

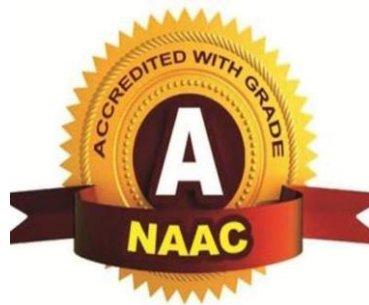
NATIONAL CONFERENCE ON MULTIDISCIPLINARY APPROACHES IN Engineering, Science & Management (ESM-2023)

Organised by

KJEI's TRINITY ACADEMY OF ENGINEERING, PUNE

Accredited by NAAC with 'A' Grade

(Approved by AICTE, New Delhi, Govt. of Maharashtra & affiliated to Savitribai Phule Pune University)



24th – 25th February 2023

In Association With:



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**NATIONAL CONFERENCE ON
MULTIDISCIPLINARY APPROACHES IN
Engineering, Science & Management
(ESM-2023)**

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Editors

Dr. Nilesh Uke

Dr. Satish Deshmukh

Ms. Deepthi Kulkarni

Publish By:

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Preface

Conference World and AR Research Publication is fast growing group of academicians in Engineering, Sciences and Management. AR Research Publication is also known for fast reply and zero error work. 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 Venkateswara college of Engineering and Technology, Andhra Pradesh, Dhananjay Mahadik Group of Institutions (BIMAT), Shivaji University, Maharashtra, Vedant Engineering Kota and many more places across the country.

We are very pleased to introduce the proceedings of the National Conference on Multidisciplinary Approaches In Engineering, Science & Management (ESM-2023). As for previous conferences, the theme was the link between the information provided by conference world and the use made of this information in assessing structural integrity. These were the issues addressed by the papers presented at the conference. The level of interest in the subject matter of the conference was maintained from previous events and over 31 suitable papers were submitted for presentation at the conference.

Papers were well represented in the conference to arouse a high level of international interest. Three countries were represented in the final program from Europe, North America and Asia. In the event, the conference was highly successful. 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 who were selected for their international standing in the subject. The number of delegates was also highly gratifying, showing the high level of international interest in the subject. This is also indicated by the large number of countries, 04 represented by the delegates. This Proceeding provides the 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 workers 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

KJ's Educational Institutes is established in the year 2005 with excellent infrastructure spread over 110 acres of green campus with spacious buildings having backdrop of Sahyadri hills.

KJEI's Trinity Academy of Engineering is established in 2010 located on 112 acres and 22,000 sqm constructed state of the art, world-class infrastructure. Campus is well equipped with best laboratories, workshops, libraries, hostel, canteen, sports facilities, transportation facility and other amenities to create conducive environment for students in attaining highest standards in academics, research and professional skills.

Challenges and Opportunities are two sides of the same coin. We take every care of all-round personality development of individual student along with academic excellence.

Aim & Objective of the Conference-ESM-2023

ESM-2023: National Conference on Multidisciplinary Approaches In Engineering, Science & Management (ESM-2023) aims to bring together leading academician, scientists, students and research scholars from around the world to exchange and share their experiences and research findings on all aspects of Engineering, Science & Management. It also serves as a prominent multidisciplinary forum for academics, practitioners, and educators to present and debate the most current breakthroughs, trends, and concerns, as well as practical difficulties and solutions in the domains of Engineering, Science & Management.

The conference is also a space for creating collaborative links between academics and professional practitioners and their workplaces, aiming at long-term sharing of knowledge and discussions of highly current issues.

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All papers will undergo a double-blind peer review process and the criteria for acceptance will be based on quality, originality, technical content and relevance.

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Total 54 papers were received for the conference and 31 papers were shortlisted by the committee.

1. Accepted papers will be published in the peer reviewed international journals having ISSN & High Impact factor.
2. Selected Papers will be published in the UGC Care listed international journals having ISSN & High Impact factor.
3. Few very good quality Papers will be published in the Scopus indexed journal having ISSN & High Impact factor.
4. Author will get certificates, one for paper publication in Journal other for paper presentation in conference as per their choice

5. All the papers of the conference will be published in the conference proceeding with ISBN.

6. All the accepted and presented/ Non-Presented papers will be indexed in Google scholar & IDIIF.

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