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National Conference
on

Innovative Approaches in Civil Engineering

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VC/Message/2011-12/ 01

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MESSAGE

I am very happy to know that the MPGI Integrated Campus School of Engineering and Management Nanded, is organizing five National Multi Conferences in the field of Engineering and Management to be held during 7th-8th, April, 2012.

- Advancement in Electronics & Telecommunication Engineering.
- Artificial Intelligence & Self Organizing System
- Innovative Approaches in Civil Engineering
- Recent Trends in Mechanical Engineering
- Management Horizon in Changing Economic Environment

I am sure that these Conferences will play an important role in providing a platform to the academicians, technologists, researchers and industrialists to share their views on technical knowledge in the field of Engineering and Management Sciences.

I wish the National Multi Conferences MPGINMC-2012 a grand success.


(Dr. S. B. Nimse)
Vice-Chancellor

MESSAGE

It is a matter of immense pleasure and delight to welcome you all to Matoshri Pratishthan Group of Institutions, Nanded for the National Multi conference 2012.

MPGINMC-2012 is an event which provides a forum for experts from academia, Industries and Society at large to discuss technical issues and help disseminate new findings in the domain of Electronics, Civil, Computer Science, Mechanical Engineering and Management.

To promote the research activities, Matoshri Pratishthan Group of Institutions has organized five National Conferences entitled, "Management Horizon in Changing Economic Environment", "Advancement in Electronics & Telecommunication Engineering", "Recent Trends in Computing", "Innovative Approaches in Civil Engineering", and "Recent Trends in Mechanical Engineering". These conferences will prove to be very beneficial to PG students, faculty and research scholars as the new trends, advances, emerging ideas and opportunities in the field of Management and Engineering are concerned.

This conference is a result of collective efforts, I am aware that all my staff members and students have whole heartedly devoted their energy and times for making this venture a success. I take this opportunity to appreciate the input by all of them, who are my real family members.

I heartily welcome all of you for all these National Conferences. I am looking forward to meaningful scholarly interactions. I hope that your stay here will be comfortable and advantageous.

Thanking you.

Mrs. Jayashree Kamaji Pawar
President
Matoshri Pratishthan Group of
Institutions
Nanded

MESSAGE

Change is caused by innovation and is also the cause of innovation. Keeping up with the tradition of encouraging change and innovation among the young technocrats, Matoshri Pratishthan Group of Institutions National MutiConference-2012 (MPGINMC-2012) is organizing this year. By virtue of being in a landmark year not only enhances the significance of MPGINMC-2012 but its responsibility too, at it has to ensure that the vision and objectives of Matoshri Pratishthan Group of Institutions reflect in various events conducted during the course of the festival.

MPGINMC-2012 would offer a wide spectrum of events to the research scholars and faculties to explore their creativity, communication skills, business acumen, and technical skills. It will also help them gain knowledge about the changing trends and technological innovations as they interact with experts during the course of the event. It would be a platform for the students, research scholars to test their belief in their abilities to make a difference.

I look forward to seeing an enthusiastic participation of the research scholar from all over the country. I would also like to congratulate the team of MPGINMC-2012 for their effort in organizing such an event and offer my best wishes for the success of this mega event.

Mr. Venkat B. Chari
Secretary
Matoshri Pratishthan Group of Institutions
Nanded

PREFACE

In 21st Century, the inventions and development in each and every discipline of engineering and technology are taking place at an exponential pace. The advancement in the knowledge of any one discipline cannot be viewed in isolation, as eventually it becomes complementary and supportive to enhance the knowledge in other disciplines also. Thus the progressive chain of overall developments in engineering & technology is interlinked with knowledge advancements in each & every individual discipline. This clearly emphasizes the need to have conference of interdisciplinary nature wherein all the innovations, ideas & recent development in each of the disciplines are discussed and propagated on a common platform.

In the light of above fact, the present National Multi Conference (MPGINMC-2012) has been envisaged as an interdisciplinary Conference being organized at Matoshri Pratishtan Group of Institutions Nanded. Herein a modest attempt is being made to highlight innovative ideas expressed by delegates from various discipline & carry out synthesis of these for overall application & benefits of academicians, researchers & industry.

The topics of MPGINMC-2012 cover the thrust areas of research, academics & Industry in Electronics & Telecommunication engineering, Computer science engineering, Civil engineering, Mechanical engineering and Management.

It was an overwhelming response from the authors from all above disciplines to our call for papers. Out of total 305 full length papers received from all over India and abroad such as California(USA), Carolina(USA), Yemen , Kingdom of Saudi Arabia and Dubai, among them 257 high quality papers have been accepted for publication in this proceedings. Internationally eminent personalities have been invited to deliver keynote addresses and invited talks during technical sessions. The varieties of topics chosen by keynote speakers are not only recent advancements in technology in their expertise area but also of social interest. The proceeding of MPGINMC-2012 in electronic version is available at website which includes the Contributed papers in addition to keynote addresses & invited papers. On behalf of organizing committee, we express gratitude to AICTE New Delhi & Swami Ramanand Teerth Marathwada University for Sponsoring and providing funds to make our National Multi-conference (MPGINMC-2012) a grand success. Also we express gratitude to all the key note speakers, invited experts, author & delegates, besides all those who have worked and contributed directly or indirectly & helped in making of MPGINMC-2012 a grand success.

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