Special Sessions

of

Nanotechnology for Better Living

NBL-2025

From:

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1. Smart education-

A concept that describes learning in digital age in presence of peers and parents

In digital age of global competition, schools and universities have to train young people for creative thinking, collaboration, and complex problem solving.

2. Industry Institute partnership-

A dream, yet to materialize

Industry Institute partnerships reflects in equipping faculty to latest practices and makes the students industry-ready by providing exposure to current industry practices, and hone their skills to adapt changing technologies.

3. Clean Energy & Smart Homes

Smart Homes: The Next Frontier & Solar energy the only way out

The intersection of solar energy and smart home technology represents a significant leap towards creating sustainable and efficient living space. As the world embraces renewable energy, solar power has emerged as a frontrunner, offering clean and abundant energy.

4. Climate, Clean Water & Green Technologies

Carbon dioxide builds up in the atmosphere and causes Earth's temperature to rise, much like a blanket traps in heat. This extra trapped heat not only increases temperatures, but it also disrupts many of the interconnected systems in our environment.

5. Health care & Biotech

Emerging Applications of Nanotechnology in Healthcare and Medicine

The development of better and safer medications, tissue-focused activities, and personalized Nano medicines is driven by nanoparticles.

Biotech products have ushered in a new era of healthcare technology, redefining the approach to diagnosis, treatment, and prevention. These innovations improve patient outcomes and inspire hope for a future where previously incurable diseases may become manageable or curable.

6. Nano fertilizers, agri and safe food

Nanotechnology emerges as a promising avenue, offering substantial opportunities to revolutionize food safety practices and elevate agricultural productivity in a sustainable manner.

Nano-fertilizers the next agri revolutions

7. AI, Data Science and Quantum Computation

It's a marriage that could only happen in cyberspace -- quantum computing and artificial intelligence.

It has the potential to solve complex problems at speeds that would make even our most advanced classical computers look like abacuses in comparison

8. Satellites, Drones & Roberts

Will guard our planet

Geospatial intelligence (GEOINT) is the use of satellite and aerial imagery, as well as other geospatial data, to provide a better understanding of the Earth's surface. GEOINT can be used for a wide range of applications, including military intelligence, disaster response, and natural resource management.

9. Transportation and Electric Vehicles

Smart and Safe Roads-

If the EV sales growth experienced in recent years is sustained, CO_2 emissions from cars can be put on a path in line with the Net Zero Emissions by 2050 Scenario.
The rollouts of electric vehicles are set to avoid the need of 600 million barrels of oil a day.

10. Disaster and Remote Sensing

Disaster rehabilitation phase GIS is used to organize the damage information and the post -disaster census information, and in the evaluation of sites for reconstruction

11. Innovations : The Main theme

Good Education Makes Better Life