

**International Conference on**  
**Emerging Trends in Engineering,**  
**Science and Management**  
**ESM2K26**

Organized by



Shri Ambabai Talim Sanstha's

**Sanjay Bhokare Group of Institutes**

(Accredited by NAAC 'A' Grade)

Approved by AICTE & DTE Mumbai, Affiliated to DBATU, Lonere (Raigad) &  
Shivaji University, Kolhapur.

Samastanagar, Miraj, Maharashtra 416410

Publication Partner



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**Date: 04<sup>th</sup> June 2026**

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**ISBN: 978-93-48954-00-8**

**International Conference on  
Emerging Trends in Engineering,  
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**Editors**

**Dr. G. M. Malu**

**Dr. P. S. Langade**

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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 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 Venknteswara 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 Emerging Trends in Engineering, Science and Management (ESM2K26). The papers presented at the conference addressed the Recent Innovations & Development in field of Engineering and Technology. The level of Interest in the subject matter of the conference was maintained from previous events and over 45 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 The College**

ATS's Sanjay Bhokare Group of Institutes, (SBGI) Miraj is established in the year 2009 under the aegis of "Shri Ambabai Talim Sanstha". SBGI is An Autonomous Institute. It is approved by All India Council for Technical Education (AICTE), New Delhi and DTE Mumbai Maharashtra. Degree Engineering is affiliated with Dr. Babasaheb Ambedkar Technical University, Lonere (Maharashtra) and MBA is affiliated with Shivaji University Kolhapur (Maharashtra). The integrated college campus is centrally located at Sangli-Miraj road. At present institute has seven UG engineering courses (Civil Engineering, Mechanical Engineering, Electrical Engineering, Computer Engineering, Electronics and Telecommunication Engineering, Computer Science & Engineering (AIML), Electronics Computer Science). Also has MBA course with Five Specializations & Diploma course with Four Specializations. The institute is accredited by NAAC in cycle-II with an 'A' Grade in the year 2023 and awarded as "Emerging Integrated Campus" by ISTE in New Delhi. The institute is excelling in research, PhD work, industrial visits, patents and projects implementing for academic excellence.

## **About The Conference**

The conference is aiming at facilitating the exchange of ideas and developments in all aspects of Engineering, Science & Management topics. This conference provides opportunities for the different areas delegates to exchange new ideas to establish business or research relations and to find global partners for future collaboration. We hope that the conference results constituted significant contribution to the knowledge in these up-to-date scientific field.

## **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.

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## *Message*

***Ms. Reshu Gupta,***  
*CEO Conference World*

It is with immense pleasure and great pride that I extend a warm welcome to all delegates, researchers, academicians, industry experts, scientists, and students to the **International Conference on Emerging Trends in Engineering, Science and Management (ESM2K26)**, scheduled to be held on **04th June 2026**.

This prestigious international conference is organized by **Shri Ambabai Talim Sanstha's Sanjay Bhokare Group of Institutes (SBGI), Miraj, Maharashtra**, an institution accredited with **NAAC 'A' Grade**, approved by **AICTE & DTE Mumbai**, and affiliated to **DBATU, Lonere (Raigad)** and **Shivaji University, Kolhapur**. The conference brings together distinguished experts and scholars from diverse disciplines to share knowledge, present innovative research findings, and explore emerging developments in Engineering, Science, Technology, Management, and allied fields.

I am confident that this conference will serve as a catalyst for inspiring new ideas, strengthening professional networks, and creating opportunities for collaborative research and innovation. The deliberations and outcomes of this event will undoubtedly contribute to the advancement of knowledge and the development of impactful solutions for global challenges.

I extend my heartfelt appreciation to the organizing committee, faculty members, researchers, sponsors, and all supporting partners for their dedication and commitment in making this event a reality. I wish the **International Conference on Emerging Trends in Engineering, Science and Management (ESM2K26)** a grand success and a highly rewarding experience for all participants. Thank you for being a part of this remarkable academic endeavor.

***Ms. Reshu Gupta,***  
*CEO Conference World*

Proceeding of the conference has been published with **ISBN: 978-93-48954-00-8**  
**International Conference on Emerging Trends in Engineering, Science and Management (ESM2K26)**. Organized at **Sanjay Bhokare Group of Institutes, Shivaji University, Kolhapur, Samastanagar, Miraj, Maharashtra** Total 64 papers were received for the conference and 45 papers were shortlisted by the committee.

**Published by**

**AR Research Publication,**

3/186 Santpura Govindpuri Modinagar- 201201. Dist: Ghaziabad **International Conference on Emerging Trends in Engineering, Science and Management (ESM2K26)** (Vol-01) Copyright © 2026, by AR Research Publication (India)

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This edition can be exported from India only by the publishers, AR Research Publication (India) ISBN: **978-93-48954-00-8**

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Cover Design: Deepak Kumar