



AC Patil
College of Engineering



REPORT on ATAL FDP

Six Day Online Faculty
Development Programme under
AICTE training & Learning
(ATAL) Programme on

**“Next-Gen Computing:
Advances in HPC and
Quantum Technologies for
Data-Driven Insights”**

DURATION:

DEC 9, 2024 TO DEC 14, 2024

ORGANIZING BODY:

DEPARTMENT OF INFORMATION
TECHNOLOGY, A. C. PATIL COLLEGE OF
ENGINEERING, KHARGHAR, NAVI MUMBAI



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Department of Information Technology
Academic Year 2024-2025

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Faculty Development Program on Next-Gen Computing: Advances in HPC and Quantum Technologies for Data-Driven Insights.

6-Days AICTE sponsored FDP was conducted from 9th to 14th December 2024 in which around 182 participants from different parts of the country participated in Online mode organized by the Department of Information Technology, A. C. Patil College of Engineering, Kharghar, Navi Mumbai.

Co-ordinator: Dr. Varsha Y. Bhole (HoD & Associate Professor)

Co – Coordinator: Prof. Shaila P. Pawar (Assistant Professor)

The speakers for the 6-day FDP on “Next-Gen Computing: Advances in HPC and Quantum Technologies for Data-Driven Insights.” were as follows:

1) Dr. Sangita Chaudhari, Professor D. Y. Patil University, Navi Mumbai	
	<p>Designation: HoD & Professor, D. Y. Patil University, Navi Mumbai</p> <p>Education: PhD from IIT Bombay in Geospatial Data Security in 2016.</p> <p>Experience: 25 Years</p>
2) Dr. Pramod Mhaske, Senior Project Manager, IIT Bombay	
	<p>Designation: Senior Project Manager, IIT Bombay</p> <p>Education: PhD from IIT Bombay</p> <p>Experience: 20 Years</p>



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3) Dr. Wanus Srimaharaj, HoD & Professor, Payap University, Thailand



Designation: HoD & Professor, Payap University, Thailand

Education: Doctor of Philosophy Program in Computer Engineering
School of Information Technology
Mae Fah Luang University

Experience: 8+ Years

4) Dr. Ujwala Bhangale Post Doc, London South Bank University, UK



Designation: Post Doc, London South Bank University, UK

Education: Ph.D. from I.I.T. Bombay in 2018.

Experience: 16 Years

5) Mr. Mandar Gurav, HPC Performance Specialist, CDAC, Pune



Designation: HPC Performance Specialist, CDAC, Pune

Education: Doctor of Philosophy IIT, Bombay, (Thesis Submitted)

Experience: 14+ Years

6) Dr. Kuldeep Kurte, Research Scientist, Reliance Industries Ltd., Hyderabad



Designation: Research Scientist, Reliance Industries Ltd., Hyderabad

Education: Ph.D. in Spatial Image Information Mining from the Indian Institute of Technology, Bombay, India, in 2017.

Experience: 15 Years



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7) Mr. Shashank Sharma, Scientist-D, C-DAC Pune



Designation: Scientist-D, C-DAC Pune

Education: M.Tech in Embedded Control Software from IIT Kharagpur

Experience: 10+ Years

8) Mr. Amit Saxena, Scientist-E, C-DAC Pune



Designation: Scientist-E, C-DAC Pune

Education: MCA(Computer Science) Mohan Lal Sukhadia University, Uaipur

Experience: 18+Years

9) Dr. Shashikant Pandey, Scientist, Quantum Security Research Group, Chennai



Designation: Scientist, Quantum Security Research Group, Chennai

Education: Ph.D. from University of Delhi

Experience: 15+

10) Mr. Vivek Neinwal, Scientist-E, C-DAC, Hyderabad



Designation: Scientist-E, C-DAC, Hyderabad

Education: MTech in Data Science, Indian Institute of Technology Hyderabad

Experience: 18+



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11) Dr. Gurmohan Singh, Scientist-E, C-DAC, Mohali	
	<p>Designation: Scientist-E, C-DAC, Mohali</p> <p>Education: Ph.D. from NIT Jalandhar</p> <p>Experience: 18+ Years</p>
12) Dr. Vamshi Krishna Sabbi, Adjunct Engineer, C-DAC, Pune	
	<p>Designation: Adjunct Engineer (High-Performance Computing Application Expert) at C-DAC Pune</p> <p>Education: Ph.D Degree from Dr. A.P.J. Abdul Kalam Technical University (2021), Lucknow,</p> <p>Experience: 22+ Years</p>
13) Mr. Samrit Kumar Maity, Joint Director, C-DAC, Pune	
	<p>Designation: Joint Director, C-DAC, Pune</p> <p>Education: Master of Science, Birla Institute of Technology and Science, Pilani</p> <p>Experience: 18+ Years</p>



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The schedule of the workshop was as below-
Duration:- 09/12/2024 to 14/12/2024

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
<p>6:00PM to 6:30PM</p> <p>Inaugural Session</p> <p>Mr. Samrit Kumar Maity Joint Director, C-DAC, Pune</p> <p>Topic: Inauguration ceremony and Keynote session on Overview of Next-Gen Computing: HPC and Quantum Technologies</p> <p>Years of Exp: 15+</p>	<p>6:00PM to 7:30PM</p> <p>Session 3</p> <p>Topic: Scalable Data Solutions: Challenges and Innovations in HPC</p> <p>Name of the Expert: Wasana Srimitaraj</p> <p>Designation & Organization: HoD & Professor, Phyap University, Thailand</p> <p>Years of Exp: 8+</p>	<p>6:00PM to 7:30PM</p> <p>Session 5</p> <p>Topic: Real-World Applications of HPC in Industry: Case Studies</p> <p>Name of the Expert: Mr. Mundeel Gurav</p> <p>Designation & Organization: HPC Performance Specialist, C-DAC, Pune</p> <p>Years of Exp: 14+</p>	<p>6:00PM to 7:30PM</p> <p>Session 7</p> <p>Topic: Introduction to Quantum Computing: Concepts and Capabilities</p> <p>Name of the Expert: Mr. Shashank Sharma</p> <p>Designation & Organization: Scientist-EL, C-DAC, Pune</p> <p>Years of Exp: 10+</p>	<p>6:00PM to 7:30PM</p> <p>Session 9</p> <p>Topic: Quantum Computer System Organization and Ethics and Security in Data-Driven Quantum Computing</p> <p>Name of the Expert: Dr. Shashikant Paroley</p> <p>Designation & Organization: Scientist, Quantum Security Research Group, Chennai</p> <p>Years of Exp: 15+</p>	<p>7:00PM to 8:30PM</p> <p>Session 11</p> <p>Topic: Quantum Machine Learning</p> <p>Name of the Expert: Dr. Guneshwar Singh</p> <p>Designation & Organization: Scientist-L, C-DAC, Mohali</p> <p>Years of Exp: 18+</p>
<p>4:30PM to 6:00PM</p> <p>Session 1</p> <p>Topic: The Role of HPC in Big Data Analytics: Tools and Techniques</p> <p>Name of the Expert: Dr. Sangeeta Choudhary</p> <p>Designation & Organization: HoD & Professor, D. Y. Patil University, Navi Mumbai</p> <p>Years of Exp: 25 Years</p>	<p>7:30PM to 9:00PM</p> <p>Session 4</p> <p>Topic: Machine Learning in HPC Environments: Best Practices</p> <p>Name of the Expert: Dr. Urvashi Bhargava</p> <p>Designation & Organization: Post Doc, London South Bank University, UK</p> <p>Years of Exp: 16 Years</p>	<p>7:30PM to 9:00PM</p> <p>Session 6</p> <p>Topic: Performance Optimization Techniques for HPC Applications</p> <p>Name of the Expert: Dr. Kuldip Kaur</p> <p>Designation & Organization: Research Scientist, Reliance Industries Ltd., Hyderabad</p> <p>Years of Exp: 15</p>	<p>7:30PM to 9:00PM</p> <p>Session 8</p> <p>Topic: Quantum Computing Application Areas</p> <p>Name of the Expert: Mr. Amit Saxena</p> <p>Designation & Organization: Scientist-E, C-DAC, Pune</p> <p>Years of Exp: 18+</p>	<p>7:30PM to 9:00PM</p> <p>Session 10</p> <p>Topic: Quantum simulation - Introduction to Quantum Simulation Technologies and QSSM Tutorial</p> <p>Name of the Expert: Mr. Vivek Narwal</p> <p>Designation & Organization: Scientist-E, C-DAC, Hyderabad</p> <p>Years of Exp: 15+</p>	<p>7:30PM to 9:00PM</p> <p>Session 12</p> <p>Topic: Hybrid Computing Trends</p> <p>Name of the Expert: Dr. Varsha Krishna Sabar</p> <p>Designation & Organization: Adjunct Engineer, C-DAC, Pune</p> <p>Years of Exp: 21+</p>
<p>8:00PM to 9:30PM</p> <p>Session 2</p> <p>Topic: Data-Driven Insights: Leveraging HPC for Enhanced Decision-Making</p> <p>Name of the Expert: Dr. Prasad Mhaske</p> <p>Designation & Organization: Senior Project Manager, IIT Bombay</p> <p>Years of Exp: 20 Years</p>					<p>7:00PM to 8:30PM</p> <p>Session 13</p> <p>Topic: Future Trends in Computing: What's Next for HPC and Quantum Technologies</p> <p>Name of the Expert: Mr. Samrit Kumar Maity</p> <p>Designation & Organization: Joint Director, C-DAC, Pune</p> <p>Years of Exp: 18+</p>
					<p>6:30PM to 7:30PM</p> <p>Online test & feedback</p>
					<p>7:30PM to 8:00PM</p> <p>Voluntary Session</p>

The inauguration was held on 9th December 2024 online at 6:00 pm. The chief guest of the FDP was Mr. Samrit Kumar Maity, Joint Director at C-DAC, Pune, who also delivered the keynote address. Guest of Honour of the function was Dr. V. N. Pawar (Principal A. C. Patil College of engineering, Kharghar, Navi Mumbai). Dr. Varsha Bhole (HOD IT dept. ACPCE) Coordinator of the FDP, Prof. Shaila Pawar (Co-Coordinator), organizing Committee members were present with the participants.

Dr. V. N. Pawar (Principal ACPCE) addressed the participants about online FDP and various initiatives by ATAL Academy. Dr. Varsha Bhole, Coordinator proposed the Vote of Thanks.



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Some screenshots of the inaugural function are as below.

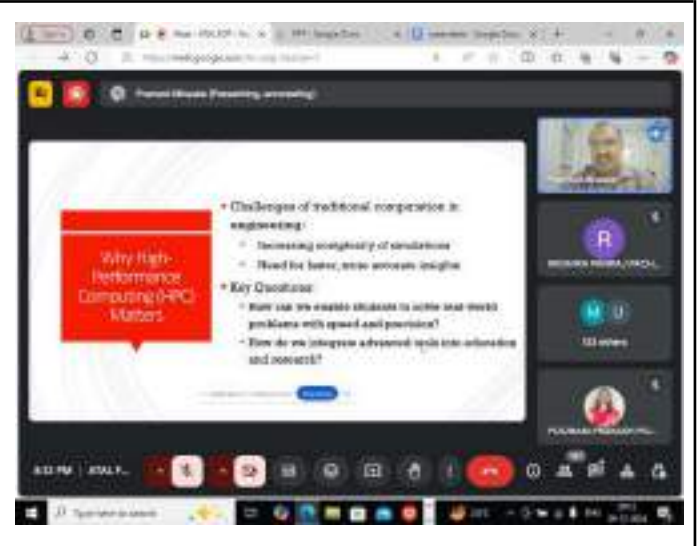
Inauguration, Day-1 Photos





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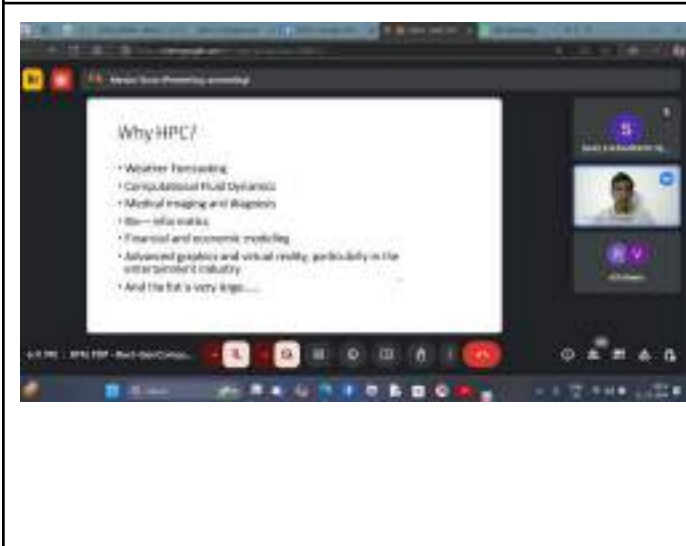
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Day-2 Photos



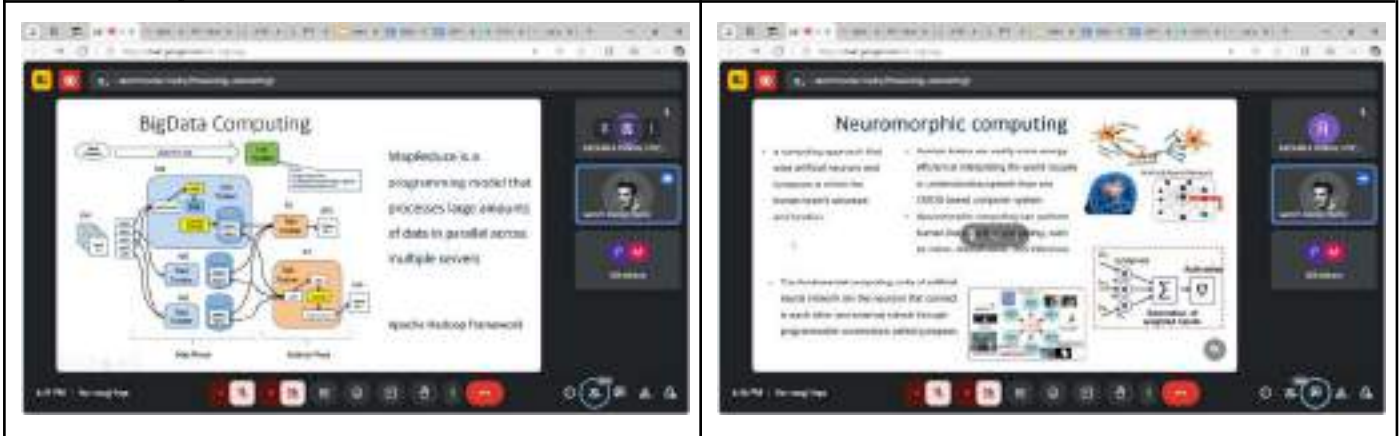
Day-3 Photos





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The screenshots of the participants taken on the closing are:-





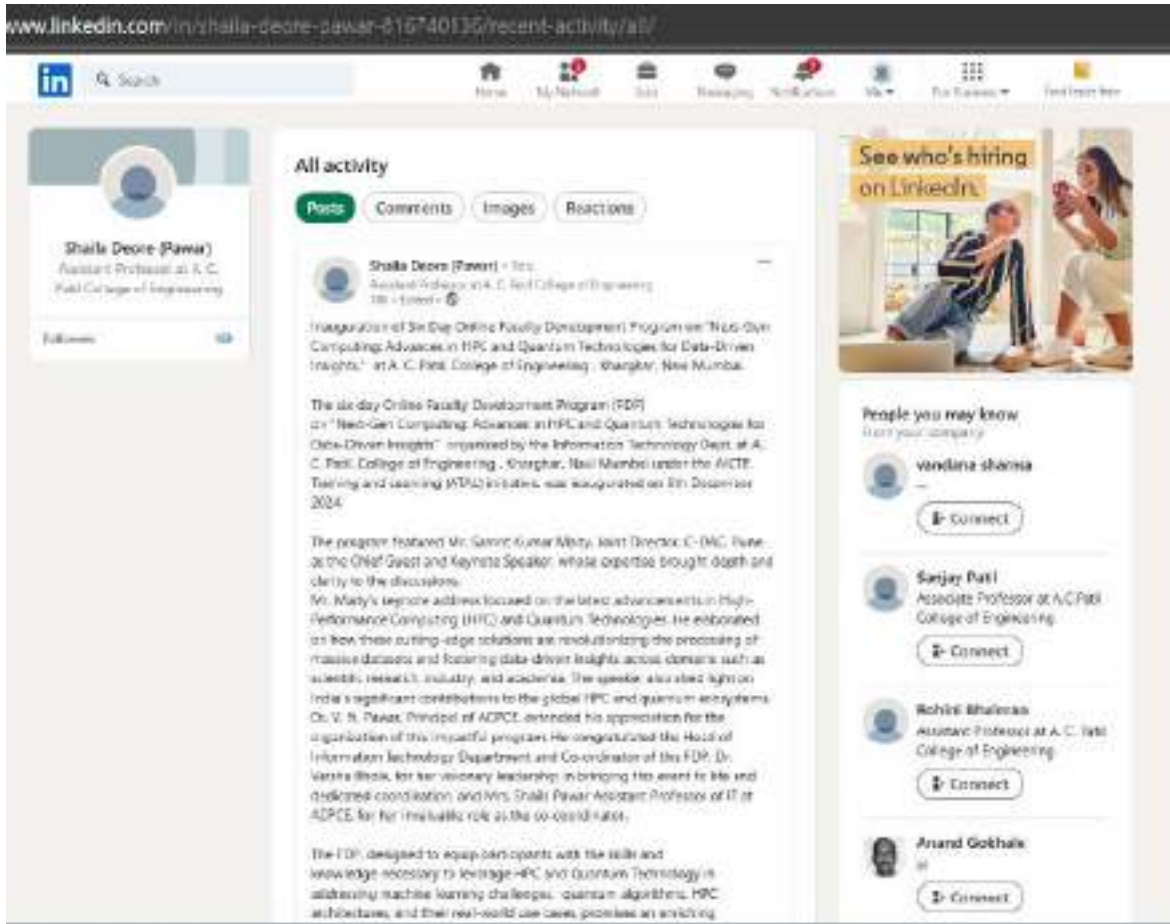
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Media Coverage Report

Below is the Link of the Post uploaded on Social Media (Linkedin)

https://www.linkedin.com/posts/shaila-deore-pawar-816740136_inauguration-of-six-day-online-faculty-development-activity-7275033951579054081-Kw8m?utm_source=share&utm_medium=member_desktop





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The list of participants was:-

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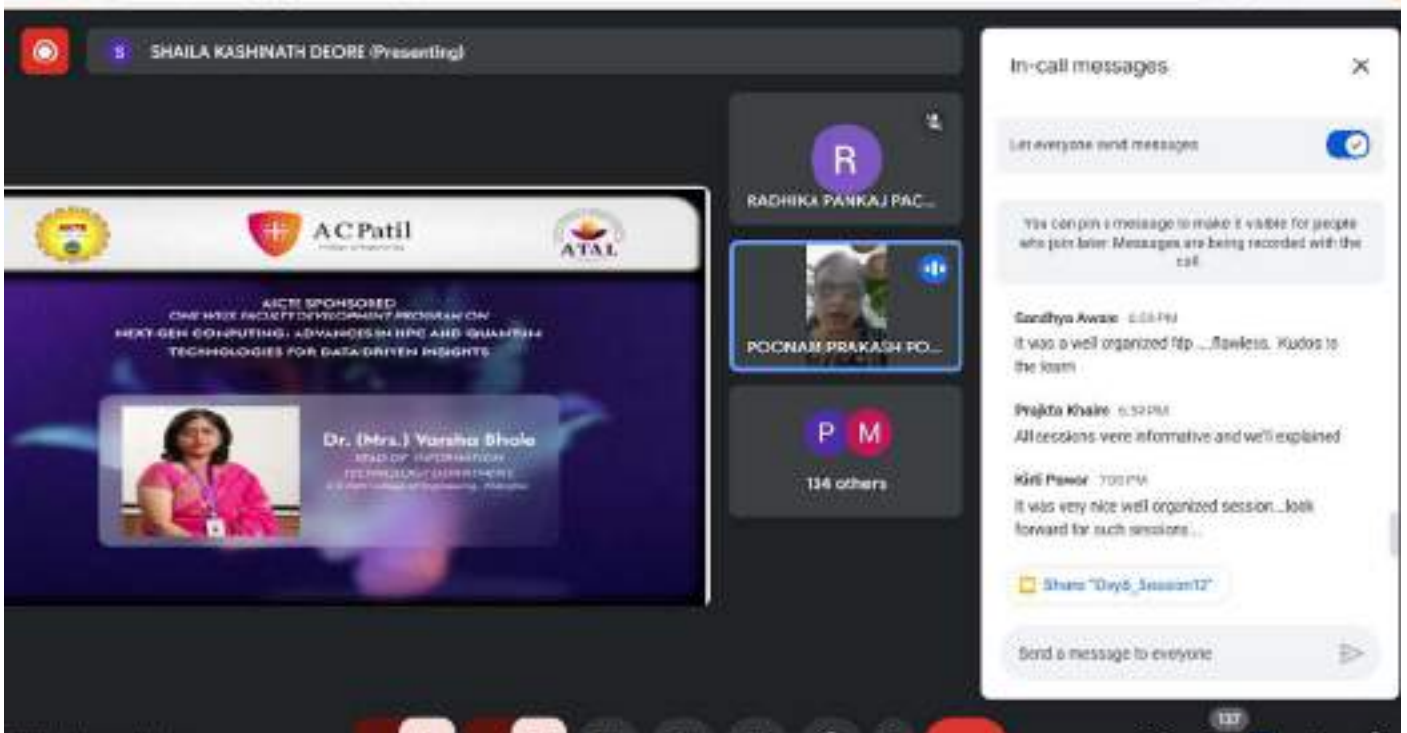
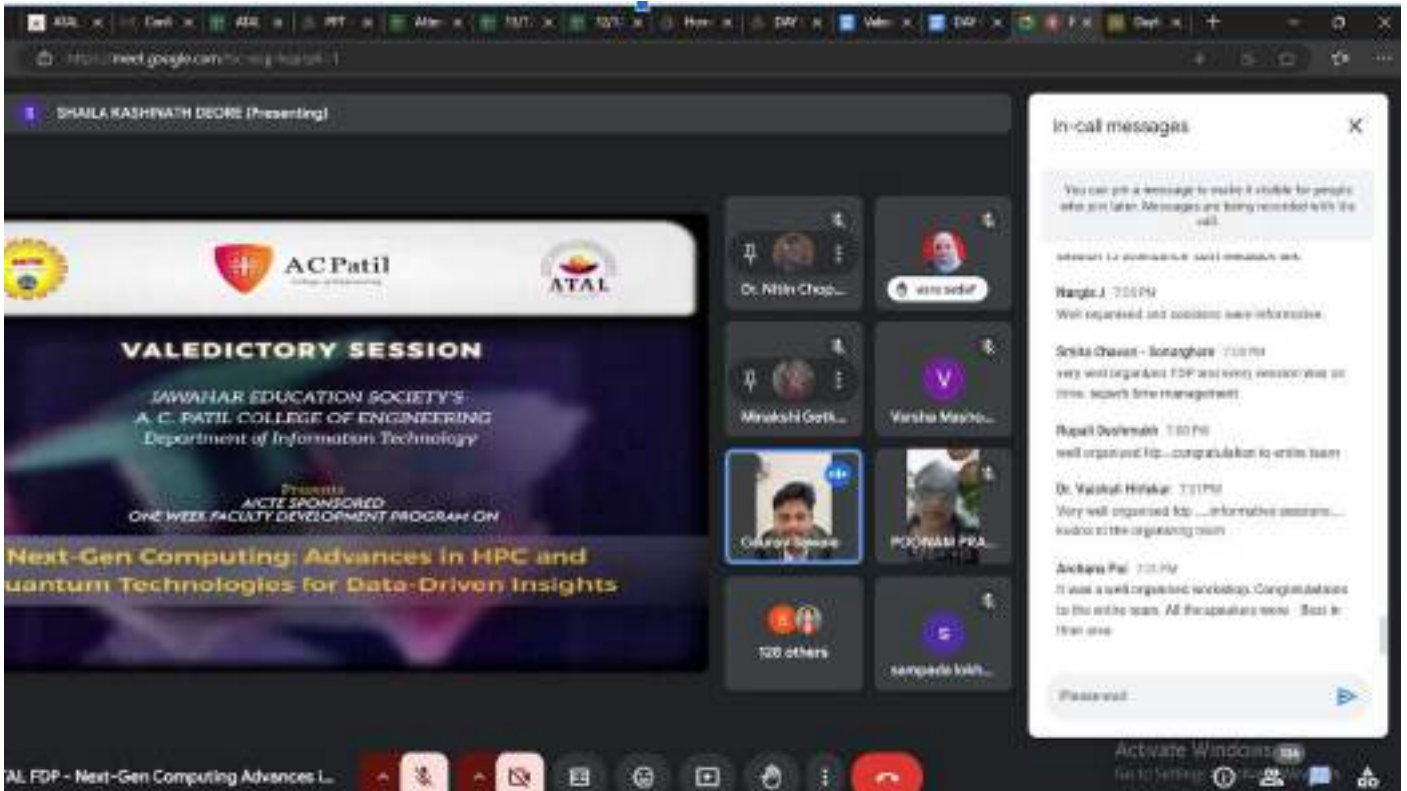
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Feedback received from the Participants in G-meet chatbox & Session wise below are:





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Link of Recorded FDP video and link of video of some participant's feedback after uploading it on YouTube.

Day 1 Inauguration link	https://www.youtube.com/live/Z4f7dO_WhV8
Day 1 Session 1 link	https://www.youtube.com/live/y7EeMOAYaOw
Day 1 Session 2 link	https://www.youtube.com/live/b_CViDY1sUk
Day 2 Session 3 link:-	https://www.youtube.com/live/5JgWeFR8lug?si=zlcKZST-jBh2CpCv
Day 2 Session 4 link:-	https://www.youtube.com/live/jLzwoRk8Djl?si=-1IGIyvteGvqTQg-
Day 3 Session 5 link:-	https://www.youtube.com/live/qBHUGRNDZmg?si=6xgwVNruly1zqUe_ https://www.youtube.com/live/wr7OTmMxTko?si=dSQ_R3mAllyawJwl
Day 3 Session 6 link:-	https://www.youtube.com/live/_LEcUWkzsfo?si=RrCPKm1K_Gb-xH SU
Day 4 Session 7 link:-	https://www.youtube.com/watch?v=ryuHM1FEkTk
Day 4 Session 8 link:-	https://www.youtube.com/watch?v=wZqb95MQhfs&t=9s
Day 5 Session 9 link:-	https://www.youtube.com/live/6nLYimAewJk?si=zjKODPg7wbcHXHZw
Day 5 Session 10 link:-	https://www.youtube.com/live/ZSVeM5HGBNQ?si=RDadXLLEEizVQ7q0
Day 6 Session 11 link:-	https://www.youtube.com/live/bfA7y0pVmqc?si=IFJBfAneS62nc0ot
Day 6 Session 12 link:-	https://www.youtube.com/watch?v=nZIOp-pTTDs&t=946s
Day 6 Session 13 link:-	https://www.youtube.com/live/wZBqWudPUv0?si=-KJ9RzMdIkFm8V OX
Participant's feedback	https://www.youtube.com/live/O3yhryomLwA



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Assessment Test Question with Answer

Question	1) Why is fault tolerance important in scalable HPC data solutions?
Option A	It ensures system reliability even in the event of hardware or software failures.
Option B	It eliminates the need for data backups.
Option C	It improves computational speeds significantly.
Option D	It reduces energy consumption in data centers.
Answer Key	Option A
Question	2) How does HPC enhance machine learning models in decision-making?
Option A	By automating the entire decision-making process
Option B	By reducing the need for model validation
Option C	By replacing the need for large datasets
Option D	By enabling faster training and simulation of models
Answer Key	Option D
Question	3) Which of the following is a key benefit of using HPC in Big Data Analytics?
Option A	Reduced data storage requirements
Option B	Faster processing of large-scale datasets
Option C	Elimination of data redundancy
Option D	Better user interface design
Answer Key	Option B
Question	4) What is the role of GPUs in HPC machine learning environments?
Option A	Managing network latency
Option B	Accelerating computations for parallelizable tasks
Option C	Replacing CPUs for general-purpose computing
Option D	Reducing storage requirements
Answer Key	Option B
Question	5) Which tool is commonly used for distributed training in HPC environments?
Option A	TensorFlow with Horovod
Option B	Jupyter Notebook
Option C	Google Colab
Option D	Microsoft Excel
Answer Key	Option A
Question	6) In the field of artificial intelligence, HPC is essential for:
Option A	Training large-scale machine learning models
Option B	Managing small-scale data sets



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Option C	Reducing the need for computational resources
Option D	Handling manual data entry tasks
Answer Key	Option A
Question	7) Which of the following techniques helps in improving data locality in HPC applications?
Option A	Vectorization
Option B	Loop unrolling
Option C	Cache blocking (tiling)
Option D	Over-subscription
Answer Key	Option C
Question	8) Which optimization technique focuses on overlapping communication and computation?
Option A	Load balancing
Option B	Pipeline parallelism
Option C	Asynchronous communication
Option D	Memory alignment
Answer Key	Option C
Question	9) What is the fundamental unit of information in quantum computing?
Option A	Bit
Option B	Qubit
Option C	Byte
Option D	Quantum Gate
Answer Key	Option B
Question	10) Quantum gates operate on qubits to perform operations. Which of the following is an example of a quantum gate?
Option A	0
Option B	OR Gate
Option C	NOT Gate
Option D	Hadamard Gate
Answer Key	Option D
Question	11) How does quantum computing benefit optimization problems in industries?
Option A	By speeding up binary calculations
Option B	By solving problems using classical algorithms
Option C	By exploring multiple solutions simultaneously
Option D	By increasing storage capacity



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Answer Key	Option C
Question	12) Which of the following problems is quantum computing best suited for solving?
Option A	Sorting large arrays of data
Option B	Decrypting secure communications
Option C	Playing video games at high speeds
Option D	Formatting large documents
Answer Key	Option B
Question	13) Quantum key distribution (QKD) enhances security by:
Option A	Using quantum gates to encrypt data
Option B	Leveraging quantum entanglement for secure communication
Option C	Replacing passwords with quantum states
Option D	Providing faster computational speeds for encryption
Answer Key	Option B
Question	14) Which of the following best describes quantum superposition?
Option A	A qubit being in multiple states simultaneously
Option B	A qubit being in a single state at a time
Option C	A qubit entangled with another qubit
Option D	A qubit transitioning between 0 and 1
Answer Key	Option A
Question	15) Quantum decoherence refers to:
Option A	The process of stabilizing a qubit's state
Option B	Loss of quantum state due to interaction with the environment
Option C	Increasing qubit states for computation
Option D	Error correction in quantum systems
Answer Key	Option B
Question	16) Post-quantum cryptography aims to:
Option A	Prevent quantum computers from existing
Option B	Use quantum mechanics to encrypt classical data
Option C	Develop cryptographic algorithms resistant to quantum attacks
Option D	Replace all classical encryption with quantum key distribution
Answer Key	Option C
Question	17) What is the ethical implication of data-driven quantum computing in AI?
Option A	Bias amplification in AI decision-making processes
Option B	Reduction in computational complexity



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Option C	Improved accessibility to quantum resources
Option D	Reduced privacy concerns due to better encryption
Answer Key	Option A
Question	18) Which of the following is NOT a quantum algorithm used in QML?
Option A	Quantum Support Vector Machine (QSVM)
Option B	Variational Quantum Eigensolver (VQE)
Option C	Quantum Principal Component Analysis (QPCA)
Option D	Backpropagation Algorithm
Answer Key	Option D
Question	19) Which of the following frameworks supports quantum machine learning development?
Option A	TensorFlow Quantum
Option B	PyTorch QML
Option C	Qiskit Machine Learning
Option D	All of the above
Answer Key	Option D
Question	20) What is the primary challenge in implementing hybrid quantum-classical computing systems?
Option A	Lack of quantum hardware
Option B	Difficulty in integrating quantum and classical algorithms
Option C	Insufficient classical computational power
Option D	High failure rates of classical components
Answer Key	Option B



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93	Dr. Ramanpreet Kaur	129	Mrs. Shilpa Naresh Vatkar
94	Mr. PATIL RAHUL KERU	130	Miss Juveria Nargis
95	Mrs. Vishakha Kiran Chaudhari	131	Miss Nikita Datta Chandure
96	Miss Shwetambari Pundkar	132	Miss Prachi Narendrerao Deshmukh
97	Mrs. Ashvini Abhijit Gaikwad	133	Miss Pranita Pramod Deshmukh
98	Miss Deepika Nadar	134	Miss Dipali Arvind Sananse
99	Mrs. Neha Mayuresh Nazare	135	Miss Rasika S. Badre
100	Mrs. Leenata Parab	136	Mr. Debendra Maharana



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Sr. No	Name of the Participant	Sr. No	Name of the Participant
137	Mrs. S.V.Lakshmi Kumari	146	Dr. Manjusha Deshmukh
138	Mrs. Matwankar Shirin Hijaz	147	Mrs. Puja Patil
139	Mr. Bhimade Shamsundar Sadashiv	148	Mrs. Nilima Patil
140	Dr. Muthukumar B	149	Dr. Pooja Krishnamurthy Revankar
141	Mr. Sangram Sanjayrao Dandge	150	Mrs. Bhagavatula V D Jagadeeswari
142	Miss Prof Neha A Kandalkar	151	Mr. Rahul Mahesh Bhutada
143	Mrs. Vandana Salve	152	Dr. SANDEEP RASKAR
144	Miss Smita Chaudhari	153	Mrs. Ujwala Mali
145	Mrs. SONALI R WAGHE	154	Mrs. Archana G Pai



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Reflection Journal Summary

FDP on "Next-Gen Computing: Advances in HPC and Quantum Technologies for Data-Driven Insights"

The Faculty Development Program (FDP) on "Next-Gen Computing: Advances in High-Performance Computing (HPC) and Quantum Technologies for Data-Driven Insights" provided an in-depth exploration of cutting-edge computational paradigms and their transformative potential in the field of data science.

Key Takeaways:

High-Performance Computing (HPC):

Emphasis was placed on the evolution of HPC systems and their applications in solving complex computational problems. Topics covered included parallel computing, distributed systems, and optimization techniques for large-scale data analysis. Case studies highlighted how HPC accelerates scientific discoveries in fields like climate modeling, genomics, and artificial intelligence.

Quantum Technologies:

The sessions delved into the basics of quantum computing, including qubits, quantum gates, and superposition. Practical insights were provided into quantum algorithms like Shor's and Grover's, showcasing their advantages in cryptography and search problems. The current challenges, such as hardware limitations and error correction, were discussed alongside future prospects.

Integration for Data-Driven Insights:

The convergence of HPC and quantum computing for processing vast datasets was a recurring theme. Emerging trends in hybrid computing systems that leverage both classical and quantum architectures were explored. Real-world applications, such as predictive analytics, financial modeling, and drug discovery, demonstrated the practical utility of these technologies.

Reflections:

The FDP was a valuable opportunity to understand the rapid advancements in computing technologies and their implications for research and education. The sessions fostered interdisciplinary thinking, encouraging participants to bridge the gap between theoretical knowledge and practical applications.

Future Directions:

Participants are inspired to integrate HPC and quantum concepts into their curriculum and research. Collaborative projects and hands-on workshops were suggested to deepen understanding and foster innovation in this domain. Continued learning and engagement with emerging technologies will be crucial to staying abreast of advancements.

Overall, the FDP underscored the importance of equipping educators and researchers with the knowledge and tools to navigate and contribute to the rapidly evolving landscape of next-gen computing.