

**2nd International Conference on
Innovative Trends in
Engineering and Technology**

ICITET-2024

Organized by



**K J College of Engineering and
Management Research, Pune**

Accredited by NAAC, Under Academic Mentorship of COEP

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Editors

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Preface

Conference world 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 2nd International Conference on Innovative Trends in Engineering and Technology were 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 115 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 Conference

The Conference is aimed to bring together inquisitive academician, industry experts, researchers and practitioners to share their innovative and revolutionary ideas, resolving significant issues, and contributing towards inculcating a healthy and coexistent learning ambiance. The conference aspires to encircle all prominent avenues in the field of Engineering and Technology. The conference is an umbrella of boundless experience and the inquisitive thirst of exploring exemplary concepts under one roof.

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.

About the College

KJCOEMR was established in the year 2009. We offer four year full time degree course in 'Bachelor of Engineering' with specialization in Civil, Computer, Electrical, Electronics and Telecommunication, and Mechanical Engineering and four post graduate courses in Computer Engineering, Computer Networks, Structural Engineering, and Design Engineering. The college is under Academic Mentorship of COEP and accredited by NAAC. The college is approved by AICTE, DTE, Govt. of Maharashtra and is affiliated to Savitribai Phule Pune University, Pune.

The institute was founded with the noble vision of producing professionals and leaders of high academic caliber capable of facing the challenges posed by advancing technology and emerging knowledge areas. Our goal is to professionally prepare students and instill in them strong motivation and commitment to serve humanity. Established in 2009, KJCOEMR offers a four-year full-time Bachelor of Engineering degree with specializations in Civil (60), Computer (180), Electrical (60), Electronics & Telecommunication Engineering (60), Electronics & Communication (Advanced Communication Technology) (60), Electronics Engineering (VLSI Design & Technology) (60), and Mechanical Engineering (90). Additionally, we provide four postgraduate courses in Computer Engineering (12), Computer Networks (12), Civil-Structural Engineering (24), and Mechanical-Design Engineering (12). The College is approved by AICTE & DTE, Govt. of Maharashtra, and is affiliated with Savitribai Phule Pune University, Pune.

Our modern state-of-the-art infrastructure and facilities are developed to create a conducive atmosphere for teaching, learning, and all-round student development. To achieve our objectives, we have qualified teachers and staff dedicated to maintaining high standards. The majority of our faculty members possess more than 10 years of academic and/or industrial experience in their respective disciplines. Our teaching methodology includes well-prepared lecture notes, the latest presentation techniques, interactive sessions, and dialogue between students and teachers. We actively encourage one-to-one interactions between teachers and students for both co-curricular and extra-curricular activities.

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