

International Conference on

# Transforming Higher Education for the Future: *Education 4.0*

September 26-27, 2025

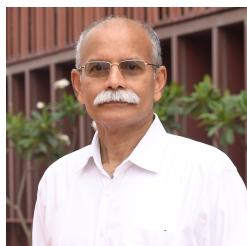


## About

# TRANSFORMING HIGHER EDUCATION FOR THE FUTURE: *Education 4.0*

This conference being organized by Thapar Learn – Centre for Teaching and Learning, in collaboration with the National Institute of Technical Teachers Training and Research (NITT TR), Chandigarh, focuses on the evolving landscape of higher education in the era of digitization and Education 4.0. It explores the integration of emerging technologies such as Artificial Intelligence, automation, and advanced engineering to transform the learning environment, curricula, and pedagogy. Bringing together educators, policymakers, researchers, and innovators, the conference aims to inspire strategic approaches for embedding technology into academia and industry. The goals are to enhance the quality of education and address the dynamic needs of a globalized world. With a strong emphasis on implementing Education 4.0 standards and the Outcome-Based Education (OBE) framework—now a cornerstone for higher education institutions- this conference invites original research papers on diverse topics as mentioned in the Conference Tracks.

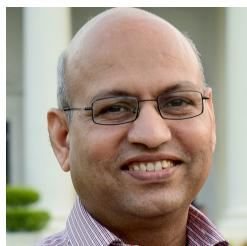
## Keynote Speakers



**Prof. Padmakumar Nair**

Director (Vice Chancellor)

*Thapar Institute of Engineering  
and Technology, Patiala*



**Prof. Bhola Ram Gurjar**

Director

*NITTTR Chandigarh*



**Prof. Ajay Batish**

Deputy Director & Chief  
Academic Officer

*Thapar Institute of Engineering  
and Technology, Patiala*



**Prof. Navneet Chopra**

Department of Philosophy

*Delhi University*



**Prof. Rajesh Kumar Dixit**

Prof

*NITTTR Bhopal*

# Conference Tracks

## 01 EXPERIENTIAL LEARNING

- Impact of Experiential Learning on Students
- Implementing Experiential Learning Best Practices
- Successful Experiential Learning Case Studies
- Creating Experiential Learning Opportunities
- Evaluating Experiential Learning Effectiveness
- Innovations in Education Enhancing Scientific Literacy

## 02 ACTIVE LEARNING

- Team Work / Group Work
- Peer to Peer Learning
- Student Engagement in Large Classrooms
- Outcome-Based Education
- Design a thinking-based approach in Teaching and Learning
- Tutoring and Mentoring
- Holistic Student Development

## 03 PROJECT-BASED LEARNING

- Real-World Project Experiences
- Industry-Academia Collaboration for PBL
- Integrating Projects into the Curriculum
- Evaluation Rubrics for PBL
- PBL Conversions Towards RIT (Research Integrated Teaching)

## 04 FACULTY DEVELOPMENT AND SUPPORT

- Real-World Project Experiences
- Industry-Academia Collaboration for PBL
- Integrating Projects into the Curriculum
- Evaluation Rubrics for PBL
- PBL Conversions Towards RIT (Research Integrated Teaching)

## 05 ADVANCES IN EDUCATIONAL TECHNOLOGY

- E-Learning Initiatives
- Adaptation to New Technologies
- Social & Digital Media
- E- Management and Online Classroom
- Simulation & Animation, Educational Multimedia
- Interactive Whiteboard and Assistive Technologies
- Blended Learning with Advanced Classroom Technologies
- Virtual Learning for Online/Virtual Laboratories
- Online Assessment
- Plagiarism Technologies
- Managed Learning Environments (MLEs)
- Learning Management Systems (LMS)

## 06 STUDENT ENGAGEMENT, EMPLOYABILITY AND CAREER READINESS

- Student Motivation and Engagement
- Mentoring and Counselling

- Career Readiness and Employability Skills
- Employability, Placement and Internship Support
- Student Involvement in Research Projects and Start up Initiatives
- Reflection for Personal and Professional Growth
- Life Long Learning
- Role of Extracurricular Activities

## 07 ARTIFICIAL INTELLIGENCE (AI) IN EDUCATION

- Role of Artificial Intelligence in Shaping Cognitive Skill Learning
- Curriculum Planning for Future
- Transformative Effect of AI in Education
- Benefits and Challenges related to AI in Education
- Blockchain to Secure Credentials
- Cognitive Skills and Learning
- Quality Standards

## 08 ACADEMIA- INDUSTRY CONNECT

- Internship Programmes
- University Start-Ups
- Workplace Learning
- Employability
- Entrepreneurship Education
- University-Industry-Government Partnership
- Patents & Technology Transfer

## 09 GLOBAL IMPLICATIONS OF EDUCATION

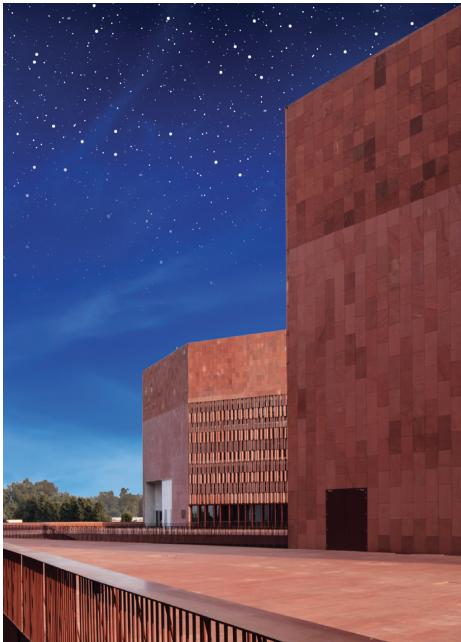
- Globalization of Education
- Global Challenges of Education
- International Accreditations
- Government Policy Issues
- Ethical Issues in Education
- Education for Sustainability
- Leadership & Educational Management
- Cross-Border Education & Exchange Programs

## 10 CHANGING PARADIGM IN HIGHER EDUCATION SCENARIO

- Traditional Education System
- Indian Knowledge System
- Evolution of Education Policy in India
- National Education Policy 2020
- Global Trends in Education System: Success and Failure Stories of Different Nations
- Biometric Analysis

### PANEL DISCUSSION OF TOP EDUCATIONISTS

- Future ready faculty , adapting to changes in higher education.
- Key parameters of faculty hiring



## About TIET

Thapar Institute of Engineering and Technology (TIET), established in 1956, is one of India's leading institutions. Over the past seven decades, it has grown significantly, aligning with global education standards and technological advancements. TIET is consistently ranked among the top 30 engineering institutes in NIRF and holds an A++ NAAC accreditation. Several programs at TIET are NBA and ABET-accredited. It is also featured in the top 500 globally by Times Higher Education and QS subject rankings. TIET emphasizes student-centered, project-based learning to foster excellence. Situated on a sprawling 250-acre campus in the historic city of Patiala, the institute is renowned for nurturing a vibrant community of visionary minds and problem solvers. These ingenious individuals are driven by a passion to create groundbreaking solutions and transformative discoveries that contribute to a better and more sustainable world, both within the nation and on the global stage.

## About NITTTR Chandigarh

NITTTR Chandigarh, was established in 1967 by the Ministry of Human Resource Development, Government of India, with support from the Royal Netherlands Government. As one of the four such regional institutes, it has played a key role in advancing technical education in India. NITTTR Chandigarh offers specialized training programs for faculty in engineering and technical institutions, and is known for its leadership in curriculum development, instructional material design, educational research, extension services, and consultancy in educational technology. It also conducts AICTE-sponsored Induction Training Programmes to strengthen the quality of higher education nationwide.



## Fee Structure

PARTICIPANTS	FEES
Faculty Delegate	Rs 6000 + GST
TIET Research Scholar	Rs 1000 + GST
Other Research Scholars	Rs 1500 + GST
Industry	Rs 8000 + GST
Listeners	Rs 1000 + GST
Foreign Delegates	300 USD

- Early Bird Registration Indian Author (5000/- + GST)  
15 July 2025
- Early Bird Registration Foreign Author (250 USD)  
15 July 2025

## Best Paper Award

- Best paper awards will be given in each track.
- Selected papers will be submitted for inclusion in Scopus-indexed journals, subject to scope and quality review.
- Other accepted papers will be published in the conference proceedings.
- All submissions must have a plagiarism similarity index below 15%.

## Organizing Committee

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Dr. Manmohan Chhibber	Dr. S.C. Bose
Dr. Anoop Verma	Dr. Lovleen Brar
Dr. Meenakshi Rana	Dr. Amanpreet Kaur (UQ Fellow)
Dr. Karminder Ghuman	Dr. Gagandeep Kaur (UQ Fellow)

NITTTR	
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Prof. Rupinder Singh	Prof. Maitreyee Dutta
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Dr. Ashish Singla
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Dr. Simran Setia
Dr. Dhamodharan K

## Advisory Committee

### Prof. Bhola Ram Gurjar

Director, National Institute of Technical Teachers Training and Research, Chandigarh, India

### Prof. C. Rama Krishna ,

Dean (Administration & Finance), National Institute of Technical Teachers Training and Research, Chandigarh, India

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Tel Aviv University, Chair professor, Israel.

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University of Queensland, Chair professor, Australia.

### Prof. Noam Eliaz,

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Virginia Tech, Chair professor, Virginia, USA.

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University of Waterloo, Chair Professor, Canada.

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University of Groningen, Chair Professor, Netherlands.

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Emeritus Prof. Civil Engineering, TIET, India.

### Prof. Mike Wride,

Associate Professor, University of Limerick , Ireland

### Prof. Ram Fishman ,

Professor Tel Aviv University, Israel.

### Prof. Hadas Mamane,

Tel Aviv University, Israel.

### Prof. Gurdip Singh,

George Mason University, Virginia, USA.

### Prof Hans van Ees,

Honorary Dean Thapar school of Liberal Arts - Professor, University of Groningen, Netherlands.

## **Convener**

Dr. Gagandeep Kaur, TIET  
Dr. Amanpreet Kaur, TIET

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## **Organizing Secretary**

Dr. Gurvinder Kaur, TIET  
Dr. Parag Nijhawan, TIET  
Dr. Alka Pandita, TIET  
Dr. Meenakshi Sood, NITTTR



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