

**All India Council for Technical Education (AICTE), New Delhi**

**Sponsored**

**2<sup>nd</sup> International Conference**

**on**

**Green Energy for Sustainable Development-2020  
(ICGESD-2020)**

**28<sup>th</sup> and 29<sup>th</sup> February, 2020**

**Jointly Organized**

**by**



**GOVERNMENT POLYTECHNIC, NAGPUR**

*(An Autonomous Institute of Govt. of Maharashtra)*

*(9 Diploma in Engineering Programmes Accredited by NBA New Delhi)*

Mangalwari Bazar, Sadar, Nagpur 440 001 Maharashtra

(o) 0712- 256 4483, Fax: 0712-2562741,

Web site:- [www.gpnagpur.ac.in](http://www.gpnagpur.ac.in)

*And*



**Maharashtra State Board of Technical Education  
(MSBTE) Mumbai**

## In Technical Collaboration with:



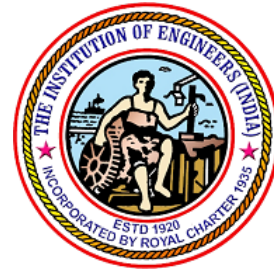
Indian Society for Technical Education, New Delhi



RTM Nagpur University, Nagpur



LIT, Nagpur



Institution of Engineers, IEI (India), Nagpur Local Centre, Nagpur



The Institution of Electronics and Telecommunication Engineers (IETE), Student Chapter



Indian Concrete Institute, Nagpur



CIPET Chandrapur



MCED (ED Cell), Nagpur

## About Institute:

The **Government Polytechnic, Nagpur** is an oldest technical institution in central India. It was founded on 14<sup>th</sup> July 1914 as the Government Engineering School. The school was expanding rapidly & from 16 students enrolled in 1914 increased to nearly 2000 in current year and Govt. Engineering School converted to Government Polytechnic, Nagpur. The Government Polytechnic, Nagpur is committed to contribute to through excellence in technical education, to serve as valuable resource for industry and society. The institute is always upright in responding to educational needs of its changing world's scenario.

From academic session 1995 the institute was conferred with autonomous status by Government of Maharashtra, in context of academic matter viz. identification of need of new programs, requisite curriculum design, and implementation of self-designed curriculum, assessment, evaluation and certification of students.

Some of the prestigious awards received by Government Polytechnic, Nagpur are as follows:

- State Award “Best Overall Performance 1996” (ISTE Narsee Monjee Award )
- State Award “Best Polytechnic, 1997” , (Govt. of Maharashtra)
- National Awards “Best Polytechnic, Student Chapter 2002”,(Institute of Engineers (India))
- National Awards “Best Polytechnic, Student’s Project ,2002” (ISTE Narsee Monjee )
- State Award “Best Overall Performance 2016” (ISTE Narsee Monjee Award )
- National Education Award for “Best Technical Educational Institute in Maharashtra State-2016”

Recently 9 Diploma in Engineering programmes of Government Polytechnic, Nagpur are accredited by National board of Accreditation, (NBA), New Delhi.

## About Nagpur City:

Nagpur is located at the exact centre of the Indian peninsula. The city has the Zero Mile Stone locating the geographical centre of India, which was used by the British to measure all distances within the Indian subcontinent. The city gets its name from the river Nag, which flows through the city, originating at a small village called Lavha. It is famous for the Nagpur orange and is known as the "Orange City" for being a major trade centre of oranges cultivated in the region. Various attractions of the Nagpur city and nearby are Zero Mile, Tajabad, Dikshabhumi, Ambazari Lake, Raman Science Centre, Sitabuldi Fort, Tekadi Ganesh Temple, Dragon Palace, Ramtek Temple, Khindasi and Tadoba.

## About Conference:

This highly exciting and challenging International Conference on Green Energy for Sustainable Development ICGESD-20 is intended to be a forum, discussion and networking place for academics, researchers, professionals, administrators, educational leaders, policy makers, industry representatives, advanced students, and others.

## **Call of Papers & Conference Theme:**

Green energy is renewable energy. Green energy have a far smaller impact on the environment than other types, that manufacture pollutants like greenhouse gases as a by-product, conducive to temperature change. Green energy, however, utilizes energy sources that are readily available everywhere in the world. Advances in renewable energy technologies have lowered the value of solar panels, wind turbines and alternative sources of green energy, placing the power to supply electricity within the hands of the people instead of those of oil, gas, coal and utility companies.

## **Conference Tracks:**

In this context, the organizers invite research papers in the following science and Engineering Tracks in spot presentation format only. The topic includes, but not limited to:

### **Track 1: Science**

- Green and Sustainability Chemistry,
- Green Chemistry: Challenges and Opportunity,
- Green Polymer and Plastic Chemistry,
- Green Fuels and Alternative Energy,
- Pollution Prevention
- Energy Science
- Nano Technology
- Multifunctional Materials
- Luminescent Nanostructure
- Organic Light Emitting Material
- Super Capacitor Material
- Energy Materials
- Solar materials
- Boundary Value Problem
- General Theory of Relativity
- Operational Research and Mathematical Modeling
- Number Theory

### **Track 2: Mechanical, Automobile, Metallurgy**

- Green Technologies in automotive industries
- Environmental friendly materials
- Green fuels
- Heat and Mass transfer modeling
- Hydrogen production technologies
- Carbon Capture and storage (CCS)
- Clean Energy Technologies
- Fuel Cells,
- Hybrid Energy Systems

- Hybrid Vehicles
- Composite and Smart Materials
- Green Manufacturing and Engineering
- Self healing composites
- Nano materials
- Non destructive evaluation
- Secondary steel making
- Heat Treatment of Metals & Alloys
- Casting and Solidification
- Mineral processing
- Metallurgical Thermodynamics
- Metal casting/ Foundry Technology
- Mechanical Metallurgy

### **Track 3: Electrical, Electronics, Computer and Information Technology**

- Smart Grids,
- Renewable Energy Resources- Wind, Solar, Wave, Tidal, Micro-hydro, Fuel cell etc.
- Energy System and Efficiency Improvement
- Advanced Energy Technologies
- Power Generation and Systems
- Power transmission and distribution
- Climate Change Mitigation and environmental impacts of energy systems
- Energy Management
- Policy and Economics
- Energy Storage
- Modeling
- IOT,
- Big data Analytics
- Automation and Robotics
- Artificial Intelligence

### **Track 4: Civil, Construction, Architecture, and Rural Technology**

- Green Building,
- Green Architecture,
- Ecosystems and Natural Environments,
- Sustainable Architecture,
- Architectural Impact on the Natural Environment
- Zero Energy and Smart Buildings
- Environmental Policies
- Transport Policies
- Water Policies and Management
- Urban and Rural Ecology

- Remote Sensing And GIS Application in Natural Resources Management
- Advances in agriculture equipments

### **Track 5: Technical Education**

- Need of Accreditation in Technical Educations
- Education for Environmental Sustainability
- Ethics in Technical Education
- Environmental awareness teaching and learning
- Lifelong Learning
- Teaching for social change
- Social and emotional teaching and learning
- Extra-curricular activities for social awareness
- New tools for Learning
- Learning for employment
- Skill Development
- Virtual labs
- E-learning
- Emerging technologies in teaching and learning
- Tools for evaluation and assessments
- Innovations in e-Learning
- Course Outcome, Program Outcome Attainment Methodologies
- ICT in Engineering Education

### **Track 6: Textile Engineering and Travel and Tourism**

- Eco-Textile
- Textile Engineering
- Textile and Recycle
- Cotton Fabrication
- Fashion Technology
- Textile Industries
- Automation in Textile
- Protected Areas and Tourism
- Urban Tourism and Cultural Heritage
- GIS Application in Tourism
- Tourism and Environment
- Animation in Tourism
- Hunting Tourism
- Sustainable Tourism
- Green Hotel building
- Green Practices/ Eco-friendly practices in Travel and Tourism Industry
- Eco-friendly vehicles at the destination
- Paperless travel and Tourism Practices

## **Track 7: Mining Engineering and Packaging Technology**

- Mining Engineering and Mineralogy
- Ventilation
- Rock Mechanics
- Mine Planning
- Material handling
- Drilling and Blasting
- Minerals processing
- Ore Reserve analysis
- Industrial Management
- Mine cost engineering
- Mine health and Safety
- Environmental aspects of mining
- Design of Engineering Structures
- Packaging Technology
- Green Packaging materials
- Graphic Arts and Design
- Material Science and Technology
- Plastics in Packaging
- Glass, Metal & Textile based packaging materials
- Digital imaging and color management

### **Call of Papers:**

Prospective authors are kindly invited to submit full text papers including results, tables, figures and references. All submitted articles should report original, previously unpublished research results, experimental or theoretical. Articles submitted to the Conference should meet these criteria and must not be under consideration for publication elsewhere. Manuscripts should follow the IEEE **conference template** format and are subject to both review and editing. Author(s) should clearly mention the track of paper. Author(s) should submit their paper(s) to [\*\*greenenergy582@gmail.com\*\*](mailto:greenenergy582@gmail.com) before last date of submission. Acceptance of papers will be communicated after review of paper and will be informed by mail regarding registration, publication in journal, etc

### **Registration Details:**

**Last date of Abstract Submission: 23<sup>rd</sup> Jan 2020.**



## Participant Registration Fees:

Delegate Category	Before 31 <sup>st</sup> Jan 2020	After 31 <sup>st</sup> January 2020
<b>International Delegate</b>	US\$ 50	US\$ 70
<b>Industry Delegate</b>	Rs 2500/-	Rs 2900/-
<b>Faculty Members</b>	Rs 2500/-	Rs 2900/-
<b>Two Faculty Members</b>	Rs. 4000/-	Rs. 4900/-
<b>Three Faculty Members</b>	Rs. 3000/-	Rs. 3900/-
<b>Doctoral / MPhil Students</b>	Rs. 2000/-	Rs. 2500/-
<b>UG/PG Students</b>	Rs. 1500/-	Rs/ 1900/-
<b>Two UG/PG Students</b>	Rs. 2000/-	Rs. 2900/-

The registration Fee is per person and includes conference kit, lunch tea/coffee and does not include journal publication charges. The registration fee can be paid by DD drawn in favor of “**Chairman, NC GP, Nagpur**”, payable at Nagpur. Please mention name/s and mobile no. on the backside of DD.

Or online payment /NEFT to following account. Send transaction Slip to:

The Convener, ICGESD-2019, Government Polytechnic, Sadar, Nagpur (MS), Pin 440 001

Bank Name : IDBI Bank Ltd.  
Bank Branch Address : Sadar, Nagpur  
Bank Account Holders Name : Chairman, NC GP, Nagpur  
Bank Account Number : 0648104000093578  
Type of Account : Saving Account  
IFSC : IBKL0000648

### Dates to Remember:

**Submission of paper/ abstract: 23<sup>rd</sup> Jan 2020**

**Notification of Acceptance: 30<sup>th</sup> January, 2020**

**Date of Conference: 28<sup>th</sup> and 29<sup>th</sup> February 2020**

### Address for Correspondence:

The Convener, ICGESD-2019,  
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