

## <u>Report on "One-day Webinar on Atomistic Next Generation Materials &</u> <u>Device Simulation using NanoDCAL & RESCU Software"</u>



The Department of Physics, School of Basic & Applied Sciences, Harcourt Butler Technical University (HBTU), Kanpur has organized a one-day Webinar on Atomistic Next Generation Materials & Device Simulation using NanoDCAL & RESCU Software" on 19 Nov 2022. by Dr. Divya Somvanshi, Assistant Professor, Department of Physics, HBTU, Kanpur. The main speaker in this Webinar was Mr. Anil Kumar Sharma, Managing Director, Impulse Technology. To reach out more no of participants, there was no registration fees for the event. Total 71 people have joined the webinar from various Central university, NITs, IITs, and people from outside India also participated in this Webinar. The webinar focussed on atomistic simulations of new advanced materials such as 2D materials, their fundamental about



simulation, electronic transport etc. It is to be mentioned here that Ab initio methods (first principles) have been used to study a variety of systems that can be represented with a few dozens to a few hundred atoms, including semiconductors, metals, and topological insulators. This webinar presented Nanoacademic's atomistic software suite, to construct molecules, surfaces, crystals, interfaces, and devices at the nanoscale range & predict the electronic-like band structure, the density of state & electrical properties transmission coefficient, current, IV characteristics of nanoscale devices. Many questions are asked by attendees and their queries are resolved by speakers.

Overall, this webinar was a successful events and all the attendees gained valuable simulation skills and knowledge that they could apply in their research works. The organizers also received positive feedback from the attendees and based on that organizers are also planning to conduct an On-line Short-term course (STC) in the near future to cater the growing demand for simulation of advanced materials.

Registration Form (snap shot):

## Atomistics Next Generation Materials & Device Simulation using NanoDCAL& RESCU Software

Speaker Er. Anil Kumar Sharma, Managing Director, IMPULSE TECHNOLOGY

Name of the Candidate (To be Printed on Certificate) \*

Short answer text

Designation (Kindly mention whether You are Professor/ Associate Professor / Assistant \* Professor / Research Scholar or Others

Short answer text

Affiliation (University / Institute) \*

Short answer text

Divya Somvanshi