ASSAM UNIVERSITY
SILCHAR

$E = mc^2$

$\frac{h^2}{2m}\nabla^2\psi$

Academic Triad Dialogue

A LECTURE SERIES OF ASSAM UNIVERSITY



Speaker
Prof. Utpal Sarkar
Professor of Physics

Topic
From Atoms to Molecules to Materials: An Atomistic View

Date & Time
9 October 2026
at 3:00 pm

Venue
Conference Hall, Rabindra Library, AUS

RSVP:

- Prof. Mahmood Alam Ansari
- Prof. Barunjyoti Choudhury
- Dr. Shubhadeep Roychoudhury
- Prof. Mukut Sarmah
- Prof. Jhimli Bhattacharjee

From Atoms to Molecules to Materials: An Atomistic View



Speaker

Prof. Utpal Sarkar

PROFESSOR OF PHYSICS

KEY TAKEAWAYS

Atoms and Molecules
Fundamental building blocks and their interactions.

Nanomaterials
Design and properties of advanced materials at the nanoscale.

Nano-biological Systems
Interplay of materials with biological systems.

Energy Harvesting and Storage
Atomistic understanding for next-generation energy materials.



LECTURE SESSION

Real-World Applications of Atomic-Scale Research

01 Biomedical Applications
Nanomaterials for drug delivery and therapeutic solutions.

02 Energy Storage & Conversion
Advanced materials for batteries, supercapacitors and clean energy.

03 Optoelectronic Applications
Materials with tunable optical and electronic properties.

04 AI-Driven Materials Discovery
Machine learning for next-generation solar-cell materials.

SPEAKER

Prof. Utpal Sarkar
PROFESSOR OF PHYSICS

Musical *Performance*

by the Students of the
Department of Performing Arts



Interactive Q&A Session

with **Faculty Members** and Scholars





$E = mc^2$

Thank You

Rabindra Library is honored to host the

Academic Lecture Series.

We extend our sincere thanks to the **organizers, Faculty Members, Speakers, and Research Scholars** for their valuable contributions and support in making the program a success.

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