



ATHARVA EDUCATIONAL TRUST'S  
**ATHARVA COLLEGE OF ENGINEERING**

(Approved by AICTE, Recognized by Government of Maharashtra  
& Affiliated to University of Mumbai - Estd. 1999 - 2000)  
ISO 2100:2018 ISO 14001:2015 ISO 9001:2015  
NAAC Accredited

ACE/SEMINAR/HAS/FR- 22/2023-24

DATE: 27<sup>th</sup> Mar2024

**Guest Lecture on “Introduction to Nanotechnology ”**

<b>Date:</b>	27/03/2024
<b>Time:</b>	02:00 to 3:00 pm
<b>Google Meet link:</b>	<a href="https://meet.google.com/jnp-fxys-tyc">https://meet.google.com/jnp-fxys-tyc</a>
<b>Speaker details:</b>	Mr. Ramdasi Onkar Arun , Assistant Professor, Dept. Of Physics, Ramnarain Ruia Autonomous College.
<b>No. of Students attended:</b>	57
<b>Organized by:</b>	HAS Department
<b>Faculties assigned:</b>	Dr. Abhilasha Saini, Dr. Priyanka Badani

**Objective:**

- Concept and principles of nanotechnology.
- Various types of properties possessed by nanoparticles.
- Diverse applications across various sectors.
- Current research trends and developments.
- Environmental consideration associated with nanotechnology.

**Outcome:**

- Students could gain a solid understanding of the fundamental concepts and principles of nanotechnology.
- Students get information of various properties possessed by nanoparticles, including size-dependent physical, chemical, and biological characteristics.
- Students learn about the diverse applications of nanotechnology across sectors such as medicine, electronics, energy, and materials science
- Students gain insights into current research trends and developments in nanotechnology, including advancements in synthesis methods, characterization techniques, and novel



# ATHARVA EDUCATIONAL TRUST'S ATHARVA COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by Government of Maharashtra  
& Affiliated to University of Mumbai - Estd. 1999 - 2000)

ISO 2100:2018 ISO 14001:2015 ISO 9001:2015

NAAC Accredited

applications.

- Students develop an understanding of the environmental considerations associated with nanotechnology, including potential risks and benefits, enabling informed decision-making and responsible innovation.

## Topics Covered:

- Fundamental Concepts and Principles: Introduction to the basics of nanotechnology, including definitions, scale, and unique properties at the nanoscale.
- Nanoparticle Properties: Discussion on the various physical, chemical, and biological properties exhibited by nanoparticles.
- Nanotechnology Applications: Exploration of the diverse range of applications across sectors such as medicine, electronics, energy, and materials science.
- Interdisciplinary Nature: Highlighting the interdisciplinary nature of nanotechnology and its connections to fields like physics, chemistry, biology, and engineering.
- Current Research Trends: Overview of recent advancements, breakthroughs, and emerging research areas in nanotechnology.
- Ethical and Environmental Considerations: Addressing ethical, societal, and environmental implications associated with nanotechnology research and applications.

## Workshop Photographs:





# ATHARVA EDUCATIONAL TRUST'S ATHARVA COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by Government of Maharashtra  
& Affiliated to University of Mumbai - Estd. 1999 - 2000)  
ISO 2100:2018 ISO 14001:2015 ISO 9001:2015  
NAAC Accredited





# ATHARVA EDUCATIONAL TRUST'S ATHARVA COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by Government of Maharashtra  
& Affiliated to University of Mumbai - Estd. 1999 - 2000)  
ISO 2100:2018 ISO 14001:2015 ISO 9001:2015  
NAAC Accredited

How big is 'nano'?

ratio earth / football = ratio football / fullerene

Mumbai, Maharashtra, India  
Atharva Educational Complex, Atharva Back Rd, Malad, Charkop Naka, Asmita Jyoti Housing Society, Malad West, Mumbai, Maharashtra 400095, India  
Lat 19.19777°  
Long 72.827074°  
27/03/24 02:14 PM GMT +05:30

Dr. Abhilasha Saini  
Dr. Priyanka Badani

**Coordinator Name**

Dr. Ritu Sharma

**HOD - HAS**



Dr. Ramesh Kulkarni

**Principal**