



# 2 Days International Conference



on

## “Innovations in Science & Technology : Opportunities and Challenges”

23<sup>rd</sup> & 24<sup>th</sup> September 2016

*Organized by*

**Shri Shivaji Education Society Amravati's  
College of Engineering & Technology**

*In association with*

**ISTE, New Delhi,  
IWWA, Amravati Center,  
International Journal of Pure &  
Applied Research in Engineering & Technology**



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Head, Dept. of Civil Engg.

### **Organizing Secretary**

**Dr. Abhinandan R. Gupta**  
Dept. of Civil Engg

# Message



## Message from Hon. Dr. Ranjit Patil...

I am delighted to know that College of Engineering and Technology, Akola is organizing an International Level Conference “Innovations in Science and Technology: Opportunities and Challenges” on 23<sup>rd</sup> and 24<sup>th</sup> of September 2016.

Considering the global issues of pollution and ecological setback, it is well known fact that at national and global level, revolutionary efforts are needed to be taken to overcome it. Population and demand both are uncontrolled aspects of society, however the art and innovation is in balancing needs with green and clean technology. The efforts taken at national level related to concept of Digital India and Made in India are some such examples of revolutionary approach towards innovative eco friendly methodology and management. The key of making all such innovative ideas implemented is to share and adopt it.

I am sure that this endeavor will prove one such opportunity for individual to present ideas, research and experiences in front of other eager listeners and thinkers. This event will create zest into budding researchers, academicians and professionals to come together and serve society in form of better innovative ideas and practices.

I convey my greeting to everyone associated with this effort and wish them success.

**Dr. Ranjit Patil**  
Home, Urban Development,  
Law & Judiciary, M.S., and  
Guardian Minister (Akola & Washim) M.S.

# Message



## Message from Hon. Dr. R. G. Dani...

I am very glad to know that the College of Engineering and Technology, Akola is organizing an International level conference “Innovations in Science & Technology: Opportunities and Challenges” on 23<sup>rd</sup> and 24<sup>th</sup> Sept. 2016.

It is known fact to all today that unstoppable population and urbanization is creating acute stress on available resource. The researcher and technocrats are continuously taking efforts to overcome this stress developed. However, the learning and knowledge gained by conducting experimentation and analysis turns useless until shared with others. And, thus taking efforts to provide such platform to researchers and professionals to share their knowledge should be prime considered.

I congratulate the institute for taking initiative and providing opportunities for peoples belonging to various streams to gather and share knowledge and experiences with each other.

I am sure that this endeavor will provide huge boost and encouragement to the academicians, research students and professionals to learn and express their technical skills for serving society and nation in better way. I convey my greetings to everyone associated with this effort and wish them success.

A handwritten signature in blue ink, consisting of stylized initials 'R' and 'G' followed by a surname.

**Dr. Raviprakash G. Dani**  
Vice-Chancellor,  
Dr. PDKV, Akola

# Message



## Message from Patron...

I am very glad to know that the College of Engineering and Technology, Akola continuously takes effort to provide platform for researchers, academicians and professionals to share their innovative ideas and study by conducting conference.

It is also made known to me that this is first International Conference organized by institute and thus matter of proud to realize that department of Civil Engineering has taken broader initiative after successful conduction of National Level Conferences in previous year.

The theme of conference is undoubtedly topic of great concern. Rapid growth in science and technology in past few decades reflects that each moment someone is initiating and implementing innovative research work.

However, it is must to discuss pros and cons of all such innovative technology at common platform occupied by researchers, professional, industrialist and academicians. The process of sharing and learning would definitely interconnect ideas of various elements of society altogether resulting into fruitful output.

I extend my best wishes for the grand success of IC-ISTOC 2016

A handwritten signature in blue ink, appearing to read 'ArunKumar Shelke'.

**Adv. ArunKumar Shelke**  
Patron & President  
Shri Shivaji Education Society, Amravati

# Message



## Message from Principal....

It is ecstatic to know that various researchers had actively initiated to share their research work through this International Conference “**Innovations in Science & Technology : Opportunity and Challenges**” being organised at our institute on Sept, 23<sup>rd</sup> and 24<sup>th</sup>, 2016.

It is the need of an hour today to keep on doing research and develop alternative concepts to overcome global issues and create green and clean environment. As up gradation of technology and engineering is important, the same way it is necessary to upgrade human skills and knowledge so as to compete world. This process of continual development of oneself leads to overall development of society and nation. The event is creating one such opportunity for the individual , researcher and academicians to upgrade themselves with latest innovative science and technology and learn to execute such ideas in days to day life.

The themes of conference received attention of various peoples belonging to streams of environment, geology, sciences, technology and engineering, this interdisciplinary interactive process of knowledge sharing would definitely result into valuable gains.

I take this opportunity to congratulate the team of IC-ISTOC2016 for their tireless efforts for organization of the event and wish the conference be a great success.

A handwritten signature in blue ink, appearing to read 'Deshmukh'.

**Dr. S. K. Deshmukh**  
Chairman & Principal  
College of Engineering & Technology, Akola

# Message



## Message from Convener...

On behalf of the College of Engineering and Technology, Akola, it is my great pleasure and honour to welcome you all on this international conference first of its own kind, "Innovations in Science & Technology: Opportunity and Challenges".

The conference rigorous quantification, common methodology applied to different areas of innovations in science and technology and consideration of a comprehensive set of potential technologies options for improvement including their economical and environmental dimensions makes it unique.

The initiative to conduct this event came out with the idea of implementation to bring all together the researchers and technocrats from various parts of the globe.

Growth is depended on the process of sharing and learning and thus it is necessary to learn new ideas and approaches by interacting with others. Many of times the final output of finished product is integrations of various innovative ideas put together. With the vision to join people from various streams the conference is conducted in association with ISTE, New Delhi and Indian Water Works Association, Amravati Center.

I am glad enough to know that there are many more people who believe in process of knowledge transmission and thus got huge contribution in form of research papers from people belonging to various streams.

Definitely, the active participation of peoples for coming together and efforts taken by the team of IC-ISTOC 2016 will result into its successful completion.

I show my gratitude towards the Patron, Chairman, Organizers, committee members and participants of the conference .

A handwritten signature in blue ink that reads "P. V. Durge".

**Dr. P. V. Durge**  
Convener  
IC-ISTOC 2016

# Message



## Message from Organising Secretary....

In the today's era of rapid growth and development, it is unavoidable to implement recent technologies and engineering. The world today is totally based on science and high skill engineering. Right from the issues of making habitant secure and safe against natural disasters like earthquake, flood and cyclones to day to day life consumables, all are designed and analyzed on the basis of applied science, mathematical modeling and simulation techniques.

This ready to use efficient tools, technology and software's all are part of some individual's initiative to contribute society with innovative approach. This rapid growth of urbanization, industrialization and economical stability is resultant of willingness to learn new concept and technology globally.

Millions of such innovative minds are busy inventing finding and implementing new concepts simultaneously world wide and thus, it is necessary to bring common dais over where ideas can be shared and shown.

This conference is small yet big initiative in itself to bring all such inventors and researcher together at common platform to exchange ideas and experiences. The series of technological and science levers of varying effectiveness and holistic perspective are indeed part of this conference.

I would like to thank all the researchers, academicians, practicing professionals, policy makers, administrators and students who have made praise worthy contribution to the conference. I would also like to thank the Indian Water Work Association, Amravati center to once again coming together and associating this international conference after successful achievement of National Conference in previous year. The approval and association of ISTE, New Delhi definitely added enthusiasm to conduct this event.

As working together is the only mantra for success, I would like to congratulate and appreciate the efforts taken by each individual and team of IC-ISTOC 2016 to execute this gigantic event and feels proud enough being organizing secretary of CEOTA's first International Conference. Definitely rigorous efforts would turn into successful achievement, I wish to all peoples associated with conference successful completions.

A handwritten signature in blue ink, appearing to read 'Dr. Gupta'.

**Dr. Abhinandan R. Gupta**  
Organizing Secretary  
IC- ISTOC 2016