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**TULSIRAMJI GAIKWAD-PATIL**  
College of Engineering & Technology

(Approved by AICTE, Recognized by Govt. of Maharashtra & Affiliated to RTM Nagpur University)

DTE Code: 4151



# TechEd-15

## An International Conference

on

### Science, Technology and Mathematics Education Trends & Alignment with Industry Needs

22<sup>nd</sup> & 23<sup>rd</sup> April, 2015

# CONFERENCE SUMMARY REPORT



in association with

Rashtrasant Tukdoji Maharaj  
Nagpur University, Nagpur  
Department of Mathematics & Chemistry

Indian Society for Technical  
Education, New Delhi



# Messages from Dignitaries

मुख्य मंत्री  
महाराष्ट्र



Chief Minister  
Maharashtra

10<sup>th</sup> April 2015

## MESSAGE

I am happy to know that Tulsiramji Gaikwad-Patil college of Engineering and Technology is organising an Industry-Institute Conclave and International Conference on “Science, Engineering, Technology and Mathematics Education- Trends and Alignment with Industry needs” at Nagpur on 22<sup>nd</sup> and 23<sup>rd</sup> April 2015.

I hope that this conference will provide platform for students and researches to exchange latest research materials and information.

I wish all the best for the success of the conclave and wish success in your future endeavours.

(Devendra Fadnavis)

राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठ  
Rashtrasant Tukadoji Maharaj Nagpur University  
It is regulated by Government of Maharashtra, License Number: 1011/2007/10  
of Nagpur. It is a premier & first university in western Maharashtra since its inception.

Dr. Siddharthvinayak P. Kane  
M. Sc. (Statistics), Ph. D.  
Vice-Chancellor

डॉ. सिद्धार्थविनायक प. काने  
एम.एस. (सांख्यिकी), पी.एच.डी.  
कुलसचिव

Office : Chhatrapati Shriji Maharaj Administrative Premises, Rashtrasant Tukadoji Maharaj Nagpur - 440 001  
Tel. : 0710-2523045, Fax : 0710-2555781 E-mail : vc@nagpuruniversity.ac.in



## MESSAGE

I am happy to know that Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur is organising an Industry-Institute-Conclave and an International Conference on “Science, Engineering, Technology and Mathematics Education – Trends and Alignment with Industry Needs” on 22<sup>nd</sup> and 23<sup>rd</sup> April, 2015. I am also happy to know that the College is bringing out a Scavenger on this occasion.

I hope that the deliberations by the invited speakers are fruitful so being well-meaning thoughtful propositions which will be of long term relevance. I hope that the Conference will be meaningful, relevant, purposeful, interactive and credible worth remembering and will be the best platform for dealing with all issues related to the field.

I extend my best wishes for successful organization of the Conference.

Nagpur/April 9, 2015

(I.B.P. Kane)

गोंडवाना विद्यापीठ, गडचिरोली  
Gondwana University, Gadchiroli

गोंडवाना विद्यापीठ गडचिरोली (गोंडवाना विद्यापीठ) ही गोंडवाना विद्यापीठ, गडचिरोली, महाराष्ट्र, भारत देशात स्थित आहे. या विद्यापीठात विद्यार्थ्यांना उच्च शिक्षण देण्यात येते. या विद्यापीठाचा स्थापना १९८३ साली झाली आहे.

Dr. Kirishwardhan Dixit  
M.Sc., Ph.D.  
Vice-Chancellor (Acad.)

डॉ. किरिशवर्धन दिखित  
एम.एस., पी.एच.डी.  
कुलसचिव (अका.)

www.gu.ac.in/237/2015

दि. 13/04/15

## MESSAGE

I am happy to know that Tulsiramji Gaikwad-Patil College of Engineering and Technology is organizing an Industry - Institute Conclave and International Conference on “Science, Engineering, Technology and Mathematics Education – Trends and Alignment with Industry needs” at Nagpur on 22<sup>nd</sup> and 23<sup>rd</sup> April, 2015.

I hope that this conference will provide platform for students, academicians, researchers and industry personnel to share their views on the latest trends and practices in their respective fields.

I extend my best wishes for successful organization of the Conference.

Kirishwardhan Dixit  
Vice Chancellor

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Email ID : vc@gondwana-dg.ac.in Website : 982223557

## CONFERENCE SCOPE

TechEd2015 topics include, but are not limited to, the following research and development areas/fields (more than 80 topics) classified into 7 Tracks:

International Conference TechEd-15 is aimed at providing a platform to share the needs of industries with the changing time and the role of technical education and institution to cater those needs. The conference will include Professors and industrialists from national and international institution/industries. Papers will be presented by Research scholars, Faculty members and Industry personnel. This conference is being organized on Science, Technology and Mathematics Education Trends & Alignment with industry Needs.

As a result many Keynote, Tutorial and Technical Sessions have been prepared in accordance with conference scope to discuss the Challenges, Opportunities and Problems of Application of in various fields.

## WELCOMING AND OPENING CEREMONY

The first day of conference started with Welcoming and Opening Ceremony by **Dr. Rajan Welukar**, Former Vice Chancellor University, Former Vice-chancellor Yashwantrao Chavan Maharashtra open University, Nashik. has hosting the Chair addressed to participants with short welcoming speeches.



**Inauguration of International Conference TechEd-15**

## **International Advisory Committee**

1. Prof. Goodarz Ahmadi

Professor

Mechanical & Aeronautical Engg.

Clarkson University , USA

2. Abdul Mutalib Lemon

Associate Professor

Faculty of Engg. Technology

University Tun Hussein Onn Malaysia

3. Dr. Shahriar Shahbazpanahi

Islamic Azad University,

Department of Civil Engg.

King Faisal University

Saudi Arabia(KSA)

4. Dr. Md. Al-Amin Bhuiyan

Associate Professor

Dept. of Computer Engg.

Sanandaj, Kurdistan, Iran

Al Ahssa, Saudi Arabia

5. Dr. Chi Hieu Le

University of Greenwich

Kent ME4 4TB

United Kingdom

6. Harun Bin Sarip

Head of Research and Innovation

Dept. UniKL-MICET

University de La Rochelle France

## **National Advisory Committee**

1. Dr. R.V. Kshirsagar

(Dean Faculty of Engg. & Tech. RTMNU Nagpur)

2. Dr. D.K. Agrawal

(Management Council Member of Engg., Nagpur)

3. Prof. Pratapsin K. Desai

(President of ISTE New Delhi)

4. Prof. Vijay Vaidya

(Executive Secretary, ISTE New Delhi)

## TechEd-15 TRACKWISE INAUGURATION AND PRESENTATION



**TCETCE-15 Civil Engineering**

**ICETCE-15 An International conference on Science, Technology and Mathematics Education Trends & Alignment with industry Needs**

**Roser Robert, Pankaj Parkhi, Sainath Satpute**

**M. Tech Student , Ballarpur Institute of Technology, Ballarpur  
Fibre Reinforced Concrete**

**Abstract :** Fibre Reinforced Concrete is a convenient, practical and economical method for overcoming micro cracks, increasing tensile strength and compressive strength of the concrete. Since concrete is weak in tension and good in compression, some measures must be adopted to overcome the deficiency. Fibre is strong in tension; hence it can be used as a reinforcement material. Solid waste also create environmental problem for its decomposition.



**ICETCE-15 Civil Engineering**

**ICETCE-15**

**V. A. Khairnar, H. S. Chore, S.B Patil**

**P.G. student, Professor**

**DMCE, Navi Mumbai**

**Parametric Analysis on distortional buckling strength of cold formed edge stiffened channel sections**

**Abstract :** Cold-formed steel members have been widely used in residential, industrial and commercial buildings as primary load bearing structural elements due to their advantages such as higher strength on weight ratio over the other structural materials.

**TechTantra -15**

**Mr. Rahul Joge**

**Asst. Professor. KITS Ramtek**

**Comparative study of different Alternative fuels and their effects on Diesel Engine Performance**

Increasing energy demand urgently demanding a carry out work for research to find out alternative source for diesel engine. On otherhand waste plastic and waste tyre having disposal problems and with the great use of plastic and tyre causes a very serious environmental challenges.

**ICRTEE-15**

**Manish J. Patil, V.J.I.T., Mtunga, Mumbai.**

**PID- FUZZY Controller for speed control of DC Motor system design and simulation.**

**Abstract :** Speed control of DC motor plays a very important role in industrial application. Most of its applications needs fast and intelligent speed control based on PID-Fuzzy logic technique to achieve maximum . Torque & efficiency Fuzzyb logic control is based a linguistic control strategy, which is derived from expert knowledge into an automatic control strategy.



**TechTantra -15 Mechanical Engineering**





**Techo Tronics-15 Electronics and communication Engineering**

### **Techo Tronics-15**

**Bhagyashree Chaoji**

**ECE Applied college of Management & Engineering , Delhi Mathura Road, Mitrol, Maharshi Dayanand University, Rohtak**

**Innovative approach of computer vision based Recognition using Nut and Bolt System.**

**Abstract :** Computer vision is the science and technology of machines that can see. The machine is made by integration of many parts to extract information from an image in order to solve some task. As a scientific discipline, computer vision is concerned with the theory behind artificial systems that extract information from images. Each of the application areas described above employ a range of computer vision tasks; with more or less well defined measurement or processing problems, which can be solved using a variety of methods.



**Techscientia-15 Applied Science and Mathematics**

### **Techscientia-15**

**H. S. Lunge, Lunge, U. V. Kale**

**Dept. of Statistics, Shri Shivaji Science College, Amravati Measuring Dispersion in power Generation and Consumption in Maharashtra**

**Abstract :** The energy sector comprises of non-renewable conventional and renewable sources. Estimated reserves of non-renewable sources and estimated potential of renewable energy sources development in the agriculture & allied activities , industries and services sector largely depends upon the reliable and affordable availability of electricity. The percentage of expenditure of GoM on electricity sector to GSDP is about five per cent.



**Qualix-15**

**Qualix-15 An International conference on Science, Technology and Mathematics Education Trends & Alignment with industry Needs**

**Heena Sheikh Dhanvarsha Parate, MBA, CIMBRD**

**Opportunities in the today's Competitive world.**

**Abstract :** Entrepreneurs are may not born but they are developed in India the 70% population come under 17 to 25 age group. But they do not know what actually they want in life, what are their goals & accordingly the priorities in their life. They do not know their strenghts and weaknesses. There is no self evaluation in this generation. But they adopt the regular patterns, lie taking science in H.S.C & making career in engineering or medical or dreaming of government jobs where make compromiein life take jobs 8 attract stress & frustration in life.

## CONCURRENT TECHNICAL SESSIONS



Concurrent Session



Concurrent Session

Hundreds of attendees, paper presenters, keynote and tutorial participants, students have benefited in many ways from this conference. More than 100 scientific papers were presented by authors from different countries in Technical Sessions that were held in All accepted papers had been categorized into the following six sessions:

Cyber Security issues

Latest Trends in Ict Application

Big Data, Data Mining and Data Engineering

Communication, Network and Hardware

Ict in Governance, Business Administration, Finance and Economy

Ict in Education, Humanities, Social Sciences and Research

## VALEDICTORY FUNCTION



Student Feedback

The 1<sup>st</sup> International Conference on "Innovation and Research in Engineering, Science & technology TechEd2015" is now drawing to a close. We hope the past three days have been fruitful and that you will be able to make the most from the sessions you attended. Through a wide range of keynote speeches, tutorials, and discussions, we have been presented with new ways to deal with some of the challenges in Application of ICT. We hope that you shared your experiences and expertise with other participants from near and far, and that a cordial relationship established among us during the ICIREST2019 Conference will further strengthen.....

Before I conclude, I would like to invite all of you for the next 6th International Conference .

Thank you for being here in great city Nagpur with us and have a safe journey home.