



**MARUDHAR KESARI JAIN**  
**COLLEGE FOR WOMEN**  
(AUTONOMOUS)

Vaniyambadi, Tirupattur DT - 653 751

Recognized by the Government of Tamil Nadu  
with "A+" Grade by NAAC (4th Cycle) | Permanently  
Affiliated to Thiruvalluvar University | Supported by

DST - FIST



INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of HRD Initiative)  
4 STAR Rating



## ABOUT SCHOOL OF PHYSICAL SCIENCES

The School of Physical Sciences is a vibrant academic and research center committed to excellence in teaching, learning, and innovation in the core areas of Physics, Chemistry, and Mathematics. The School aims to nurture scientific temper, critical thinking, and problem-solving skills among students through a strong foundation in theoretical concepts complemented by experimental and computational approaches, with well-equipped laboratories, experienced faculty members, and a learner-centric academic environment, the School actively promotes Research in emerging areas such as nanoscience, materials science, green chemistry, nuclear and condensed matter physics, applied interdisciplinary technologies, and mathematical sciences including applied mathematics, mathematical modeling, numerical methods, and computational techniques. Faculty members are actively involved in funded research projects, publications in reputed journals, and collaborations with research institutions and industries.

The School of Physical Sciences also emphasizes experiential learning, innovation, and professional development through workshops, conferences, industrial visits, seminars, and outreach activities. By integrating academic rigor with research and societal relevance, the School strives to contribute meaningfully to scientific advancement and sustainable development.

## ABOUT CONFERENCE

The conference on "Emerging Trends in Future Technology for Shaping Physical Sciences" aims to provide a dynamic platform for academicians, researchers, scientists, and industry professionals to exchange knowledge, share recent research outcomes, and discuss innovative technological advancements that are transforming the landscape of physical sciences.

# School of Physical Sciences

Organizes

## " International Conference "

> **Emerging Trends in Future Technology for Shaping Physical Sciences (ETFTPS-2026)**

**Date : 20.02.2026 | Time : 10.30 am**

**Venue : Sri Roop Rajat Seminar Hall**

### RESOURCE PERSONS



**Dr. V. Harikrishna**

Postdoctoral Researcher IMDEA  
Nanociencia Madrid,  
Spain.



**Dr. I.V. Asharani**

Professor  
Department of Chemistry  
School of Advanced Sciences  
VIT, Vellore



**Dr. M. Priyadarshini**

Assistant Professor,  
Department of Mathematics,  
SRM Institute of Science and  
Technology, Chennai

### PRINCIPAL

Marudhar Kesari Jain College

for Women (Autonomous)

Anand Singhu  
Vaniyambadi - 655 751.  
Tirupattur District

Dr. M. Lavavalli

Principal

V. Dilip Kumar Jain

President

Ms. C.B. Sumathi

Dean

The conference focuses on interdisciplinary approaches and Cutting-edge research areas including Advanced Materials, Nanotechnology, Renewable and Sustainable Energy Systems, Computational Modeling, Artificial Intelligence Applications in Physical Sciences, Optics and Photonics, Nuclear Physics, Condensed Matter Physics, Applied Mathematics, Mathematical Modeling, Numerical Methods, Computational Mathematics, Statistical Analysis, and Data Science. It seeks to bridge the gap between fundamental research and real-world applications, encouraging collaborative research and innovative solutions to global scientific challenges.

By bringing together experts from diverse domains, the conference aspires to inspire young researchers and students, promote high-quality research, and contribute to the advancement of future technologies that shape the evolution of physical sciences and support sustainable development.

## IMPORTANT DATES

- Abstract Submission: 16.02.2026
- Intimation of acceptance: 17.02.2026
- Last date for registration: 18.02.2026

## ORGANIZING COMMITTEE

### Chief Patron

Sri. M. Vimmal Chand Jain, Chairman  
Sri. C. Lickmi Chand Jain, Co-Chairman  
Sri. Anand Singhvi, Secretary

### Coordinators

Ms. S. Semmalar, Head, Department of Mathematics & Statistics  
Dr. M. Charumathy, Head, Department of Chemistry  
Dr. C. Pavithra, Head, Department of Physics

### Patron

**PRINCIPAL**  
Marudhar Kesari Jain College  
for Women (Autonomous)  
Vaniyambadi - 635 751.  
Tirupattur District

### Conveners

Dr. D. Vetrivelan, Vice Principal  
Ms. C. B. Sumathi, Dean, SOPS

## SCAN TO REGISTER



## REGISTRATION FEE

- For Academic (Research Scholars & Faculty) and Industrialist Presentation – 500/-
- Online Presentation & Students presentation: 300/-
- Participation only – 200/-

## Fee Payment

Name: Ms. S. Jeevitha

Bank Name: ICICI Bank

Account Number: 619101502917

IFSC Code: ICIC0006191

Mobile Number: 8870900142

## Call For Abstracts

Abstracts are invited for oral presentations. The title of the paper should be in Times New Roman with the font size of 14 and the rest of the text in font size of 12 with 1.5 line spacing. The authors are requested to upload the abstracts in following Mail id: chemistryprogram20@gmail.com  
Best oral presentations will be awarded.

## CONFERENCE TOPICS

- Single Crystalline Materials
- Piezoelectric and Ferroelectric Materials
- Nanotechnology and Sensors
- Energy Storage Devices
- Polymer Nanocomposites
- Semiconducting Materials
- Materials for Biological Applications and Drug Delivery
- Environmental Radioactivity and Modelling
- Marine Radioactivity
- Advanced Functional Materials and Nanochemistry
- Green and Sustainable Chemical Technologies
- Chemical Innovations for Energy Conversion and Storage
- Computational and Physical Chemistry for Advanced Materials
- Pure and Applied Mathematics in Mathematical Modelling
- Numerical Analysis and Scientific Computing
- Applied Mathematics in Interdisciplinary field
- Mathematical Principles in Artificial Intelligence
- Applied Probability and Statistics in Future Technology Development
- New Technology and Innovations

For More Information

9962040288, 7010535931

chemistryprogram20@gmail.com

# MARUDHAR KESARI JAIN COLLEGE FOR WOMEN

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Recognized u/s 2(f) & 12(B) of UGC Act 1956 - Permanently Affiliated to Thiruvalluvar University  
Accredited with "A+" Grade by NAAC (4<sup>th</sup> Cycle) - Supported by DST-FIST - IIC 4 Star Rated

Marudhar Nagar, Chinnakallupalli, Vaniyambadi

## School of Physical Sciences

*Organizes*

## International Conference

TRENDS IN FUTURE TECHNOLOGY FOR SHAPING PHYSICAL SCIENCES (ETF)

on 20.02.2026 @ 10.30 a.m.

### Resource Persons

#### Dr. V. Harikrishna

Postdoctoral Researcher IMDEA  
Nanociencia Madrid, Spain.



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for Women (Autonomous)  
Vaniyambadi - 635 751.  
Vaniyambadi

#### Dr. I.V. Asharani

Professor  
Department of Chemistry  
School of Advanced Sciences



#### Dr. M. Priyadharini

Assistant Professor,  
Department of Mathematics  
SRM Institute of Science and  
Technology, Chennai

M. Vimmal Chand Jain  
Chairman

C. Lickimichand Jain  
Co-Chairman

V. Dilip Kumar Jain  
President

Anand Singhvi  
Secretary

Dr. M. Inbavalli  
Principal



**MARUDHAR KESARI JAIN COLLEGE FOR WOMEN (AUTONOMOUS), VANIYAMBADI**  
(A Project of Sri Marudhar Kesari Jain Trust)

## **SCHOOL OF PHYSICAL SCIENCES**

**ORGANIZES**  
**INTERNATIONAL CONFERENCE**

**ON**

**“Emerging Trends in Future Technology for Shaping Physical Sciences”**

(ETFTPS – 2026)

**DATE: 20/02/2026, Friday**

**VENUE: Sri Roop Rajat Seminar Hall**

**TIME: 10:30 am**

### **AGENDA**

**Prayer and Tamil Thai Vazthu**

**Welcome Address**

**Ms. S. Dharshini** II B. Sc Chemistry, Secretary  
School of Physical Science, MKJC (A)

**Felicitation**

**Dr. M. Inbavalli,**  
Principal, Marudhar Kesari Jain College for Women  
(Autonomous), Vaniyambadi.

**Resource Person Introduction**

**M. Haripriya,** III B. Sc Chemistry

**Honoring**

**Session I:**

**Dr. I. V. Asharani**  
Professor,  
Department of Chemistry,  
School of Advanced Sciences, VIT Vellore.

**Topic:** Synthesis and Characterization of Metal/  
Metal Oxide Nanoparticles and their Catalytic  
Activity for the Environmental Remediation.

**Tea Break**

**Resource Person Introduction**

**Ms. H. Kanniga,** III B. Sc Physics  
Department Secretary, MKJC (A)

**Session II:**

**Dr. V. Harikrishna,**  
Postdoctoral Researcher IMDEA  
Nanociencia Madrid, Spain.

**Topic:** Synthesis of Nano catalysts and their  
Environmental Applications.

**Lunch Break**

**Resource Person Introduction:** **PRINCIPAL** Ms Priyadharshini, II M.Sc. Mathematics  
**Marudhar Kesari Jain College**  
**for Women (Autonomous)**  
**Vaniyambadi - 635 751.**  
**Tirupattur District**

**Session III:**

**Dr. M. Priyadharshini**

Assistant Professor,  
Department of Mathematics,  
SRM Institute of Science and Technology, Chennai.

**Topic:** Introduction to Mathematical Sciences and its  
Application to Chemical Graph Theory.

**Valediction**

**Prize and Certificate Distribution**

**Vote of Thanks**

**Ms C. Haneeya Sharqeen, II M.Sc. Mathematics**

**National Anthem**

**\*\*\* ALL ARE CORDIALLY INVITED \*\*\***

PRINCIPAL,  
Marudhar Kesan Jain College  
for Women (Autonomous)  
Vairiyampudi - 635 751,  
Tirupattur District



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**Activity Report**

Name of the Department / Club / Association / Cell	School of Physical Sciences		
Title of the Programme / Event	"Emerging Trends in Future Technology for Shaping Physical Sciences"		
Association with			
Alignment of this Programme with	SDGs <input checked="" type="checkbox"/> Viksit Bharat 2047 <input type="checkbox"/> State / National Schemes <input type="checkbox"/> NEP 2020 <input type="checkbox"/> MOU activity <input type="checkbox"/> Others <input type="checkbox"/> [4, 17]		
Mode	Offline and Online		
Type of Activity	International Conference		
Level	International		
Date	20.02.2026	From	To
Venue	Sri Roop Rajat Seminar Hall		
Resource Person Details	<p><b>Dr. I. V. Asharani</b> Professor, Department of Chemistry, School of Advanced Sciences, VIT Vellore.</p> <p><b>Dr. V. Harikrishna,</b> Postdoctoral Researcher IMDEA Nanociencia Madrid, Spain.</p> <p><b>Dr. M. Priyadharshini</b> Assistant Professor, Department of Mathematics, SRM Institute of Science and Technology, Chennai.</p>		

**Objectives**

- Explore emerging technologies influencing Physical Sciences.
- Provide insights into advanced research areas such as nanotechnology, renewable energy materials, smart materials, quantum technologies, and quantum mathematics, along with their underlying mathematical foundations and analytical techniques.

- Bridge the gap between theoretical concepts of analytical and statistical tools with real-time technological applications.
- Encourage interdisciplinary research among Physics, Chemistry, and Mathematics.
- Motivate students and research scholars towards innovation and sustainable development.

## **Summary Report**

### **Description:**

#### **The conference featured eminent speakers from reputed institutions:**

##### **Dr. I. V. Asharani, Professor, VIT Vellore**

Topic: Synthesis and Characterization of Metal/Metal Oxide Nanoparticles and their Catalytic Activity for Environmental Remediation.

##### **Dr. V. Harikrishna, Postdoctoral Researcher, IMDEA Nanociencia**

Topic: Rethinking Magnets for Sustainable Future.

##### **Dr. M. Priyadarshini, Assistant Professor, SRM Institute of Science and Technology**

**Topic:** Introduction to Mathematical Sciences and its Application to Chemical Graph Theory.

Dr. I. V. Asharani expertise in nanomaterials and environmental remediation provided valuable insights into advanced materials research and sustainable technologies. Specialization in nanotechnology, metal/metal oxide nanoparticles, and environmental remediation reflects her active engagement in sustainable and application-oriented research. As a Professor from a premier institution, her presence added significant academic credibility and research depth to the conference. Her session provided participants with comprehensive insights into synthesis techniques, material characterization, and catalytic applications, bridging theoretical concepts with real-world environmental challenges.

Dr. V. Harikrishna denotes advanced research specialization in contributing significantly to cutting-edge developments in nanoscience and sustainable magnetic materials. His talk reflects strong international exposure and contribution to frontier research in nanoscience and magnetic materials. His expertise in sustainable magnetic technologies and next-generation materials provided a global perspective to the participants.

Dr. M. Priyadarshini expertise in Mathematical Sciences and Chemical Graph Theory highlighted the interdisciplinary connection between Mathematics and Physical Sciences. Mathematical Sciences and Chemical Graph Theory demonstrated the interdisciplinary integration between Mathematics and Physical Sciences. Through her session, she highlighted the application of mathematical modeling and graph theory concepts in solving complex chemical and scientific problems. Her contribution emphasized the importance of analytical thinking and computational approaches in shaping future scientific research.

## Outcome of the Program

Student will able to,

- Enhanced awareness about interdisciplinary research opportunities.
- Improved understanding of sustainable and innovative technological applications.
- Encouraged students to pursue higher studies and research in emerging areas.
- Strengthened academic-industry linkage perspectives.

## Participants Count:

Internal Participants : Faculty 30 ; Students 295

External Participants : Faculty 04 ; Students 174

  
26/12/2024  
HOD

  
19/13/26  
Dean

  
17/12/26  
IQAC Director

  
Principal  
**PRINCIPAL**  
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**MARUDHAR KESARI JAIN COLLEGE FOR WOMEN  
(AUTONOMOUS) VANIYAMBADI  
SCHOOL OF PHYSICAL SCIENCE  
DEPARTMENT OF MATHEMATICS, PHYSICS AND  
CHEMISTRY**



**Programme Name:** International Conference on Emerging Trends in Future Technology for Shaping Physical Sciences (ETFTPS-2026)

**Date:** 20.02.2026



*M. [Signature]*  
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