



Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)
Approved by Government of Tamil Nadu and Accredited by NAAC with A++ Grade (3rd Cycle-3.64 CGPA)
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DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

DBT - Sponsored

TWO DAYS NATIONAL SEMINAR ON

Quantum Technologies and AI Applications: A New Era for the Life Sciences and Healthcare

Organized by

Department of Computer Science with Cognitive Systems

January 7-8, 2026

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Registration Fee & Link

- Students : Rs.250 /-
- Faculty / Research Scholar : Rs.350 /-
- Registration Link : <https://forms.gle/kX4KYXqS7H4FzB2n7>

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ABOUT THE SEMINAR

This seminar provides essential knowledge on advanced quantum technologies, AI applications, recent research developments, and practical innovations in life science and healthcare. It will benefit students, research scholars, and scientists across India by enabling real-time knowledge exchange and fostering meaningful collaboration among participants. Collaboration among quantum physicists, researchers, AI experts, and policymakers is crucial for navigating rapid technological advancements and addressing associated risks. The seminar will explore the cross-integration of key technologies including collaborative and adaptive learning, AI/ML-driven optimization, and quantum computing to develop a robust framework for life science and healthcare research.

OBJECTIVES

- To explore the Quantum Technologies and AI applications in life science and healthcare
- To apply the quantum optimization technique and AI Applications in molecular modelling and drug design
- To implement the Quantum algorithms and AI applications for critical disease identification
- To apply the Quantum AI in medical research
- To take up the industry defined problems and provide solutions
- To apply advanced quantum tools and AI applications in drug discovery
- To develop a hybrid framework for molecular simulations
- To Implement promising Quantum AI model in biological research.

TOPICS TO BE DISCUSSED

- Classical Computing to Quantum Computing : Life science and Healthcare Applications
- Quantum Technologies and AI Applications for genomic Era
- AI and structure based approach to Discover broad spectrum antivirals against emerging viruses
- Graph Structures in the Quantum-AI Healthcare Continuum
- Advanced Quantum Technologies and AI Applications for Molecular Modelling and Drug Development
- Promising quantum tools and AI model for biological and medical research

RESOURCE PERSONS

The sessions led by renowned experts from leading institutions and industry specializing in Quantum Computing and AI in Life Sciences.

PUBLICATIONS

- All registered and presented papers will be published in seminar Proceedings with ISBN Number and Selected Paper will be published - **International Journal of Computer Communication and Informatics Journal (E-ISSN 2582-2713)** - Peer Reviewed

IMPORTANT DATES

- Full Paper Submission : 31.12.2025
- Notification of Acceptance : 02.01.2026
- Registration : 03.01.2026

CONTACT

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