## <u>Newspaper Clips</u> October 28, 2011

Economic Times, ND 28/10/2011 P-8

## **IITs Dangle Carrots** to Attract Faculty

**LURING TALENT:** Institutes beef up infrastructure, offer better salaries, training & mentoring, and research opportunities to meet faculty shortage

#### **Getting Future-ready**

#### IIT Bombay •

THE INSTITUTE will invest ₹300 crore in the next three years to enhance and augment its current infrastructure with 180 new faculty apartments, lab space, new academic blocks for computer biotechnology and energy sciences

#### IIT Delhi

THE INSTITUTE is trying to create opportunities for teachers' spouses, who are qualified, in incubation and entrepreneurship centers as technical staff or wherever there is vacancy according to their eligibility. It is building a new housing block of 120 flats for faculty plans to set up a central research facility that will house the biggest projects across domains at a cost of ₹40-50 crore

#### IIT Hyderabad •

THE INSTITUTE has investee ₹40 crore in building R&D infrastructure in the last two years to help provide young PhDs and Post Doctorates as faculty, a good research environment. It is coming up with a state-of-the-art campus by 2013 with modern housing facilities for faculty members

#### IIT Gandhinagar •

PhDs and post doctorates across institutes abroad to convince them about new opportunities at the institute. IIT Gandhinagar is hosting a conference in December where 70 PhDs and Post Doctorates will discuss how IIT-Gn can become world class. It is also offering approximately 25% higher salary to new joinees with the help of donations it receives



SHEYVA BISWAS
NEW DELH

The IITS might not have reached the sanctioned strength of faculty members to make an ideal report card of 10:1 students-teachers ratio post the capacity expansion, but they are doing all they can to attract best quality talent to their campus. Be it IIT-Delhi (IIT-K) or new IIT's like IIT-Gandhinagar (IIT-K) or new IIT-K or new II From investing in and beefing up the infrastructure in R&D, housing, helping crateopoportunities for the spouses of faculty members, providing lump sum grants for young faculty for research, building news state-of-the-art sports complex for new state-of-the-art sports for such states are leaving no stone unturned. As a result, fresh PhDs and post doctorates have started joining the system from some of thebest institutes of the world including ITS, Indian Institutes of Science and universities and institutes of the absolute of Technology, Max Planck institute, Germany, University of Bilnois, Massachusetts Institute-of Technology, Max Planck institute, Germany, University in prefat College, London, UK.

"Incentives like these do a world of good in attracting best talent. It is a concerted effort over a period of time that shows results in the state of the standard pack-pressure to the

Kanpur, "There has to be aggressive hiring, but not at the cost of quality It is extremely essential to see that the candidates we hire have great potential, has done some quality research work and is adeptatteaching at institutes like ITLs." Starting next January, the institute will offer a joining bonus of Rs 15,000 per month for the first three years to young faculty members. For encouraging research, it has been offering a one time grant of Rs 25 lakh to fresh joinees along with a faculty fellowship of Rs 15,000 per month for three years for the best faculty on campus. And all this in addition to their salaries.

PHOTO: BLOOMBERG

## IIT COACHING **CENTRES PLAY** A BOARD GAME

As IITs plan a change in their entrance examination, coaching centres tap schools to stay in business

KALPANA PATHAK

ith the Indian Institutes of Technology (IITs) working out the nitty-gritty of the format of a new Joint Entrance Examination (JEE), IIT coaching centres are also firming up their course of action to ensure that their business does

not surier:

Kota-based Career Point Systems, for instance, will launch a school curriculum coaching division and also look at partnering sion and also look at partnering with school to train students on campus. "Seeing the kind of shift the regulatory framework might bring in, we are looking at incorporating some changes in our business model," says Pramod Maheshwari, the chairman and managing director of Career Point Systems "We are gearing up to onen tems. "We are gearing up to open a school curriculum coaching dia school curriculum coaching di-vision by the next academic year. So far we have been preparing stu-dents for competitive exams, but now we have decided to partner with schools and prepare them for board exams too, "he adds. Coaching institutes say they pre-pare students for high-end exami-ration and though the ITE," move-

pare students for high-end exami-nation and though the IITs' move will reduce the students' depend-ence on them, the impact will be short-term. "The changes may im-pact the business for the initial two



THE WORLD OVER, ADMISSIONS ARE BASED on your overall academic ance. Unfortunately, that logic has been reduced to lip service and needs to be resto

years, but things will be back to nor-mal later," says Maheshwari. "Even today the majority of 12th standard students take tuition. Coaching institutes will now focus more on teaching students in a way that they secure more marks in the board ex-amination as well as in the aptitude tests. Aptitude tests like SAT,

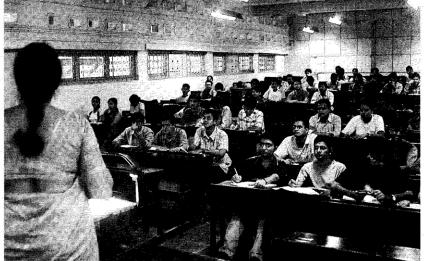
GMAT or CAT require a certain kind of training which coaching in-stitutes have been providing," adds another director from an IIT-JEE

coaching institute in Nagpur.

Last month, the IIT council accepted the recommendations of the T Ramaswami committee re-port on JEE reforms and also proposed a single entrance test for all engineering colleges, including IITs, National Institutes of Tech-

IITs, National Institutes of Tech-nology and private institutions. The IITs say a notification will be issued in a couple of months which will give details of the for-mat to be followed by the IITs while considering a student for a seat — whether to give 50 per cent or 60 per cent weightage to the board exams and the rest to IIT-

JEE scores.
There is, however, a slight confusion and uncertainty about the tusion and uncertainty about the new HIT-JEE pattern that will be put in place in 2013. "Two years down the line, HIT-JEE might be an aptitude test. The details, howev-er, would be made available only after a formal notification in Janu-ary 2012," says the director of an IT they does not used to be award. "We who does not wish to be named. "We have also agreed that the weightage for the board exams would apply to all subjects and not a select few. We decided to implement the new sys tem in 2013 because there will be logistical constraint and feasibility issues," he says, adding that they



File photo of IIT-Bombay, Industry experts feel that in the race to make it to these coveted institutes, students neglect school education

Over a decade ago, English and engineering drawing, too, were part of the IIT-JEE examination. part of the IIT-JEE examination. IITs would even accept state board toppers directly, informs an IIT di-rector. Four IIT directors Business Standard spoke to said that the change in the IT-JEE format is the need of the hour.

"The Chandy committee report had brought out the fact that there is a correlation between school per-formance and HT performance," says a director. "Today, because of the culture of coaching classes, the schooling system has been thrown out of the window to such an extent that students are not even attend-ing school because of the pressure of such training programmes. We

now have 15 months to get the new hope this will change that," the di-

IIT directors concur that when students graduate from elemen-tary to secondary school, the ele-mentary school performance is tak-en into account. And, when one goes from secondary to higher sec goes from secondary to nigner sec-ondary, the performance in the sec-ondary school is considered. Sim-ilarly, when one graduates from the secondary school system to the ter-tiary system, that score needs to be

taken into account.
"The world over, admissions are based on your overall academic performance. Unfortunately, that logic has been reduced to lip serv-ice and this causes all kinds of aber-ration in the education system, which needs to be restored," says an IIT director.

Industry experts feel that exams like IIT-JEE have been causing difficulties at the school level because these have shifted the focus from school education. Students do not attend school and instead go to these coexising institutes.

these coaching institutes.
"Today, school education and "Today, school education and board exams are getting neglected due to the pressures of the coaching class," says Gautam Barua, director, ITT Guwahati. "Students focus only on physics, chemistry and biology and don't learn geography or English which are subjects brutchts acked The pariotists who taught in schools. The ministry has, therefore, convinced the IITs to consider school education in IIT-" adds Barr

While the IITs have given an in-principle approval for the change, the final decision will be taken by

the IIT-JEE Committee in January

IIT-JEE, say IIT directors, has IIT-JEE, say IIT directors, has become a craze among students largely because of the high-paying jobs one lands after an IIT degree. The directors say it will be an uphill task to bring in changes in the pattern. First, a mechanism will have to be put in place to normalise the school results by the numerous boards which the Indian education system follows.

While IITs believe that the changes in JEE will bring the fo-

changes in JEE will bring the fo cus back on school education, coaching institutes argue that with the standard of teachers in schools not up to the mark, that idea apears farfetched.
(With inputs from Vinay
Umarji in Ahmedabad)

Busines Standard ND 28/10/2011

## IIM-C widens its net to catch more students

VINIT KONERU Mumbai

Every year over 200,000 students take the CAT examination aiming to join the premier management institutions, but only about 3,000 make it. Some enter the IIMs, a few more join other premier institutes like IMS, FMS and others. Those who do not clear the examination settle for other

THE INSTITUTE

internet-based courses

online education in real

time. It says these will be

which will enable an

as good as a full-time

IS OFFERING

private management institutions, or foreign universities, or choose a different profession.

Here is an opportunity for those others to look at online courses offered by the top management the country.

Calcutta,

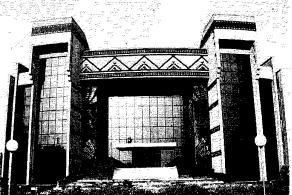
campus course which is celebrating its golden jubilee this year, declared an ambitious fiveyear plan to reach out to more students. The institution has already started offering online courses on management, and plans to do this in full measure. "We are the only institute of this repute, 10 per cent of whose

revenue is generated through online programmes," says Shekhar Chaudhuri, director of IIM-C

The institute presently houses 462 students. Its strength can be increased to 700 in the coming years. "Yes, we are developing infrastructure to accommodate more students, and our target is to take 500 students this year. But how far can we increase the

strength? We cannot accommodate the thousands of students taking the examination," says Ajit Balakrishnan, chairman of the board of governors of HM-C. "It is not economically viable. [On the other hand,] we can certainly educate thousands through online courses."

There are always apprehensions among students that online courses are not as effective as full-time cours-es. But here IIM-C is offering Internet-based courses which will enable an online education in real time. They will be in no way inferior to full-time



IIM-C faces the pressures of a traditional institute but is looking to technology and the Internet to hold on to its lead. COURTESY IIM-CALCUTTA

campus courses, says Chaudhuri. "We its campus every year, plus about designed the courses so that the candidate will also be visiting the campus for a few days to learn," he adds.

4,500 through its distance programmes. With the introduction of Internet-based models the institute is IIM-C has about 600 students on expecting to add 2,000 more students agement studies.

this year, and reach out to 5,000 more students in coming years. "The courses offered online are socially motivated to reach out to different geographies and different sections of people who would otherwise miss a quality education," says Sougata Ray, IIM-

To address the woes of the manufacturing sector, which complains that the best management people enter the service sector, HM-C is offering a programme titled "Visionary Leadership in Manufacturing," in collaboration with IIT-Kanpur and IIT-Madras.

The institute is also planning to develop a one-year Advanced Teachers Management programme, that will help institutions across the SAARC region to enhance the quality of their management faculties

These teachers will also participate in doctoral programmes at the institute.

IIM-C will also tie up with other universities, foreign and Indian, to develop a diverse faculty and student body. It aims to become an international centre of excellence in man-

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## **New Director at HPL**

Mukesh Rohatgi has been appointed as Independent Director on the Board of Hindustan Prefab Limited, a CPSE under Ministry of HUPA. An HT Delhi Alumni, Rohtagi is ex-CMD of Engineers India Limited (CPSE) and also held the post of Director (Refineries) in Bharat Petroleum Corp. Ltd.

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## Tripartite agreement for solar energy development

A tripartite Memorandum of Collaboration (MoC) was signed between Indian Oil, BHEL and IIT-Rajasthan to work in the Research and Development of solar energy technologies with the objectives to jointly carry out basic research, performance

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# Man-made blood is here, transfusions 2 yrs away

## Breakthrough To Cut Shortages, Save Millions Of Lives

London: British scientists have developed artificial blood in the laboratory which they say is just two years away before being used in transfusions and saving millions who die every year due to blood shortages.

Heart transplant, bypass and cancer patients would also benefit from having a guaranteed supply of blood on hand for their surgery, said the scientists behind the "holy grail" of blood research.

According to them, the manmade blood, created from stem cells, would be free of infections that have blighted natural supplies and could be given to almost everyone regardless of blood group, the Daily Mail reported.

In the research, a team from the Edinburgh and Bristol University made thousands of millions of red blood cells from stem cells—"master cells" seen as a repair kit for the body—taken from bone marrow.

But with the average blood transfusion containing 2.5 million million red blood cells, this is not enough. Cells taken from human embryos in the first days of life are easier to multiply in large numbers, but the researchers have so far not managed to make such realistic blood.

If they crack the recipe, just one



Synthetic blood, created from stem cells, would be free of infections

embryo could provide all the cells ever needed for Britain's blood supply, the researchers said.

Professor Marc Turner of Edinburgh University hopes to make a supply of cells with the Onegative blood type. This "universal donor" blood could be given to up to 98% of the population.

A supply of safe blood would also be a boon in developing countries, where thousands of lives are lost to conditions such as hemorrhages after childbirth. Prof Turner predicts that in two to three years, he will be ready to inject a teaspoon of man-made blood into healthy volunteers in the first trial in the UK.

Trials would follow, but the blood could be in routine use in a decade, the researchers said. Within 20 years, it may be possible to produce two million pints of artificial blood a year —enough to satisfy the UK's medical needs. PTI

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### 'The 1000 Genomes Project can't become a basis for discrimination

Eric Green, director of the US
National Human Genome Research Institute, has played a key
role in research aimed at decoding the human genome. He is now
involved in the '1000 Genomes'
research project which collects,
studies and profiles the genetic
maps of several diverse population groups, this complex data's
destination being the public
domain. Green spoke with Smita
Pandey about the genetic research project, the vital contributions it aims at - and managing
possible drawbacks around it:

■ What is the '1000 Genomes Project'?

The 1000 Genomes Project aims to study the genetic maps of 2,500 people from 27 populations around the world. The first phase was to sequence and genotype 1000 samples that were available. The goal is to find most human genetic variations, which will then be used to discover diverse genetic

contributions to health and disease. The data will be helpful in determining which genes contribute to the diseases.

In the project, 300 of the samples come from populations with an ancestry from India, 100 come from Bangladesh and 100 come from Pakistan.

■ Have you needed to work closely with research institutes in India in order to access genetic data on popu-

lations of Indian origin?

Samples from people of Indian ancestry are coming from other countries, like the United Kingdom and the United States, to which these people migrated. Despite considerable efforts to convince Indian researchers to participate in the 1000 Genomes Project, they were unable to agree about how to collaborate in the endeavour.

■ How will the ambitious aim of putting genetic data in



the public domain help the scientific community?

All researchers looking for genetic contributions to disease risk, protection from disease risk or response to therapies will be able to use the data for free. Researchers focussing on a specific disease will be able to compare the individuals in their study to this international reference catalogue of human genetic variants. This will ac-

celerate research on all diseases and human traits.

■ Yet, so much personal data is being made public via the project. Doesn't the move hold the potential to create discrimination based on a person's genetic profile?

The 1000 Genomes Project is not collecting any medical or personally identifiable information on the people who came forward and donated blood samples. Therefore, the project itself cannot become a basis for discrimination based on genetic profiles. But countries will need to regulate the use of the genetic risk information, so that people can utilise it productively to improve their health, rather than being afraid to use it.

In the United States, a law called the Genetic Information Nondiscrimination Act of 2008 bars the use of genetic information for decisions about employment or health insurance coverage. But regulating the use of any information – medical or genetic or otherwise – is a sovereign right for individual countries.

■ This has been a loaded issue through history – can your research now end up stoking sentiments of racism based on popular understandings of superior or inferior genetic profiles?

There is no evidence of the genetic superiority' of any population. People within populations are diverse, so some people are at higher risk for some diseases and lower risk for other diseases. Some genetic variants conferring risk for particular diseases are more common in some populations while other populations have variants conferring risk for other diseases. In the end, the balance between risk-conferring and risk-protecting genetic variants averages out across populations, so none is genetically better than any other.