



# 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 (3<sup>rd</sup> Cycle-3.64 CGPA)  
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### TWO DAYS NATIONAL SEMINAR ON

## Quantum Machine Learning (QML) for Cyber Security: Opportunities and Challenges

Organized by  
Department of Computer Science with Cognitive Systems

December 17-18, 2025

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#### CONVENER

**Dr. A. Nirmala**, Professor & Head, CS with Cognitive Systems

#### ORGANIZING SECRETARY

**Dr. R. Senthil Kumar**, Professor, CS with Cognitive Systems

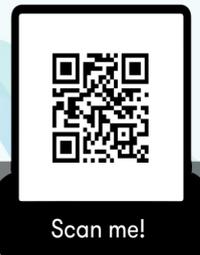
#### ORGANIZING MEMBERS

**Dr. B. Senthil Kumar** Asst. Prof., CS with Cognitive Systems  
**Dr. P. Esther Jebarani** Asst. Prof., CS with Cognitive Systems  
**Dr. M. Sowndharya** Asst. Prof., CS with Cognitive Systems  
**Mrs. S. Vishnupriya** Asst. Prof., CS with Cognitive Systems

#### Registration Fee & Link

- **Students** : Rs.200/
- **Faculty / Research Scholar** : Rs.250/
- **Registration Link** : <https://forms.gle/vdViDN2PMSWnHJW36>

✉ [qmlcy2025@drngpasc.ac.in](mailto:qmlcy2025@drngpasc.ac.in)  
🌐 [www.drngpasc.ac.in](http://www.drngpasc.ac.in)



### ABOUT THE SEMINAR

This seminar provides essential knowledge about Quantum Machine Learning (QML), Cybersecurity, Research updates and practical applications. This seminar will help the students, research scholars and scientists of India and also provide real-time knowledge exchange between them, and also collaboration among quantum physicists, ML researchers, cybersecurity experts, and policymakers is crucial to navigating technological breakthroughs and their associated risks. This collaboration is essential for establishing standards, protocols, and ethical guidelines for using these powerful technologies responsibly. together, find better solutions and secure our future of India.

### OBJECTIVES

- To learn the Quantum Machine Learning (QML): opportunities and challenges in cybersecurity
- To explore the QML applications for cybersecurity
- To develop a radically new, more agile approach to national governance of QML and cybersecurity
- To implement QML algorithms for threat detection
- To strengthen quantum cryptograph techniques
- To apply the QML in real-time applications and cyber defense
- To learn advanced QML tools for cybersecurity

### TOPICS TO BE DISCUSSED

- Introduction to Quantum Machine Learning (QML)
- QML opportunities and challenges in cybersecurity
- QML applications for cybersecurity
- QML algorithms
- Quantum cryptography
- QML for real-time applications
- QML tools for cyber security
- Future directions and ethical aspects of QML

### RESOURCE PERSONS

The sessions led by renowned experts from leading institutions and industry specializing in Quantum Machine Learning (QML) for cybersecurity.

### IMPORTANT DATES

- Last date for registration is :14.12.2025
- Confirmation by Participants:16.12.2025

### CONTACTS

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