



**DELHI TECHNOLOGICAL  
UNIVERSITY**

**DTU**

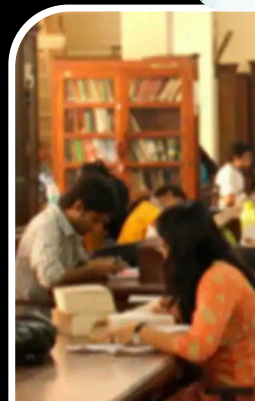
# NOVUS LITTERA

(A Compilation of News featuring DTU fraternity online)



**MONTHLY**

**JANUARY 2025**



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January 01, 2025



Showcasing Innovation at the Forefront! 🛠️🚁  
House Technologies proudly presented our cutting-edge drone technology to the Honorable Lieutenant Governor of Delhi, Shri Vinai Kumar Saxena. This opportunity reflects our unwavering commitment to advancing 'Made in India' solutions for defense, surveillance, and technological innovation.

**INDIAN STARTUPS Startup  
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In India GenAI**

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January 01, 2025



**“National Conference on Supply Chain Management” jointly organised by the Forum and DMA.**

“National Conference on Supply Chain Management” jointly organised by the Forum and DMA.

The Conference was brilliantly compered by DTU alumni Ms. Ameesha Dabas and Mr. Shubham Rana, both life members of the Forum. The Forum conveys sincere thanks to both of them for contributing their bit in making the Conference a grand success.

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January 01, 2025



**कौन हैं आईपीएस स्वीटी सहरावत, जो  
BPSC प्रोटेस्ट में पुलिस ऑपरेशन का  
कर रहीं नेतृत्व, पढ़ें डिटेल**

Read more at:

[Jagan.com](http://Jagan.com) / [Aajtak.com](http://Aajtak.com) /

[Prabhatkhabar.com](http://Prabhatkhabar.com)





## ‘Nanoparticles in lungs of Delhiites’

Residents of Delhi encounter 10-18 million nanoparticles (PM1 or smaller) daily while walking and accumulate a significant amount in the deeper sections of lungs, a joint study by Physical Research Laboratory, Ahmedabad, and DTU found. **P 7**

## ‘Nanoparticles in lungs of Delhiites’

Read more at:  
[The Times of India](#)



## Deep Inside Your Lungs: Nanoparticles

### Pedestrians At Greater Risk As Concentration Of Finer Particles 30% Higher On Urban Roadsides

Kushagra Dixit  
@timesofindia.com

**New Delhi:** A joint study by Physical Research Laboratory, Ahmedabad, and Delhi Technological University has examined the presence and impact of airborne nanoparticles (PM1 or smaller) on pedestrians' respiratory systems in Delhi.

The findings indicate a significant accumulation of these particles in the deeper sections of the lungs. The study found that Delhi residents encounter approximately 10-18 million nanoparticles daily while walking along the road. It added that nanoparticle deposits near roads exceed those in areas distant from traffic by 30%. These minute particles pose a greater health risk compared to PM2.5 or PM10 due to

their significantly smaller dimension.

The report stated that the ultrafine particles contribute around 60-80% of the total particle number concentration over Delhi. "Inhalation particle number concentration varies between 0.5 and 1 billion over Delhi during the year... The particle deposition ranges from 0.43-0.26g/min over Delhi during the year. The concentration of particles in the urban roadside is nearly 30% higher than an environment away from the road. The results are crucial for initiating mitigation measures aimed to improve air quality and public health," the report said.

The study, titled Seasonal Variation of Particle Number Concentration in a Busy Urban Street with Exposure Assessment and Deposition



CLEAR AND PRESENT DANGER

in Human Respiratory Tract, was published by Elsevier. It was conducted by a team of researchers that included Rajeev Kumar Mishra, associate professor from the department of environmental engineering at Delhi

Technological University, along with senior professor S. Ramachandran from the Physical Research Laboratory, Ahmedabad, and Kanagaraj Rajagopal, research scholar from the advance air and acoustics research laborato-

ry of Delhi Technological University.

The research was conducted in Rohini district, north Delhi. It analysed the impact of atmospheric nanoparticles on the human respiratory system, covering all seasons.

"Using a computerised model for analysing the deposition, the study revealed that more nanoparticles are deposited in the alveolar regions of the human lungs. Because these nanoparticles are about 500 times smaller than the size of human hair, they penetrate deep into the lungs" and "have the potential to penetrate our bloodstream" and can be deposited in different parts of the body, "including the brain", the report pointed out.

It added that the nanoparticles were found high near the sources, such as roadsides,

where most of the population is exposed to these particles. "So, for a city like Delhi, residential zones adjacent to the road will automatically have higher exposure for the residents. The people working or living near the road, such as police personnel, street vendors, drivers, motorcyclists, delivery personnel and the urban poor living near the road, are suspected to be more vulnerable to the nanoparticles. The study also suggests that the policy formulation towards the concentrations of these particles is required for reducing the nanoparticle emissions from the engine sources to mitigate the impacts of these particles on the atmosphere and human health," Rajeev Kumar Mishra, one of the authors of the report, said.

## Deep Inside Your Lungs: NanoParticles

Read more at:  
[The Times of India](https://www.timesofindia.com)



## वायु प्रदूषण से सड़क के पास रहने वालों को सर्वाधिक रहता है खतरा

प्रदूषण का **30 प्रतिशत** से ज्यादा होता है नुकसान, डीटीयू की रिसर्च में आए ये तथ्य

डैट न्यूज • जगजगण

बाहरी दिल्ली: दिल्ली की हवा में प्राप्त सूक्ष्म कण सड़क के पास रहने, काम करने और पैदल चलने वाले लोगों की सेहत के लिए 30 प्रतिशत ज्यादा नुकसानदेह हैं। सड़क किनारे काम करने वाले लोग एक दिन में लगभग 10 से 18 मिलियन सूक्ष्म कणों के संपर्क में आते हैं। सूक्ष्म कण मानव स्वास्थ्य की दृष्टि से अत्यधिक खतरनाक होते हैं। 2.5 पीएम (पार्टिकुलेट मैटर) या इससे कम आकार के कण फेफड़ों में गहराई तक प्रवेश करते हैं। यहां तक कि रक्तप्रवाह में प्रवेश करने की क्षमता भी रखते हैं और मस्तिष्क सहित शरीर के विभिन्न हिस्सों में जमा हो सकते हैं।

**2.5** पीएम (पार्टिकुलेट मैटर) या इससे कम आकार के कण फेफड़ों में करते हैं प्रवेश

**10** -18 मिलियन सूक्ष्म कणों के रोजाना संपर्क में रहते हैं सड़क के पास काम करने वाले

**2.5** से कम आकार के कण रक्त में प्रवेश कर दिल, गुर्दे और दिमाग पर डालते हैं प्रभाव



शोध के लिए डीटीयू के पास ठकाना रोड पर स्थापित कंप्यूटरीकृत स्टेशन • जी. डी. सिंह

## वायु प्रदूषण से सड़क के पास रहने वालों को सर्वाधिक राहत है खतरा

Read more at:

[dainikjagran](http://dainikjagran.com)





January 15 , 2025



**Mr. Manish Singhal, an alumnus of 1988 batch of Delhi College of Engineering has been appointed as new Secretary General of ASSOCHAM (The Associated Chambers of Commerce and Industry of India)**

[Read more at : LINKEDIN](#)

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January 15 , 2025

**NBT**

**अब  
क्या करें  
दिल्ली वाले?**

**दिल्ली में पैदल चलने से सीधे फेफड़े पर  
खतरा, पॉल्युशन पर यह रिसर्च रिपोर्ट सच में  
डरावनी है**

Read more at:  
[Navbharat Times](https://www.navbharat.com)

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January 15 , 2025



**बिना कोचिंग क्लियर किया UPSC एग्जाम**

**जाने IRS आरुषि के सफलता की कहानी**

**बिना कोचिंग क्लियर किया UPSC  
एग्जाम, जाने IRS आरुषि के  
सफलता की कहानी**

Read more at:

[Bhiwanihalchal.com](http://Bhiwanihalchal.com)





January 18, 2025

# Nano-particles from plants to treat water pollution: DTU team

**Kushagra.Dixit**  
@timesofindia.com

New Delhi: Scientists at Delhi Technological University (DTU) have made significant progress in creating nanoparticles from natural plant extracts

quercetin in tulsi, played a crucial role in reducing metal ions to nanoparticles, enhancing their antibacterial efficacy," stated his research published in Scientific Reports (Nature Publishing Group), earning widespread recogni-

## Nano-particles from plants to treat water pollution: DTU team

Read more at:  
[The Times of India](https://www.timesofindia.com)

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January 18, 2025



## DTU and SGL Unite to Launch a State-of-the-Art Tribology Skill Development Centre

Read more at:  
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January 19, 2025



success story

**जब पिता का सपना किया पूरा  
तो... जानें बिहार की लेडी सिंघम  
IPS अधिकारी की दिलचस्प  
कहानी**

Read more at:

[hindi.oneindia.com](http://hindi.oneindia.com) / [prabhatkhabar.com](http://prabhatkhabar.com)



## कौन हैं IAS KUMAR HARSH? #DARBHANGABORN



कौन है IAS KUMAR HARSH? बनाया गया नया  
DM...DARBHANGA के युवा इंजीनियर की  
सफलता करेगी प्रेरित # DHARBANGHABORN

Read more at:  
[Deshaj times](#)

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January 21, 2025



## देश दिल्ली में 'खराब' श्रेणी का एयर क्वालिटी इंडेक्स, बादल छाए रहने का अनुमान

Read more at:  
[currentcrime.com](http://currentcrime.com)

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January 21, 2025



**Sushant Singh Rajput's birthday भारतीय फ़िल्म अभिनेता सुशांत सिंह राजपूत के जन्मदिन पर जाने इनका जीवन परिचय**

Read more at:  
[samacharnama.com](http://samacharnama.com)



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January 26, 2025

## PROUD MOMENT FOR DTU



**Mr. Vinod Dham, Distinguished Alumnus of  
the Delhi Technological University &  
Father of the Pentium chip, receives Padma Bhushan.!**

**Proud Moment for DTU: Mr. Vinod Dham,  
Distinguished Alumnus of the Delhi Technological  
University and Father of the Pentium chip, receives  
Padma Bhushan**

[Read more at:](#)

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January 26, 2025



**Congratulations to Swadwi Parma Bharti of DCE, for adoption of her sannyasi cult in the auspicious Mahakumbha under Dibya Jyoti Jagrati Sansthan. She was exstudent & faculty of DCE.**

Read more at:

[YouTube](#)

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January 31, 2025

## IIRF RANKING 2025

भारत के टॉप  
सरकारी BBA  
कॉलेज



IIRF Ranking 2025: भारत के टॉप 50  
सरकारी BBA कॉलेज की सूची जारी,  
दिल्ली टेक्नोलॉजिकल यूनिवर्सिटी टॉप  
पर

Read more at:  
[hindi.careerindia.com](http://hindi.careerindia.com)



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