

KLS Vishwanathrao Deshpande Institute of Technology



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REPORT

**Topic of FDP: Quantum-Driven
Semiconductors: Fabrication, Function, and
Future**

**Date: 10th November tp 15th November 2025 ,
Institute Name: KLSVDIT, Haliyal**

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Faculty Development Program Report (2025-26)

FDP Title: Quantum-Driven Semiconductors: Fabrication, Function, and Future

Thrust Area: Engineering and Management

Date: November 10, 2025 – November 15, 2025

Session-Wise Report: Salient Aspects

This report systematically addresses all 13 technical sessions of the FDP, covering the three core themes: Fabrication, Function, and Future of Quantum-Driven Semiconductor Technologies.

ATAT Online 6 Day Faculty Development Program 2025-26: Schedule					
FDP Thrust Area: Semiconductors					
FDP Title: Quantum-Driven Semiconductors: Fabrication, Function, and Future					
Start Date: 10-11-2025					
End Date: 15-11-2025					
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
6:00PM to 6:30PM Inaugural Session	6:00PM to 7:30PM Session 3 Topic: Doping Strategies and Charge Carrier Transport at the Nanoscale Name of the Expert: Prof. M.D. Kamatagi Designation & Organization: Associate Professor, GFGC Ramadurg Years of Exp:15	6:00PM to 7:30PM Session 5 Topic: Advanced Fabrication Methods: Molecular Beam Epitaxy, CVD, and Atomic Layer Deposition Name of the Expert: Dr. Shridhar M Scientist, FSL Bangalore	6:00PM to 7:30PM Session 7 Topic: Electron Microscopy for Nanomaterials Name of the Expert: Dr. Surabhi. Srivatsava Designation & Organization: Professor, University of Chilie. Chilie. SA Years of Exp:15	6:00PM to 7:30PM Session 9 Topic: Nano-Semiconductor Devices Name of the Expert: Dr. Dhriti. ghosh Designation & Organization: Associate Professor, IIT, Dharwad Years of Exp:15	2:00PM to 3:30PM Session 11 Topic: Emerging 2D and Quantum Materials Name of the Expert: Dr. Arun. N Designation & Organization: Research Scientist / OLA Years of Exp: 10
6:30PM to 8:00PM Session 1 Topic: Introduction to Nano-Semiconductors Name of the Expert: Dr. G.H. Pujar, Designation & Organization: Assistant Professor, GFGC, Karnataka Years of Exp:10	7:30PM to 9:00PM Session 4 Topic: Scaling Laws and Their Impact on Nano-Device Performance Name of the Expert: : Dr. Sriyathsava Surabhi Designation & Organization: Associate Professor, DU, Davangere. Years of Exp:15	7:30PM to 9:00PM Session 6 Topic: Lithography and Nanopatterning Techniques for Device Structuring Name of the expert: Dr. Uday. Khadke Designation & Organization: Professor. Vijaynagara SK University, Bellari Years of Exp:25	7:30PM to 9:00PM Session 8 Topic: Spectroscopy and Scanning Probe Techniques Name of the Expert: Dr. Adarsh. Shetty. Designation & Organization: Assistant Asst. Professor/ JCE, Hubballi Years of Exp:10	7:30PM to 9:00PM Session 10 Topic: Nano-Semiconductors in Optoelectronics and Energy Conversion Systems Name of the Expert: Dr. D.P.Singh Designation & Organization: Associate Professor, ULCO, CALAIS, FRANCE, Years of Exp:15	3:30PM to 5:00PM Session 12 Topic: Bio-Nano Interfaces Name of the Expert: Dr M S Sannaikar Designation & Organization: Asst. Prof./ KLSVDIT Years of Exp: 10
8:00PM to 9:30PM Session 2 Topic: Quantum Confinement and Bandgap Engineering Name of the Expert: Dr. Raviraj. Kashikar, IIT: Years of Exp: 20					5:00PM to 7:30PM Session 13 Topic: Environmental Impact, Green Nanotechnology, and Future Research Ecosystem : Dr. Raviraj. Kukarni Designation & Organization: Professor, Vishwapragna Uni., Solapur Years of Exp: 25
					6:30PM to 7:30PM Online test & feedback
					7:30PM to 8:00PM Valedictory Session

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Day 1: Monday, November 10, 2025 (Introduction and Core Concepts)

Session	Time	Topic	Expert	Salient Aspects Covered
Inaugural	6:00 PM – 6:30 PM	Inaugural Session	N/A	Formal commencement of the FDP, introduction to the thrust area (Semiconductors), and outlining the objectives of exploring Quantum-Driven Technologies across Fabrication, Function, and Future domains.
Session 1	6:30 PM – 8:00 PM	Introduction to Nano-Semiconductors	 Dr. G.H. Pujar , Assistant Professor, GFGC, Karnataka, Expertise: Fluorescence Spectroscopy, Nanoscience and DFT	Overview of the semiconductor roadmap and the necessity of shrinking device dimensions. Introduction to fundamental differences between bulk and nano-semiconductors. Key applications driving the nano-semiconductor revolution.

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<p>Session 2</p>	<p>8:00 PM – 9:30 PM</p>	<p>Quantum Confinement and Bandgap Engineering</p>	 <p>Dr. Raviraj Kashikar, IITRAM, Ahmedabad Expertise: Density Functional Theory, Theoretical Condensed Matter Physics</p>	<p>Detailed discussion on the quantum effects emerging at the nanoscale, specifically quantum confinement in 0D (quantum dots), 1D (nanowires), and 2D structures. Exploration of techniques for bandgap engineering to tune electronic and optical properties of materials for specific applications.</p>
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Day 2: Tuesday, November 11, 2025 (Material Function and Carrier Dynamics)

Session	Time	Topic	Expert	Salient Aspects Covered
<p>Session 3</p>	<p>6:00 PM – 7:30 PM</p>	<p>Doping Strategies and Charge Carrier Transport at the Nanoscale</p>	 <p>Prof. M.D. Kamatagi, Associate Professor, GFGC Ramadurg Expertise: Nano synthesis and device Technology</p>	<p>Focus on controlled introduction of impurities (doping strategies) to modify conductivity in nano-semiconductors. Analysis of charge carrier transport mechanisms (e.g., tunneling, ballistic transport) which dominate over drift-diffusion at the nanoscale.</p>

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<p>Session 4</p>	<p>7:30 PM – 9:00 PM</p>	<p>Scaling Laws and Their Impact on Nano-Device Performance</p>	 <p>Dr. Srivatsava Surabhi, Concepcion University, Chilie, South America Expertise: Photonics, Physics of 2D and 1D materials.</p>	<p>Examination of classic scaling laws (e.g., Dennard scaling) and why they break down at the nanoscale. Discussion on associated challenges like short-channel effects, leakage current, and power density, highlighting the need for quantum-driven architectural solutions.</p>
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Day 3: Wednesday, November 12, 2025 (Advanced Fabrication)

Session	Time	Topic	Expert	Salient Aspects Covered
<p>Session 5</p>	<p>6:00 PM – 7:30 PM</p>	<p>Advanced Fabrication Methods: Molecular Beam Epitaxy, CVD, and Atomic Layer Deposition</p>	 <p>Dr. Shridhar M, Scientist, FSL Bangaluru. Expertise: Advanced Fabrication methods in nanoscience.</p>	<p>Detailed technical review of thin-film deposition techniques critical for quantum materials. Focus on Molecular Beam Epitaxy (MBE) for high-purity crystalline layers, Chemical Vapor Deposition (CVD), and Atomic Layer Deposition (ALD) for ultimate thickness control and conformity.</p>

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<p>Session 6</p>	<p>7:30 PM – 9:00 PM</p>	<p>Lithography and Nanopatterning Techniques for Device Structuring</p>	 <p>Dr. Uday. Khadke, Professor, Vijaynagara SK University, Bellari Expertise: Lithography and ion beam nano patterning</p>	<p>In-depth exploration of state-of-the-art lithography (E-beam, Nanoimprint) for high-resolution patterning. Techniques for nanopatterning and their role in creating precise device structures necessary for exploiting quantum effects.</p>
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Day 4: Thursday, November 13, 2025 (Characterization)

Session	Time	Topic	Expert	Salient Aspects Covered
<p>Session 7</p>	<p>6:00 PM – 7:30 PM</p>	<p>Electron Microscopy for Nanomaterials</p>	 <p>Dr. Surabhi. Srivatsava, Professor, University of Chile, Chile, SA Expertise: Photonics, Physics of 2D and 1D materials.</p>	<p>Principles and applications of Transmission Electron Microscopy (TEM) and Scanning Electron Microscopy (SEM). Emphasis on using these techniques to visualize the crystal structure, defects, and morphology of the fabricated nano-semiconductors.</p>

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<p>Session 8</p>	<p>7:30 PM – 9:00 PM</p>	<p>Spectroscopy and Scanning Probe Techniques</p>	 <p>Dr. Adarsh. Shetty, Assistant Professor, JCE, Hubballi Expertise: Experimental Spectroscopy and DFT</p>	<p>Comprehensive coverage of Spectroscopy methods (e.g., Raman, Photoluminescence) for analyzing chemical composition and electronic states. Introduction to Scanning Probe Microscopy (SPM) techniques (AFM, STM) for surface characterization at the atomic level.</p>
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Day 5: Friday, November 14, 2025 (Devices and Applications)

Session	Time	Topic	Expert	Salient Aspects Covered
<p>Session 9</p>	<p>6:00 PM – 7:30 PM</p>	<p>Nano-Semiconductor Devices</p>	 <p>Dr. Dhriti. Ghosh, Associate Professor, IIT, Dharwad Expertise: Nano devices, Pervoskites solar cells</p>	<p>Focus on the architecture and operation of key nano-scale devices, including FinFETs, Gate-All-Around (GAA) FETs, and devices specifically utilizing quantum dots and nanowires, demonstrating improved efficiency and performance.</p>

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<p>Session 10</p>	<p>7:30 PM – 9:00 PM</p>	<p>Nano-Semiconductors in Optoelectronics and Energy Conversion Systems</p>	 <p>Dr. D.P.Singh, Associate Professor, ULCO, CALAIS, FRANCE Expertise: Optoelectronics, Liquid Crystals</p>	<p>Exploration of applications where quantum effects are paramount: highly efficient Optoelectronics (LEDs, lasers) and their use in Energy Conversion Systems (e.g., quantum dot solar cells and thermoelectric devices).</p>
<p>Session 11</p>	<p>2:00 PM – 3:30 PM</p>	<p>Emerging 2D and Quantum Materials</p>	 <p>Dr. Arun. N, Research Scientist, OLA Expertise: Nano engineering of devices and Theoretical analysis of Nanoscale devices.</p>	<p>Introduction to the revolutionary potential of Emerging 2D Materials (like Graphene, MoS2) and other next-generation Quantum Materials. Discussion on their unique electronic structure and potential to overcome silicon's limitations in future technologies.</p>

Day 6: Saturday, November 15, 2025 (Future Directions)

Session	Time	Topic	Expert	Salient Aspects Covered
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<p>Session 12</p>	<p>3:30 PM – 5:00 PM</p>	<p>Bio-Nano Interfaces</p>	 <p>Dr M S Sannaikar, Assistant Professor, KLSVDIT Expertise: Fluorescence Spectroscopy of nano materials and Bio Molecules</p>	<p>Discussion on the convergence of nanotechnology and biological systems. Focus on how nano-semiconductors are used in biosensing, drug delivery, and creating advanced bio-nano interfaces for applications in diagnostics and therapeutics.</p>
<p>Session 13</p>	<p>5:00 PM – 6:30 PM</p>	<p>Environmental Impact, Green Nanotechnology, and Future Research Ecosystem</p>	 <p>Dr. Raviraj. Kukarni, Professor, Vishwapragya Uni., Solapur Expertise: Environmental Chemistry and Nano in agriculture.</p>	<p>Critical examination of the Environmental Impact of nanotechnology. Emphasis on Green Nanotechnology principles and strategies (e.g., sustainable synthesis, reduced toxicity). Outlining the collaborative Future Research Ecosystem needed for continued innovation in quantum-driven technologies.</p>
<p>Closing</p>	<p>6:30 PM – 7:30 PM</p>	<p>Online Test, Feedback, & Valedictory Session</p>	<p>N/A</p>	<p>Evaluation of participant learning, collection of feedback, and</p>

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	7:30pm to 8pm			formal closing ceremony.
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Conclusion

The FDP successfully provided a comprehensive and structured deep dive into the interdisciplinary field of **Quantum-Driven Semiconductors**. By covering topics ranging from foundational quantum mechanics (Session 2) and advanced fabrication (Sessions 5, 6) to sophisticated characterization (Sessions 7, 8) and future applications in devices, optoelectronics, and bio-interfaces (Sessions 9, 10, 12), the program thoroughly addressed the three pillars: **Fabrication, Function, and Future**. The inclusion of Green Nanotechnology (Session 11) provided a responsible outlook on the development of these cutting-edge technologies.

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