

----- Original Message -----  
Subject: [Scdt] SCDT-FlexE Centre Weekly Tuesday Seminar - 20.09.2022 at 7:30 PM  
From: "SCDT, IIT Kanpur" <scdt@iitk.ac.in>  
Date: Sun, September 18, 2022 12:28 am  
To: scdt@lists.iitk.ac.in  
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Zoom Meeting for joining the webinar:  
<https://zoom.us/j/99863678964?pwd=ZVJvdFN5T1UyQjdZbmxwS0htRUJOUT09>

Meeting ID: 998 6367 8964  
Passcode: 064022

Dear Colleagues,

Mr. Anil Kumar Sharma, the Managing Director of Impulse Technology will give a talk on "Atomistics Next Generation Materials & Device Simulation Using NANODCAL Software". Please join the seminar on Tuesday, 20th September in the evening at 7:30 PM.

With regards  
S.K.I.

~~~~~ Details of the Seminar ~~~~~

Weekly Seminar Title:  
Title: "Atomistics Next Generation Materials & Device Simulation Using NANODCAL Software"

Date: 20th September, 2022  
Time: 7:30 PM to 8:30 PM  
Zoom link for the event is given above at the start of this email.

Link to information about seminar:  
[https://home.iitk.ac.in/~sskiyer/TEMP/2022.09.20-SCDT-Seminar-Mr.Anil\\_Sharma.pdf](https://home.iitk.ac.in/~sskiyer/TEMP/2022.09.20-SCDT-Seminar-Mr.Anil_Sharma.pdf)

#### Abstract

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Material and device physics is ultimately determined at the atomic scale because material parameters like bulk modulus or Fermi level depend on the atomic structure and chemical bonds, or because the system is intrinsically nanometric in size. So-called ab initio methods (first principles) have been used to study a variety of systems which can be represented with a few dozen to a few hundred atoms, including semiconductors, metals, topological insulators. This webinar will present Nanoacademic's atomistics software suite, to construct molecules, surfaces, crystals, interface, device at nanoscale range & predict the electronic like band structure, density of state & electrical properties transmission coefficient, current, IV characteristic of nanoscale devices and more.

#### Biography

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ER. Anil Kumar Sharma is the Managing Director of Impulse Technology ([www.impulsetechnology.in](http://www.impulsetechnology.in)). He has completed B. Tech with Electronics & Communication from Rajiv Gandhi Technical University Bhopal (M.P). He has worked in industries like Integrated Microsystem on QuantumATK Software from Synopsys Technical Specialist for Seven years. He has provided training on Nanotechnology Simulation Software like QuantumATK, in different renowned institute like IIT Mumbai. His current company, Impulse Technology is presently working on Nanoacademic's Software Suite, NanoDCAL/RESCU. In the webinar he will show presentation & demonstration on Nanomaterial & Nanodevice modeling & Simulation using NanoDCAL Software from Nanoacademic Technologies.

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