

'Calculus shows how things change'

PNS KANPUR

Noted mathematician and head of department at PPN Degree College, Dr Shikha Singh, said on Friday that calculus was about the very large, the very small, and how things changed.

Addressing a seminar on mathematics at SJ Degree College here, Dr Singh said what was most surprising was that something seemingly so abstract ended up explaining the real world. She said calculus played a significant role in the biological, physical, and social sciences. She said by focusing outside the classroom, one could see examples of calculus appearing in daily life. She said continuity was all how nearby inputs were sent to nearby outputs.

The mathematician said differentiability showed how the input affected the output and in light of this, they seemed related and right.

Citing an example, she said if f was differentiable at a , then f was continuous at a and in other words, a differentiable



Dr Shikha Singh, HoD of mathematics being felicitated at the seminar held at SJ Degree College on Friday

Pioneer

function was continuous. She said it was known that a differentiable function was continuous but advanced enough at this point to give a precise argument using limit.

Dr Singh said one could use limited knowledge to make a more precise argument as one knew the positive inputs.

She said a function was continuous on negative inputs because the negative function $(-x)$ was continuous there, and it with the function on this interval. She said the only

sticking point was to check that function's continuous at zero.

She said if one knew the function's continuous for positive inputs, negative inputs, and at zero, then one knew its continuous for all inputs.

She said absolute value function was continuous and in the end, there was some relationship between differentiability and continuity. She said differentiable functions were continuous and mathematics was not just a sequence of unrelated concepts.

PNS KANPUR

The Pioneer, Kanpur - 29/10/16

'Air-conditioning may become more environment-friendly'

Prof Arun Saha, IIT-Kanpur, while addressing the closing session of the 7-day training workshop for polytechnic teachers on "Refrigeration and

Air-conditioning" at IIT-Kanpur on Friday, said in the coming times, refrigeration and air-conditioning may become more efficient and environmentally friendly. He said there has been a breakthrough and magnetocaloric material will change the energy industry, including air conditioning and food refrigeration. He said for this there was an imperative need to prepare a workforce to be familiar with the newer technology. He said the world refrigeration market was expected to increase by about \$7-8 billion by 2018 and thus this breakthrough had a significant economic impact as well as an impact on the energy industry and environment.

He said the next generation of magnetic cooling technologies, were more simpler in design, quieter and more environmentally friendly than conventional compressed-gas systems currently used. He said the basic research into low temperature physics and materials science had potential applica-

tions in areas related to energy, electronics and the environment. He said magnetocaloric materials programme was an example of research that appeared to be directly relevant to energy development. He said it also provided excellent training opportunities for students. He said in this new technology, a magnetic field magnetically orders the material at ambient temperature, which raised its temperature above ambient and the excess heat was removed through a thermal medium, such as water or air, bringing the material back to ambient temperature. He said the magnetic field was then removed, the material became magnetically disordered and its temperature dropped below ambient temperature leading to a cooling effect. Prof Saha said this "solid state" cooling process was significantly more energy efficient than the conventional, compressed gas systems currently in use. He said this technology can reduce the use of harmful gas fluorocarbons.

KHANDELWAL EXTRACTIONS LIMITED

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NOTICE OF BOARD MEETING

Notice is hereby given that a meeting of the Board of Directors of the Company is scheduled to be held on Thursday, 10th November, 2016 at its registered office inter-alia, to consider and approve the Un-audited financial results of the Company for the quarter and six months ended 30th September, 2016.

Khandelwal Extractions Limited

Place : Kanpur

Surabhi Pasari

Date : 27.10.2016

(Company Secretary)

सूचना

सूचित किया जाता है कि प्रापटी संख्या A-250 EWS-III गुजैनी कानपुर के स्वामी श्री कन्हैयालाल गुप्ता पुत्र श्री रामगनेश गुप्ता को बैंक द्वारा उनकी फर्म मे 0 मुकुल एजेन्सी पर ऋण सुविधा प्रदान की जा रही है। यदि किसी को भी किसी प्रकार की आपत्ति हो तो इलाहाबाद बैंक की फीलखाना शाखा कानपुर में 7 दिनों के भीतर संपर्क करें।

वरिष्ठ प्रबन्धक



संघ

राष्ट्रीय

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- राष्ट्रीय लोक न्यायालय अथ पर निस्तारित व निर्णय प्राप्त का स्वर्णिम अ
- त्वरित, सस्ता अधिकार है

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किसी भी लम्बित न्यायालय के पीठ असुविधा की दशा

प्रमुख सचिव न्याय

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