

## IMPORTANT DATES

Submission of Abstract	02 March, 2026
Acceptance of Abstract	09 March, 2026
Last Date of Registration	11 March, 2026
Convention	13-14 March, 2026
Experimental Workshops	14 March, 2026

## Workshops (Innovative Experimental Demonstrations)

- Prof. T.R. Ananthakrishna, Cochin
- Prof. Hemant Kumar, Himachal Pradesh
- Prof. Y.K. Vijay, Rajasthan
- Dr. Jaswinder Singh, Patiala
- Prof. M.S. Marwaha, Chandigarh
- Prof. Usha Singh, Madhya Pradesh
- Prof. O.S.K.S. Sastri, Himachal Pradesh

## Advisory Committee

- Prof. Karamjeet Singh (Vice Chancellor, GNDU, Amritsar)
- Prof. Jagdeep Singh (Vice Chancellor, Punjabi University, Patiala)
- Prof. Binod Kumar Kanaujia (Director, National Institute of Technology, Jalandhar)
- Prof. R.P. Tiwari (Vice Chancellor, Central University of Punjab, Bathinda)
- Dr. Susheel Mittal (Vice Chancellor, Punjab Technical University Kapurthala)
- Prof. S.K. Tripathi (Head, Dept. of Physics, Panjab University Chandigarh)
- Prof. Lokesh Kumar (Department of Physics, Panjab University, Chandigarh)
- Dr. Rajesh Kumar (Department of Physics, Panjab University, Chandigarh)
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- Dr. Bindia Arora (Department of Physics, GNDU, Amritsar)
- Dr. Neeraj Bansal (Department of Physics, GNDU, Amritsar)
- Dr. Sanjay Kumar Sharma (Secretary, IAPT)
- Dr. B. P. Tyagi (Chief Coordinator, Examination, IAPT)
- Dr. Major Singh (Ex-President, IAPT RC-02)
- Dr. Meenakshi Sayal (Vice President, IAPT-North)
- Dr. Jaswinder Kaur Sidhu (Vice President, IAPT RC-02)
- Dr. Sanjeev Kumar Chandel (GGDSD College, Chandigarh)
- Dr. Hardev Singh (Department of Physics, Kurukshetra University, Kurukshetra)
- Dr. Rajeev Kumar Sharma (Panjab Agriculture University, Ludhiana)
- Dr. Neetu Verma (EC Member, IAPT RC-02)
- Mr. Aashish Kapoor (Finance Secretary, IAPT RC-02)
- Dr. Mridula Gupta (Baring Union Christian College, Batala)
- Mrs. Poonam Sharma (GTB Khalsa College, Dasuya)
- Dr. Rajesh Kumar (Lovely Professional University)
- Dr. Manoj Kumar (SD College, Barnala)
- Dr. K. S. Mann (DAV College, Bathinda)
- Mr. Pankaj Gupta (RR Bawa DAV College, Batala)

## Steering Committee

Convenor : Dr. Sushil Kumar (9464234218)  
 Co-Convenor : Dr. Saloni Sharma (9815827474)  
 Organizing Secretary : Dr. Simmi Garg (9915257161)

## Local Organizing Committee

- Mrs. Deepshikha (Head, PG Dept. of Chemistry)
- Dr. Seema Marwaha (Head, PG Dept. of Zoology)
- Dr. Sangeeta Arora (Head, PG Dept. of Computer Sci & IT)
- Dr. Anjana Bhatia (Head, PG Dept. of Botany)
- Dr. Gagandeep (Head, PG Dept. of Mathematics)
- Dr. Harpreet Singh (Head, PG Dept. of Bioinformatics)
- Dr. Jatinder (Head, Dept. of Biotechnology)

## REGISTRATION

QR Code  
for Registration



Registration Link :

<https://forms.gle/kwqJSCyPd8sV2Q8U9>

QR Code  
for Payment



## Registration Fees

Registration Type	Registration Fees
Industry Professionals	₹ 5000/-
Faculty Members	₹ 1500/-
IAPT Members	₹ 1000/-
Research Scholars	₹ 800/-
PG Students	₹ 700/-
UG Students	₹ 600/-
Delegates	₹ 500/-

**BANK NAME : PUNJAB NATIONAL BANK**  
**A/C NAME : Principal Hans Raj Mahila Maha Vidyalaya**  
**A/C NO. : 0720022100071200**  
**IFSC : PUNB0471000**

- All participants are required to complete their registration individually.
  - Registration fee is non-refundable & inclusive of taxes.
  - Registration fee includes: participation in all scientific sessions, conference material and local hospitality.
- NOTE:** Additional charges may be applicable for publishing full length articles (subject to terms and conditions). Limited Accommodation will be available on or off campus on payment basis.  
**Convention Email: physicsconference@hmv.ac.in**

## HANS RAJ MAHILA MAHA VIDYALAYA, JALANDHAR

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NAAC A++

**Hans Raj Mahila Maha Vidyalaya**  
 Mahatama Hans Raj Marg, Jalandhar



Under the aegis of

**Indian Association of Physics Teachers**  
 (IAPT RC-02)

Organises Two Days

## ANNUAL CONVENTION-cum-WORKSHOP

on

**Quantum to AI:  
 Scientific Roadmap to  
 Viksit Bharat @2047**

on

**March 13-14, 2026**

### Chief Patron

**Dr. Punam Suri**  
 (President DAVCMC)

**Dr. P. K Ahluwalia**  
 (President IAPT)

### Patron

**Justice N. K. Sud**  
 (Chairman LAC HMV)

**Dr. Jaswinder Singh**  
 (President IAPT RC-02)

### Convention Director

**Dr. Ekta Khosla**  
 (Principal HMV)

### Convention Convenor

**Dr. Sushil Kumar**  
 (Associate Prof. in Physics, HMV)



## About the Institution

Situated in the sylvan surrounding of a lush green ecofriendly campus, this ninety nine year old institution stands tall on the firm foundation of the highly ethical, virtuous and righteous values established by the great seers and visionaries of the DAV movement. Named after its founder, a great pioneer of DAV movement, Mahatma Hans Raj, the college has developed from a small building in Lahore to a sprawling campus; from a humble facility to state-of-art world class infrastructure; from a few disciplines to extensive educational avenues that include a large number of courses, internships, industrial hands on trainings and placement assistance. Innovation is at the core of its pedagogy. The college has proudly attained the highest grades with the highest score in NAAC Accreditation and Re-Accreditation.

Hans Raj Mahila Maha Vidyalaya offers a vibrant spectrum of postgraduate science departments, including Physics, Chemistry, Mathematics, Botany, Zoology, Biotechnology, Computer Science & IT and Bioinformatics fostering academic excellence, innovative research, and holistic scientific development. These departments are equipped with well established laboratories and research facilities that promote experimental learning and innovation. With a focus on academic excellence and skill development, they nurture scientific temper and research aptitude among students.

## About IAPT

The Indian Association of Physics Teachers (IAPT) was established in the year 1984 by the great visionary, (Late) Dr. D. P. Khandelwal, with active support from some Physics teachers, with the aim of upgrading the quality of Physics teaching and Physics teachers at all levels. It has now grown into a major organisation with about 10000 life members spread all over about 2000 organisations throughout the country including about 1000 members from abroad. The members include school, college, university teachers, research workers, science administrators and science savvy enthusiasts. For its grass root working, the country is divided into 24 regions, each with a regional council. The apex executive council, co-ordinates and directs the effort at the national level.

Besides, it conducts National Standard Examinations in Physics, Chemistry, and Biology (NSEP, NSEC, and NSEB) for up to 10+2 level students. The organization also conducts the National Graduate Physics Examination (NGPE). The main objectives of these examinations are to enable the student to judge himself/herself against a national standard and to present the correct perspective of Physics in particular and other Sciences in general. The main emphasis is to promote Physics and Science education and science culture in the country by making student teacher interaction livelier and encouraging practical skills through many activities

## Convention Theme

Scientific Roadmap to Viksit Bharat @ 2047 envisions a transformative journey that bridges foundational science with frontier technologies to shape a self-reliant, innovation-driven, and globally empowered India. As the nation marches toward the centenary of its independence in 2047, the vision of Viksit Bharat calls for a robust scientific ecosystem rooted in research excellence, technological advancement, and inclusive development. From the revolutionary possibilities of quantum computing, quantum communication, and advanced materials to the disruptive impact of Artificial Intelligence across healthcare, agriculture, education, governance, and industry, science stands as the cornerstone of national progress. This convention seeks to explore how emerging technologies can synergize with policy, entrepreneurship, academia, and industry to accelerate India's growth trajectory.

The Annual Convention-cum-Workshop is envisioned as a dynamic platform bringing together faculty members, researchers, scholars, and students to deliberate upon contemporary scientific developments, innovative pedagogical approaches, and research advancements in Physics that directly contribute to nation-building. Special emphasis will be placed on outcome based education, skill enhancement, interdisciplinary research, research-oriented learning, and the meaningful integration of emerging technologies, particularly AI and quantum tools into Physics teaching and experimentation.

The convention seeks to align academic practices with the broader vision of the Viksit Bharat Abhiyan. As we navigate from quantum frontiers to AI-driven futures, this annual convention reaffirms our collective commitment to building a resilient, technologically advanced, and globally competitive India, a truly Viksit Bharat by 2047.

## Major Themes

### 1. Quantum Technologies for National Advancement

- Quantum Computing and Simulation
- Digital India to Quantum India Transition
- National Quantum Mission Initiatives
- Indigenous Quantum Hardware Development

### 2. Artificial Intelligence for Scientific and Societal Transformation

- AI in Scientific Research
- AI for Healthcare, Agriculture & Climate
- Machine Learning in Materials Science
- Ethical and Responsible AI

### 3. AI and Quantum Convergence

- Quantum Machine Learning
- AI-Optimized Quantum Algorithms
- Future Computational Paradigms

### 4. Semiconductor & Advanced Materials Ecosystem

- Indigenous Semiconductor Fabrication
- Nanomaterials for Energy and Environment
- Quantum Materials and Spintronics
- Photocatalytic and Optoelectronic Materials
- Make-in-India Technology Ecosystems

### 5. Education & Skill Development for Viksit Bharat

- Curriculum Reforms Integrating AI & Quantum Physics
- Industry–Academia Collaboration
- Research Incubation Hubs in Regional Institutions
- Upskilling Faculty and Students
- Innovation-driven Pedagogy

### 6. Astronomy in Ancient Indian Knowledge Systems

- Astronomical Timekeeping Methods
- Observational Astronomy & Indigenous Instrumentation
- From Vedic Skies to Modern Space Science
- Astronomical Architecture and Observatories

## Call for Abstracts

Participants are cordially invited to submit their abstracts for presentation at the convention. All abstracts must be submitted through the official registration link. Participants are also required to upload a screenshot of the payment confirmation as proof of registration through the same link. All submitted abstracts will undergo a review process. All accepted abstracts will be published in the conference proceedings with an ISBN.

## Guidelines For Abstract (s) Submission

- \* The abstract should not exceed 300 words.
- \* The abstract should cover the Title of paper; Full name of the author in Capital letters; Affiliation; E-mail of corresponding Author and Contact Number
- \* Font - Times New Roman, Font size-12, Single line spacing, Page layout-A4 in MS Word.
- \* Send your Abstract at:

**Registration Link :** <https://forms.gle/kwqJSCyPd8sV2Q8U9>

## Presentation (Oral/Poster)

There will be parallel technical sessions for oral and poster presentations. Ten minutes shall be given for Oral presentation (seven minutes for presentation and three minutes for discussion). For Poster presentation, each participant will be provided with a space of 30" × 36" inch for displaying the written material, diagrams, photographs etc.

## Awards

The Young Scientist Award will be conferred on researchers below 40 years of age for outstanding academic and research contributions. Best Poster Awards will be given in the UG, PG, Research Scholar, and Faculty categories to recognize excellence in research and presentation.