

Organizes



# **NATIONAL SCIENTISTS ROUND TABLE CONFERENCE (NSRTC 2025) FOR VIKSIT BHARAT 2047**

18<sup>th</sup>, 19<sup>th</sup> & 20<sup>th</sup> July 2025

Dr. Vishwanath Karad MIT World Peace University, Pune, Bharat



The second round table conference of the Scientists of Bharat on **SCIENCE and TECHNOLOGY** on  
**ADVANCED MATERIALS & PROCESSING, ARTIFICIAL INTELLIGENCE, DIGITAL TRANSFORMATIONS,  
HEALTH CARE, QUANTUM TECHNOLOGY, and SUSTAINABILITY**  
towards **VIKSIT BHARAT**

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**About MIT-WPU:** With a legacy of over 40 years in promoting academic excellence, Dr. Vishwanath Karad MIT World Peace University (MIT-WPU) is recognized as one of India's premier institutions for higher learning, boasting a global alumni network of more than 100,000. The university offers a diverse array of programs, including diploma, undergraduate, postgraduate, and Ph.D. degrees across fields such as engineering, sciences, liberal arts, fine arts, commerce, economics, management, and law, serving approximately 23,000 students annually by around 1000 faculty members. MIT-WPU features a robust research infrastructure with advanced preparation, testing, and application labs. The university emphasizes research in materials science, energy generation and storage, green technologies, pharmaceuticals, and various engineering disciplines (Civil, Computer, Electrical, Electronics, Materials, and Mechanical), along with Information Technology and Software Engineering. In addition to its academic departments, MIT-WPU hosts 23 Centers of Excellence (CoE) and an Incubation Center which encourages interdisciplinary research and startup initiatives. The university is also committed to integrating Artificial Intelligence and Machine Learning into conventional research domains through its state-of-the-art facilities. MIT-WPU aims for international recognition by focusing on high-impact publications, intellectual property rights, and collaborative projects. Students benefit from a holistic educational experience that combines academics with yoga, peace, meditation, sports, cultural clubs, and a variety of on-campus events throughout the year, all designed to enhance their foundational development.

In terms of rankings, MIT-WPU is positioned 31st in the Times B-School ranking for Top Private Universities, falls within the NIRF 51-100 band in the Innovation category (for 2023), ranks 72nd among Pharmacy Institutes (for 2024), and is 116th in Engineering Institutes nationwide, placing it among India's top 200 universities.

## About Conference:

The First National Scientists Round Table Conference (NSRTC 2024) took place on July 19-21, 2024, and received an overwhelming response, attracting 116 top scientists from across the country. The conference facilitated extensive discussions on current research topics and their potential future directions.

Now, the Second National Scientists Round Table Conference (NSRTC 2025) will be held on July 18-20, 2025, at Dr. Vishwanath Karad MIT World Peace University, Pune. The purpose of this conference is to bring together leading academic scientists, researchers, and scholars to exchange and share their experiences and research results across all aspects of Physical Sciences, Life Sciences, and Engineering & Technology. This forum aims to provide essential insights into the trajectory of future research, promoting holistic and synergistic development in the country.

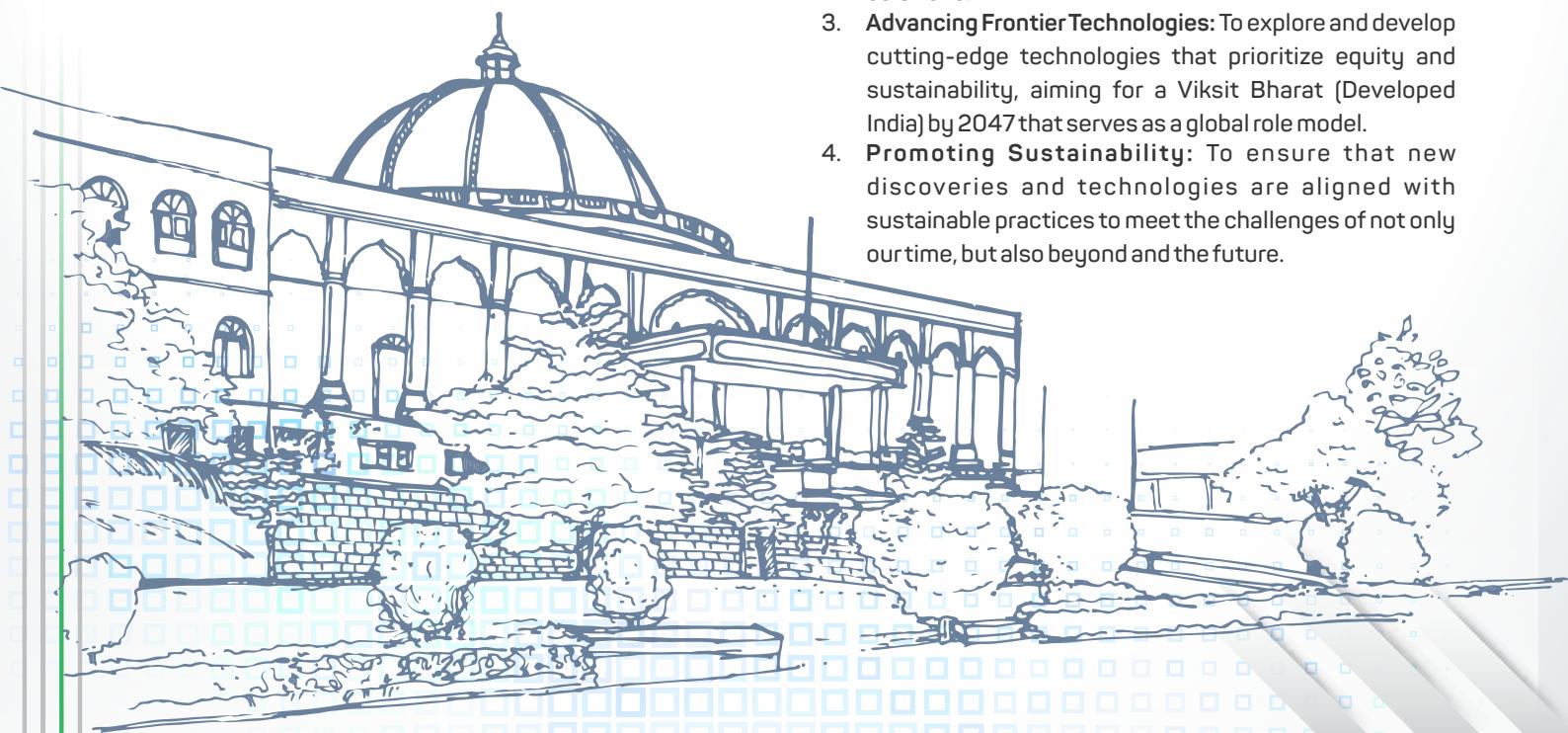
Renowned scientists such as Dr. R. A. Mashelkar, Dr. Vijay P. Bhatkar, Dr. Shekhar Mande, and Prof. Dr. G. D. Yadav, along with principal scientists and directors from national and regional laboratories, will participate in this pivotal round table conference.

## Scope and Objectives of NSRTC 2025:

The NSRTC 2025 aims to galvanize the scientific community by fostering innovative ideas and directions that inspire researchers and students to embrace Fundamental Research as the foundation of progress across all scientific disciplines. It seeks to facilitate interdisciplinary and international collaborations that can lead to groundbreaking discoveries and new developmental paradigms.

## Key Goals:

- Inspiring the Next Generation:** To encourage young scientists and researchers to engage deeply with fundamental research, recognizing its importance in advancing science and technology.
- Fostering Collaboration:** To create platforms for interdisciplinary and international dialogues, enabling diverse perspectives to co-create innovation and smart solutions.
- Advancing Frontier Technologies:** To explore and develop cutting-edge technologies that prioritize equity and sustainability, aiming for a Viksit Bharat (Developed India) by 2047 that serves as a global role model.
- Promoting Sustainability:** To ensure that new discoveries and technologies are aligned with sustainable practices to meet the challenges of not only our time, but also beyond and the future.



By bringing together distinguished scientists, the conference aspires to pave the way for rapid, impactful advancements in science and technology that benefit the society as a whole. NSRTC 2025 will have the following focused themes and top scientists will have discussions on these themes.

## The NSRTC 2025 is structured around the following five broad themes:

### 1. Artificial Intelligence

- Ethical AI Frameworks, Regulations, and Governance
- AI for Social Good and Sustainability
- AI for Affordable Healthcare and Agriculture
- AI for Materials (Energy, Semiconductors, Quantum, etc.) & Technology
- AI and related Future Jobs
- Generative AI and IPR Laws
- Life after DeepSeek

### 2. Advanced Materials and Processing

- Functional, Smart, and Intelligent Materials (incl. Polymers, Composites, and Alloys)
- Quantum Materials
- Biomaterials
- Opto-Photonic Materials
- Strategic Materials
- Semiconductor Materials
- Affordable Energy Materials
- Green Processing Technologies
- n-Dimensional Printing
- Materials Simulations

### 3. Digital Transformations

- Grid Technology
- Quantum Computing
- Blockchain Technology
- Remote Sensing Technology
- Cyber Security
- Digital Inclusion and ICT for Development
- Tactile Internet and Digital Twin
- Next Generation Mobility
- Automation in Farming
- Climate Solutions (Mitigation)

### 4. Health Care, Pharma, and Biotechnology

- Health Equity
- Diseases and Disorders
- Advanced Diagnostics
- Advanced Therapeutic Approaches (incl. Ayurveda or any Indian Knowledge Systems, Pharmaceuticals, Drug Delivery, Synthetic Biology, Regenerative Medicine, Tissue Engineering, Disease Management)
- High Technology led Affordable Health Care (Bioprinting, Wearable & Biomedical Devices, incl. automated dispensing)
- Bioinformatics (next-generation sequencing, etc.) and Drug Discoveries
- Digital Health (Telemedicine, Digital Therapeutics, etc.)

### 5. Premise of Nobel Prize Work

- Physics
- Chemistry
- Medicine
- Queen Elizabeth Prize for Engineering

## Conference Schedule

**18<sup>th</sup> July 2025, Friday**

02-04 PM IST	<b>Technical Session</b> <b>Premise of Noble Prize Work by Distinguished Scientists</b>
04-07 PM IST	<b>Inauguration Ceremony</b> <b>Chief Guests</b> <b>Shri. Ashwini Vaishnaw</b> Minister for Railways, Information & Broadcasting, and Electronics & IT, Govt of India <b>Shri. Jitendra Singh</b> , Minister of Science and Technology, Govt of India <b>Shri. Dharmendra Pradhan</b> , Minister of Higher Education, Govt of India <b>Dr. Raghunath A. Mashelkar</b> , Former Director General, CSIR, New Delhi <b>Dr. Vijay P. Bhatkar</b> , Founder Director, C-DAC <b>Prof. Dr. Abhay Karandikar</b> , Secretary, Department of Science and Technology <b>Dr. Nallathamby Kalaiselvi</b> , Director General, CSIR, New Delhi

**19<sup>th</sup> July 2025, Saturday**

10 AM-06 PM IST	<b>Technical Session</b> <b>Chief Guest</b> <b>Prof. Dr. Ajay Kumar Sood</b> , Principal Scientific Advisor, Govt of India <b>Guests of Honor</b> <b>Dr. Shivkumar Kalyanraman</b> , CEO, Anusandhan National Reserach Foundation, Govt of India <b>Prof. Dr. V. Ramgopal Rao</b> , Group Vice Chancellor, BITS Pilani
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**20<sup>th</sup> July 2025, Sunday**

10 AM-02 PM IST	<b>Technical Session</b>
04-06 PM IST	<b>Valedictory Ceremony</b> <b>Chief Guests</b> <b>Prof. Dr. Ganapati D. Yadav</b> , Former Vice-Chancellor, Institute of Chemical Technology, Mumbai <b>Dr. Shekhar Mande</b> , Former Director General, CSIR, New Delhi <b>Prof. Dr. Manish R. Joshi</b> , Secretary, University Grants Commission, New Delhi

## Distinguished Speakers



Padma Vibhushan  
**Dr. Raghunath A. Mashelkar**  
Former Director General  
CSIR, New Delhi



Padma Bhushan  
**Dr. Vijay P. Bhatkar**  
Founder Director  
CDAC



Padma Shri  
**Prof. Dr. Ganapati D. Yadav**  
Former Vice-Chancellor  
ICT Mumbai



**Prof. Dr. Shekhar Mande**  
Former DG, CSIR  
Bioinformatics Centre  
Savitribai Phule Pune University



**Dr. (Mrs.) N. Kalaiselvi**  
Director General, CSIR  
Secretary, DSIR



Padma Shri  
**Prof. Dr. Thalappil Pradeep**  
IIT Madras



Padma Shri  
**Dr. Ashok Joshi**  
Founder, Microlin Technologies  
Founder, Clean Joule  
USA



Padma Shri  
**Prof. Dr. Ashutosh Sharma**  
Former Secretary, DST  
IIT Kanpur



**Prof. Dr. M. S. Ramachandra Rao**  
IIT Madras



**Prof. Dr. V. Ramgopal Rao**  
Group VC, BITS Pilani



**Prof. Dr. Umesh V. Waghmare**  
JNCASR, Bengaluru



**Prof. Dr. P. S. Anil Kumar**  
IISc Bengaluru



**Prof. Dr. Satishchandra B. Ogale**  
TCG-CREST Kolkata



**Prof. Dr. Vijayamohanan K. Pillai**  
IISER Tirupati



**Prof. Dr. Ajit Kulkarni**  
IIT Bombay



**Prof. Dr. Samit K. Ray**  
IIT Kharagpur



Padma Shri  
**Prof. Dr. Bimal Roy**  
Former Director, ISI Kolkata



**Prof. Dr. S. B. Krupanidhi**  
IISc Bengaluru



**Prof. Dr. Satish Patil**  
IISc Bengaluru



**Prof. Dr. Ashok K. Ganguli**  
Director, IISER Berhampur



**Prof. Dr. Koustuv Dalal**  
Mid Sweden University  
Sweden



**Prof. Dr. Makarand Hastak**  
Purdue University, USA



**Prof. Dr. B.V.R. Chowdari**  
NTU, Singapore



**Prof. Dr. Shobha Shukla**  
IIT Bombay

## Distinguished Speakers



**Prof. Dr. Shailendra Varshney**  
IIT Kharagpur



**Prof. Dr. Shailendra Kumar Shukla**  
IIT BHU  
Varanasi



**Prof. Dr. Amitava Patra**  
Institute of Nano Science  
and Technology  
Mohali



**Prof. Dr. Bijoy K. Das**  
IIT Madras



**Dr. Kavita Joshi**  
NCL, Pune



**Prof. Dr. Deepak M. Ranade**  
Consultant Neurosurgeon  
Author, Speaking Tree  
Times of India



**Prof. Dr. Pritam Deb**  
Tezpur University



**Prof. Dr. Vivek Polshettiwar**  
TIFR, Mumbai



**Dr. Raksh Vir Jasra**  
Senior VP Reliance, Vadodara



**Prof. Dr. Jitendra Sangwai**  
IIT Madras



**Dr. Nagahanumaiah**  
Director, CMTI, Bengaluru



**Prof. Dr. Ambrish Singh**  
Nagaland University



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**The real problem is not whether machines think but whether men do.**

John McCarthy

**Carbon, the basis of all known life on earth, has surprised us once again.**

Andre Geim

**The absence of evidence is not the evidence of absence.**

Carl Sagan

## Conference Registration Details\*

Category (For participants outside of MIT-WPU)	Registration Fee
UG / PG Student	1,500 INR
PhD Scholar	2,500 INR
Faculty	5,000 INR
Industrial Representative	10,000 INR
Online Attendee (Indian)*	1,000 INR
Online Attendee (International)*^	25 USD

\*Registered Online Attendee will receive an e-certificate

^For registration of Online Attendee (International), contact Convener, NSRTC 2025

- Registered offline participant will receive a certificate

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