



Virtual Workshop

on

# “Density Functional Theory and Its Applications”

8 – 12 September 2021

Organized by

Department of Physics, Assam University, Silchar

## ABOUT THE WORKSHOP

The density functional theory (DFT) is one of the most popular quantum mechanical methods used to investigate the electronic structure and properties of a large number of systems including molecules, drugs, biomolecules, bulk- and nano-materials. It is nowadays routinely employed in variety of areas such as, physics, chemistry, materials science, biosciences, nanotechnology etc. Despite its utility in diverse areas of research, the essential idea of DFT calculations are, by and large, conceivable at the postgraduate level. **The objectives of this workshop** are to introduce the basic concept of DFT, demonstrate their utility in diverse areas of science, bringing in exciting examples from the field, and guide participants through implementation of the techniques for simple problems.

The workshop is intended for final year PG students, research scholars as well as faculty members having interest in the subject matter of Indian universities/colleges/institutes.

## INVITED SPEAKERS



**Prof. K. D. Sen**

INSA Senior Scientist  
Department of Chemistry  
University of Hyderabad

**Prof. Prafulla K. Jha**

Department of Physics  
The Maharaja Sayajirao  
University of Baroda

**Prof. A. K. Das**

Senior Professor  
IACS, Kolkata

**Prof. Tanusri**

**Saha-Dasgupta**  
Senior Professor  
SNBNCBS, Kolkata

**Dr. N. R. Jena**

Asstt. Professor  
IIITDM, Jabalpur

**Dr. Abhishek K. Mishra**

Associate Professor  
UPES, Dehradun

Information about Assam University can be found at:

[www.aus.ac.in](http://www.aus.ac.in)



## CONTACT US

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## REGISTRATION

FEE : NIL

Registration Link:

<https://forms.gle/XqtsnG6jAQN>  
[DLFGc6](https://forms.gle/DLFGc6)



LAST DATE:

5 September 2021

VENUE



Google Meet

## ORGANIZING COMMITTEE

**Chief Patron:**

**Prof. D. C. Nath**

Hon'ble Vice-Chancellor  
Assam University, Silchar



**Patron:**

**Prof. C. R. Bhattacharjee**

Dean, School of Physical Sciences  
Assam University, Silchar



**Chairperson:**

**Prof. B. I. Sharma**

Head, Department of Physics  
Assam University, Silchar



**Coordinator:**

**Dr. P. K. Shukla**

Assistant Professor  
Department of Physics  
Assam University, Silchar



**Members:**

**All faculty members of the Department**