



# Special Lecture # 2

## Vigyan Vidushi 2022 (Physics)

11 July 2022 @ 6.00 pm IST (Online)



## From Surfaces to Nanotechnology to 'NanoBio'

Surfaces Science and nanotechnology are used to manipulate matter on an atomic or molecular scale. They are also used to control the organization of technologically important objects into functional nano-materials. Biomolecules, like DNA, offer many unique properties as controllable and programmable scaffolds. Interactions between biomolecules and inorganic materials present many unique challenges and play important role in the design of novel hybrid materials and sensors

**Prof. Shikha Varma**  
Institute of Physics, Bhubaneswar



Prof. Shikha Varma is faculty at Institute of Physics, Bhubaneswar. Prof. Varma did her M.Sc. from IIT Kanpur & PhD at Syracuse University Syracuse, USA. She is an experimental Condensed matter Physicist working in the areas of Surface, nanoscience, nano Bio interactions and Ion beam application based studies. Her field of research involves fabrication and modulation of quantum dots and nanostructures on a variety of surfaces like semiconductors, oxides, graphene, bio-mimetic platforms etc. She has published over 150 refereed research articles in these areas. She has served on many national committees including special schemes of Government of India for women in STEM. Presently she is the Chair of the Accelerator User Committee (AUC), and member of the Governing Council of IUAC, New Delhi. She is active in science outreach programmes for undergraduate students and is also leading the Condensed Matter Physics Gender group in India.