



विश्वजीवनामृतं ज्ञानम्
ABV-IIITM GWALIOR

Pre-Conference Workshop of CANDEE-2026

5th International Conference on Advances in Nanomaterials
and Devices for Energy and Environment



04 December 2026



ABV-IIITM Gwalior



Modeling
Today
for a Sustainable
Tomorrow

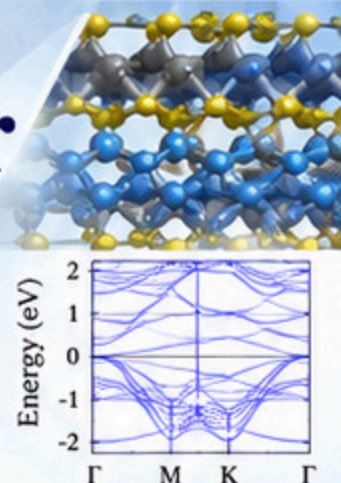
Hands-on Training
Using ATK and NanoDCAL

From Atomic Insights to Real-World
Energy Solutions

Advanced Atomistic Simulations for Energy Materials and Devices

A Hands-on Workshop Using ATK and NanoDCAL

Gain practical skills in atomistic modeling, simulation and analysis of materials and devices
for energy, environment and emerging technologies through guided tutorials, live demonstrations
and case studies using ATK and NanoDCAL.



WORKSHOP HIGHLIGHTS

- ✓ Structure building, optimization and stability analysis
- ✓ Electronic, charge transport and optical properties
- ✓ Modeling of batteries, supercapacitors and energy devices
- ✓ Device-level simulations and I-V characteristics
- ✓ Case studies on sensors, energy harvesting and advanced functional materials
- ✓ Guided hands-on tutorials with real-world examples



WHO CAN PARTICIPATE ?



Undergraduate Students
(B.Sc., B.Tech., B.E., etc.)



Post Graduate Students
(M.Sc., M.Tech., etc.)



Research Scholars
(Ph.D. and Post-Doctoral Candidates)



Faculty Members



Industry Professionals



Anyone interested in atomistic
modeling and device simulations
for energy, environment and
emerging technologies



SOFTWARE PLATFORM

ATK
Atomistic
Modeling



NanoDCAL
Device
Simulation

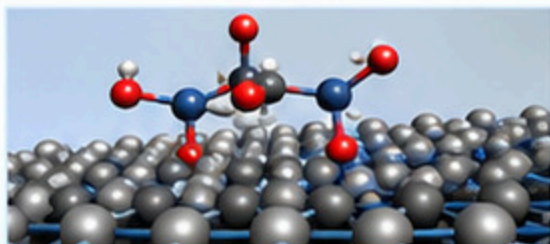
Integrated Training for
Materials to Devices



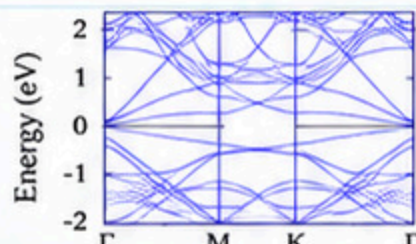
IMPORTANT DATES

Workshop Date
04 December 2026

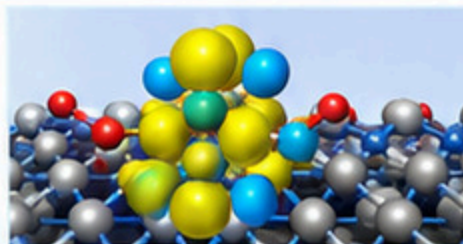
Registration Deadline
30th October 2026



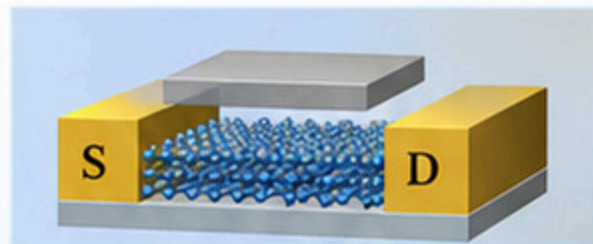
Molecular adsorption on 2D materials



Electronic band structure



Charge density difference



Device simulation

The workshop is free for registered participants of CANDEE-2026 who have completed the registration fee payment.
For non-participants of CANDEE-2026: ₹1000/-

Limited seats | First come, first served | Hands-on training with high-performance computational resources

Patron
Prof. S.N. Singh
Director, ABV-IIITM Gwalior

Coordinator
Prof. Anurag Srivastava
ABV-IIITM Gwalior



For any query, please contact:
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Mr. Rahul Kumar Jha : +91-9699658997

CLICK HERE!

Registration Link
Fee Payment Link

Organized by:
Department of Engineering Sciences, ABV-IIITM, Gwalior

In association with:



Anusandhan
National
Research
Foundation

Scheme for Promotion of Academic and Research Collaboration

