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Department of Computer Science

## JOINT SECRETARY

**Dr. K. Annaram, Professor,**  
Department of ECE

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Department of Computer Science  
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Department of Computer Science  
**Ms.K. Thamaraiselvi, Assistant Professor**  
Department of Computer Science and Engineering  
**Ms. R. Angalapameswari, Assistant Professor**  
Department of Electronics and Communication Engineering

## Contact

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More Information : [www.avinuty.ac.in](http://www.avinuty.ac.in)

# ABOUT US



Avinashilingam Institute for Home Science and Higher Education for Women - the epitome of higher education is one of the premier institutions in India well known for its commitment towards the empowerment of women through value-based and holistic education. The institute follows the educational ideals of Sri Ramakrishna, Holy Mother Sri Saradamani Devi, Swami Vivekananda and Mahatma Gandhi.

The institute is one of the significant contributions of Padma Bhushan, Dr. T.S. Avinashilingam, an illustrious educationist, freedom-fighter and Gandhian and Dr. Rajammal P. Devadas, the world- renowned nutritionist. The Institute had its humble beginning in the year 1957 as Sri Avinashilingam Home Science College for Women and has been conferred the Deemed-to-be University by MHRD in 1988.

Few of the recent accolades of the Institute includes: A++ with CGPA of 3.65/4 by NAAC, 99th Rank in NIRF, 4-Star Performer by Institution Innovation Council of MHRD. Presently, the institution is progressing towards 'beyond-excellence' under the able guidance and leadership of Dr.T. S. K. Meenakshisundaram, Managing Trustee and Chancellor, Dr. V. Bharathi Harishankar, Vice Chancellor and Dr. H. Indu, Registrar.



## Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD [now MoE]  
Re-accredited with an 'A++' Grade by NAAC.CGPA 3.65/4, Category I by UGC  
Coimbatore - 641 043, Tamil Nadu, India

**School of Physical Sciences and Computational Sciences**  
**School of Engineering**  
**&**  
**Research and Development Cell**

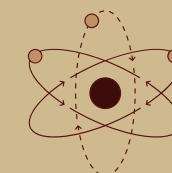
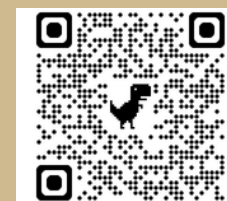
## Organizes The

**Two -Day National Level Workshop on**  
**Quantum Computing: Principles, Technologies &**  
**Applications (QCPTA-2026)**  
**16.07.2026 & 17.07.2026**



**Venue: Hi-tech Seminar Hall**

**Registration link: <https://tinyurl.com/QCPTAregistration>**



## PROGRAMME SCHEDULE

### DAY 1 - 16.07.2026

**08:30 AM – 09:30 AM** Registration

**09:30 AM – 10:45 AM** Inaugural Function

**11:00 AM – 12:45 PM** Session 1

**Title: Quantum Mechanics as an Engineering Tool**

Resource Person: **Dr.M.R. Srinivasan, Professor of Practice, Former Professor, Ramaiah University of Applied Sciences, Bengaluru**

**01:30 PM – 03:30 PM** Hands-on Session 2 : **Introduction to Quantum Computing and IBM Qiskit Demonstration**

Resource Person: **Dr. Jayakumar Vaithiyashankar, CEO, Anuthantra Private Limited, Bengaluru**

**03:45 PM – 04:45 PM** Session 3

**Title: Working with Quantum Gates**

Resource Person: **Dr. S. Manjula Gandhi, Professor Coimbatore Institute of Technology, Coimbatore**

### DAY 2 - 17.07.2026

**09:45 AM – 10:45 AM** Session 4

**Title: Introduction to Quantum Computing: Perspectives and Challenges**

Resource Person: **Dr.R. Preeth, Professor Indian Institute of Information Technology Kancheepuram**

**11:00 AM – 12:00 PM** Session 5

**Title: Quantum Machine Learning**

Resource Person: **Dr. S. Geetha, Professor Vellore Institute of Technology, Chennai**

**12:00 AM – 01:00 PM** Session 6

**Title: Quantum Computing and Its Applications**

Resource Person: **Dr. Koppala Guravaiah, Assistant Professor Indian Institute of Information Technology, Kottayam**

**01:50 PM – 02:50 PM** Session 7

**Title: Quantum Centric Super Computing**

Resource Person: **Ms. Janani Ananthanarayanan Quantum Engineer, IBM Quantum, IBM Research, Bengaluru**

**03:10 PM – 04:10 PM** Session 8

**Title: Quantum Computing in Healthcare: The Future of Drug Discovery, Diagnostics, and Personalized Medicine**

Resource Person: **Dr.P. Selvamani, Professor Bharathidasan Institute of Technology Tiruchirappalli**

**04:10 PM – 04:30 PM**

**Valedictory Function & Certificate Distribution**

## ABOUT THE WORKSHOP

The Two-Day Workshop on Quantum Computing: Principles, Technologies, and Applications is designed to introduce participants to the fascinating world of quantum computing, an emerging paradigm that leverages the principles of quantum mechanics to solve complex problems beyond the capabilities of classical computers.

This workshop provides a balanced blend of theoretical foundations and practical exposure. Participants will explore fundamental concepts such as qubits, superposition, entanglement, and quantum gates, followed by an understanding of quantum algorithms and circuit design. The sessions are structured to gradually build knowledge from basic principles to advanced applications.

A key highlight of the workshop is the hands-on training using Qiskit, enabling participants to design and simulate quantum circuits. In addition, the workshop offers insights into quantum hardware, current technological advancements, and real-world applications across domains such as cryptography, optimization, and artificial intelligence.

This workshop is ideal for students, researchers, and faculty members who are interested in gaining foundational knowledge and practical skills in quantum computing, preparing them for future research and innovation in this rapidly evolving field.

## WORKSHOP OBJECTIVES

- To build a strong foundation in quantum computing concepts Enable participants to understand core principles such as qubits, superposition, entanglement, and quantum gates.
- To develop practical skills in quantum programming Provide hands-on experience using tools like Qiskit for designing and simulating quantum circuits and algorithms.
- To explore real-world applications and emerging quantum technologies. Familiarize participants with current quantum hardware, advancements, and how quantum computing can solve complex problems across domains.

## WORKSHOP OUTCOMES

- Understand the fundamental concepts of quantum computing, including qubits, superposition, entanglement, and quantum gates.
- Develop practical skills in quantum programming and quantum circuit simulation using tools such as Qiskit.
- Gain exposure to real-world applications, emerging quantum technologies, and current advancements in quantum computing.

## REGISTRATION

<b>Registration fee</b>	<b>: Rs. 885/- inclusive of 18% GST</b>
<b>Name of the Bank</b>	<b>: Indian Bank</b>
<b>Account Name</b>	<b>: Conference/Seminar/ Workshop</b>
<b>Account Number</b>	<b>: 6010310202</b>
<b>IFSC Code</b>	<b>: IDIB000A005</b>

