## IMPORTANT DATES

- Regular Registration From: 19 October, 2026
- Workshop Dates: 28 - 29 October, 2026

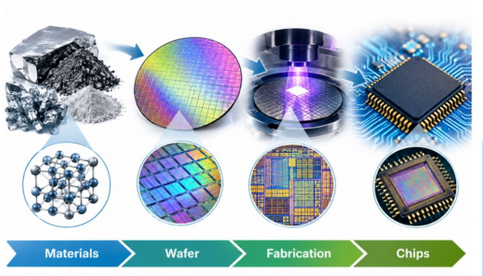
## REGISTRATION FEES

FOR REGISTRATION
SCAN THE GIVEN QR CODE

- Scholars/Students: Rs 750/-
- Faculty: Rs 1500/-
- Industry: Rs 5000/-

## ADVISORY COMMITTE

- **Prof. Shakil Ahmad Romshoo,** Vice Chancellor, IUST Kashmir
- **Prof. Umesh V. Waghmare** JNCASR/Secretary, DST-India- TBC
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- **Prof. H.S. Jatana,** Semi-Conductor Laboratory (SCL), Mohali
- **Prof. Venugopal Rao Soma,** School of Physics, University of Hyderabad
- **Prof. Ahmad Umar,** Najran University, KSA/Ohio State University, USA
- **Dr. S. Chanakya Bodepudi,** School of Integrated Circuits, ZJU China
- **Dr. Enam Chowdhury,** Assoc. Prof., Ohio State University, USA
- **Dr. Rukhsan Ul Haq,** CEO & CS, Chinar Quantum AI, Srinagar
- **Mr. Faisal Kawoosa,** Founder & Chief Analyst, TechARC Technology




## KEYNOTE SPEAKERS

### DR. AJAI CHOWDHARY (TBC)

Cofounder HCL, Chairman, Mission Governing Board, National Quantum Mission of India, Co-Founder EPIC Foundation

### PROF. UMESH V. WAGHMARE (TBC)

Secretary, Department of Science & Technology

## ORGANIZING COMMITTEE



### PATRON
### PROF. SHAKIL AHMAD ROMSHOO
### HON'BLE VC, IUST

### CO-CONVENERS



**PROF. FAROZE AHMAD**
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**DR. FAROOQ HUSSAIN BHAT,**
**DEAN, SoS, IUST**

### ORGANIZING SECRETARY



**DR. ROMANA YOUSUF**
**AP, IUST, KASHMIR**

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- **Dr. Liyaqat Nazir,** Dept. of Elect. & Comm. Eng. IUST Kashmir
- **Dr. Irfan Maqbool,** CDRR-IUST Kashmir
- **Dr. Shakeel Ahmad Khandy,** FRIIS-IUST Kashmir
- **Dr. Rizwan Nabi,** FRIIS-IUST Kashmir
- **Dr. Aamir Mushtaq,** FRIIS-IUST Kashmir
- **Dr. Rabia Hassan,** FRIIS-IUST Kashmir

## CONTACT DETAILS

Website: www.iust.ac.in
Email: coordinator.cesqm@iust.ac.in

ISLAMIC UNIVERSITY OF SCIENCE & TECHNOLOGY, KASHMIR

# 2-DAY NATIONAL WORKSHOP ON SEMICONDUCTORS, QUANTUM MATERIALS AND DEEP TECHNOLOGY

*[Collaborate, Innovate, Transform- Shaping the Future Together]*

## [28-29 OCTOBER, 2026]

## HYBRID-MODE

### ORGANIZED BY

### CENTRE OF EXCELLENCE FOR SEMICONDUCTORS AND QUANTUM MATERIALS

### ISLAMIC UNIVERSITY OF SCIENCE AND TECHNOLOGY KASHMIR

### SPONSORS & PARTNERS

JKSTIC JAMMU & KASHMIR
DRDO
NRF National Research Foundation
J&K Bank

## ABOUT IUST

The Islamic University of Science and Technology (IUST), Awantipora, J&K has been established through an Act No. XVIII of 2005 dated: 7th November 2005 passed by J&K State Legislature and notified by the State Government, through Jammu & Kashmir Government Gazette dated: 11-11-2005. While the university started functioning in November, 2005 the teaching programme was started in July 2006. The Chancellor of the University is the Lieutenant Governor of Union Territory of Jammu & Kashmir and the executive authority of the University is its Executive Council with the Vice Chancellors of University of Jammu, University of Kashmir and Baba Ghulam Shah Badshah University as members. The University is accredited by NAAC with Grade 'B+' and is recognized by University Grants Commission (UGC) under Section 2(f) and Section 12(b) of UGC Act. The Technical and nursing programmes offered by the University are approved by All India Council for Technical Education (AICTE) and Indian Nursing Council (INC). The University has the membership of Association of Indian Universities (AIU). The University came into existence with a mandate to advance and disseminate knowledge, wisdom and understanding amongst all segments of the society within and outside the UT. It is also charged with creating an environment for learning, teaching and research in the sciences, technology, humanities and social sciences and that is in keeping with the highest standards of scholarship and higher education. People belonging to all sections of society are entitled to avail the facilities and opportunities offered by the University and there is no distinction on the basis of class, caste, creed, colour or religion.

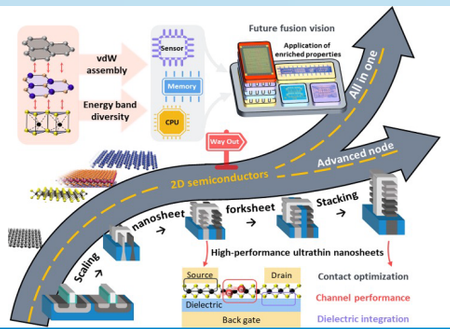


## ABOUT CoESQM

The Centre of Excellence for Semiconductors and Quantum Materials (CoESQM) at IUST is a multidisciplinary research hub dedicated to advancing semiconductor physics, device engineering, and quantum materials. CoESQM focuses on the design, modelling, and fabrication of next-generation electronic and optoelectronic devices, including nanoscale transistors, lowdimensional quantum wells, and topological insulators. By exploring phenomena such as carrier transport, spin dynamics, and light-matter interactions, the centre aims to overcome the fundamental scaling and efficiency limits of traditional silicon architectures. Integrating advanced computational material design with state-of-line experimental characterization. The centre is committed to fostering a vibrant ecosystem for training future researchers, driving indigenous technological innovation, and building strategic partnerships to support the future of semiconductor and quantum engineering.

## ABOUT THE WORKSHOP

Semiconductor and quantum technologies are revolutionizing future of electronics, computing, artificial intelligence, communication, healthcare, clean energy, and defence. This 2-Day national workshop provides a multidisciplinary platform for researchers, academicians, industry professionals, policymakers, and students to explore recent advances in semiconductor materials, quantum technologies, computational material science, device engineering, fabrication, testing, and intelligent electronic systems. Aligned with India's Semiconductor Mission (ISM), National Quantum Mission (NQM), India AI Mission, Atmanirbhar Bharat, and Viksit Bharat@2047, the workshop aims to strengthen research collaborations, promote innovations, and develop a skilled work force for India's emerging semiconductor ecosystem.




## WORKSHOP OBJECTIVES

- Provide an overview of modern computational design and prediction of novel materials using first-principles calculations, machine-learning, high-computing, and AI.
- Familiarize with the synthesis and fabrication techniques for semiconductor and quantum materials.
- Promote interdisciplinary research collaborations among academia, national laboratories, and industry.
- Encourage young researchers and students to pursue research careers in semiconductor technology, quantum materials, and advanced computing.

## EXPECTED OUTCOMES

- Enhance knowledge of emerging semiconductor and quantum technologies.
- Strengthen interdisciplinary collaborations among researchers.
- Promote academia–industry interactions.
- Build capacity in computational and experimental materials research.
- Encourage collaborative research proposals aligned with national funding agencies.
- Inspire students and early-career researchers to pursue frontier research.
- Support the development of skilled human resources required for India's semiconductor and quantum technology ecosystem.

## WHO SHOULD ATTEND

- Master's and PhD Students
- Faculty Members and Scientists
- Industrial Professionals
- Engineers working in Semiconductors & Quantum Technologies

## MAJOR THEMES

1. Semiconductor Materials and Fabrication
2. Quantum Materials, Design and Computation
3. Semiconductor Technologies, Devices, Manufacturing
4. Semiconductor Test, Verification and Reliability
5. Quantum Computing (QC)
6. Emerging Technologies
7. Policy, Funding, & Regulatory Landscape