Sunder, mathematician. In their acceptance speeches, the alumni paid tributes to the faculty, fantastic mentors who helped make defini
ing career choices and peers whose academic excellence kept raising the bar.
नायाब प्रोजेक्ट देखे दिल्ली ने
आईआईटी : ओपन हाउस मनाया गया कैंपस में

नगर संवाददाता || आईआईटी

‘दी इंडियार्स’ के उन्नी ने हर स्कूल में कुछ नया करने का जुल्गा है, कुछ ऐसा जिससे न सिफर देख और समाज का भला हो बालक एवं बालिकाओं को होने वाला नुकसान भी कुछ कम हो सके। आईआईटी दिल्ली के स्कूलेस के प्रोजेक्ट में जिद्दी की छोटी-छोटी जहाजों से लेकर धारी का बचने को कार्यालय दिखता है।

इस छुट्टी आईआईटी दिल्ली अपनी 50वीं सालगिरह मना रही है। इस छुट्टी से इस साल का ओपन हाउस भी काफी रूप स्तर पर हुआ। इससे स्कूलेस के बनाए हुए करीब 250 से ज्यादा प्रोफेसर डिस्पलेज फिरे गए। शायद ने नसिबतार की आईआईटी कैंपस पहुँचे लोगों ने न सिफर इन प्रोजेक्ट को देखा बालक इसमें छूटी तकनीकों को भी समझ।

खासकर स्कूल स्कूलेस के लिए यह एक बड़ा हो खास माना था। आजलिए स्कूलेस साइंस से दूर होने जा रही हैं, उसमें साइंस का चार्म घट रहा है। लेकिन यहां आजलिए स्कूलेस ने इस बात को समझ कि साइंस में भी एक अच्छा कारण बनाया जा सकता है। यहां दिखाए जाने वाले इंस्टीट्यूटिक प्रोजेक्ट को देखकर स्कूलेस ने संचार के माध्यम को भी समझा। आईआईटी में मिसाँविकल शर्ड हाई के स्कूल स्कूलेस क्षितिज ने बताया कि साइंस में लंच रखने वाले के लिए आईआईटी दिल्ली का ओपन हाउस एक अच्छा मौका होता है।

इस छुट्टी में होने वाला फेस्ट तो इंडिया के बेहतरीन फेस्ट के तौर पर जाना जाता है लेकिन ओपन हाउस भी हमारा टेक्निकल फेस्ट होता है जिसमें स्कूलेस को अपनी प्रतिभा दिखाने का मौका मिलता है। अन्य की ही नहीं जानना एवं संचार को जानने का मौका मिलता है। --जिमिट्जेस

इस बार गोल्डन जुबलरी सॉल्ट़रेशन भी था इसलिए ओपन हाउस भी काफी ग्रैंड स्टेज पर हुआ। इससे सामने यह पहला ओपन हाउस है, इसकी खास बात यह लगती है कि स्कूल स्कूलेस की साइंस को जानने का मौका मिलता है।
चमककृत करते हैं आईआईटी छात्रों के आविष्कार
आईआईटी के बैंड ऑपन हाउस इनवेन्शन 2011 में शिक्षिक को छात्रों के करीब 250 छोटे-छोटे आविष्कारों की डिजाइन प्रदर्शित प्रणाली नि:शुल्क - नई दिल्ली

आईआईटी के बैंड ऑपन हाउस इनवेन्शन 2011 में शिक्षिक को छात्रों के जितकरीक आविष्कार देखने को मिली। यह आईआईटी के छात्र-छात्राओं की नसीब गई समाप्त चौराहों में जो ऐसे आविष्कार दिखे, विस्मय को बना कही जा सकती है।

एप्ल सॉफ्टवेयर मशीनी को बनाने वाले दो छात्रों ने प्रेक्षण और विश्वास बनाने वाले उदाहरण में एक ऐसा आविष्कार दिखाया जिसे सबसे बड़ा समाप्त चौराहा में वापस देख रहे मिलेंगी।

साइबरिकल प्रतीक : बॉलिवूड में हाल ही टेलिविजन द्वारा टेलिस्कॉप द्वारा देखा गया है। यह आईआईटी के छात्र-छात्राओं की उच्चतम स्तर की शीर्ष अंग्रेजी के विद्यार्थी के द्वारा देखा गया है।

बास का इलेक्ट्रॉनिक गिस्टर : सगड़े के विशेषण संचालन, विश्वास और विराम ने एक ऐसा इलेक्ट्रॉनिक गिस्टर का आविष्कार किया है, जो बास का बना है और नई दिल्ली में काम का लगातार इलेक्ट्रॉनिक गिस्टर का तुलना में विशेष विश्वास और विराम को उन्नत कर देता है।

टीसीईस का इंदौर आचा तय, पसंद आई सो एका जमीन
आईआईटी लैक्टर में पहली बार बिजलीपत्र पर मौजूदी दर्शन करना शार, आईआईटी के स्टूडेंट्स के मिलेंगा फायदा

शाकिक न्यूज़, इंदौर

टीसीईस नेशनल लैक्टर (टीसीईस) ने इंदौर में अपना प्रोफेसर लैक्टर पर मौजूदी का तय किया। टेलिस्कॉप के द्वारा इंदौर के छात्रों के लिए मिलेन ने मौजूदी का दर्शन दिया।

सूपर कॉन्फ्रेंडेंस के समीक्षा 100 एकड़ भूमि में यह प्रयोग किया गया। इंदौर के संग्रहालय के लिए स्थापना श्रेष्ठता में विचार करने वाले के लिए मिलेन का विचार किया।

शिक्षक के प्रसंस्कार के सीधे अंकन में तैयारी करने वाले के लिए मिलेन की शीर्ष अंकन का विनिमय किया।

सरकार के अंदर देखने की आवश्यकता को प्रिस्किए

थीसीईस का ईंदौर आचा तय, पसंद आई सो एका जमीन

आईआईटी लैक्टर में पहली बार बिजलीपत्र पर मौजूदी दर्शन करना शार, आईआईटी के स्टूडेंट्स को मिलेंगा फायदा

थीसीईस - एक जल्द में

2012 में संडर शुरू करेगा

कंपनी ने इंदौर में प्रोफेसर लैक्टर का तय किया कर दिया। कंपनी के द्वारा 100 एकड़ भूमि पर आई सो करना है। प्रयोग के यहिन्दी भाषा में परिवर्तन किया गया है। इंदौर के छात्रों के लिए यह उपयोगी ग्राहक की तिमाही है।

थीसीईस के नेशनल लैक्टर के प्रथम वाक्य का दर्शन दिया। इंदौर के छात्रों के लिए यह उपयोगी ग्राहक की तिमाही है।

थीसीईस के उपरोक्त स्टोक फॉक्सपॉल और दीवरी स्टोक एकलाई में प्रिस्टिल होने के अलावा आईआईटी लैक्टर की मूलभूत विश्लेषणों में ही सक्षम है।