SVCE | Sri Venkateswara College of Engineering

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Reflection Report

on

5 Days STTP on Quantum Computing

Dates	05/02/2024 to 09/02/2024
Time	06.00 PM to 07.30 PM
GMeet Link	https://meet.google.com/asd-yqto-zdz

Co-ordinators
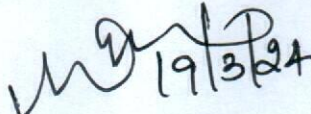
Dr.T.Padmavathy, ASP/CSE

Dr.P.Geetha, AP/CSE

Ms.R.K.Kapila Vani, AP/CSE

Forwarded to Principal:

19/3/24

To: HoD-CSE ✓

Noted

22/3

28.02.2024

From
Dr T Padmavathy, ASP/CSE,
Dr P Geetha, AP / CSE,
Ms R K Kapila Vani, AP /CSE,
Department of Computer Science and Engineering
Sri Venkateswara College of Engineering,
Pennalur,Chennai.

To
The Head of Department,
Department of Computer Science and Engineering
Sri Venkateswara College of Engineering,
Pennalur,Chennai.

Respected madam,

Subject: Proposal for organizing a Short Term Training Program (STTP) on Quantum Computing

  We request your permission to organize a 5 days short term training program on Quantum Computing from 05.02.2024 to 09.02.2024. As the field of quantum computing rapidly evolves, it has become increasingly essential for professionals across various industries to understand its principles, applications, and potential impact on technology and innovation. Recognizing this significance, we are eager to equip our students, scholars and faculties with the knowledge and skills necessary to navigate and harness the opportunities presented by quantum computing.

  Thank you for considering our request. We look forward to your positive response for organizing this STTP.

Organizing Team.

STTP on Quantum Computing.

To: Convenors:
 Permitted to conduct
the Short Term Training
Program. 28/2/24

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SVCE | Sri Venkateswara College of Engineering

5 Days STTP on Quantum Computing

Date & Time

February 5 - 9, 2024
6:00 PM - 7:30 PM

Scan/Tap here to Register

Mode of Activity

Online - Hosted by Department of Computer Science and Engineering

Are you intrigued by the limitless potential of quantum computing? Don't miss the opportunity to delve into the world of quantum technology at our upcoming workshop! Whether you're a student, a researcher, or business enthusiast, this event is designed to broaden your understanding and pave the way for the future.

Resource Persons

Dr. Jayakumar V
Qiskit Advocate @ IBM
Bengaluru, India

Mr. Jayendran Arumugam
Cloud Engineer @ Gartner's
Chennai, India

Mr. Manohar K Gupta
Sr. Software Engineer @ CGI
Bengaluru, India

Dr. Siddhartha Bhattacharyya
Sr. Researcher @ VSB
Ostrava, Czechia

Dr. Kamal Shah
IT Professor @ TCET
Mumbai, India

Limited Seats Only | **Free Registration**

Convenor

Dr. Anitha R
M.E., Ph.D.
Professor and
CSE, SVCE

Faculty Coordinators

Dr. Padmavathy T
M.E., Ph.D.
Associate Professor
CSE, SVCE

Dr. Geetha P
M.E., Ph.D.
Assistant Professor
CSE, SVCE

Mrs. Kapila Vani R K
M.E., (Ph.D.)
Assistant Professor
CSE, SVCE

Student Coordinators

Akash Selvaraj
B.Tech AD
III Year

Ganesh Sriram
B.Tech AD
III Year

Sai Ganesh P
B.Tech AD
III Year

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Dr. Jayakumar VaidyaShankar,
Quantum Educator | IBM Qiskit Advocate
| Senior IEEE Member

Dr. Jayakumar VaidyaShankar, a passionate and experienced Quantum Computing lecturer and researcher, with over 15 years of academic and industry involvement in this emerging field. Dr. Jayakumar VaidyaShankar, IBM Quantum Educator,where he teaches and mentors students and industry professionals on Quantum Computing and its various applications. Dr. Jayakumar VaidyaShankar, is also an IBM Qiskit Advocate Mentor, and IBM Qiskit Certified Developer Associate, working closely with IBM Quantum to promote, network, and build the quantum community across the globe. Pursuing the joint certification in AI and Quantum Computing from the Indian Institute of Science.Dr. Jayakumar VaidyaShankar, has also participated in several quantum computing summer and winter schools, organized by IBM, ACM India, and other institutions. As an active member of the IEEE Quantum Community, Dr. Jayakumar VaidyaShankar, volunteer as a technical program committee member, a reviewer, and a committee member for 7 IEEE Quantum Standards.Dr. Jayakumar VaidyaShankar, has published over 13 papers in peer-reviewed journals, 3 papers in IEEE conferences, 2 Indian patents and 1 Malaysian patent in quantum computing and related topics. Dr. Jayakumar VaidyaShankar, also conducted over 50 quantum programs, including faculty development programs,Qiskit certification training, and awareness camps, across India,USA, Russia, and Armenia.My mission is to empower quantum education and innovation, by sharing my knowledge and skills with students, professionals, and enthusiasts, and by collaborating with other quantum computing experts and organizations. Dr. Jayakumar VaidyaShankar, specializes in Qiskit, quantum mechanics,quantum computing, open source, open standards, Linux, Python,and mathematics. Dr. Jayakumar VaidyaShankar, always eager to learn new things, explore new opportunities, and contribute to the quantum computing field.

Experience

Freelance Quantum Computing Educator
November 2023 - Present (4 months)
Greater Bengaluru Area
IEEE Quantum Community Member
July 2021 - Present (2 years 8 months)
Washington DC-Baltimore Area

IEEE Quantum is an IEEE Future Directions initiative launched in 2019 that serves as IEEE's leading community for all projects and activities on quantum technologies. IEEE Quantum is supported by leadership and representation across IEEE Societies and OUs. The initiative has developed a project plan to address the current landscape of quantum technologies, identify challenges and opportunities, leverage and collaborate with existing initiatives, engage the quantum community at large, and sustain the Quantum Initiative in the long term.

Amazon Web Services (AWS) AWS Accredited Educator July 2019 - Present (4 years 8 months) India AWS Academy-accredited educators teach AWS Academy courses at member institutions. Educators receive complimentary professional development and mentorship as they pursue AWS Certification and AWS Academy accreditation.

IBM 2 years 9 months IBM Qiskit Advocate July 2022 - Present (1 year 8 months) Honorary post from IBM Quantum in-order to promote, network and build quantum community across the globe A volunteer, contributor and advocate of the Qiskit Software Development Kit community Experience in handling talks, webinars and workshops on quantum computing IBM Quantum Educator June 2021 - Present (2 years 9 months)

Dr. Jayakumar VaidyaShankar is recognized by IBM as the **IBM Quantum Educator** to train professionals and students on Quantum Computing and its various applications. It is to be noted that I am not an official IBM employee with this position. Dr. Jayakumar VaidyaShankar is a part of IBM Quantum Educators program.

Presidency University Bangalore
1 year 7 months Assistant Professor (Senior Grade)
August 2023 - Present (7 months)
Assistant Professor
August 2022 - Present (1 year 7 months) Bengaluru, Karnataka, India

Galgotias University
Assistant Professor July 2019 - July 2022 (3 years 1 month)
New Delhi, Delhi, India

Multimedia University
Research Associate June 2014 - June 2019 (5 years 1 month)
Kuala Lumpur, Federal Territory of Kuala Lumpur.
Malaysia Research Associate (MMU-FRGS Graduate Research Assistant) under Fundamental Research Grant Scheme (FRGS) sponsored by The Malaysian Science and Technology

Information Centre (MASTIC) is a division under the Ministry of Science, Technology, & Innovation (MOSTI).

Advanced Science and Technology Research Centre Head of Training June 2013 - May 2014 (1 year) Salem, Tamil Nadu, India

PSG College of Technology 2 years 2 months
Assistant Professor June 2012 - May 2013 (1 year) Coimbatore, Tamil Nadu

India Research Associate April 2011 - May 2012 (1 year 2 months)
Wireless sensor Project sponsored by DRDO (Defence Research and Development Organisation) is an agency under Ministry of Defence of the Government of India Vivekanandha College of Engineering for Women Lecturer June 2010 - March 2011 (10 months) Tiruchengode, Tamil Nadu, India Adhiyamaan College of Engineering, Hosur Lecturer September 2007 - May 2008 (9 months) Hosur, Tamil Nadu, India Education Indian Institute of Science (IIS)

Joint Certification in AI and Quantum Computing(QpAI) Program, Quantum Computing · (July 2021 - December 2021) Qiskit Global Summer School 2023: Theory To Implementation Summer School, Quantum Theory To Implementation · (July 2023 - July 2023) IBM Qiskit Global Summer School 2022: Quantum Simulations Summer School :Quantum Simulations, Quantum Computing · (May 2022 - July 2022) IBM Qiskit Global Summer School 2021: Quantum Machine Learning Summer School, Quantum Machine Learning · (July 2021 - August 2021) ACM India Winter school in quantum computing 2022 Winter School, Quantum Computing · (January 2022 - January 2022)

Dr. Siddhartha Bhattacharyya
Senior Researcher , VSB Technical University
of Ostrava, Czech Republic.

Dr. Siddhartha Bhattacharyya did his Bachelors in Physics, Bachelors in Optics and Optoelectronics, and Masters in Optics and Optoelectronics from the University of Calcutta, India in 1995, 1998, and 2000 respectively. He completed his PhD in Computer Science and Engineering from Jadavpur University, India, in 2008. He is the recipient of the University Gold Medal from the University of Calcutta for his Masters. He is the recipient of several coveted awards, including the Distinguished HoD Award and Distinguished Professor Award conferred by the Computer Society of India, Mumbai Chapter, India in 2017, the Honorary Doctorate Award (D. Litt.) from The University of South America, and the South East Asian Regional Computing Confederation (SEARCC) International Digital Award ICT Educator of the Year in 2017. He has been appointed as the ACM Distinguished Speaker for the tenure of 2018-2020. He was inducted into the People of ACM Hall of Fame by ACM, the USA in 2020. He has been appointed as the IEEE Computer Society Distinguished Visitor for the tenure of 2021-2023. He has been elected as a full foreign member of the Russian Academy of Natural Sciences (RANS) and the Russian Academy of Engineering (REA). He has been elected a full fellow of The Royal Society for Arts, Manufacturers and Commerce (RSA), London, UK.

He is currently serving as a **Senior Researcher in the Faculty of Electrical Engineering and Computer Science of VSB Technical University of Ostrava, Czech Republic.** He is also serving as the Scientific Advisor of Algebra University College, Zagreb, Croatia. Prior to this, he served as the Principal of Rajnagar Mahavidyalaya, Rajnagar, Birbhum. He served as a Professor in the Department of Computer Science and Engineering of Christ University, Bangalore. He was the Principal of RCC Institute of Information Technology, Kolkata, India, from 2017-2019. He has also served as a Senior Research Scientist in the Faculty of Electrical Engineering and Computer Science of VSB Technical University of Ostrava, Czech Republic from 2018-2019. Prior to this, he was the Professor of Information Technology at RCC Institute of Information

Technology, Kolkata, India. He served as the Head of the Department from March 2014 to December 2016. Prior to this, he was an Associate Professor of Information Technology at RCC Institute of Information Technology, Kolkata, India, from 2011-2014. Before that, he served as an Assistant Professor in Computer Science and Information Technology at the University Institute of Technology, The University of Burdwan, India, from 2005-2011. He was a Lecturer in Information Technology at Kalyani Government Engineering College, India, during 2001-2005. He is a co-author of 6 books and the co-editor of 100 books and has more than 400 research publications in international journals and conference proceedings to his credit. He has got two PCTs and 19 patents to his credit. He has been a member of the organizing and technical program committees of several national and international conferences. He is the founding Chair of ICCICN 2014, ICRCICN (2015, 2016, 2017, 2018), and ISSIP (2017, 2018) (Kolkata, India). He was the General Chair of several international conferences like WCNSSP 2016 (Chiang Mai, Thailand), ICACCP (2017, 2019) (Sikkim, India), ICICC 2018 (New Delhi, India), and ICICC 2019 (Ostrava, Czech Republic).

He is the **Associate Editor** of several reputed journals, including **Applied Soft Computing, IEEE Access, Evolutionary Intelligence, and IET Quantum Communications.** He is the editor of the **International Journal of Pattern Recognition Research** and the **founding Editor in Chief of the International Journal of Hybrid Intelligence, Inderscience.** He has guest-edited several issues with several international journals. He is serving as the **Series Editor of IGI Global Book Series Advances in Information Quality and Management (AIQM), De Gruyter Book Series(s) Frontiers in Computational Intelligence (FCI) and Intelligent Biomedical Data Analysis (IBDA), CRC Press Book Series(s) Computational Intelligence and Applications, Quantum Machine Intelligence, Intelligent Data Driven Technology for Sustainable Environment, and Advances in Disruptive Technologies and Generative Artificial Intelligence, Elsevier Book Series Hybrid Computational Intelligence for Pattern Analysis and Understanding and Springer Tracts on Human Centered Computing**.

His research interests include hybrid intelligence, pattern recognition, multimedia data processing, social networks, and quantum computing.

He is a life fellow of the Optical Society of India (OSI), India, a life fellow of the International Society of Research and Development (ISRD), UK, a fellow of the Institution of Engineering and Technology (IET), UK, a fellow of Institute of Electronics and Telecommunication

Engineers (IETE), India and a fellow of Institution of Engineers (IEI), India. He is also a senior member of the Institute of Electrical and Electronics Engineers (IEEE), USA, the International Institute of Engineering and Technology (IETI), Hong Kong, and the Association for Computing Machinery (ACM), USA.

He is the **founding President of the Asia Pacific Artificial Intelligence Association (AAIA)**, Kolkata and the Chairman of the IEEE Computational Intelligence Society, Kolkata Chapter. He is a life member of the Cryptology Research Society of India (CRSI), Computer Society of India (CSI), Indian Society for Technical Education (ISTE), Indian Unit for Pattern Recognition and Artificial Intelligence (IUPRAI), Center for Education Growth and Research (CEGR), Integrated Chambers of Commerce and Industry (ICCI), and Association of Leaders and Industries (ALI). He is a member of the Institution of Engineering and Technology (IET), UK, International Rough Set Society, International Association for Engineers (IAENG), Hong Kong, Computer Science Teachers Association (CSTA), USA, International Association of Academicians, Scholars, Scientists and Engineers (IAASSE), USA, Institute of Doctors Engineers and Scientists (IDES), India, The International Society of Service Innovation Professionals (ISSIP) and The Society of Digital Information and Wireless Communications (SDIWC). He is also a certified Chartered Engineer of the Institution of Engineers (IEI), India. He is on the Board of Directors of the International Institute of Engineering and Technology (IETI), Hong Kong.

Dr Kamal Shah,
Professor, IT Department ,
Thakur College of Engineering and Technology

Dr Kamal Shah, Professor IT Department , Thakur College of Engineering and Technology I am working at Thakur College of Engineering and Technology, Mumbai . She graduated from REC SURAT in 1996 in Electrical Engineering with First class. Subsequently she obtained her ME in Electronics and Telecommunication from University of Mumbai and PhD in IT from NMIMS University. She worked in BARC on Quantum computing in 2019 and completed her Postdoc research work.

She has a vast teaching experience of 25 years with focused area of Image processing, Software Engineering, Machine Learning and Data Science. She has held several important Academic; Research and Administrative positions in various institutions of repute such as Dean R&D , Vice principal at TCET . She has taken up several new initiatives for Academic, Entrepreneurship, Research and Good Governance like developed a Outcome Based Academic Research Model for twining curricular with research outcomes like Publications, grants and patents required for ranking and accreditation. A novel approach " Idea to Entrepreneur model" is established for budding startups. Under her leadership, the Incubation center was established where more than 40 start up companies established and graduated . All these startups generated more than 270 employment in a period of four years.

She has keen interest in quality improvement and performance excellence models. She is certified examiner for IMC RBNQA frame framework for the same which is based on Malcolm Baldridge model-USA. These model keeps students at center and ensures the improvement in aspects like more focused delivery to individual need of students, better strategies for long term and short-term goals, how ethical processes lead to excellence and measurement of data on continuous bases to improve all processes in real time. All these aspects are now included as a part of NEP 2020. She has helped various organizations some of them are Jayshree textile, Birla Group, Bharat India Jodo Foundation Reliance Industries , GIIS school Japan Campus and

Pushpalatha Foundation schools in TamilNadu. She is enthusiastically working for Outcome Based Education and helped many organizations to implement NBA and NAAC with proper understanding of processes and outcome.

She has received many grants from government organizations like AICTE, DST, University of Mumbai amounting to 51.93 lakhs as a principal investigator. She has been invited as an expert to different international conferences and Faculty development Programs to deliver talk on NEP 2020 implementation, Block chain Technology, Outcome Based Academic Research model , Data science and industry 4.0, Research Methodology, Quantum computing etc. She has worked in various committees of UoM like Syllabus setting for IT, Local Enquiry committee, Squad from UoM in exam, Avishkar coordinator for Mumbai colleges, USSc panel for faculty interviews.

Under her tenure Institute has more than 1500 publications contributed by all faculty members and final year students, more than Rs 2 Crore as a grant amount where more than 80% faculty are Principal investigators and 40 lacs is received under consultancy and technology transfer. Major clients are Indian Navy for officers training, Mahindra and Mahindra for Employees reskilling and Central Bank of India for their officers training. Lots of Resources are created for start education publishers for Block chain Technology and Develops under her guidance. As a Vice Principal she has designed a new curricular scheme for institute under Autonomy where all aspects of NEP 20202 and UGC guidelines are incorporated like Skill based training , Multidisciplinary and interdisciplinary learning, Multiple entry and Multiple exit and wholistic learning through academic , internship and co-curricular activities.

She has been bestowed with several awards which include "20 Pragmatic Women leaders in Education Industry by The Academic insight in 2021" along with Smt. Sudha Murthy , Best Educational Quality Team Award For Developing Entrepreneurial Culture For Nation Building" Received by NCQM in 2021, Received "Excellence and Leadership in Education" Award from Golden Aim in 2020 Received "Dr. A. P.J. Abdul Kalam National Award for Teaching, Research and Entrepreneurship by IISER in 2019.Recognized as an "Excellent Examiner" for 2016 cycle by IMC-RBNQA – Contribution for Quality process enhancement was appreciated on National

Level and Appreciated by IIT Bombay for excellent work in Aakash project as coordinator in 2013. She was a mentor for SIH 2023 where students won first prize at national level.

She has many quality research papers to her credit in International journals and conferences Recently her research work on "Prediction of Type 2 Diabetes using Machine Learning Algorithms" has been accepted by world congress, Spain Barcelona for presentation and Hungary Budapest.

Mr. Jayendran Arumugam,
Cloud Architect | Quantum Enthusiast |
Azure | DevOps |Stack Overflow Contributor |
keyboardist | Learner @Gartner @IITM

Mr. Jayendran Arumugam, basically a cloud architect at **GARTNER**, is pursuing M.Tech in Quantum Science and Technology from **IIT Madras.** His professional experience includes the following:

EY - Associate

December 2018 - March 2021 (2 years 4 months)

Worked in Analytics and BI Team using Azure Data Science, Azure MachineLearning, AI, and PowerBI for our client. Our Team was also responsible for managing the IaaS as well as PaaS based solutions. Using Azure DevOps and Github Enterprise for all our DevOps solutions.

DEEVITA - Associate Software Engineer

May 2016 - November 2018 (2 years 7 months)

Chennai Area, India.

Developed ETL packages with SSIS, Worked withSP's,Functions,XML,triggers,transactions in SQL.Worked with Azure Services like,Azure SQL database Azure APP service Azure Key vault Azure Data factoryAzure API management Azure APP Insights Active Directory Azure VM AzureStorage Accounts Azure Automation (Powershell Runbooks).

His certifications include ✦ Microsoft® Certified: Cybersecurity Architect Expert✦ Microsoft® Certified: Azure Network Engineer Associate✦ AWS® Certified: Solutions Architect Associate✦ Microsoft® Certified: Azure Developer Associate✦ Microsoft® Certified: Azure Database Administrator Associate✦ Microsoft® Certified: Azure Data Analyst Associate✦ Microsoft® Certified: Azure Solutions Architect Expert✦ Microsoft® Certified: DevOps Engineer Expert✦ Microsoft® Certified: Azure Data Engineer Associate✦ Microsoft® Certified: Azure Security Engineer Associate✦ Microsoft® Certified: Azure AI Engineer Associate.

Mr. Manohar Kumar Gupta,
Senior Software Engineer at CGI

Manohar Kumar Gupta, Senior Software Engineer at CGI is a Lead developer and Scrum master. He completed his Bachelor of Technology - BTech, Computer Science in the year 2020 from National Institute of Technology, Nagaland. He has done his internship in Artificial Intelligence at NIC - Ministry Of Communication & Information Technology, Kohima. He has Co Founded Coding Club at NIT Nagaland with Abhigyan, Nancy, Nirmal, and Om to foster coding interest and proficiency. He was associated with Siemens Automation of Industry 4.0 using UAPI, Preactor andR&D suit.

STTP Registered Participants List on Quantum Computing

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59	Dr.G.K.Sandhia	Faculty	Computer Science and Engineering	SRM Institute of Science and Technology, Kattankulathur	9944575181	ksandhia@gmail.com
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70	P. Uma	Faculty	Computer Science and Engineering	Sri Venkateswara College of Engineering	8903236852	uma_perumal2003@yahoo.co.in
71	Dr.T.Senthilnathan	Faculty	Applied Physics	Sri Venkateswara College of Engineering	9840792459	senphyair@gmail.com
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80	Bala Gayathri D	Faculty	Computer Science and Engineering	BSACIST	7305814541	gayathribalansvg@gmail.com
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82	P. Arul	Faculty	Electronics and Communication Engineering	SVCE	9884372131	arulmaran786@gmail.com
83	SENTHIL KUMAR R	Faculty	Computer Science and Engineering	SVCE	9629250575	senthilkumar_r@svce.ac.in
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85	Shanmuga Velan	Student	Electrical and Electronics Engineering	Sri Venkateswara College of Engineering	9597749118	shanmugavelan1172002@gmail.com
86	Madhumathi K	Student	Artificial Intelligence and Data Science	Sri Venkateshwara college of engineering	6382249288	Madhunaikarr@gmail.com
87	Aditi C	Student	Artificial Intelligence and Data Science	SVCE	7358429778	aditi130420@gmail.com
88	Yokesh V	Faculty	Electronics and Communication Engineering	Sri Venkateswara College of Engineering	9500085423	yokesh.inba@gmail.com
89	T.Indumathy	Faculty	Computer Science and Engineering	SAVEETHA ENGINEERING COLLEGE	9003025299	indumathythanik@gmail.com
90	T.PADMAVATHY	Faculty	Computer Science and Engineering	Sri Venkateswara college of engineering	9445758475	padhu29@gmail.com
91	Janani S	Faculty	Computer Science and Engineering	Sri Venkateswara College of Engineering	9677741326	sjanani@svce.ac.in
92	C KAYALVIZHI	Researcher	Information Technology	MIT Campus , Anna University	9944995784	dcekayal79@gmail.com
93	Gunavathie M A	Faculty	Information Technology	Panimalar Engineering College	9597394192	gunavathie.ap@gmail.com
94	Kandasamy V	Faculty	Information Technology	Panimalar Engineering College	9840282829	mail4kands@gmail.com
95	S. Preena Jacinth Shalom	Faculty	Computer Science and Engineering	Panimalar Engineering college	9597099863	spjshalom@gmail.com
96	J.HEMAVATHY	Faculty	Information Technology	Panimalar Engineering College	7338716050	hemaramya27@gmail.com
97	khanaghavalle G R	Faculty	Computer Science and Engineering	SRI VENKATESWARA COLLEGE OF ENGINEERING	8870688044	khanaghavalle@svce.ac.in
98	Dr G Sumathi	Faculty	Information Technology	Sri Venkateswara College of Engineering	9444364243	gsumathi@svce.ac.in
99	Dr R Anitha	HoD	Computer Science and Engineering	Sri Venkateswara College of Engineering	9952337212	hodcs@svce.ac.in

5 Days STTP on Quantum Computing - Agenda

- Day 1: 05.02.24 - Prayer Song

- Day 1: 05.02.24 - Welcome Address by Mr Sriram Ganesh, III Year AD / CSE

- Day 1: 05.02.24 - Introduction of Chief Guest, Mr Ganesh Sriram, III Year AD / CSE

- Day 1: 05.02.24 - Inaugural Address by Dr R Anitha, Professor & HoD

- Day 1: 05.02.24 Session Address by Dr Jayakumar VaidyaShankar, Quantum Educator | IBM Qiskit Advocate | Senior IEEE Member

- Day 2: 06.02.24 Session Address by Mr Jeyandran Arumugam,Cloud Engineer, Gartner's.

- Day 3: 07.02.24 Session Address by Mr. Manohar K Gupta,

- Day 4: 08.02.24 Session Address by Dr. Siddhartha Bhattacharya, Senior Researcher @ VSB-TUO.

- Day 5: 10.02.24 Session Address by Dr. Kamal Shah, IT Professor @ TCET.

- Q & A Session

- Vote of Thanks

- National Anthem

Reflection Report on 5 Days STTP on Quantum Computing

Day 1 : 05.02.2024

The event started with the welcome address by the student coordinator of III/CSE(AD), **Mr. Ganesh Sriram** followed by the inaugural address by **Dr.R.Anitha, Professor & HoD/CSE.**
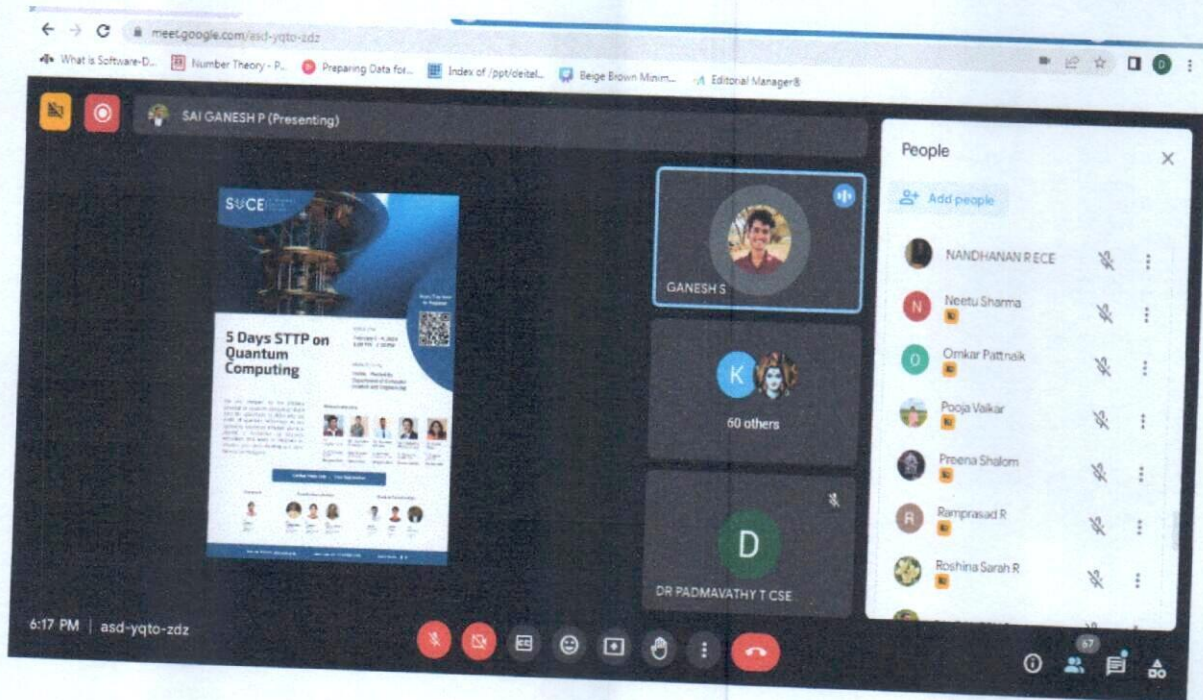

Figure 1: Welcome address by Mr. Ganesh Sriram

The session was then handed over to Dr. Jayakumar VaidyaShankar, IBM Quantum Educator. The session speaker introduced the basics of Quantum computing. Also, he has introduced the participants to IBM Quantum Educator Program, IBM Quantum Challenges. He advised on various ways and resources to learn Quantum from IBM Quantum Summer School.

The session encapsulated Dr.Jayakumar's journey into the realm of quantum computing, highlighting key insights gained, challenges faced, and the overall impact on his understanding of this cutting-edge technology. The key takeaways included the following:

Fundamental Principles of Quantum Computing:
The introductory session provided a solid foundation in the fundamental principles of quantum computing. Concepts like superposition, entanglement, and quantum gates were explained in a way that bridged the gap between classical and quantum computing. Understanding these

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principles was crucial for navigating the more complex aspects of quantum algorithms and programming.
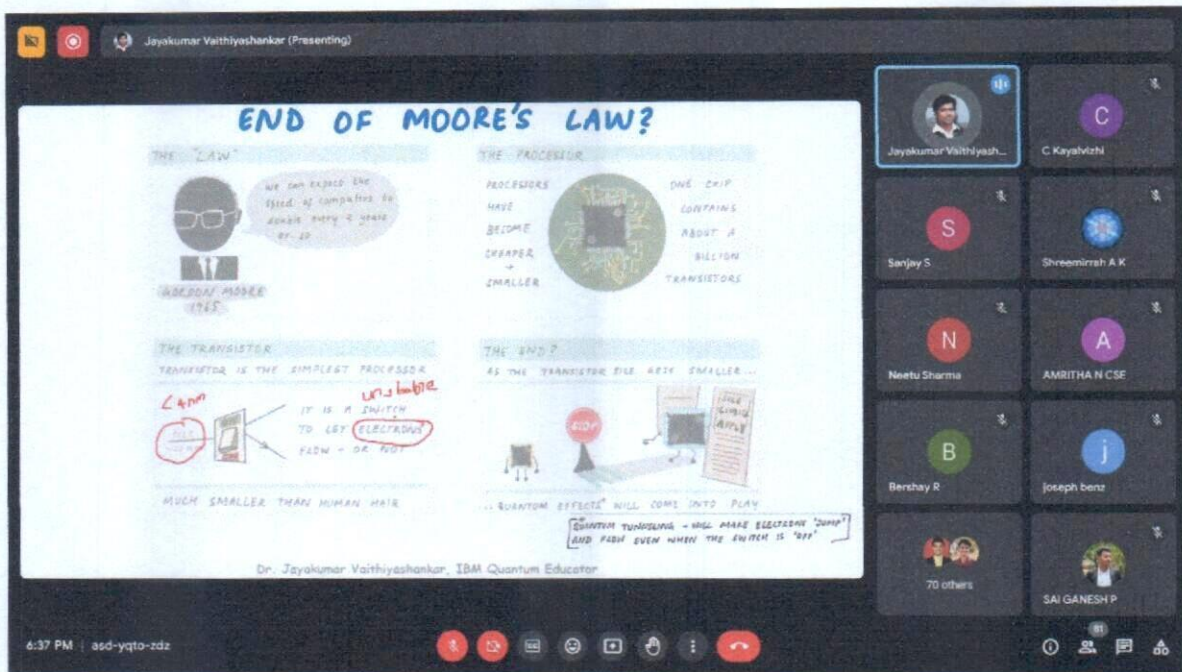

Figure 2 : Principles of Quantum Explained by Dr. Jayakumar VaidyaShankar

Quantum Hardware Architecture:

The course also shed light on the physical aspects of quantum computing, delving into the hardware architecture of quantum processors. Learning about qubits, quantum gates, and the challenges posed by quantum noise provided valuable insights into the unique nature of quantum information processing.

IBM Quantum Programs:

Engaging with IBM Quantum programs, particularly the Quantum Experience and Qiskit, was an enriching experience. The various Quantum Experience platforms that allowed to run quantum circuits on real IBM quantum processors, providing a tangible connection to the theoretical concepts were introduced to the audience. Qiskit,a powerful tool for quantum programming, to implement algorithms and explore quantum circuits with greater flexibility was explored.

Figure 3 : IBM Quantum Programs explained by Dr. Jayakumar VaidyaShankar

In conclusion, the journey into quantum computing through the introduction session and IBM Quantum programs has been a transformative experience.

Day 2 : 06.02.2024

The Second day of STTP on Quantum Computing started with the welcome address by the student coordinator of III/CSE(AD), **Mr. Sai Ganesh** followed by the session was handed over to by **Mr Jeyandran Arumugam,** Cloud Engineer, Gartner's.

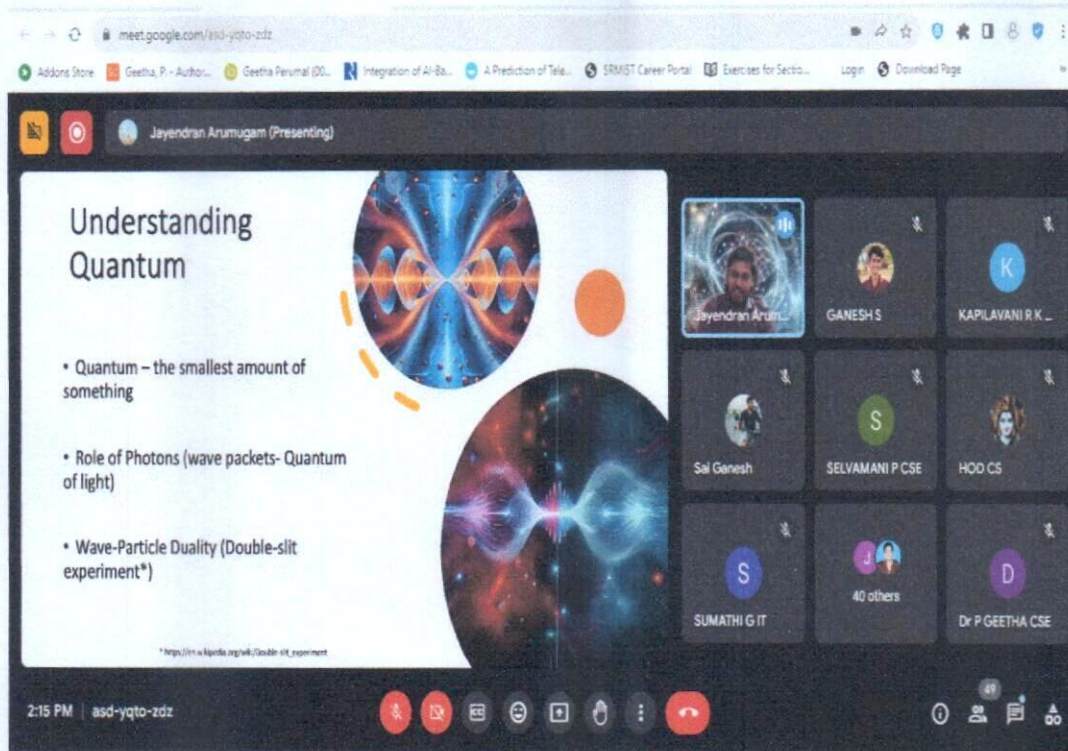**Figure 4 : Session handled by Mr. Jeyandran Arumugam**

The session speaker introduced the basics of Quantum computing, Principles,Apps and Teleportation. The speaker explained the difference between classical and quantum computing, Understanding Quantum and the types of quantum computers. And also, he explained the quantum properties Qubit (vs Bit), Superposition, Entanglement and potential quantum applications.
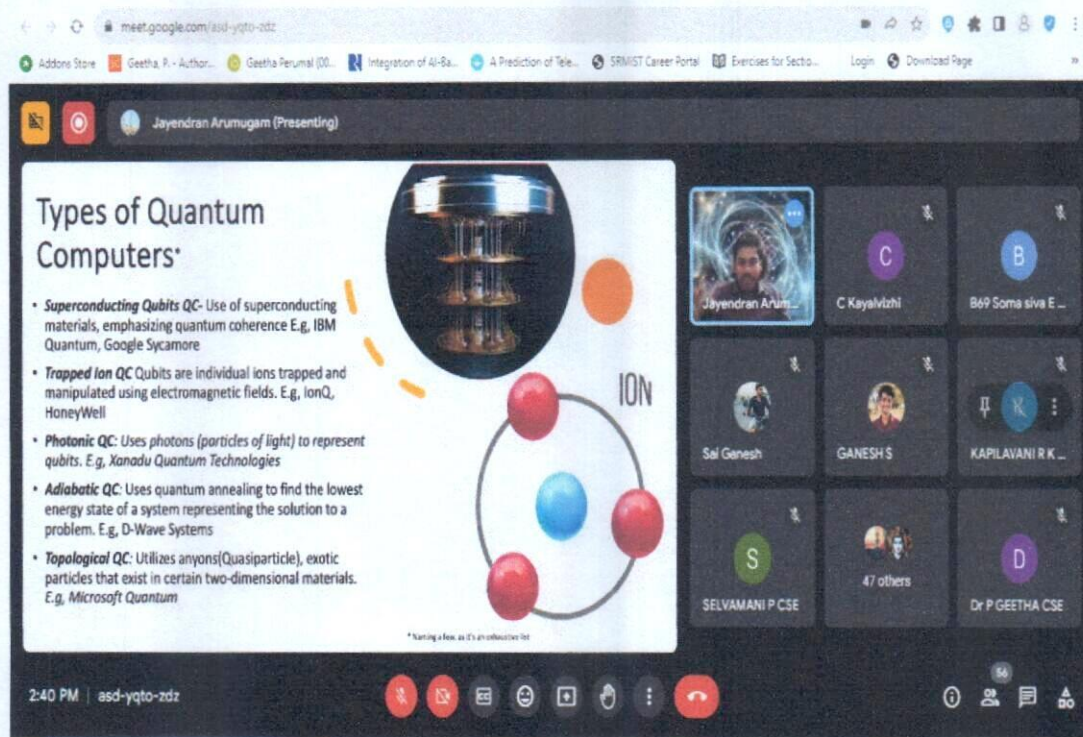
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Figure 5 : Session handled by Mr. Jeyandran Arumugam

Real Quantum Computing, Inside look Quantum Computer: At small scales, physical matter exhibits properties of both particles and waves, and quantum computing leverages this behavior, specifically quantum superposition and entanglement, using specialized hardware that supports the preparation and manipulation of quantum states.

Representing qubits mathematics using the Bloch sphere: The Bloch sphere is a 3-dimensional sphere, where any point on the surface of the sphere represents a unique pure state of a qubit. The north and south poles of the Bloch sphere usually represent the basis states $|0\rangle$ and $|1\rangle$, respectively.

Qubit: The speaker explained about Single-qubit vs. multi-qubit gates, Two-qubit states Measuring two-qubit states, Two-qubit operations, Quantum entanglement as well as 2 qubit pauli gates.

Quantum teleportation algorithm: In quantum teleportation, the properties of quantum entanglement are used to send a spin state (qubit) between observers without physically moving the involved particle.
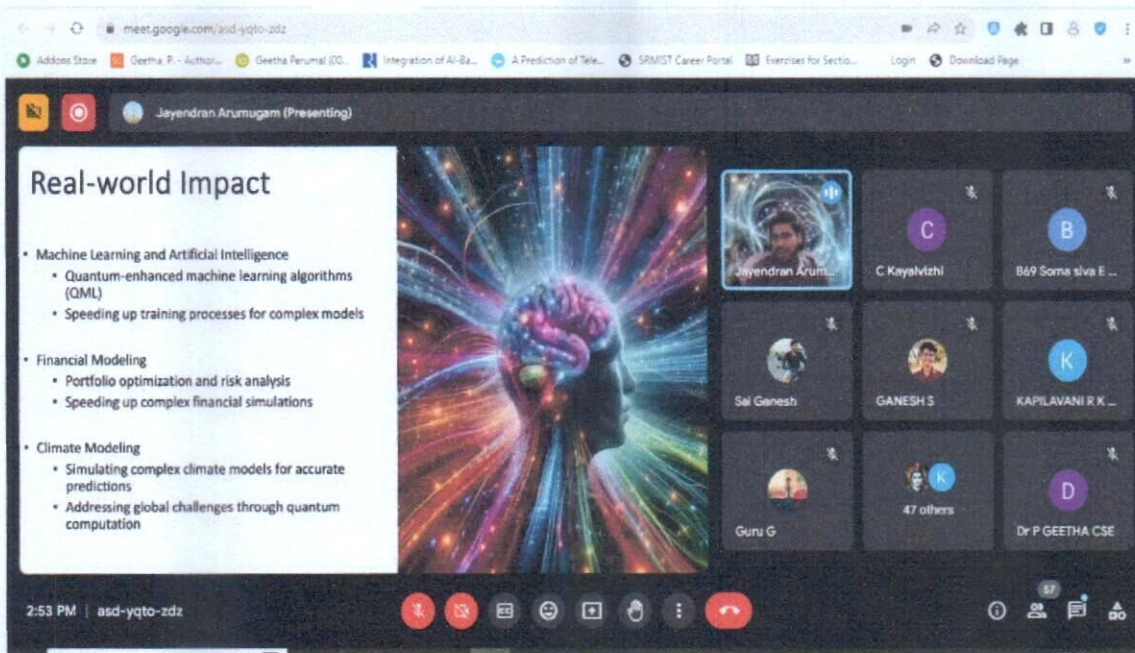
Figure 6 : Session handled by Mr. Jeyandran Arumugam
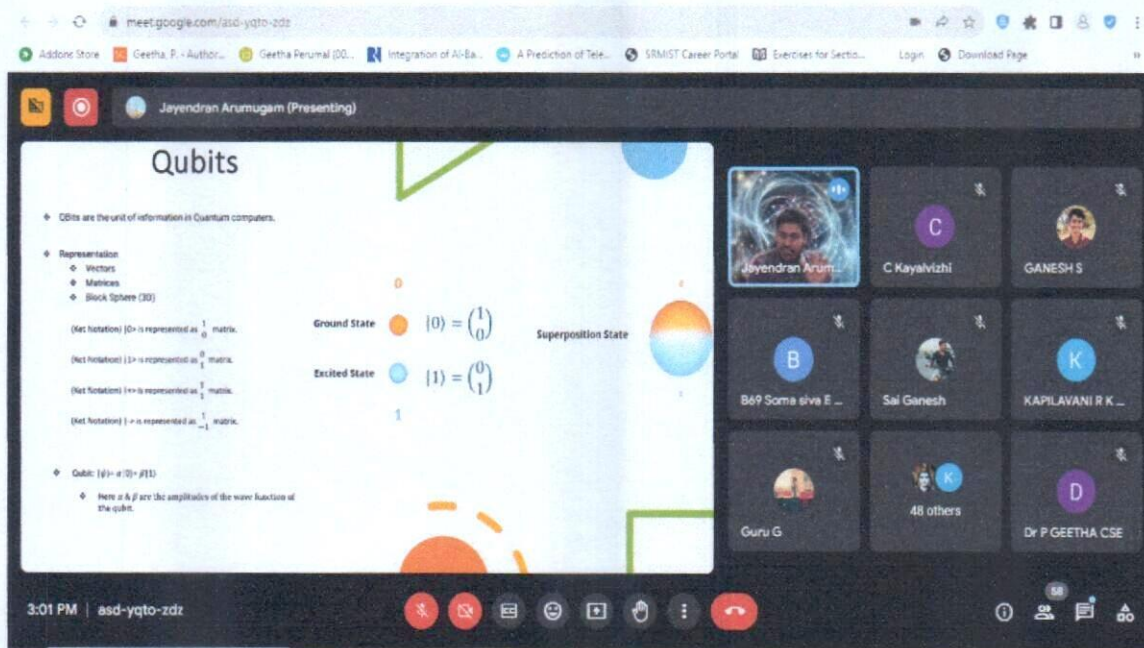
Figure 7 : Session handled by Mr. Jeyandran Arumugam

How hard is it to teleport a human? And references were given to the participants. In conclusion, the journey into quantum computing through the real world impact, architecture, operations of qubit and its applications.

Day 3: 07.02.2024

The Third day of STTP on Quantum Computing started with the welcome address by the student coordinator of III/CSE(AD), **Mr. S Akash** followed by the session was handed over to by **Mr. Manohar K Gupta.**
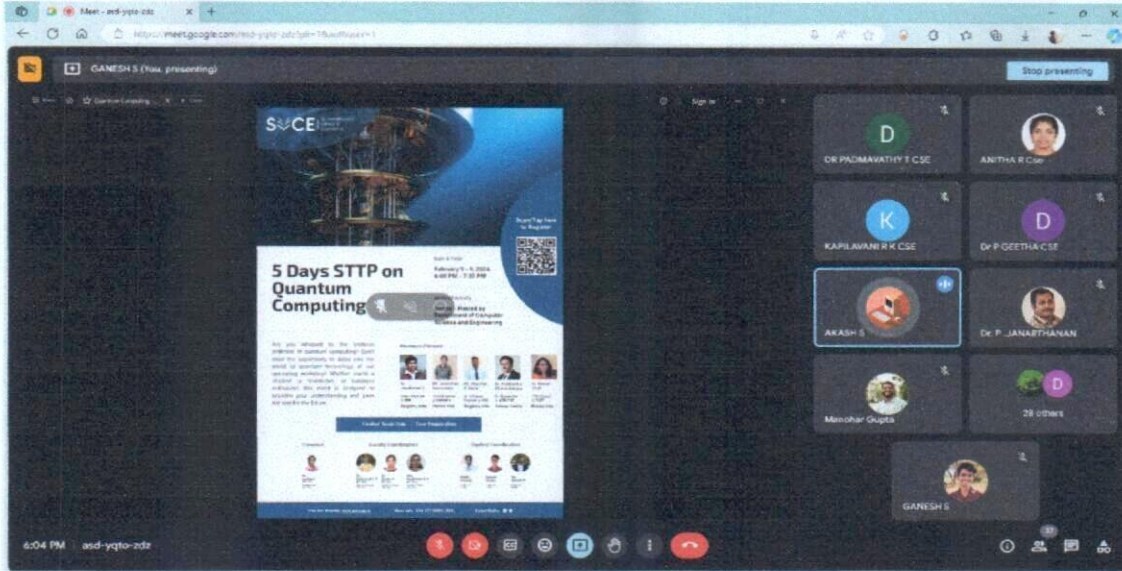
Figure 8: Inaugural address by Mr. S Akash
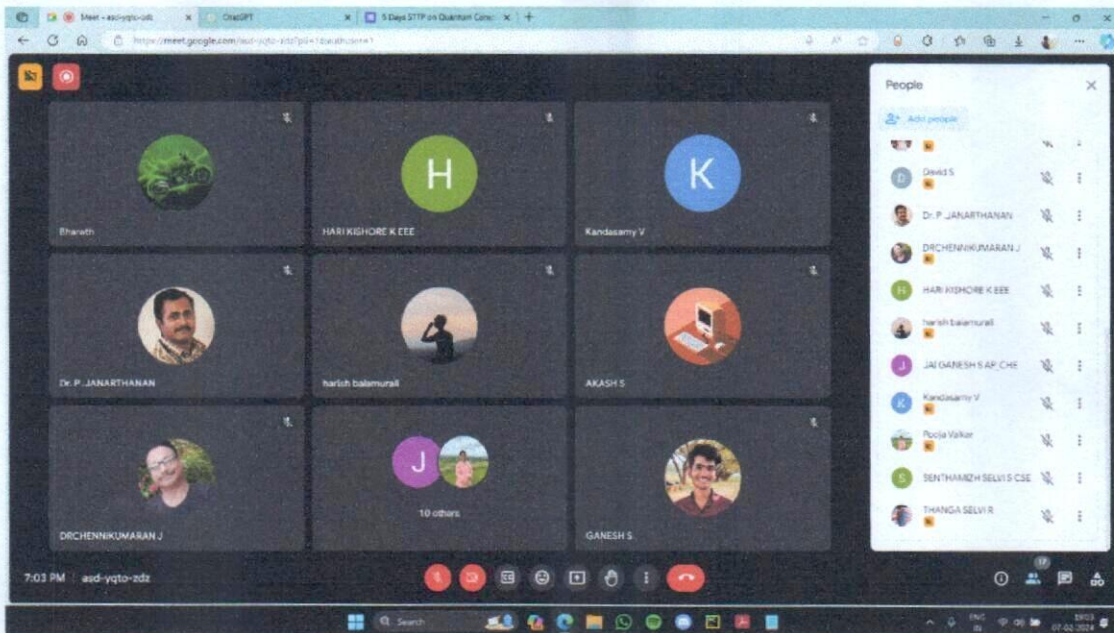
Figure 9 : Discussion with Resource Person

Quantum Safe Cryptography : It secures sensitive data, access, and communications for the era of quantum computing. Sometimes referred to as quantum-proof, quantum-safe or quantum-resistant, is the development of cryptographic algorithms. And also discuss the opportunities for enhancing data privacy and security through quantum cryptography and secure multiparty computation protocols.

Finding factorization using Shor's Algorithm: Shor's algorithm will be able to break math-based systems in moments. Symmetric ciphers (like AES-256, Twofish-256) are quantum-safe. Most popular public-key cryptosystems (like RSA, DSA, ECDSA, EdDSA, DHKE, ECDH, ElGamal) are quantum-broken! Most digital signature algorithms (like RSA, ECDSA, EdDSA) are quantum-broken!

Day 4: 08.02.2024

The Fourth day of STTP on Quantum Computing started with the welcome address by the student coordinator of III/CSE(AD), **Mr. Ganesh Sriram** followed by the session was handed over to **Dr. Siddhartha Bhattacharya, Senior Researcher @ VSB-TUO.**

The session of **Dr. Siddhartha Bhattacharya** aimed to introduce participants to the basic concepts of quantum hardware, including qubits, quantum gates, and quantum circuits. It also aimed to familiarize participants with the current state of quantum computing and its potential applications. The session covered fundamental quantum concepts, such as superposition and entanglement, explaining how they differ from classical computing principles. Participants were introduced to qubits, the basic unit of quantum information, and the concept of quantum parallelism.
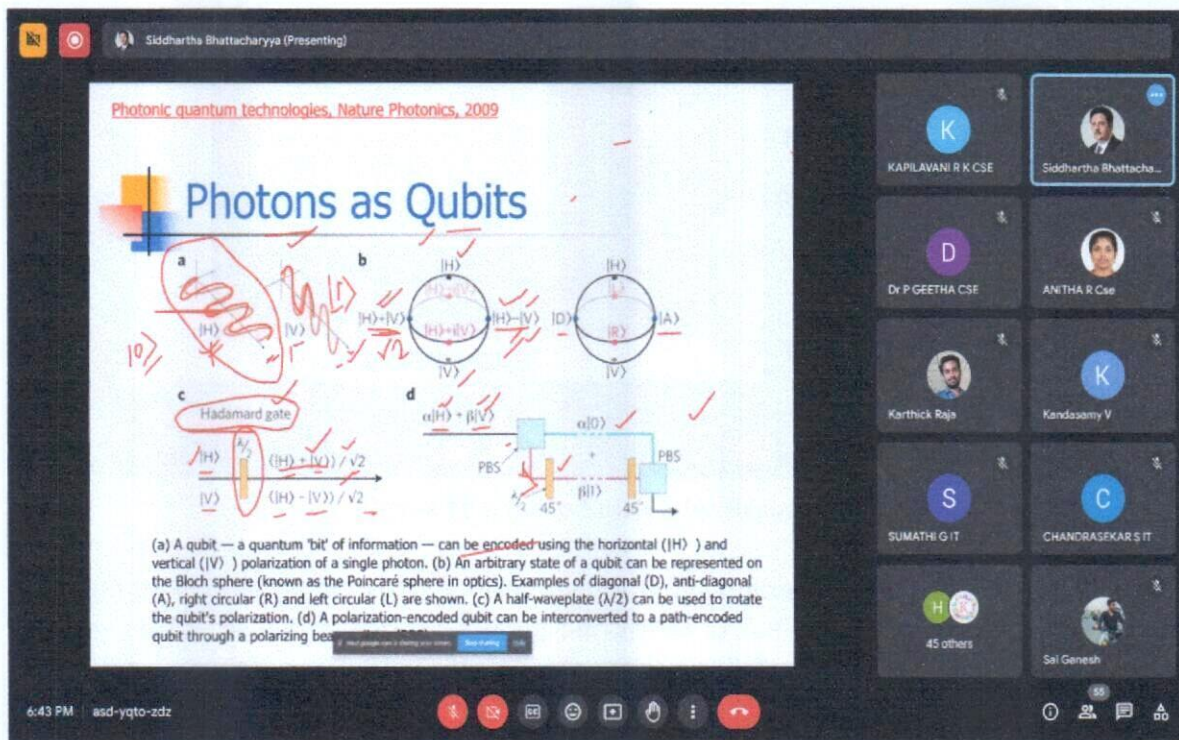
Figure 10 : Photonic Quantum Technologies

The session incorporated interactive elements, including visual aids, demonstrations, and opportunities for participants to ask questions. The engagement level was high, with participants actively participating in discussions and expressing curiosity about the subject matter. The content was presented logically, building a step-by-step understanding of quantum hardware

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concepts. Complex ideas were broken down into digestible segments, making it accessible for those with varying levels of prior knowledge.

The content was relevant to both beginners and those with a basic understanding of quantum mechanics or computer science. The session catered to a diverse audience, ensuring that participants could grasp the material regardless of their background. The presenter was knowledgeable and could effectively communicate complex concepts in a clear and accessible manner. Professor's enthusiasm for the topic contributed to an engaging learning environment.
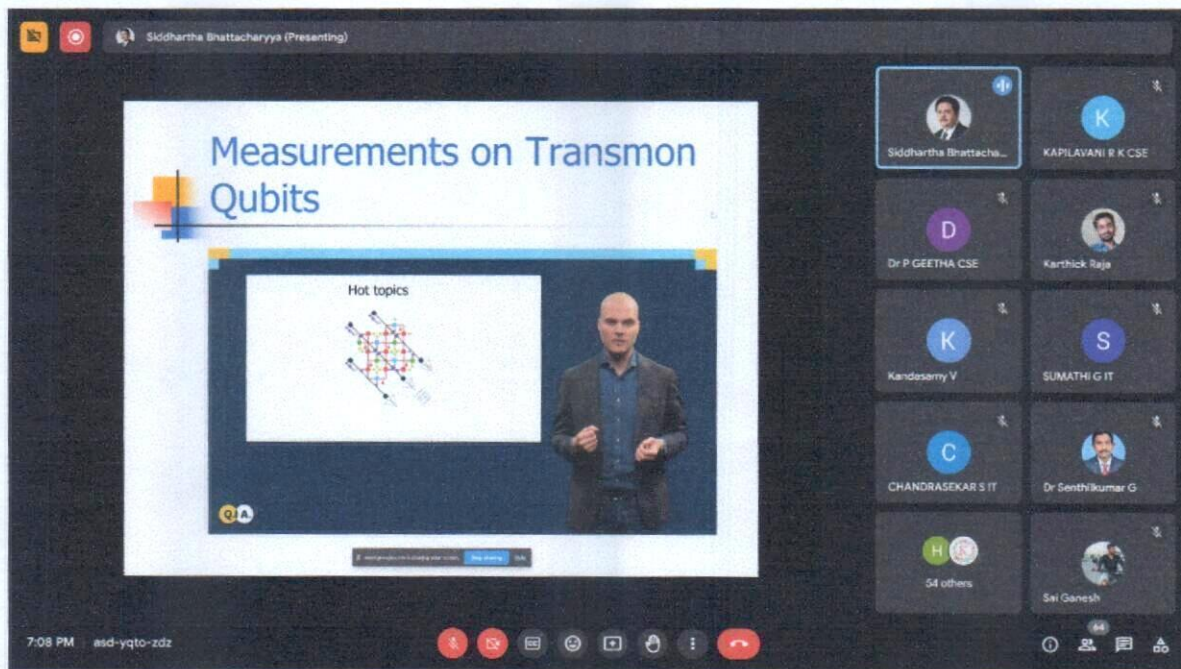
Figure 11 : Video Session by Resource Person

The session allowed for networking opportunities through group discussions and collaborative problem-solving activities. Participants had the chance to connect with each other, fostering a sense of community among those interested in quantum hardware. The knowledge gained from the introductory session can be applied in understanding the basics of quantum algorithms and exploring potential applications in cryptography, optimization, and machine learning.
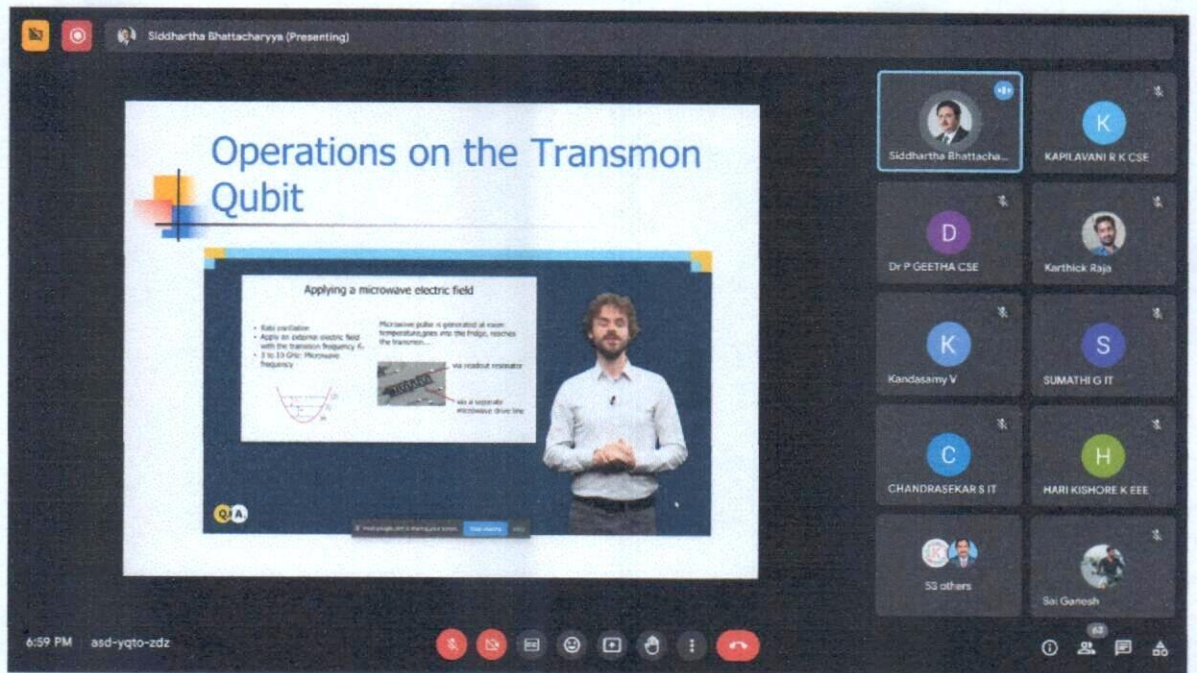
Figure 13 : Video Session by Resource Person

The introductory session on Quantum Hardware was successful in achieving its objectives. It set a positive tone for future sessions and sparked interest in further exploration of quantum computing concepts.

Day 5: 10.02.2024

The Fifth day of STTP on Quantum Computing started with the welcome address by the student coordinator of III/CSE(AD), **Mr. Sai Ganesh** followed the session and was handed over to **Dr. Kamal Shah, IT Professor @ TCET.**

The session of **Dr Kamal Shah**, started with the introduction of Quantum Computing in Data Analytics.Quantum computing has the potential to revolutionize data analysis by offering exponential computational power, enabling the processing of vast datasets and solving complex optimization and machine learning problems more efficiently than classical computers.

She explained the quantum coin flip experiment demonstrates how quantum mechanics allows for a different approach to randomness compared to classical physics. While classical coin flips result in either heads or tails, quantum coin flips can exist in a superposition of both states simultaneously due to the principles of quantum mechanics.

And also, described about decoherence refers to the loss of coherence or the decay of quantum information due to interactions with the environment. Decoherence is a significant challenge in quantum systems, including in quantum coin flip experiments, as it can disrupt the delicate superposition of quantum states and lead to errors in computation or measurement outcomes.
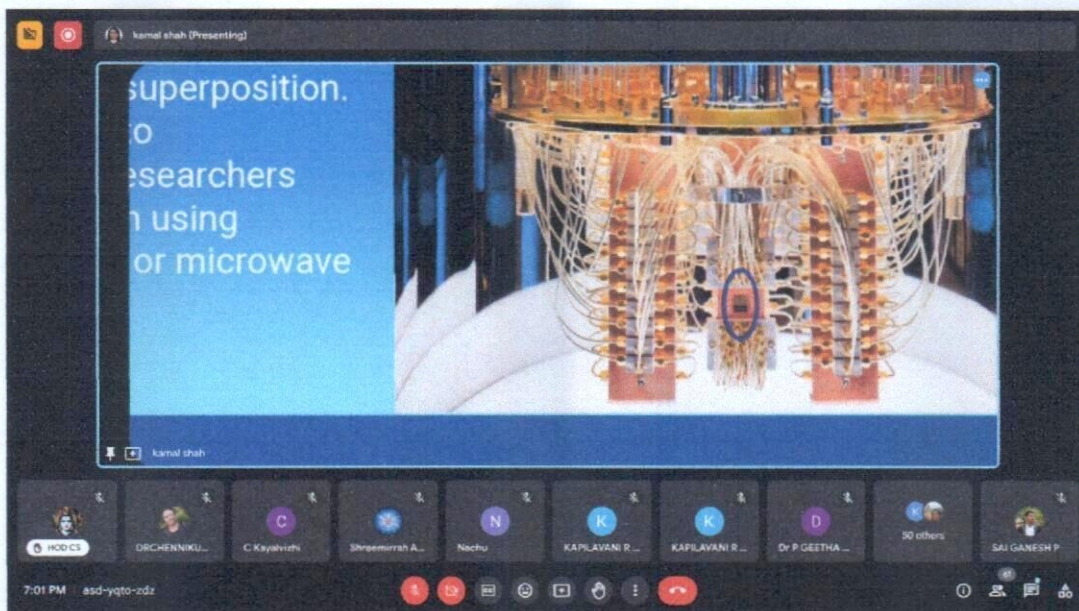
Figure 14 : Explanation of Quantum Computer by Resource Person
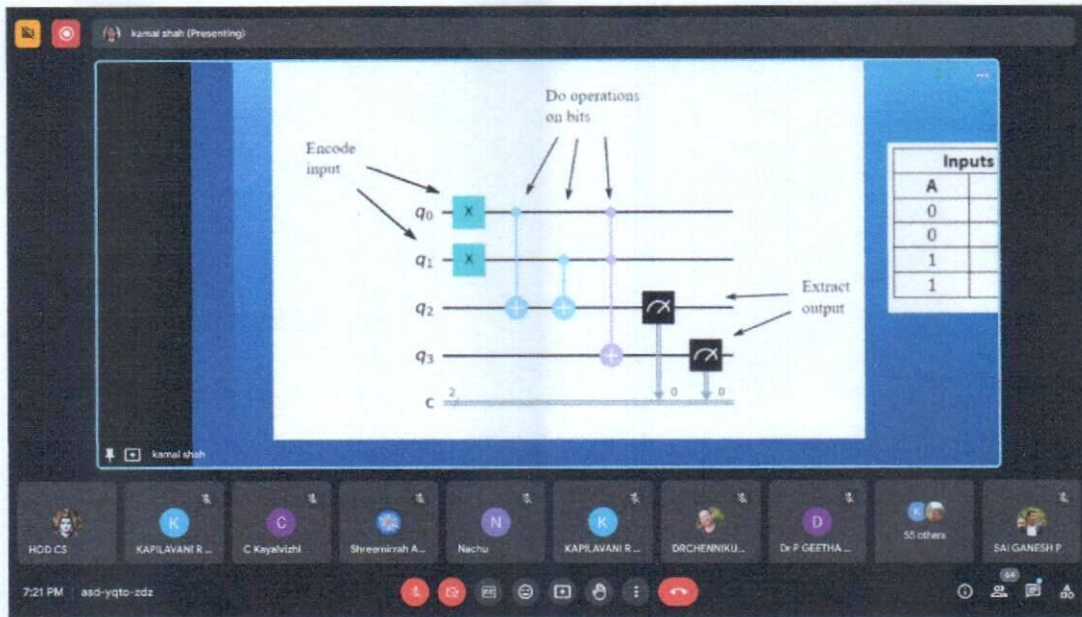
Figure 15 : Operations on Qubits
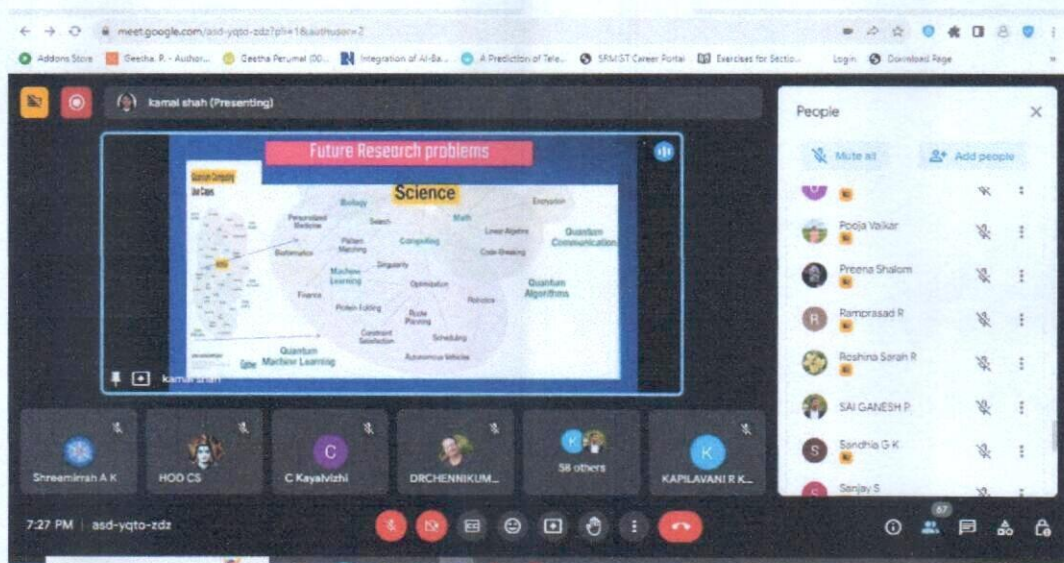
Figure 16 : Explanation of Research Problems on Quantum Computing

Addressing these problems requires interdisciplinary collaboration among physicists, computer scientists, mathematicians, and engineers to drive innovation and progress in quantum computing technology. These research problems represent just a subset of the many challenges and opportunities in the rapidly evolving field of quantum computing.

SVCE Sri Venkateswara College of Engineering
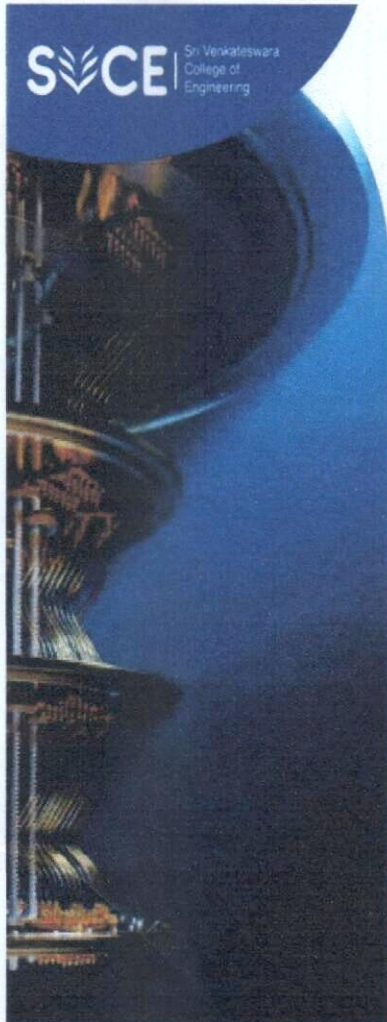
Certificate of Honor

STTP on Quantum Computing

Proudly Presented To

Dr. Kamal Shah

IT Professor @ **TCET**,

who served as an invaluable resource person during the "5 Days Short Term Training Program (STTP) on Quantum Computing" organized by the Department of Computer Science and Engineering, SVCE on **10th February, 2024**.

Dr. R Anitha
HoD / CSE, SVCE

Dr. S Ganesh Vaidyanathan
Principal, SVCE

Certificate of Appreciation

STTP on Quantum Computing

Proudly Presented To

Dr. Chenni Kumaran J

of **Saveetha School of Engineering**,

for successfully completing the '5 Days STTP on Quantum Computing' organized by the **Department of Computer Science and Engineering, SVCE** from **5th February to 10th February 2024**. This certificate is awarded in recognition of their commitment to advancing knowledge in the field of Quantum Computing

Dr. R Anitha
HoD / CSE, SVCE

Dr. S Ganesh Vaidyanathan
Principal, SVCE

Feedback from participants

Day 1 : 05.02.2024

ID:	Name:	Contact Number:	Feedback:	Rate the overall experience of the Training Program	Suggestions, if any
5	MAGESH S	9344159591	Great Session	Excellent	Nil
91	Janani S	9677741326	Excellent	Excellent	Nill
51	Harini.S	9789000625	Nil	Excellent	Nil
67	P JANARTHANAN	9443087791	GOOD	Excellent	NIL
87	Aditi C	7358429778	Good session	Excellent	No suggestions
72	Dr S Rajalakshmi	9047560110	Good Presentation	Excellent	Nil
93	GUNAVATHIE	9597394192	Good	Excellent	Nil
13	Hema A	9363135243	Its a very useful session	Good	Nil
23	Bershay R	7845869883	I loved the session very much as I understood about quantum mechanics very easily.His English language also understandable in a easier manner.I like it.	Excellent	No I doesn't think this class requires a suggestion.
90	T.Padmavathy	9445758475	Session is very informative	Good	Many new ideas were shared in this session. Can organize more like this
69	S Jai Ganesh	9677012487	Good	Excellent	Nil
036	Dr.Carmel Mary Belinda M	9486110685	excellent	Excellent	no
91	Janani S	9677741326	Great knowledge Gain	Excellent	Nill
55	Ajay Narayanan K	8300140340	It was a good experience	Excellent	No
37	Dr Gnanajeyaraman Rajara	9750433275	Very informative session	Excellent	Great session
11	Sakthi	7502591999	The session was really interesting	Excellent	Nil
59	Dr. G.K.Sandhia	9944575181	Good	Excellent	Please provide the ppt and share the notes
68	Agalya. K	9655242293	Good	Excellent	Nothing
3	Abirami RM	7200115701	useful session	Good	nil
84	Soma Siva E	9360399649	Wonderful session.	Excellent	Looking forward for more upcoming sessions like this
53	DHARSHANA SHRI P	9080766418	Excellent	Excellent	NIL
24	Nachu	8754111029	It was informative but I felt like the introduction took more time than needed	Good	The recorded video could be shared: an interactive interface could be used
1	Hemanth Kumar U	8610793058	Nice Training Class	Excellent	No mention
35	Kanimozhi J	6369529767	It was a great session on basics of quantum computing	Excellent	-nil-

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058	Dr. E Kannan	8220579482	excellent	Excellent	no
2	GIRISH	9884162958	It was a very informative one	Excellent	is matlab a quantum computing method
39	Dr. R. THANGA SELVI	9659678901	GOOD	Excellent	GOOD
32	SANTOSHI.R.V	8610706625	Good introduction on "Quantum Computing" to beginners like me. Thank you.	Good	Please start on time.
56	Pooja Saurabh Vaikar	9970692075	informative session	Excellent	No
64	Dr. G. SENTHILKUMAR	9444125131	VERY WELL EXPLAINED & GOOD	Excellent	NO
30	P.MAHISHA	9444663712	Very informative session	Excellent	If more sessions provided it will be very useful
007	Dr.T.Kujani	9940204230	Informative session	Excellent	Sir / Mam, Kindly include Practical Session if possible.
066	M. Karthick Raja	8754941138	Nice Session. Explained the basics of QC	Excellent	NIL
23	Bershay R	7845869883	I loved the session.His explanation and English proficiency is very good as I can Understand very clearly without captions.Thanks for the session.	Excellent	I think this session doesn't requires any session.
42	Dr.R.G.Kumar	8977860747	Good and informative session	Excellent	Good Jayakumar sir !
86	Madhumathi K	6382249288	It was a great session.	Excellent	Nil.
22	Ramprasad R	6381981833	Nice experience	Excellent	NA
45	Dr Omkar Pattnaik	9439413440	Excellent explanation	Excellent	Ok
26	Chandrasekar S	9361851303	It's a very refreshing session	Good	Keep it going!
40	Harish B	9842841116	Good	Good	Nothing
95	S. Preena Jacinth Shalom	9597099863	Very useful session	Excellent	Getting in depth explanation
18	ASHWINRAJAN J S	6374269414	Nice presentation and work on quantum computing	Good	No it is really great
34	Neetu Sharma	8830094157	Excellent session	Excellent	No
89	T.Indumathy	9003025299	Good	Excellent	Na
77	ADHITHIYAN R	6381138640	Good	Good	Nothing
25	BHARATH M	8220487351	Good	Excellent	Nil
79	P.Selvamani	9789592509	Very much informative session	Excellent	No comments
52	Roshina Sarah.R	9176327722	Very Informative session	Excellent	Kindly pls share the ppt.
81	Gurumoorthy G	9786129913	Nice session	Excellent	Good
1	DR A.MANIMARAN	9841605327	Excellent	Excellent	Ok
76	Dr. S. Senthamizh Selvi	9884889603	Nice Presentation. The basics of Quantum is clearly presented.	Excellent	
9	Amritha N	9150668882	good	Good	Nill
80	Bala Gayathri D	7305814541	Good	Good	Good
50	Joseph Benz Y P	9789835296	Good Effort. Appreciate!	Good	expecting detail session on the same
94	Kandasamy V	9840282829	Good	Excellent	Good
41	Dr.J.CHENNI KUMARAN	8825789793	Good eye opening session.	Excellent	Share the materials before start of the session then we can able to understand the flow somewhat.
20	Shanmugapriya R	9790883617	Informative session	Good	Nil
073	Dr P Vinothiyalakshmi	9944154114	Good	Excellent	Nil
29	AHILAN C	8778371584	Good	Good	Nothing
29	AHILAN C	8778371584	Good	Good	Nil
46	Nandhanan R	7708501331	It was interesting.	Good	None
43	Dr. Almas Begum	9176610285	Excellent session	Excellent	Nil
33	Dr S Alex David	7904241134	Good	Excellent	Good
19	R.Bhuvanya	9952789386	Good	Excellent	NA
15	Dr Prabha.M	9894259969	Thank you	Excellent	Pls share the recordings
48	Naveen Kumar G	9500772963	Nice	Excellent	Nil

Day 2 : 06.02.2024

ID:	Name:	Contact Number:	Feedback:	Rate the overall experience of the Training Program	Suggestions, if any
19	R.Bhuvanya	9952789386	Good	Excellent	NA
68	Agalya. K	9655242293	Superb	Excellent	Nil
22	Ramprasad R	6381981833	Nice	Excellent	NA
9	Amritha N	9150668882	Good	Good	Nill
95	S. Preena Jacinth Sha	9597099863	Informative	Excellent	No
81	Gurumoorthy G	9786129913	Good	Excellent	-
79	P.Selvamani	9789592509	Informative session	Excellent	No comments
26	Chandrasekar S	9361851303	Good	Good	Nothing
30	P.MAHISHA	9444663712	Session was very useful	Good	Nil
59	Dr G.K.Sandhia	9944575181	Excellent	Excellent	Please provide the materials and recording
40	Harish B	9842841116	Good	Excellent	Nothing
2	Girish	9884162958	Nice session	Excellent	No
77	ADHITHIYAN R	6381138640	Super	Good	Good
60	ABINAYA S	8667848205	The session was good	Good	No comments
20	Shanmugapriya R	9790883617	Good	Good	Nil
25	BHARATH M	8220487351	Good	Excellent	Nil
29	AHILAN C	8778371584	Good	Good	Nothing
53	DHARSHANA SHRI P	9080766418	Excellent	Excellent	NIL
007	Dr.T.Kujani	9940204230	Excellent Session	Excellent	Require Practical Session if possible
90	T.Padmavathy	9445758475	Good	Excellent	Nil
87	Aditi C	7358429778	Interesting session	Excellent	No suggestions
56	Pooja Saurabh Vaikar	9970692075	Nice session	Excellent	No
036	Dr Carmel Mary Belind	9486110685	Excellent	Excellent	No
91	Janani S	9677741326	Excellent	Excellent	Nope

33	Dr S Alex David	7904241134	Good	Excellent	Good
27	Hari Kishore K	9965795137	Good	Excellent	Nil
72	Dr S Rajalakshmi	9047560110	Informative presentation.	Excellent	Nil
50	Joseph Benz Y P	9789835296	Good, but we need ppt to have the veiw on maths calculation	Good	Sharing PPT immediately after this class , will be good
35	Kanimozhi J	6369529767	Useful and informative session	Excellent	-nil-
24	Nachu	8754111029	The time was not very convenient	Excellent	The recording of the meeting could be shared as connection and audio issues are very probable; it would also be easier to go back and understand better
39	Dr. R. Thanga Selvi	9659678901	good	Excellent	no
74	MrsR AIYSHWARIYA	7867088235	Nice	Excellent	Nil
58	Dr E Kannan	8220579482	Excellent	Excellent	Nil
51	Harini.S	9789000625	Nil	Excellent	Nil
94	Kandasamy V	9840282829	Good	Excellent	Good
23	Bershay R	7845869883	I like his class very much.In the beginning I think his class would bore but while going his class was fascinating.I was studying about quantum gates but it was diffult for me to understand but he explained that in a simpler way.As I was shocked on his explanation.	Excellent	I doesn't see any error here.
057	DR.MANIMARAN	9841605327	Excellent	Excellent	No
1	Hemanth Kumar U	8610793058	Nice Training	Excellent	No mention
80	Bala Gayathri D	7305814541	Good	Good	Good
52	Roshina Sarah.R	9176327722	Need ppt	Good	Sharing ppt soon will help a lot
13	Hema A	9363135243	Awesome session	Good	Nil
41	Dr.J.Chenni Kumaran	8825789793	Excellent	Excellent	Please do this event on a specified time. Because, I struggled a lot due to my classes. I registered this event to attend 6 pm to 7.30 pm. Please stick on the time mentioned.
64	Dr. G. SENTHILKUMA	9444125131	Good	Good	No
44	Narmadha.M	9790326603	Useful session	Excellent	No
86	Madhumathi K	6382249288	Amazing session	Excellent	No
96	J.Hemavathy	7338716050	Good	Excellent	-
37	Dr Gnanajeyaraman R	9750433275	Very informative session	Excellent	Great session
31	DHANUSH.M	9514251368	i learned more about today session	Excellent	nil
76	Dr. S. Senthamizh Sel	9884889603	More Informative	Excellent	Well organized and presented by resource person within the given time. More conferences can be conducted with him.
066	M. Karthick Raja	8754941138	Nice session, Fully engaged.	Excellent	NIL
49	Deepak B R	9884655292	Good Session	Excellent	None
92	C KAYALVIZHI	9944995784	Excellent session sir	Excellent	nice presentation as we get into the world QC
84	Soma Siva E	9360399649	Sesion was great.	Excellent	Kind request to conduct the session ater 3.30 pm.so that everyone will attend
55	Ajay Narayanan K	8300140340	Good	Excellent	No
89	T.indumathy	9003025299	Good	Good	Na

Day 3: 07.02.2024

ID:	Name:	Contact Number:	Feedback:	Rate the overall experience of the Training Program	Suggestions, if any
10	Shreemirrah A K	9791030677	Nil	Excellent	Nil
22	Ramprasad R	6381981833	Nice	Excellent	NA
95	S. Preena Jacinth Sha	9597099863	Good	Good	No
59	Dr.G.K.Sandhia	9944575181	Good	Good	Share the materials
51	Harini.S	9789000625	Nil	Excellent	Nil
91	Janani S	9677741326	Excellent	Excellent	Nope
5	MAGESH S	9344159591	Good dession	Excellent	Nil
84	Soma Siva E	9360399649	Session was so interesting	Excellent	Nil
31	DHANUSH.M	9514251368	i have learned about today session	Excellent	nil
90	T.Padmavathy	9445758475	Good	Good	Nil
49	Deepak B R	9884655292	Informative session	Excellent	None
87	Aditi C	7358429778	Good session	Excellent	No suggestions
2	Girish	9884162958	very understandable session	Excellent	Thanks CS dept
60	ABINAYA S	8667848205	The session was good	Good	No comments
72	Dr S Rajalakshmi	9047560110	Very Informative	Excellent	Nil
45	Dr Omkar Pattnaik	9439413440	Excellent	Good	If prototype is demonstrated, it may be more interacting
50	Joseph Benz Y P	9789835296	OK, but looking for some materials like PPT to be shared	Good	looking for some materials like PPT to be shared
52	Roshina Sarah.R	9176327722	Session is very informative	Excellent	-
36	Dr. Carmel Mary Belin	9486110685	good	Good	no
066	M. Karthick Raja	8754941138	Excellent session by manohar Gupta	Excellent	NIL
96	J.Hemavathy	7338716050	Good	Excellent	-
32	SANTOSHI.R.V	8610706625	The session was slow.	Good	NIL
38	Sivaram Ponnusamy	9787204086	Excellent Session	Excellent	Nil
20	Shanmugapriya 2	9790883617	Nice session	Good	Nil

73	P Vinothiyalakshmi	9944154114	Good	Excellent	Nil
81	Gurumoorthy G	9786129913	Good	Excellent	Good
58	Dr.E Kannan	8220579482	good	Good	no
92	C Kaylvizhi	9944995784	excellent session	Excellent	needed little more details have added on Quantum Algorithms in
80	Bala Gayathri D	7305814541	Good	Good	Good
68	Agalya K	9655242293	Good	Excellent	Nil
23	Bershay R	7845869883	He have took the seeion in the manner as we have mastered quantum computing.As he should explain it atleast clearly.	Fair	He should explain more clearly and precisely.
55	Ajay Narayanan K	8300140340	Excellent	Excellent	NIL
26	CHANDRASEKAR S	9361851303	Good	Fair	Nothing
53	DHARSHANA SHRI P	9080766418	Excellent	Excellent	NIL
86	madhumathi k	6382249288	productive session	Excellent	nil
24	Nachu	8754111029	Felt like it was a little fast paced	Good	I think it will be helpful if the recording was shared
41	Dr.J.Chenni Kumaran	8825789793	Excellent	Excellent	Needs more case studies
37	Dr Gnanajeyaraman R	9750433275	Very informative session	Excellent	Great session
35	Kanimozhi J	6369529767	overall it's a useful session but it could have been even more better	Good	-
007	Dr.T.Kujani	9940204230	Good	Excellent	Good
25	BHARATH M	8220487351	Good	Excellent	Nil
33	Dr S Alex David	7904241134	Good	Excellent	Good
19	R.Bhuvanya	9952789386	Good	Excellent	NA
39	Dr.R.TRhanga Selvi	9659678901	good	Excellent	no
27	Hari Kishore K	9965795137	Good	Excellent	Nil
77	ADHITHIYAN R	6381138640	Good	Excellent	Nothing

Day 4 : 08.02.2024

ID:	Name:	Contact Number:	Feedback:	Rate the overall experience of the Training Program	Suggestions, if any
87	Aditi C	7358429778	Good session	Excellent	No
91	Janani S	9677741326	Excellent	Excellent	Nope
19	R.Bhuvanya	9952789386	Good	Excellent	NA
94	Kandasamy V	9840282829	Good	Excellent	Good
67	P JANARTHANAN	9443087791	----	Good	NIL
96	J.Hemavathy	7338716050	Good	Excellent	-
22	Ramprasad R	6381981833	Nice	Excellent	NA
56	Pooja Saurabh Vaikar	9970692075	Nice session	Excellent	No
31	DHANUSH.M	6434344398	i have learned more about quantum computing in today session	Excellent	nil
40	Harish B	9842841116	Good	Excellent	Nothing
68	Agalya K	9655242293	Excellent session	Excellent	Nil
29	AHILAN C	8778371584	Good	Excellent	Nil
9	Amritha N	9150668882	GOOD	Good	Nill
45	Dr Omkar Pattnaik	9439413440	Very good	Good	No
72	Dr S Rajalakshmi	9047560110	Informative	Excellent	Nil
42	Dr.R.G.KUMAR	8977860747	Informative session	Excellent	Good and informative session
95	S. Preena Jacinth Sha	9597099863	Excellent session	Excellent	No suggestions
51	Harini.S	9789000625	No	Excellent	No
20	Shanmugapriya R	9790883617	Informative session	Good	Nil
59	Dr.G.K.Sandhia	9944575181	Good	Excellent	Share the materials
36	Dr.Carmel Mary Belind	9486110685	good	Good	no
5	Magesh S	9344159591	nil	Excellent	nil
32	SANTOSHI.R.V	8610706625	Interesting session. Thank you.	Good	nil
79	P.Selvamani	9789592509	Informative session	Excellent	No comments

25	BHARATH M	8220487351	Good	Excellent	Nil
007	Dr.T.Kujani	9940204230	Informative session	Excellent	Informative session
52	Roshina Sarah.R	9176327722	Session was very useful	Excellent	-
90	T.Padmavathy	9445758475	Good	Excellent	Nil
55	Ajay Narayanan K	8300140340	Excellent	Excellent	NIL
64	Dr. G. SENTHIL KUMA	9444125131	Very Good Session. Resource Person covering Hardware working of Quantum part. it is new to me . very good	Excellent	no
84	Soma Siva E	9360399649	Extremely wonderful to understand hardwares on quantum computing	Excellent	Nil
066	M. Karthick Raja	8754941138	Very informative session by siddartha battacharya	Excellent	NIL
49	Deepak B R	9884655292	Informative Session	Excellent	None
39	Dr. R. Thanga Selvi	9659678901	good	Excellent	good
50	Joseph Benz y p	9789835296	Sharing class ppts will be good as this topics are new to everyone	Good	Sharing class ppts will be good as this topics are new to everyone
76	Dr. S. Senthamizh Sel	9884889603	The session was more informative and the videos played were interesting	Excellent	NIL
35	Kanimozhi J	6369529767	informative and useful session	Excellent	-
26	CHANDRASEKAR S	9361851303	Good session	Good	Nothing
2	Girish	9884162958	It was a great session	Excellent	Nil
92	C Kayalvizhi	9944995784	excellent session	Excellent	good session we had ever before on quantum hardware
58	Dr. E Kannan	8220579482	good	Good	no
24	Nachu	8754111029	Audio felt distorted	Good	
80	Bala Gayathri D	7305824541	Good	Good	Good
41	Dr.J.Chenni Kumaran	8825789793	Good	Excellent	Needs more practical sessions.
43	Dr. Almas Begum	9176610285	Excellent	Excellent	Nil
53	DHARSHANA SHRI P	9080766418	Excellent	Excellent	NIL
77	ADHITHIYAN R	6381138640	Excellent	Excellent	Nothing
057	Dr.A.MANIMARAN	9841605327	Excellent	Excellent	No
13	Hema A	9363135243	The session was Good	Excellent	Nil

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23	Bershay R	7845869883	He should take class in an interactive mannwer	Excellent	Nope
81	Gurumoorthy G	9786129913	Good	Excellent	All Good
37	Dr Gnanajeyaraman R	9750433275	Very informative session	Excellent	Great session
86	Madhumathi K	6382249288	Had such an excellent learning experience.	Excellent	Nil
73	P Vinothiyalakshmi	9944154114	Good	Excellent	Nil
33	Dr S Alex David	7904241134	Good	Excellent	good

Day 5 : 10.02.2024

ID:	Name:	Contact Number:	Feedback:	Rate the overall experience of the Training Program	Suggestions, if any
91	Janani S	9677741326	Excellent	Excellent	Nope
51	Harini.S	9789000625	No	Excellent	No
23	Bershay R	7845869883	The class is perfect.	Excellent	No need of any suggestions
20	Shanmugapriya R	9790883617	Good session	Good	Nil
74	Mrs.R.AIYSHWARIYA	9790272045	Nice	Excellent	Excellent session
43	Dr.Almas Begum	9176610285	all sessions are good	Excellent	share all session ppts
2	Girish	9884162958	Great	Excellent	Thanks for conducting
59	Dr G.K.Sandhia	9944575181	Good	Excellent	Share the materials
066	M. Karthick Raja	8754941138	Excellent Session by kamal sahah	Excellent	NIL
68	AGALYA K	9655242293	Excellent session	Excellent	Excellent session
39	Dr. R. Thanga Selvi	9659678901	Good	Excellent	No
40	Harish B	9842841116	Good	Good	Nothing
19	R.Bhuvanya	9952789386	Good	Excellent	NA
89	T.Indumathy	9003025299	Informative sessions	Excellent	Na
67	P. JANARTHANAN	9443087791	Good- Practical session may given	Good	-
90	T.Padmavathy	9445758475	Very informative	Excellent	Nil
9	Amritha N	9150668882	Good	Good	Nill
77	ADHITHIYAN R	6381138640	Excellent	Excellent	Nothing
22	Ramprasad R	6381981833	Nice	Excellent	NA
37	Dr GNANAJEYARAMA	9750433275	Very informative session	Excellent	very nice
36	Dr Carmel Mary Belind	9486110685	Excellent	Excellent	No
55	Ajay Narayanan K	8300140340	Good	Excellent	No
60	ABINAYA S	8667848205	The session was good	Good	No comments
29	AHILAN C	8778371584	Good	Excellent	Nothing

25	BHARATH M	8220487351	Good	Excellent	Nil
007	Dr.Kujani T	9940204230	Informative Session	Excellent	Expecting more STTP similar to this one. Thank You.
95	S. Preena Jacinth Sha	9597099863	Good session	Excellent	No
52	Roshina Sarah.R	9176327722	Session is very useful and informative	Good	-
49	Deepak B R	9884655292	Informative Session	Excellent	None
94	Kandasamy V	9840282829	Good	Excellent	Good
32	SANTOSHI.R.V	8610706625	Very useful.	Good	Please organize and conduct many workshops like this.
45	Dr Omkar Pattnaik	9439413440	Excellent	Excellent	Already given
13	Hema A	9363135243	Useful session	Excellent	Nil
26	Chandrasekar S	9361851303	Good	Good	Nothing
57	Dr.E Kannan	8220579482	Excellent	Excellent	No
56	Pooja Saurabh Vaikar	9970692075	Nice session	Excellent	No
50	Joseph Benz Y P	9789835296	Sharing material Will be Good	Good	Sharing material Will be Good
53	Dharshana Shri P	9080766418	good	Excellent	no
84	Soma Siva E	9360399649	Session was so amazing	Excellent	Looking forward for this kind of amazing sessions
64	Dr. G. SENTHIL KUMA	9444125131	Excellent Session	Excellent	Practical Session including in this program more interesting
27	Hari Kishore K	9965795137	Good	Excellent	Nil
35	Kanimozhi J	6369529767	Informative, Useful and interactive session	Excellent	-
24	Nachu	8754111029	Explanatory; a little slow and introductory but very thorough	Excellent	Material could be shared
30	P.MAHISHA	9444663712	Very informative session	Excellent	Nil
10	Shreemirrah A K	9791030677	Nil	Excellent	Nil
31	DHANUSH.M	9514251368	i learned more about quantum computing in today session	Excellent	nil
5	Magesh S	9344159591	Great	Excellent	Nil
3	Abirami.RM	7200115701	Good session. It was taught in a simple way with real life examples.	Excellent	Nil
1	Hemanth Kumar U	8610793058	Nice training session	Good	No mention

057	DR.A.MANIMARAN	9841605327	Excellent	Excellent	No
8	Yogesh Bhawarker	7709105545	It was good	Excellent	It was good
41	Dr.J.Chenni Kumaran	8825789793	Excellent	Excellent	Hands on sessions needed.
92	C.Kayalvizhi	9944995784	Excellent	Excellent	Nothing. The Session is really superb madam
69	S Jai Ganesh	9677012487	Excellent	Excellent	Nil
80	Bala Gayathri D	7305814541	Good	Good	Good
86	Madhumathi K	6382249288	Excellent session	Excellent	Nope
15	Dr Prabha.M	9894259969	Sorry to say this. I am not attending regularly. Bt i came to.knw from my friend, all your sessions are really good. I need a favour from your side. Can you pls share those videos? means, its very useful for me. Thank you	Excellent	Thank for your team. Please continue the same thank u.
33	Dr S Alex David	7904241134	Good	Excellent	Good
87	Aditi C	7358429778	Good session	Excellent	No suggestions
73	P Vinothiyalakshmi	9944154114	Good	Excellent	Nil