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New devices for handicapped

Vanita Srivastava

In a novel initiative that will have several social benefits, IIT Madras has designed working prototypes of mobility devices for physically challenged persons. Looking into the broader benefits, the institute has recently opened a center-TTK Center for Rehabilitation Research and Device Development(R2D2) that will enable the prototypes to actually go to the field.

Prototypes of prosthetic knee, standing wheelchair body-movement-based wheelchair and swimming pool lift are just some of the devices that have been developed. All of them are cost effective and designed for specifically for Indian needs.

Dr. Sujatha Srinivasan, a mechanical engineer and the brainchild behind the devices told HT: "The goal of orthotic, prosthetic, and other assistive devices designed for individuals with physical impairments is to enable them to lead independent lives."

The initial clinical trial conducted at Mobility India, she said was very promising.

"The user was able to immediately recognize the stable nature of the knee. We are working on design refinements, including a rotator feature to allow a person to sit cross-legged."

Having cleared the clinical trial phase IIT is now searching for manufacturers with whom they can form a partnership.

career

options

ग्रे जुएशन या पोस्ट ग्रेजुएशन के दौरान आईआईटी से न जुड़ पाने के बावजूद आपके पास विकल्प रहता है कि आप अपनी आगे की पढ़ाई के लिए इस प्रतिष्ठित संस्थान से जुड़ सकें। आईआईटी-गांधीनगर ने पीएचडी के लिए इच्छुक लोगों से आवेदन मंगवाए हैं। पीएचडी के लिए इंजीनियरिंग ही नहीं, साइंस की सामान्य ब्रांचेज और कला वर्ग के विषयों में शोध के भी विकल्प उपलब्ध हैं। आवेदन की अंतिम तिथि 20 फरवरी 2015 है।

क्या है योग्यता

आईआईटी-जी से पीएचडी में आवेदन के लिए जरूरी है कि आपने बीटेक/ एमटेक/ एमए/ एमएससी या समकक्ष डिग्री में कम से कम 55 प्रतिशत अंक हों। प्रत्येक स्ट्रीम से जुड़ी विस्तृत योग्यता की जानकारी आपको संस्थान की वेबसाइट पर मिल सकती है। इन योग्यताओं को पूरी करने की स्थिति में ही आवेदन करें वरना बाद में इसे रद्द किया जा सकता है। सरकारी नियमों के अनुरूप न्यूनतम योग्यता में एससी/एसटी/शावि वर्ग के अभ्यर्थियों को अर्हताओं में कुछ छूट है।

क्या है विषय

आईआईटी गांधीनगर ने जिन विषयों में पीएचडी के लिए आवेदन मंगवाए हैं, वे विषय हैं-

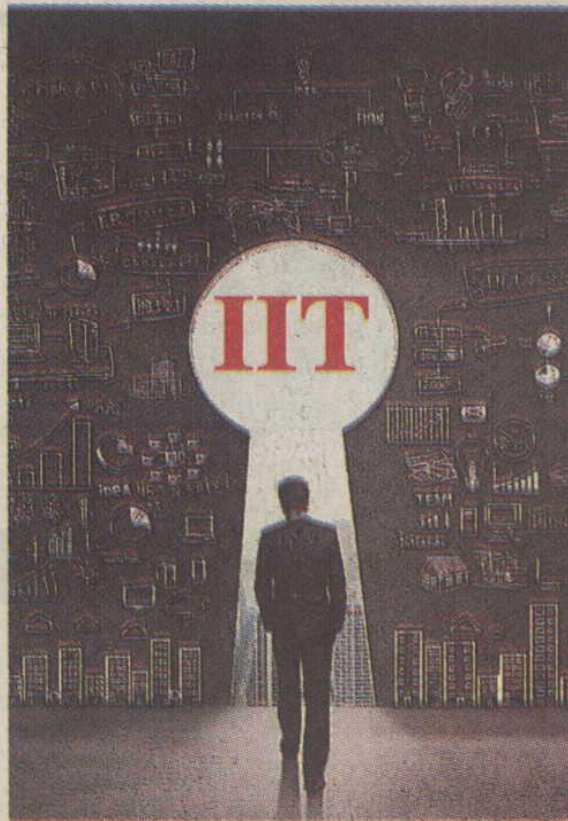
इंजीनियरिंग : (बायोलॉजिकल, केमिकल, सिविल, कंप्यूटर, मैटीरियल साइंस, इलेक्ट्रिकल, मैकेनिकल)

फिजिक्स, केमिस्ट्री, मैथेमेटिक्स, कॉम्प्यूटिंग साइंस

पॉलिटिकल साइंस, साइकोलॉजी, सोशियोलॉजी आदि

इनके अलावा भी पीएचडी के लिए कई विषय हैं, जिनकी विस्तृत जानकारी संस्थान की वेबसाइट पर देखी जा सकती है।

आईआईटी जाकर करें रिसर्च



आईआईटी गांधीनगर ने आवेदन की अंतिम तिथि 20 फरवरी रखी है। पीएचडी में प्रवेश रिटेन टेस्ट और इंटरव्यू के आधार पर दिया जाएगा। ग्रेजुएशन या पोस्ट ग्रेजुएशन में यदि आप आईआईटी में पढ़ने का सपना नहीं भी पूरा कर पाए, तो अब एक नया अवसर है।

कैसे होगा चयन

पीएचडी में प्रवेश का मुख्य आधार इंटरव्यू को बनाया जाता है। जरूरत पड़ने पर लिखित परीक्षा भी करवाई जा सकती है। प्राप्त आवेदनों के एकेडमिक रिकॉर्ड या स्टेटमेंट ऑफ परपस के आधार पर संस्थान आवेदकों को बुलाता है।

दो हैं कैटेगरीज

आईआईटी गांधीनगर के पीएचडी प्रोग्राम को दो कैटेगरीज में बांटा गया है। पहली कैटेगरी में रेगुलर रिसर्च होगी और यह कार्यक्रम पूर्णकालिक एवं आवासीय होगा। दूसरी कैटेगरी में कन्टीन्यूइंग डॉक्टरल प्रोग्राम होगा। यह उन लोगों के लिए है, जो वर्किंग हैं। उनके लिए कुछ अलग नियम निर्धारित किए गए हैं। संस्थान में आर्थिक सहयोग भी उपलब्ध है।

कैसे करें आवेदन

आवेदन के लिए www.iitgn.ac.in पर जाएं और फॉर्म भरें। आवेदन के लिए कोई भी शुल्क नहीं है। अगर आप एक से ज्यादा स्ट्रीम्स में आवेदन कर रहे हैं तो हर स्ट्रीम के लिए अलग-अलग फॉर्म भरें। आपके फॉर्म भरने के दो-तीन दिन में आपके ईमेल पर उसकी एक कॉपी आएगी। उसे प्रिंट करें, फोटो लगाकर, मूल प्रतियों के साथ इंटरव्यू में ले जाएं। पहले न भेजें।

'EDUCATION HOLDS THE POWER TO CHANGE GENERATIONS'

Press Trust of India

Education has the power to not only change lives but generations and make the world a better place, Indian mathematician and founder of Super 30, Anand Kumar said.

"The need is to pull the underprivileged sections of the society out of poverty and that can happen only through education, which is a lasting solution. Stoppgap solutions will not work," he said while addressing students here in the SaudiArabian city of Jeddah. Kumar whose pioneering Super 30 initiative has helped students from the most underprivileged sections of the society maintained that "education has the power to not only change lives but generations and make the world a better place". "The growing inequalities in the world need to be addressed and that can happen only by equipping youth across the world with the power to transform."

Giving the examples of many Super 30 students – children of private security guards, daily wage earners, roadside vendors to marginal farmers, the 42-year-old mathematician said they are all examples of what right and timely opportunities can do.

"Many of them passed out from IITs and are today working in different parts of the globe. Their lives have changed and so have their families," Kumar said.



■ Anand Kumar, founder of Super 30 spoke on the importance of educating youth

Ideas find mentors at IIT-B summit

Hindustan Times (Mumbai)

MUMBAI: The three-day entrepreneurship summit organised by the E-cell of the Indian Institute of Technology, Bombay (IIT-B), kicked off on Friday.



ARIJIT SEN/HT A

mentor interacts with participants at a workshop during the Entrepreneurship Summit at IIT-B on Friday.

The inaugural day saw workshops focusing in teaching participants the basics of startups, including idea generation, management risks and customer interaction.

The workshop will go on till February 1, where students will pitch their entrepreneurial ideas and develop them through a lean methodology, which involves creating more value for customers with fewer resources and by eliminating the risks of losing the invested capital.

A three-day Hackathon competition, in which around 60 participants will learn to develop software and mobile applications focused on social problems, also started on Friday.

The participants will present their ideas on 10 issues, including sanitation, non-uniformity of commodity prices, areas prone to particular diseases, among others.

On Saturday, Amit Agarwal, country head, Amazon India, will speak on Innovating on Behalf of the Customer: Amazon Approach, while Ridham Desai, MD, Morgan Stanley will speak on How Entrepreneurs Can Turn On The Economy. Neeraj Gupta, founder, Meru Cabs, will participate in a panel discussion.

Ajeet Khurana, chief executive officer, Society for Innovation & Entrepreneurship (SINE), IIT-B said, “With competitions that allow entrepreneurs to pitch their ideas directly to potential investors, the e-summit is trying to create a model to help deserving entrepreneurship ideas flourish.”

Defence secy gets additional charge as DRDO head

Hindustan Times (Jaipur)

AHMEDABAD: After sacking Avinash Chander as head of Defence research and development organisation (DRDO) and secretary Defence research and development, the Modi administration asked defence secretary RK Mathur to hold additional charge for three months.

The appointments committee of the cabinet (ACC) headed by PM Modi issued order assigning additional charge to Mathur.

According to the ACC order, Mathur will hold the charge of secretary, department of Defence research and development, for three months after the current incumbent Avinash Chander relinquishes the charge for three months or until further orders.

PM lauds scientists for successful test-firing of Agni-V

http://zeenews.india.com/news/india/pm-lauds-scientists-for-successful-test-firing-of-agni-v_1539256.html

New Delhi: Prime Minister Narendra Modi on Saturday hailed scientists for the successful test-firing of 'Agni-V' and said the missile is a prized asset for the country's forces.

"Successful test-firing of Agni V from a canister makes the missile a prized asset for our forces. I salute our scientists for their efforts," he tweeted.

Finance Minister Arun Jaitley also lauded the efforts of scientists and engineers in successful test-firing of Agni-V, a nuclear-capable missile.

"Congrats! to the team of scientists and engineers for successfully test firing of Agni-V, the nuclear capable missile and making India proud," Jaitley tweeted.

India successfully test-fired the canister version of its indigenously developed, intercontinental surface-to-surface nuclear capable ballistic missile 'Agni-V', which has a strike range of over 5000 kms and can carry a nuclear warhead of over one tonne, from Wheeler's Island off Odisha coast.

Sterlite Technologies signs agreement with IIT Madras and IIT Kanpur

<http://www.teleanalysis.com/news/sterlite-signs-agreement-with-iit-madras-and-iit-kanpur-12466.html>

Sterlite Technologies have signed agreement with IIT Kanpur and IIT Madras for collaborative research in ultra-high speed broadband.

Sterlite Technologies together with IIT Madras and IIT Kanpur has announced multi-year fellowship programs and grants to encourage collaborative research.

To strengthen India's investments in broadband technology research, Sterlite also announced an annual seed fund of \$100,000. This will be awarded to promising new Indian start-ups, working on innovative broadband

deployment technologies. The company also inaugurated 35,000 square feet centre of excellence (CoE) in Aurangabad.

Commenting on the development, Dr Anand Agarwal, CEO, Sterlite Technologies said, “Sterlite is uniquely positioned at the confluence of government’s vision of Digital India, Make in India, and 100 Smart Cities, and the initiatives announced today are aimed at furthering India’s broadband research muscle. Having delivered over 40 percent of India’s fiber network, Sterlite is playing an integral role in National Broadband projects, as well as the backhauling of all data on 3G/4G/fixed networks.”

Inaugurating the CoE, Dr APJ Abdul Kalam said, “My greetings to all of you for your research, development and production of optical fiber glass technology. I would urge all of you government, public and private institutions to evolve a roadmap to bring a high speed Wi-Fi access to villages combining OFC, Wi-MAX, Wi-Fi and 3G/4G connectivity.”

“Through this collaborative partnership, we will explore new ideas and create unique solutions for broadband deployment in India,” said Prof Krishnan Balasubramanian, dean, Industrial Consultancy and Sponsored Research, IIT Madras.

“We are excited to partner with Sterlite Technologies. This research and development effort in advanced optical transmission technologies is a natural fit to IIT Kanpur,” added Prof Siddhartha Panda, associate dean, Industrial Collaboration, IIT Kanpur.