The Gandhigram Rural Institute (Deemed to be University)
Ministry of Education, Government of India
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INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

GOLDEN JUBILEE
50
GRI (DTBU)

One day seminar on

Quantum Safe Crypto System

Saturday
10, January 2026

Resource person

Dr. I. Praveen
Assistant Professor of Mathematics,
School of Physical Sciences,
Amrita Vishwa Vidyapeetham,
Coimbatore.

Venue
**Srinivasa Ramanujan
Seminar Hall,
GRI-DTBU, Gandhigram.**

ORGANIZED BY

**Department of Mathematics,
The Gandhigram Rural Institute
(Deemed to be University),
Gandhigram-624302,
Dindigul, Tamil Nadu.**

Registration link
https://forms.gle/Mct2XWpmFuvdodv87

SRINIVASARAMANUJAN BLOCK
DEPARTMENT OF MATHEMATICS
SUPPORTED BY UGC-SAP, DST FIST & NBHM

About the Department

The Department of Mathematics was established in 1965 at The Gandhigram Rural Institute (Deemed to be University), Tamil Nadu. The major research fields being carried out in this department are Stability Problems of Dynamical Systems, including Neural Networks, Fractal Theory and its applications, Fuzzy Clustering in Medical Images, Optimization in Marketing-related problems, Control theory, Graph Theory, Algebraic Graph Theory, Cryptography and Quantum Computing Algorithms. The department has published more than 820 research articles in SCI journals with SCOPUS citations of more than 14270. Funding for research and development has been provided by UGC, NBHM, CSIR and DST–SERB continuously for the past 17 years. As a result of consistent performance in research, the department was recently upgraded with UGCSAP (DSA-I). International-level research collaborations are being undertaken with universities in various countries, such as Australia, Malaysia, Singapore, South Korea, the UAE, and the USA.

About the Seminar

The one-day seminar focuses on quantum-safe cryptography systems and their applications in the post-quantum era. It gives the foundations of cryptography, specifically Elliptic Curve Cryptography (ECC), and explains why current ECC methods are vulnerable to quantum attacks such as Shor's algorithm. The session includes post-quantum variants of ECC, including the requirements of post-quantum cryptography. Participants will understand how classical and post-quantum cryptography compare in terms of security and performance. Overall, the seminar provides students with the knowledge of the transition towards future-proof cryptography solutions.

Instructions

- Participants can be UG/PG Students, Research Scholars, Faculties, and Industrialists.
- No registration fee.

Contact Details

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Committee Members

Chief Patron	**Dr. N. PANCHANATHAM** Vice-Chancellor, GRI-DTBU
Patron	**Dr. M. SUNDARAMARI** Registrar i/c, GRI-DTBU
Convener	**Dr. P. BALASUBRAMANIAM** Dean, School of Sceinces, Senior professor of Mathematics, GRI-DTBU
Organizing Committee	**Dr. R. UTHAYAKUMAR** Senior Professor of Mathematics, GRI-DTBU
	Dr. G. MAHADEVAN Professor & Head of Mathematics, GRI-DTBU
	Dr. P. MUTHUKUMAR Associate Professor of Mathematics, GRI-DTBU
	Dr. R. RAJKUMAR Associate Professor of Mathematics, GRI-DTBU
	Dr. G. NAGAMANI Associate Professor of Mathematics, GRI-DTBU
	Dr. M. SURESH KUMAR Assistant Professor of Mathematics, GRI-DTBU