



Learn Beyond

KPR Institute of Engineering and Technology

(Autonomous, NAAC "A")

Avinashi Road, Arasur, Coimbatore.

Phone: 0422-2635600

Web: kpriet.ac.in

Social: kpriet.ac.in/social

IT001

NBA Accredited

(CSE, ECE, EEE,

MECH, CIVIL)

QUANTUM COMPUTING USING QISKIT

Event No	IT001
Organizing Department	Information Technology
Date	29/01/2024
Time	09:00 AM to 04:00 PM
Event Type	Workshop
Event Level	Dept. Level
Venue	LIS Lab
Total Participants	24
Industry Personnel	5
Faculty - Internal	4
Faculty - External	8
Students - Internal	1
Students - External	6

Related SDG



Resource Persons

Sl	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Karthiganesh Durai	technical Consultant	KGIT Services, Bengaluru	dkarthiganesh@gmail.com	xxxxxxxxxx

Involved Staffs

Sl	Name	Role
1	Malathy S	Coordinator
2	Sivakumar T	Convenor

Outcome

To create awareness on Quantum computing using QISKIT tool and skill up the practical implementation for various real world applications.

Event Summary

Department of Information Technology, KPRIET, organized a one-day workshop on "Quantum Computing using QISKIT" with Mr Karthiganesh Durai, Chief Quantum Architect, KGIT Services Pvt Ltd, Bengaluru, on 29/01/2024 to provide knowledge upgradation session quantum computing with the help of QISKIT. Users can design and experiment with quantum circuits—the building blocks of quantum computing—using QISKIT. Building and simulating a quantum circuit is the main goal of this workshop, which also provides a practical understanding on important quantum computing ideas like superposition, entanglement, and quantum state manipulation. Quantum Kernels and Quantum Neural Networks are the two essential computational building blocks utilised in many applications, including regression and classification. With the help of QISKIT users can quickly prototype a first model for the specific application even without extensive knowledge of quantum computing which is incredibly user-friendly. Also, the QISKIT is easily extensible, where the users can quickly add new features to accommodate state-of-the-art quantum machine learning research. The development of quantum computing is closely linked to the future of artificial intelligence. AI's power to analyse and learn from complicated data, along with quantum computing's ability to process information in ways never before imagined conceivable, signal the beginning of a new era of innovation that will surely impact the globe for future generations.



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DEPARTMENT OF INFORMATION TECHNOLOGY & KGI Services

Jointly Organizes Workshop on
"Quantum Computing using QISKIT"

Fees details (including GST)

Industry Persons	Rs. 590/-
Faculty	Rs. 472/-
Research Scholars / UG and PG students	Rs. 238/-

Registration Link
<https://forms.gle/9GmdIM4MhRt2jDr6>

29.01.2024 ⌚ 8:00 AM to 4:00 PM

COORDINATOR
Dr. S. MALATHY
AP(SLG)/IT

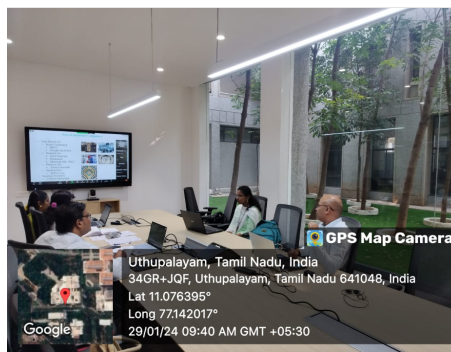
CONVENOR
Dr. T. SIVAKUMAR
HoD/IT

RESOURCE PERSON
Mr. Karthiganesh Durai
Technical Consultant
KGI IT Services
Bengaluru

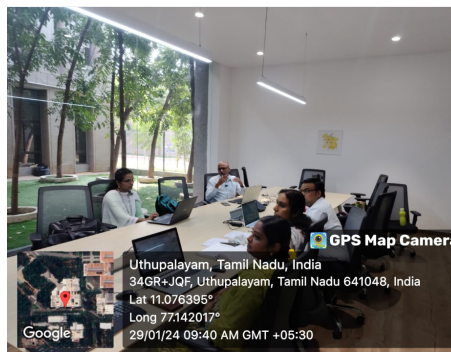
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