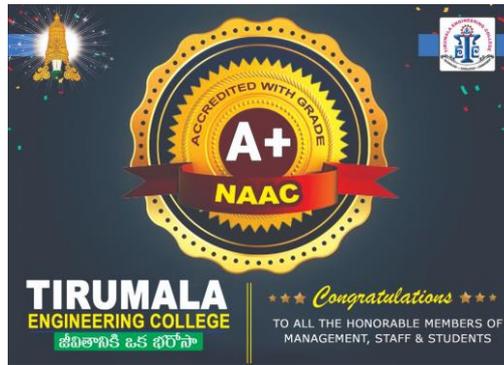


**International Conference on**  
**Perspectives and Advances in Collaborative Technologies:**  
**Engineering, Social Sciences, Humanities & Management**  
**ESHM - 2025**

**Organized by:**



**Tirumala Engineering College**

Jonnalagadda, Narasaraopeta, Andhra Pradesh 522601

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**Conference World and IARDO**

Date : 28<sup>th</sup> June 2025

**Email: [conference@iardo.com](mailto:conference@iardo.com)**

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**ISBN: 978-93-48954-71-8**

**International Conference on**  
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**Editors**

**Mr. T. Jagadeesh**

**Dr. Y.V. Narayana**

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***Publish By:***

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## *Preface*

Conference word and AR Research Publication is a fast-growing group of academicians in Arts, Engineering, Sciences, and Management. A R Research Publication is also known for its fast reply and zero-error work. The conference world has organized various conferences at renowned places namely Delhi University; New Delhi, Jawaharlal Nehru University; New Delhi, PHD Chamber of Commerce and industry New Delhi, YMCA New Delhi, India International Centre New Delhi, Sri Venkanteswara College of Engineering and Technology, Andhra Pradesh, Vedant Engineering Kota and many more places across the country.

We are very pleased to introduce the proceedings of the International Conference on Perspectives and Advances in Collaborative Technologies: Engineering, Social Sciences, Humanities & Management ESHM-2025. The papers presented at the conference focused on Representation of Modern and Ancient Literature, Indian Knowledge Systems and other related themes. The level of Interest in the subject matter of the conference was maintained from previous events and over 18 suitable papers were submitted for presentation at the conference.

Papers were well represented at the conference to arouse a high level of international interest. The presented papers maintained the high promise suggested by the written abstracts and the program was chaired in a professional and efficient way by the session chairmen. The program was chaired professionally and efficiently by the session chairmen also highly gratifying, showing the high level of interest in the subject. This Proceeding provides a permanent record of what was presented. They indicate the state of development at the time of writing of all aspects of this important topic and will be invaluable to all authors in the field for that reason. Finally, it is appropriate that we record our thanks to our fellow members of the Technical Organizing Committee for encouraging participation from those areas. We are also indebted to those who served as chairmen, without their support, the conference could not have been the success that it was. We also acknowledge the authors themselves, without whose expert input there would have been no conference. Their efforts made a great contribution to its success.

## About College

**Vision:** To be a world class leader in transforming lives through an innovative, rigorous and compassionate approach by imparting high quality academic excellence in technical education to uplift the living standards of the rural youth by promoting the cutting edge technologies, employability, higher education and research with socio-ethical, eco-friendly and entrepreneurial values.

**Mission:** To develop high quality technical personnel with a sound footing on basic engineering principles, innovative research capabilities and exemplary professional conduct to lead and to use technology for the progress of mankind, training and adepting them to changing technological environment by providing the high quality instruction, infra, faculty, effective teaching and learning methods imbibing socio-ethical, eco-friendly and entrepreneurial values as the inner strength for rural development

**Quality Policy:** We, at Tirumala Engineering College, Strongly believe that Quality is the essence of life. Hence, TEC will constantly strive to improve the quality of education and training imparted to its students by establishing state-of-the-art laboratories and modernizing them continually, upgrading the knowledge and skills of its staff periodically and developing strong linkages with industry.

## About IARDO

International Association of Research and Developed Organization (IARDO) is a leading organization in the field of academic research activities under the banner of India Educational Charitable Trust (Regd).

International Association of Research and Developed Organization (IARDO) is an apex body that promotes and encourages commendable achievements from all over the country. The organization under conference world regularly organizes national and International level conferences with the help of its members to promote socially responsible education practices and sustainable development in economic as well social front in India.

# Message

**Dear Esteemed Guests, Scholars, and Innovators,**

It is with great honor and pride that I extend my heartfelt appreciation to all the distinguished participants, scholars, and professionals who have contributed to the remarkable success of the International Conference on Perspectives and Advances in Collaborative Technologies: Engineering, Social Sciences, Humanities & Management (ESHM – 2025).

At Tirumala Engineering College, we remain steadfast in our commitment to academic excellence, interdisciplinary research, and innovation-driven collaboration. ESHM-2025 has once again reaffirmed the transformative power of collective intellect and shared purpose in addressing contemporary global challenges.

The dynamic deliberations, pioneering research presentations, and insightful dialogues witnessed during the conference reflect our mutual dedication to progress across both scientific and humanistic domains. This confluence of disciplines has not only broadened perspectives but also laid a strong foundation for impactful, cross-sectoral innovation.

I wish to express my sincere gratitude to our esteemed keynote speakers, panelists, and researchers whose thought-provoking contributions have set a new benchmark for academic discourse. A special vote of thanks goes to the organizing committee, dedicated faculty, and institutional partners for their exemplary coordination and efforts that made this event a resounding success.

As we move forward, I encourage all participants to channel the learnings, insights, and connections made here into meaningful action—sparking new ideas, forging research collaborations, and inspiring transformative change.

Let ESHM-2025 be a lasting symbol of academic unity and a catalyst for future endeavors that elevate knowledge, technology, and societal well-being.

**With Best Regards,**

**Dr. Y.V. Narayana**

Principal, Tirumala Engineering College

# Message

**Dear Participants,**

I extend my heartfelt gratitude to all attendees, presenters, and esteemed speakers for making **ESHM - 2025** a truly impactful and memorable academic event. Your enthusiastic participation, rich discussions, and thought-provoking contributions have significantly elevated the intellectual depth and collaborative spirit of this conference.

In a world shaped by rapid transformation and cross-disciplinary convergence, **ESHM - 2025** served as a timely and vital platform for the exchange of ideas across engineering, social sciences, humanities, and management. The diverse perspectives and interdisciplinary collaborations presented here underscore the powerful role of integrated thinking in solving complex real-world challenges.

A special note of appreciation is extended to the convenors, organizing committee, and institutional partners for their tireless dedication and precise coordination. Their commitment to academic excellence has ensured the seamless execution of this prestigious event and fostered an atmosphere of innovation and inquiry.

As we move forward, I encourage all participants to build upon the knowledge gained and the networks formed during this conference. May the insights shared here inspire ongoing research, transformative initiatives, and enduring collaborations across disciplines and institutions.

Thank you once again for your valuable presence and contribution. Let **ESHM - 2025** be remembered not just as a conference, but as the beginning of new intellectual journeys and impactful change.

**Best Regards,**

**Mr. T. Jagadeesh**

Head of the Department, ECE

Tirumala Engineering College

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Proceeding of the conference has been published with **ISBN: 978-93-48954-71-8**

International Conference on Perspectives and Advances in Collaborative Technologies: Engineering, Social Sciences, Humanities & Management (ESHM – 2025). Organized at Tirumala Engineering College, Jonnalagadda, Narasaraopeta, Andhra Pradesh Total 38 papers were received for the conference and 18 papers were shortlisted by the committee.

**Published by**

**AR Research Publication,**

3/186 Santpura Govindpuri Modinagar- 201201. Dist: Ghaziabad

International Conference on Perspectives and Advances in Collaborative Technologies:  
Engineering, Social Sciences, Humanities & Management (ESHM – 2025)

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This edition can be exported from India only by the publishers, AR Research Publication (India) ISBN: **978-93-48954-71-8**

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Cover Design: Deepak Kumar