



VIT
CHENNAI



Anusandhan
National
Research
Foundation

2nd National Workshop on
**“Quantum Mathematics and Biomedical
 Imaging for Intelligent Healthcare 5.0”**



QMI (QMI 2026)

PROGRAM SCHEDULE

Venue: AB3 – Room No. 001, VIT Chennai

Timing: 10:00 a.m. to 4:00 p.m.

Date: 12/10/2026 to 16/10/2026

Faculty Coordinators: Dr. N. Ramesh Babu, Dr. S. Lakshmanan
 Dr. N. Padmaja, Dr. R. Sriraman

INAUGURATION

Venue: V.O.C. Auditorium, VIT Chennai | Time: 9:00 a.m. to 10:00 a.m. (12/10/2026)

TIME	TRACK 1: Mathematical & Clinical Foundation of Biomedical Imaging	TRACK 2: AI in Healthcare Analytics	TRACK 3: Unsolved Problems in Biomedical Imaging	TRACK 4: QMI – Where Quantum May Matter?	TRACK 5: Translating Quantum Healthcare Research into Practice
	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
	(12/10/2026)	(13/10/2026)	(14/10/2026)	(15/10/2026)	(16/10/2026)
10:00 a.m. to 11:00 a.m.	SESSION 1	SESSION 5	SESSION 9	SESSION 13	SESSION 17
	Title: Mathematics at the Core of Biomedical Imaging	Title: ML Paradigms for Biomedical Applications	Title: Imaging and AI in Healthcare: Challenges and Clinical Validation	Title: Applications of Medical Imaging in Healthcare	Title: Translational AI and Industry– Academia Synergy for Healthcare 5.0
	Speaker: Dr. Manas Ranjan Prusty <i>Associate Professor</i> SCOPE, Vellore Institute of Technology, Chennai	Speaker: Dr. Deepak Joshi <i>Associate Professor</i> Centre for Biomedical Engineering, IIT Delhi	Speaker: Dr. Manish Sharma <i>Chief Scientific Officer</i> Imaging Endpoints, Hyderabad	Speaker: Dr. Nitika C. Panakkal <i>Associate Professor</i> Department of Medical Imaging Technology, Manipal Academy of Higher Education, Karnataka, India.	Speaker: Dr. Vikram Patil <i>Professor & Vice Principal</i> Department of Radio-Diagnosis (Radiology), JSS Medical College, Mysuru

TEA BREAK (11:00 am to 11:30 am)

11:30 a.m. to 12:30 p.m.	SESSION 2	SESSION 6	SESSION 10	SESSION 14	SESSION 18
	Title: Disease Diagnosis via Multi-modal Imaging	Title: Advances in Interventional Radiology: Clinical Applications, Image-Guided Therapies, and AI-Driven Decision Support	Title: AI in Medical Devices	Title: Application of Quantum Technologies	Title: Ethical Clearance and Human Compliance in Biomedical Imaging
	Speaker: Dr. Priyanka Kokil <i>Associate Professor</i> Department of Electronics and Communication Engineering, IIITDM, Kancheepuram	Speaker: Dr. Karthikeyan Damodharan <i>Director</i> Department of Vascular & Interventional Radiology, MIOT International, Chennai	Speaker: Dr. Karthik C <i>Assistant Professor</i> School of Interdisciplinary Design and Innovation, IIITDM, Kancheepuram	Speaker: Col. Sai Shankar <i>Founder and CEO</i> QClairvoyance Quantum Labs Pvt. Ltd. Hyderabad	Speaker: Mr. Sabarivel R <i>Regulatory Affairs Associate</i> RegTrac, Chennai
QUIZ CONTEST (12:30 p.m. to 1:00 p.m.)					
LUNCH BREAK (1:00 p.m. to 2:00 p.m.)					
2:00 p.m. to 3:00 p.m.	SESSION 3	SESSION 7	SESSION 11	SESSION 15	SESSION 19
	Title: Histopathological Image Analysis: From Tissue Morphology to Disease Diagnosis	Title: Hands-on Quantum Computing for Brain Tumor Analysis	Title: Classical to Quantum Era	Title: Quantum Machine Learning for Intelligent Healthcare 5.0	Title: Clinical Research Funding Opportunities for Non-Clinicians
	Speaker: Dr. Ramya Natarajan <i>Oncopathologist & Head</i> Department of Histopathology and Cytology, Neuberg Diagnostics Private Limited, Chennai	Speaker: Dr. Tarun Kumar <i>Project Engineer,</i> Quantum Technologies Lab, C-DAC, Mohali	Speaker: Dr. Jayakumar Vaithiyashankar <i>Founder & CEO,</i> Anuthantra Pvt. Ltd. Bengaluru	Speaker: Dr. S. Sountharajan <i>Professor</i> Department of Computer Science and Engineering, Amrita School of Computing, Amrita Vishwa Vidyapeetham, Chennai	Speaker: Dr. Taruna Madan <i>Scientist G, Head</i> Division of Development Research, ICMR.
TEA BREAK (3:00 p.m. to 3:30 p.m.)					

3:30 p.m. to 4:30 p.m.	SESSION 4	SESSION 8	SESSION 12	SESSION 16	VALEDICTORY FUNCTION  HIGH TEA 
	Discussion with Experts	Title: IPR, Patents and Technology Commercialization in Healthcare 5.0 Speaker: Mr. Pon Maa Kishan A <i>Founder & CEO</i> Sukish, Technology Transfer Officer Department of Intellectual Property Strategy, VIT Chennai	Title: The Future of Quantum Computing in Healthcare Speaker: Prof. G. Raghavan <i>Director</i> School of quantum Technology, DIAT, Pune	Title: ICMR Funding for Biomedical Imaging: Opportunities, Challenges, and Proposal Writing Speaker: Dr Neha Dahiya <i>Scientist D</i> Division of Implementation Research, Indian Council of Medical Research (ICMR), New Delhi, India.	

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Host: Department of Mathematics,
School of Advanced Sciences (SAS),
Vellore Institute of Technology (VIT), Chennai.

Co-Host: Foundation for QC Innovation (FQCI) &
National Quantum Mission (NQM),
DST-NQM Hub for Quantum Computing, IISc Bengaluru.