

**9<sup>th</sup> NATIONAL CONFERENCE  
ON  
EMERGING TRENDS IN ENGINEERING AND  
TECHNOLOGY**

**NCETET-2023**

**Organized By:**



**Bharati Vidyapeeth's College of Engineering, Kolhapur.**

Accredited by NAAC with 'A' Grade

(Approved by All India Council for Technical Education (AICTE), New Delhi, and is affiliated to Shivaji  
University, Kolhapur.)

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**NCETET-2023**

**Editors**

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Dr. K.R. Desai

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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 *9<sup>th</sup> National Conference On ‘Emerging Trends in Engineering and Technology’* (NCETET-2023) , the theme for conference was “Era Of Innovation” . The Recent Innovations & Development in field of 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 **147** 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 purpose of National Conference on Emerging Trends in Engineering and Technology (NCETET-2023) is to bring together leading researchers, engineers and scientists in the domain of interest from India. We warmly welcome previous &

prospected author to submit your new research papers to NCETET-2023 and share the valuable experiences with the scientist and scholars. The theme of the conference is 'Era of Innovation'. All full paper submissions will be peer reviewed and evaluated based on novelty, technical and/or research content, relevance with the theme and contributions. Selected Papers will be published in conference proceedings with ISBN number. Participant who wish to publish their papers in Scopus Indexed Journal will be published with additional fee.

### **About the College**

Bharati Vidyapeeth, the parent body of Bharati Vidyapeeth's College of Engineering, Kolhapur and other Bharati Vidyapeeth campuses, is one of the largest networks of educational institutions in India. It was established by honorable late Dr. Patangrao Kadam in 1964. Bharati Vidyapeeth has 182 institutes at Pune, New Delhi, Navi Mumbai, Solapur, Kolhapur, Karad and Sangli. Bharati Vidyapeeth also has an overseas campus at Dubai. Bharati Vidyapeeth has total six engineering colleges. Bharati Vidyapeeth's College of Engineering, Kolhapur started in year 2001. Presently there are five UG courses and three PG courses running in the institute. The institute is accredited by NAAC with A grade. The institute provides a promotive learning environment for students to enhance their creative skills, utilize their potential in becoming capable engineers.

### **Conference Highlights:**

1. All the papers of the Conference will be published in the conference proceeding with ISBN.
2. Every author will get soft copy of certificate for paper publication in conference proceeding.
3. Selected papers will be published in Scopus Indexed Journal and UGC care listed journal.



### MESSAGE

I am happy to learn that our institute is organizing a 9<sup>th</sup> National Conference on “Emerging Trends in Engineering and Technology” (NCETET-2023) and that a souvenir is being published on this occasion.

NCETET- 2023 is being organized in association with "Conference World", New Delhi. The accepted papers in NCETET-2023 will be published in the conference proceeding with ISBN. The conference will feature Keynote talks and paper presentation sessions.

I congratulate the organizing team of **BVCOE, Kolhapur** for organizing such a great event and providing a platform for the interaction of experts and researchers through the conference. I have no doubt that the suggestions made by experts/speakers during the presentation will enhance the skill of researchers. I wish the conference great success.

**PROF. (DR.) V. R. GHORPADE**

**Principal**

**BVCOE, KOLHAPUR**



### **MESSAGE**

It gives me great pleasure to state that the Department of Electronics & Telecommunication Engineering is organizing 9<sup>th</sup> National Conference on "Emerging Trends in Engineering and Technology" (NCETET-2023) . I am delighted to know that there are large number of researchers have submitted the papers on various fields of Engineering & Technology.

I hope that the conference will provide a platform for various personnel to introduce innovative ideas and thoughts and exhibit their research skills in the area of all technologies for sustainable development.

I wish all the best to the participants of the conference and get additional insight to their subjects of interest. I appreciate the faculties and coordinators for their continuous untiring contribution in making the conference a reality.

**Dr.K.R.DESAI**

**Head, Organizing Department (E&Tc)**



## MESSAGE

I feel delighted and privileged, as a Convener, to host NCETET-2023, our 9<sup>th</sup> National Conference on "**Emerging Trends in Engineering and Technology**" and take pleasure to welcome all the academicians, technical experts, and participants from various universities and institutes to this conference.

This event will provide a platform to professionals, academicians, research scholars & students of various disciplines to put forward their thoughts and vision to provide awareness about recent developments and innovations in the field of science and engineering.

I am thankful to our honorable Secretary Hon. Dr. Vishwajeet Kadam sir for encouraging and guiding us to organize this national conference. I would also like to express my sincere thanks and gratitude to the Conference World team and members of the organizing committee of NCETET-2023, who have worked tirelessly to organize this conference and ensure its grand success.

**Mr.R.R.SURYAWANSHI**

**Convener NCETET-2023**



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