IITs asked to teach Sanskrit, says Smriti

NEW DELHI: The Indian Institutes of Technology (IITs) have been asked to teach Sanskrit for facilitating the study of science and technology as reflected in its literature, the government informed the Lok Sabha on Monday.

A committee, chaired by the former Chief Election Commissioner, N. Gopalanwami, had recommended in its report that the IITs facilitate the study of science and technology as reflected in Sanskrit literature along with inter-disciplinary study of Sanskrit and modern subjects, Human Resource Development Minister Smriti Irani said in a written reply.

"Accordingly, the IITs have been requested to teach Sanskrit, especially with reference to the study of works which contain scientific knowledge," she said. — PTI
आईआईटी में अच्छित कर देने वाले अविष्कार

पेडल वाला पंप करेगा खोते में शिखाई

दीली पुलिस की मांग पर बनाया इंजन
इस बार आईआईटी की राह हुई आसान चार नए संस्थानों से 470 सीटें बढ़ीं

परीक्षा केंद्र भी बढ़े

आईआईटी ने नए प्रोफेसर्स के में 16 नए शहरों की सूची जारी की है, जिनमें जेडीई एडब्ल्यूबीएफ परीक्षा होगी। इनमें बुधवार को ब्रिटिश और फ्रांस, स्पेन, जर्मनी, नीदरलैंड, ब्राजील, अरेबी और तिब्बत के रोजी विद्यालयों के छात्रों की अनुमोदन प्राप्त हुई है।

इन परीक्षा केंद्रों में 16 नए सीटें हैं। आईआईटी ने इन सीटों की तारीख जारी की है। इनमें जेडीई एडब्ल्यूबीएफ परीक्षा होगी।

देहरादून। आईआईटी में दाखिले का समय देखते हुए देश के बाहरी युवाओं के लिए अच्छी खबर है। इस साल 18 के बजाय 22 आईआईटी में दाखिले का मौका मिलेगा। जोड़हरू एडब्ल्यूबीएफ के लांच प्राइमेंट क्यूसम में इसकी जानकारी दी गई है। इसमें आईआईटी की सीटों में 470 से अधिक का इजाफा हुआ है।

27 अप्रैल को आईआईटी दाखिले की जेडीई एडब्ल्यूबीएफ परीक्षा के लिए जेडीई में खराबी नहीं होगी ताकि भारतीय विद्यार्थियों को पूरा करे ताकि भारतीय विद्यार्थियों को पूरा परीक्षा जेडीई एडब्ल्यूबीएफ में छात्र का मौका मिलेगा।

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दुसरी अच्छी बात यह है कि इस साल 18 के बजाय 22 आईआईटी में दाखिले का मौका मिलेगा।
आईआईटी, बॉम्बे से साढ़े तीन साल में बीटेक कर सकेंगे छात्र

इंडियन इंस्टीट्यूट ऑफ टेक्नोलॉजी, मुंबई में इस साल से फास्ट ट्रैक बीटेक कोर्स को शुरुआत हो रही है। इसके अंतर्गत छात्र वह कोर्स चार को बजाय साढ़े तीन वर्ष में पूरा कर सकेंगे। फास्ट ट्रैक कोर्स जुड़ने वाले छात्रों को अपने प्रोफेसर जनजीव के पूरे ढांचे होगा। इसकी शुरुआत तीसरी सेमेस्टर से हो सकती है। ओलिम्प सेमेस्टर में छात्र इंजीनियरिंग, अभियंता-संयुक्त रूप से एक-एक प्रोग्राम के तहत विद्यार्थी जाने को स्वतंत्रता होगी। जहां तक दस्तावेज तक तीन साल में होने वाली प्लेटफार्म की प्रक्रिया भी शामिल होगी। फिर तक, यह स्वीकृति केवल बीटेक छात्रों को दी गई है, लेकिन उसके बाद उन्हें वह तारीख में सक्ता है। इससे तरह का कोर्स शुरू करने वाला आईआईटी, बॉम्बे देश का पहला संस्थान है, लेकिन इसके बाद आईआईटी संस्थान में भी इसकी तैयारी चल रही है। संभावना है कि 2017-2018 से इसकी शुरुआत हो सकती है।

आईआईटी कानपुर के 12 छात्रों पर जुमाना

राजगर्म संवाददाता, कानपुर : आईआईटी में बैठने आए स्वास्थ्य के छात्रों की शिकार का यीन शोषण करने के मामले में एक छात्र पर कार्रवाई के बाद एक और मामला प्रकरण के आया है। सहारी छात्र के साथ अभियंता टिप्पणी (कमेंट) उसे करने के मामले में एक दशक से अधिक छात्रों पर आर्थिक दंड के अलावा अन्य दंड दिया गया है।

'अंतरराष्ट्रीय' का आयोजन हुआ था। तब एक छात्र ने महिला प्रक्रिया से शिकायत की थी कि प्रकरण के दौरान साथी छात्रों ने उस पर क्रिया पर कमिट पर आरोप लगाना और विविध प्रशंसा करने पर व्युत्त-भारतीय सही कहा।

कार्रवाई कानपुर में पुराने तहत आईआईटी के मामले में प्रकरण के दौरान अन्य छात्रों ने कई दंडों को दोषी ठहराया है। सूचना के अनुसार इस जांच के बाद 12 छात्रों पर महिला प्रक्रिया ने दस से लेकर हजार रूपये का मुआवजा देखा है। इसके अलावा कुछ अन्य छात्रों को चार दिन तक छात्रों को कठी किया देखा गया है। बताता है कि कुछ छात्रों की घटना में होने वाले सामर्थ्य कार्य करने का दंड दिया गया है।
Panel to review ranking mechanism of educational institutions

To analyse the feedback received regarding its first ever rankings of the country's educational institutions, the Union HRD ministry today constituted a nine member expert committee that would review parameters and suggest improvements.

The Smriti Irani led HRD ministry had earlier this month released rankings of the country's educational institutions and the Committee headed by Secretary Higher Education Vinay Sheel Oberoi would analyse the feedback.

"A lot of feedback is about classification of the institutions. We have to think whether there can be more categories for other disciplines like say law. To look holistically at the entire exercise we have decided to form this panel," a senior official said.

Apart from Oberoi, Prof Surendra Prasad, chairman of National Board of Accreditation, UGC chairman Ved Prakash, AICTE head Anil Sahasrabudhe, Additional Secretary R Subrahmanyam and other senior officials would be a part of the nine member panel.

The committee would invite representatives from educational institutions to get a more comprehensive outlook of the issues.

Among the terms of reference for the panel are review of ranking structures, rationalisation of parameters, setting up a National Institutional Ranking Framework (NIRF) cell at NBA and also examine the possibility of loading all data related to educational institutions, on the All India Survey of Higher Education and a parallel website.

"The committee would work so the feedback received after NIRF 2015 can be used to improve the rankings for the next year," the official added.

IISc. experiment could aid drug development to treat cancer

The IISc. team is trying to mimic the growth of cancer tissues in the lab by engineering cancer tissue
“This is a more realistic model. Since you are testing the drug on a human cell, it is more predictive in what happens in a human trial.”

In a move that could aid drug development to fight cancer, a team from the city’s Indian Institute of Science (IISc.) is trying to mimic the growth of cancer tissues in the lab by engineering cancer tissue. What they are trying to achieve is a “realistic 3D model tissue,” which is likely to help screen the right drug, if not lead to a new one.

The IISc. team’s endeavour is a deviation from traditional methods of studying cancer, which is usually done by observing layers of cells grown on a petri dish. Instead, they are growing them on scaffoldings (made out of synthetic material) that allows them to observe how different cells interact with each other and the effect of drugs, which, in the case of cancer treatment, is not felt equally by all cells.

The experiment is being conducted by a group in the Department of Materials and Engineering, led by Assistant Professor Kaushik Chatterjee, in collaboration with Associate Professor Annapoorni Rangarajan’s team in the Biological Sciences Department, IISc.

The team has sourced tissues from two to three hospitals in Bengaluru and is at present focussing on breast cancer, Prof. Chatterjee told The Hindu. “There are patients with advanced stages of cancer whose breasts have been removed. We are taking the tumour that is removed and thrown away. In a tissue, cells are organised in some sort of three-dimensional architecture. That is what we want to create,” he explained.

Results

The team first grew the tissues separately in petri dishes and scaffolds, took them out and injected them into a healthy mice.

It was observed that cells grown on scaffolds have a faster growth rate when compared to those derived from a petri dish. They also spread to other organs throughout the body more quickly.

“They are bigger and more aggressive tumour and start penetrating other tissues. So from the breast, it affects blood and then the lungs,” he said.

About the results that such an experiment could yield, Prof. Chatterjee said a lot of money and effort is wasted if a drug tested in a petri dish or on an animal does not yield results on a human.

“This is a more realistic model. Since you are testing the drug on a human cell, it is more predictive in what happens in a human trial,” he added.

What next?

Though different groups in the world are conducting similar experiments, meeting different levels of success, the IISc team pegs theirs as being a more “comprehensive model,” showing a complex phenomenon.

Gowri Balachander, PhD research scholar in the Centre for Biosystems Science and Engineering, who works in both labs, said the group plans to work with a mix of various cells —like fibroblasts— which secrete protein, or endothelial cells, which line blood vessels, in the future to gauge how cancer cells interact with each other and with other entities surrounding them.
Close connect - IITs and Indian startup boom


IIT Bombay beats all the other IITs as a source of funded online startups in the country. The financial capital’s IIT has about 145 funded startups while the recently founded IIT Bhubaneshwar has 44. But, according to experts, since Flipkart’s founders are from IIT Delhi, the institute leads the pack by market capitalization.

<table>
<thead>
<tr>
<th>IIT Bombay</th>
<th>IIT Delhi</th>
<th>IIT Kanpur</th>
<th>IIT Kharagpur</th>
<th>IIT Madras</th>
<th>IIT BHU</th>
<th>IIT Roorkee</th>
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<td>145</td>
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<td>76</td>
<td>62</td>
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- **OLA**: Bhavish Aggarwal & Ankit Bhati
- **Flipkart**: Sachin Bansal & Binny Bansal
- **InMobi**: Naveen Tewari, Abhay Singhal & Amit Gupta
- **Capillary Technologies**: Aneesh Reddy, Ajay Modani & Krishna Mehra
- **Ather Energy**: Tarun Mehta and Swapnil Jain
- **ShopClues**: Sanjay Sethi
- **CommonFloor**: Sumit Jain & Lalit Mangal
- **ClearTax**: Archit Gupta & Anupam Mediratta

**DISCLAIMER:**
- Universe includes funded startups only
- Pertains to only startups which primarily operates in the online space
- Mohit Saxena is also one of the cofounders of InMobi. He is a B-Tech graduate from IIT Roorkee
**Patna boy gets prestigious US 'Platinum Research Award 2016'**


PATNA: A topper of 10th CBSE examination from DPS Patna Ashish Kumar has been awarded the prestigious 'Platinum Research Award 2016' at the university of Colorado at Boulder, USA in the recognition of his outstanding contribution to the department of electrical, computer & energy engineering on April 23. Twenty seven year-old Kumar is doing PhD in Power Electronics at University of Colorado, USA since 2013.

"Today in the morning I received a call from my son from USA about this global prestigious award which is given to only one scholar in the year after going through rigorous multiple tests. I have no words to express my happiness," said an elated father Dr Hemant Kumar a former HoD of nephrology, PMCH & IGIMS.

Talking to TOI on Sunday, Kumar and his wife Renuka Keshari, assistant professor department of Obst & gynae PMCH said: "Ashish never stood second in his entire academic career. We are proud of him. From May 16 he will be doing internship with Apple. He has also got a job offer from Apple after internship".

He has lots of research papers to his credit which he has presented across the world in various international conferences. Ashish Kumar has been an outstanding student since he started his career in the school in Bihar.

In 2005 he was the topper in the 10th CBSE examination in Bihar as well as in Eastern India including Allahabad zone and he was placed third position in the country. He had achieved 97.8% aggregate marks in 10th CBSE 2005 which was highest in Bihar till that year.

Due to his achievement, he was invited by then President late APJ Kalam to see him during Republic day ceremony. Ashish has been National Talent Search Scholar as well as selected for CBSE scholarship also. He chose to accept National Talent search scholarship.

Subsequently he moved to New Delhi to pursue his +2 career at DPS, Vasant Kunj, New Delhi where he achieved first position in CBSE +2 in NCR (in Maths Group) in 2007. In DPS Vasant Kunj he was bestowed with many awards and Ashish was provided a web page in the website of DPS, Vasant Kunj, New Delhi for one complete year with his curriculum vitae.

In the same year (2007) he was selected for IIT, Delhi in the department of electrical stream for B Tech course which he completed in the year 2011. Thereafter he was selected by NTPC through IIT campus placement in 2011.

He worked with NTPC till June 2013 and moved to USA in August 2013 to join PhD course in Power Electronics at Boulder, University of Colorado, USA. He is likely to complete it next year.

In addition to his excellent academic achievements Ashish has been a very good sportsman in Badminton, Table Tennis, Cricket and Football. He was awarded many times in chess championship during his schooling in Patna, New Delhi and during his tenure in IIT Delhi.
‘Flipped classrooms’ find favour with IITB students

http://paper.hindustantimes.com/epaper/viewer.aspx#

MUMBAI: The concept of ‘flipped teaching’ introduced by some departments at the Indian Institute of Technology – Bombay ( IITB ) seems to be working for students. According to the latest issue of the institute’s monthly magazine – Insight, the overall performance of students has improved since the implementation of flipped classrooms. In a flipped classroom, lectures are delivered through video books to be viewed by the students before and after class hours, while the classroom is meant for assignments and hands on learning. The magazine comprehensively reviewed traditional teaching techniques as compared to flipped classrooms through responses of students and professors, keeping in mind the average student’s attention span while in a classroom. The survey indicates that 50% of 253 interviewees prefer flipped classrooms to clear doubts and concepts being taught, while 10% thought this would mean learning beyond classrooms. This study revealed that the performance of an average student improved over the years, especially after the introduction of flipped classrooms. In a class of 56 in the year 2009, the maximum score stood at 79 and the average was about 50. However, the use of flipped classrooms by 2015 showed that in a class size of 96, the maximum marks was 92 and the average was 69. However, some students and professors insist the need for a balance of traditional and new techniques, with 18% were against the idea altogether. “Even though the concept of flipped classrooms has been initiated by several professors on campus, a large part of lectures are also being held in the traditional manner. Both forms have their own loopholes and advantages and the aim has always been to strike a proper balance between traditional teaching methods and technology,” said Soumyo Mukherji, dean student affairs, IITB . While a typical lecture at IITB lasts anywhere between an hour to an hour and a half, the survey showed that the average attention span of a student does not last more than 45 minutes. “Replacing a lecture with interactive discussions in classrooms or in class projects is more engaging than just listening to a professor throughout the class,” said a student.

CEOs among 12 given alumni awards at IIT-M


Chennai: They now run technology firms, head multi-national companies, hold top posts in the central government, teach students in foreign universities or conduct research abroad. But all have one thing common: They were students at Indian Institute of Technology Madras.

Twelve IIT-M alumni, who have made a name for themselves in their respective fields, were honoured with the Distinguished Alumnus Awards 2016 at the 57th Institute Day on Monday.

Delivering the chief guest's address, co-founder of Infosys and chairman of Axilor Ventures Kris Gopalakrishnan said institutions like IIT-M could play a major role in building industries that can create job opportunities for the future generation. Himself an IIT-M alumnus, Gopalakrishnan said his days on the campus gave him the confidence to compete with the best. "I walked into IIT-M in 1975 as a 20-year-old. I did assignments with the best and I was taught by faculty, who were doing cutting edge research," he said.

Director Bhaskar Ramamurthi said alumni, foundations and corporates had helped raise a record amount. "We are now expanding the effort to North America as well, where a sizable number of our alumni reside," he said.

Some of the Distinguished Alumnus awardees are D Shivakumar, chairman and CEO, India region, Pepsico India Holdings; Sridhar Vembu, co-founder and CEO of Zoho Corporation; Vaidehi Narayan, professor of molecular immunology,
Beckman Research Institute, California; Ramkumar Dhruva, senior vice-president (monomors division), Asia-Pacific, BASF, Hong Kong; and Chandramouli Visweswariah, director, Smarter Energy Research Institute, New York.

Some of the awardees said the institute played a major role in their lives and careers. While Dhruva recollected how his dream of studying at IIT-M, located in his backyard, came true, Thomas A Kodenkandath, scientist, Hazen Research and Co-Founder, Appil3D, LLC, USA remembered how he continued to hone his skills as a cartoonist even while doing his PhD at the institute.

‘VIT has stolen a march over IISc in presenting papers’

VIT University Chancellor G. Viswanathan handing over special awards to faculty members during a programme on Monday.

*It published 2,233 papers, 18 more than the Bangalore based institute in 2015*

In 2015, VIT University overtook Indian Institute of Science (IISc), Bengaluru and Indian Institutes of Technology in the number of research publications. It had published 18 papers more than IISc, according to VIT Chancellor G. Viswanathan.

According to Scopus database, VIT had to its credit 2,233 publications in 2015, while IISc had 2,215 publications. As on April 6, 2016, the university has 455 publications, whereas IISc has 523 publications. Its h-index is 53.

Addressing the gathering at the Research Award-2016, he said, “As a nation, we are lagging behind in research. We have good potential but no State government spends on research, except for a few institutions.

The Central government spends a lot of money on research but this is only for government institutions.”

The Department of Science and Technology, Department of Biotechnology and DRDO were providing funds for both government and private institutions to take up research, he mentioned.

The country was spending one per cent of the GDP on research and this was inadequate when compared with countries such as Korea, United States, Israel and Germany, he added.

He pointed out that universities in China obtained incentives from the government, and had a lot of freedom and autonomy.
“The departments of the Government of India and State government should also take up research as a priority. Teaching and research have become inseparable. They should recognise institutions doing well in research,” he added.

At the programme, research awards were presented to faculty members and research scholars of the university. Mr. Viswanathan said that last year, 931 awards were presented, while 1,151 – 770 faculty and 381 research scholars - were being awarded this year.

Special awards were presented to faculty members, including, Geetha Manivasagam for being number one in India for research publications (2009-2014) in the subject area of material science, while F. Nawaz Khan was also awarded for being ranked third in the country among authors (2009-2014) in Chemistry. Faculty members who have been made Fellows of the Royal Society of Biology, Fellows of Royal Sociey of Chemistry were also recognized.

Among others, VIT Vice President Sekar Viswanathan and Vice Chancellor Anand A. Samuel were present.

**Varsity comes second in e-journal use in country**


Kolhapur: A recent Infonet Digital library consortium (INFLIBNET) report stated that the Shivaji University, Kolhapur (SUK) stands second in use of Nature publications group's (NPG) e-journal usage in the country.

The Jawaharlal Nehru University (JNU) stands third in the usage of the coveted scientific journal.

The University Grants Commission (UGC) provides the INFLIBNET service to universities across the country.

The service offers over 8,000 scientific journals in its network, including the Nature journal.

It also revealed that the number of Nature scientific journal users in the SUK have risen from a mere 34 in 2014 to more than 1,800 in 2015.

Devanand Shinde, SUK's vice-chancellor said that it is a special achievement for the university after having also accomplished first rank in the National Institution Ranking Framework (NIRF) at the state-level last month.

Shinde said that over 3,000 computers are connected via INFLIBNET in the university campus and the service of journals is open 24x7 for the students.

Namita Khot, the university librarian, said that the Cochin University of Science and Technology has won the first prize of the NPG e-journal usage award, followed by the SUK.

She added, Rajendra Kumar, assistant general manager of NPG emailed the university about the feat on April 22.

Khot further said that the university subscribed to 8,643 scientific journals via its own services and the INFLIBNET.
Joint Entrance Examination JEE (Main) 2016 Results to be declared tomorrow

New Delhi: The Joint Entrance Examinations Mains (JEE Main 2016) exam results will be declared by Central Board of Secondary Education (CBSE) on Wednesday.

The (JEE) Main paper I and paper II results were held on on April 3 (offline) and April 9 and 10 (online).

The JEE scores form the basis of admission into NITs, IIITs, other centrally funded technical Institutions.

Candidates who clear the JEE Mains examination are eligible to sit for the JEE advanced for admission in IITs.

Those who had appeared for the for the JEE Main 2016 can check their results on -jeemain.nic.in, cbseresults.nic.in

Around 12 lakh students had appeared for the JEE.