



VIT
CHENNAI



Anusandhan
National
Research
Foundation



2ND NATIONAL WORKSHOP ON QUANTUM MATHEMATICS AND BIOMEDICAL IMAGING FOR INTELLIGENT HEALTHCARE 5.0 QMI-2026 (PHYSICAL MODE)

This workshop bridges Quantum Mathematics, Biomedical Imaging, Artificial Intelligence, and Healthcare Technologies, fostering interdisciplinary research, clinical innovation, and translational healthcare solutions.



Monday - Friday
12-16, October 2026



Time
10.00 a.m. - 04.00 p.m.



Vellore Institute of Technology
Chennai

Visit us at: <https://qmi2025.onrender.com>

ORGANIZED BY

Department of Mathematics
School of Advanced Sciences
VIT - Chennai, 600 127

CO-HOST BY

Foundation for QC Innovation (FQCI)
DST-NQM Hub for Quantum Computing
IISc, Bengaluru - 560 012

VIT - A PLACE TO LEARN, A CHANCE TO GROW



ABOUT VIT

Vellore Institute of Technology (VIT) was founded in 1984 as Vellore Engineering College, a self-financing institution dedicated to providing quality higher education. In 2001, the Union Ministry of Human Resource Development conferred university status on the institution under Section 3 of the University Grants Commission (UGC) Act, 1956. VIT is led by its visionary founder and Chancellor, Dr. G. Viswanathan, a former Parliamentarian and Minister in the Government of Tamil Nadu. In recognition of his exceptional contributions to education, Dr. G. Viswanathan was awarded an honorary doctorate by West Virginia University (USA) in 2009 and the State University of New York (USA) in 2024. With a commitment to delivering world-class education on par with international standards, VIT continually adopts innovative approaches to teaching and research. Our Memoranda of Understanding with various international universities, being a major strength, enable meaningful collaborations via student and faculty exchanges and foster joint research projects. Many of our students, working in international organizations and universities, deliver high-quality solutions and conduct research that bring esteem to India and make us proud of our legacy. At VIT, the pursuit of excellence in education and research is complemented by a dynamic ecosystem of innovation, research and global engagement. As we advance steadily, we remain steadfast in our mission to mature leaders and innovators who can make a meaningful impact on the world.

ABOUT VIT CHENNAI

VIT Chennai was established in 2010 and has since become a beacon of excellence in higher education. Spearheaded by Vice-President Dr. G. V. Selvam, a pioneering visionary who laid the foundation of VIT Chennai, he is an insightful architect of its evergreen campus and an ingenious leader whose comprehensive vision and mission have shaped its growth. Under his guidance, VIT Chennai has rapidly evolved into a hub of innovation and academic distinction. The leadership team, including Vice-Chancellor Dr. V. S. Kanchana Bhaaskaran, Pro-Vice Chancellor Dr. T. Thyagarajan, Director Dr. K. Sathiyarayanan and Additional Registrar Dr. P. K. Manoharan, drives its mission of delivering transformative education and impactful research. Strategically located in the capital city of Tamil Nadu, VIT Chennai is a globally engaged, competitive, and research-enriched institution.

VIT Chennai proactively addresses industrial, social, economic and environmental challenges, fostering application-based learning that produces industry-ready professionals. Known for its cosmopolitan atmosphere, VIT Chennai attracts students from across the globe, fostering a vibrant and multicultural community.

Committed to maximizing industrial connectivity and establishing Centers of Excellence in cutting-edge research areas, VIT Chennai enriches technological and managerial human capital through a collaborative and inclusive academic environment. It serves as a platform for intellectual exchange, encouraging the convergence of diverse ideas to drive innovation and learning. Dedicated to societal and industrial advancement, VIT Chennai leverages its resources to benefit the community, supports national knowledge-building initiatives and fosters international collaborations for mutual progress in research and education. With a clear vision and an unwavering mission, VIT Chennai continues to redefine the landscape of higher education in India and beyond.

ABOUT SAS

The School of Advanced Sciences (SAS) at VIT Chennai, comprises Department of Mathematics, Physics and Chemistry. It offers the following programmes:

- Ph.D.
- M.Sc Data Science, M.Sc Physics, M.Sc Chemistry

The school also offers a plethora of core and elective courses facilitating B.Tech, M.Tech, MCA, Integrated M.Tech, Management and Law programmes.

ABOUT QMI-2026

QMI-2026 is a five-day national workshop dedicated to advancing the convergence of quantum computing, biomedical imaging, artificial intelligence, and intelligent healthcare technologies in shaping the future of Healthcare 5.0. The title 'QMI' reflects the seamless integration of mathematical foundations, biomedical imaging, quantum computing, and AI-driven innovations, fostering interdisciplinary collaboration among researchers, clinicians, engineers, and healthcare professionals. Designed as a dynamic blend of theory and practice, the workshop provides a platform to explore the transformative potential of quantum technologies and intelligent biomedical imaging in disease diagnosis, advanced medical devices, and precision healthcare. Participants will gain valuable insights into emerging technologies, contemporary research challenges, and future directions in intelligent healthcare. QMI-2026 aims to cultivate interdisciplinary research, strengthen academic-industry collaborations, and inspire innovative solutions that advance patient-centric healthcare through the integration of quantum mathematics and biomedical imaging.

TOPICS TO BE COVERED

- Mathematical Foundations of Biomedical Imaging
- Artificial Intelligence for Intelligent Healthcare
- Emerging Challenges in Biomedical Imaging
- Quantum Computing and Medical Diagnostics
- Medical Devices, Ethics and Healthcare Translation

Keynote Speakers



Dr. Deepak Joshi
*Associate Professor,
Centre for Biomedical
Engineering, IIT, Delhi*



**Dr. Jayakumar
Vaithiyashankar**
*Founder & CEO,
IBM Educator, Anuthantra
Private Limited, Bengaluru*



Dr. Karthik C
*Assistant Professor,
School of Interdisciplinary
Design & Innovation, IIITDM,
Kancheepuram, Tamil Nadu*



**Dr. Karthikeyan
Damodharan**
*Director,
Department of Vascular &
Interventional Radiology,
MIOT International, Chennai*



Dr. Manas Ranjan Prusty
*Associate Professor,
School of Computer Science & Engineering,
VIT Chennai*



Dr. Manish Sharma
*Chief Scientific Officer,
Imaging Endpoints,
Hyderabad*



Dr. Neha Dahiya
*Scientist D,
Division of Implementation Research,
Indian Council of Medical Research
(ICMR), New Delhi*



Dr. Nitika C. Panakkal
*Associate Professor,
Department of Medical
Imaging Technology, Manipal
Academy of Higher Education,
Karnataka*



Mr. Pon Maa Kishan A
*Founder & CEO of Sukish,
Technology Transfer Officer,
Department of Intellectual
Property Strategy,
VIT Chennai*



Dr. Priyanka Kokil
*Associate Professor,
Department of Electronics &
Communication Engineering,
IIITDM, Kancheepuram,
Tamil Nadu*



Prof. G Raghavan
*Professor and Director,
School of Quantum Technology,
DIAT, Pune*



Dr. Ramya Natarajan
*Oncopathologist & Head
Department of Histopathology &
Cytology, Neuberg Diagnostics
Private Limited, Chennai*



Mr. Sabarivel R
*Regulatory Affairs Associate,
Tamil Nadu*



Col. Sai Shankar P
*Founder,
QClairvoyance Quantum
Labs Pvt. Ltd., Hyderabad*



Dr. S Sountharajan
*Professor ,
Department of Computer Science
and Engineering,
Amrita School of Computing,
Amrita Vishwa Vidyapeetham,
Chennai Campus*



Dr. Tarun Kumar
*Project Engineer,
Quantum Technologies Lab,
Software Technology Division (STD),
Centre for Development of Advanced
Computing (C-DAC), Mohali, Punjab*



Dr. Taruna Madan Gupta
*Scientist G & Head,
Division of Development Research,
Indian Council of Medical Research
(ICMR), New Delhi*



Dr. Vikram Patil
*Professor & Vice Principal,
Department of Radio Diagnosis,
JSS Medical College,
Mysuru, Karnataka*

Committee Members

CHIEF PATRON

Dr. G. Viswanathan
Founder & Chancellor, VIT

PATRONS

Dr. Sankar Viswanathan
Vice President, VIT

Dr. Sekar Viswanathan
Vice President, VIT

Dr. G.V. Selvam
Vice President, VIT

Dr. V. S. Kanchana Bhaaskaran
Vice Chancellor, VIT

Dr. T. Thyagarajan
Pro-Vice Chancellor, VIT Chennai

Dr. P. K. Manoharan
Additional Registrar, VIT Chennai

CONVENOR

Dr. N. Ramesh Babu
Assistant Professor, VIT Chennai

CO-CONVENORS

Dr. Lakshmanan Shanmugam
Professor, VIT Chennai

Dr. N. Padmaja
Assistant Professor, VIT Chennai

Dr. R. Sriraman
Assistant Professor (Sr. Grade), VIT Chennai

ORGANIZING MEMBERS

Faculty Members
*Department of Mathematics - SAS,
VIT Chennai*

ADVISORY COMMITTEE

Dr. G. Vinitha
*Professor and Dean,
School of Advanced Sciences,
VIT Chennai*

Dr. A. Manivannan
*Associate Professor and Head
Department of Mathematics - SAS,
VIT Chennai*

SCIENTIFIC COMMITTEE

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Professor - HAG, VIT Chennai

Dr. Kalyani Desikan
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REGISTRATION

ELIGIBILITY CRITERIA

The workshop is open to UG/PG students, research scholars, faculties, clinicians and industry professionals interest in applied mathematics, biomedical imaging, healthcare AI, quantum computing and intelligent healthcare systems.

Event	Date	Category	Fees details
Opening Date for Registration	24/07/2026	UG/PG Students	Rs. 750
Last Date for Registration	05/10/2026	Research Scholar	Rs. 1000
		Faculty/Industrial Delegates	Rs. 1500



QMI CHALLENGES

INTERACTIVE ACTIVITIES & EXCITING REWARDS



QMI "WHO AM I?" CHALLENGE

☆☆☆

Recognize the
Minds Behind
Science



IMAGE DETECTIVE

☆☆☆

Make the
Connections



HUMAN vs AI CHALLENGE

☆☆☆

Can You
Outsmart AI?



QMI ETHICS COURTROOM

☆☆☆

The Ethics of
Intelligent
Healthcare



EXPECTATION WALL

☆☆☆

From
Expectations to
Action



DAILY QUIZ

To encourage active participation, a daily quiz will be conducted at the end of each day's sessions.



Participants' scores will be consolidated, and on the final day, the top three performers will be recognized with **prestigious awards!**



QMI Young Scholar Award
(UG/PG Students)



QMI Research Excellence Award
(Research Scholars)



QMI Distinguished Professional Award
(Faculty / Industry Professionals)



Seats are limited!

Register early to secure your spot!

ACCOMMODATION

Accommodation shall be provided only to the outstation participants on prior request within the campus at nominal charges.

REGISTER HERE



WEBSITE



HOW TO REACH

