



2nd International Conference
on
Computational & Experimental Methods
in Mechanical Engineering
(ICCEMME-2019)
May 3 - 5, 2019



Organized by

Department of Mechanical Engineering



GL BAJAJ

Institute of Technology & Management

FIND YOUR SPARK

Plot No. 2, Knowledge Park-3, Greater Noida-201306

Website: <http://www.glbitm.org/iccemme/> | E-mail: convener.iccemme@gmail.com

Conference Preamble

“Scientists invent the existing world while engineers create a new world.” For the engineers to be creative, they need to develop new ideas and concepts. These ideas and concepts are to be validated through computations and experimentations. Keeping in view aforesaid facts the title of conference is chosen as “International Conference on Computational and Experimental Methods in Mechanical Engineering”. The economic growth of a nation largely depends upon the development of new technologies and products that suits to ever changing demands of consumer. The engineers need to cope with the tremendous pressure created by ever changing consumer requirement on the Industry. Engineers need to enhance their creative skills to meet out the challenges being faced by Industry. The conference focuses on the role of mechanical engineers in development affordable technologies and concepts to fulfill the consumer requirement. It is important for the engineers to lookout for research and development opportunities. The pace of development needs to be enhanced to balance the reduced lifecycle of technologies and products. Using these technologies as tools we have to breathe life in to the product to make it commercially viable with a futuristic outlook without sacrificing quality and durability. While development of new technologies and concepts engineer should ensure the protection of environment & recyclability.

About Conference

The objective of this conference is to provide a common platform for fruitful interaction among technocrats, academicians and researchers, corporate executives, industrialists, startup professionals and students. The eminent personalities from Industry and academics will be invited to deliver keynote speeches on conference themes.

About the Institute

GL Bajaj Institute of Technology and Management is one of the quality driven Educational Institute in the Greater Noida/Delhi-NCR Region. GL Bajaj stands out in its approach to assist and equip the students for their overall development, giving them a strong foundation for a successful future. The institute offers Courses for the award of degree of B.Tech, M.Tech, MBA and MCA.

This self financed institute is governed by Rajeev Memorial Academic Welfare Society (Registered Under Societies Registration Act 1860). It is approved by All India Council for Technical Education (AICTE), Ministry of Human Resource Development, Government of India and affiliated to Dr. A.P.J. Abdul Kalam Technical University, U.P., Lucknow.

Institute Vision

To be an institute of repute, providing professionally competent and socially sensitive engineers.

About Department

The Department of Mechanical Engineering is committed to provide students with sound mechanical engineering education in order to enhance the understanding and application of mechanical engineering principles, for techno-economic development of the country, and improve the quality of life of our citizens through teaching, research and outreach programs. The mission is further to provide an environment where students have extensive avenues to excel, improve technical exposure and develop personality and then get placed in PSUs, MNCs and reputed companies with good future so that students have global presence, in various roles and responsibilities. With excellent teaching and learning environment it provides a platform to instill high motivation, moral values and leadership in its students.

Department Vision

To evolve as a department of repute, providing valuable resources for industrial and social needs of the nation

Department Mission

- To impart state of the art facilities in the area of Mechanical Engineering and provide skillful training to faculty, staff and students.
- To bridge the industry academia gap by providing domain specific knowledge that suits the industrial requirements.
- To create conducive environment for self-learning.
- To inculcate moral and social responsibility towards society.

Chief Patron(s)

Dr. Ram Kishore Agarwal, Hon'ble Chairman, GLBITM

Mr. Pankaj Agarwal, Hon'ble Vice-Chairman, GLBITM

Patron

Prof. Rajeev Agrawal, Director, GLBITM

Convener(s)

Prof. V. R. Mishra, MED, GLBITM

Prof. Satish Chand, MED, GLBITM

Conference Coordinator

Dr. Arvind Kumar, MED, GLBITM

Dr. Sumit Tiwari, MED, GLBITM

Conference Chair

Prof. Pradeep Kumar, IIT, Roorkee

Organizing Secretary(s)

Dr. Param Singh, MED, GLBITM

Mr. Nagendra Kumar Maurya, MED, GLBITM

Mr. Avdhesh Tyagi, MED, GLBITM

Mr. Rohit Sahu, MED, GLBITM

GLBITM Advisory Committee

- Dr. A. L. N. Rao
- Dr. R. K. Mishra
- Dr. Mohit Banshal
- Dr. P. C. Vashist
- Prof. Manju Khatri
- Dr. Satyendra Sharma
- Dr. Prashant Mukherji
- Dr. Madhu Gaur
- Mr. Anil Khatri
- Dr. Shashank Awasthi

Technical Advisory Committee

- Dr. Daniel Hahn, APS GmbH, Germany
- Dr. Patrick Phelan, ASU, USA
- Mr. Saptarishi Basu, Continental Automotive
- Dr. Soham Mujumdar, University of Illinois at Urbana-Champaign
- Dr. Xinyue Han, Jiangsu University P. R. China
- Dr. Vinod Yadava, Director, NIT, Hamirpur
- Dr. P. M. V. Subbarao, IIT Delhi
- Dr. J. Ram Kumar, IIT Kanpur
- Dr. Vikas Rastogi, DTU Delhi
- Dr. T. S. Bhatti, IIT Delhi
- Mr. R. P. Pandey, Group Director, DRDO
- Dr. Ranganath M Singari, DTU, Delhi
- Dr. Eswaramoorthy Muthusamy, SMVDU, J & K
- Dr. R. S. Walia, DTU, Delhi
- Dr. Samir Sarawswati, MNNIT, Allahabad
- Dr. Sanjay Agarwal, BIET Jhansi
- Mr. Shital Garg, Scientist, DRDO
- Dr. Umang Soni, NSIT New Delhi
- Dr. Tarun Soota, BIET Jhansi
- Mr. Hemant Sharma, Scientist, DRDO
- Mr. Vijay Verma, BIET Jhansi
- Dr. Gunther Starke, APS GmbH, Germany
- Mr. Manikayal Rao Kaza, Director, UniLogic Technologies
- Mr. Sumit Sawhney Head APJ SAP Singapur
- Mr. Sintayehu Assefa, Dean of Engg. Debre Berhan University, Ethiopia
- Dr. Jaya Rawat, Chief Manager, R & D, IOCL
- Dr. Naveen Kumar, DTU, Delhi
- Dr. Kantesh Balani, IIT Kanpur
- Dr. Akshay Divedi, IIT Roorkee
- Dr. Sachin Maheswari, NSIT New Delhi
- Dr. G.N. Tiwari, Retd. Prof. IIT, Delhi
- Dr. N.K. Singh NIT, Kurukshetra
- Dr. N. P. Yadav, BIET Jhansi
- Dr. Pramendra Kumar Bajpai, NSIT New Delhi
- Dr. M. S. Niranjana, DTU Delhi
- Dr. A. K. Padap, BIET Jhansi
- Dr. Praveen Agarwal, MNNIT, Allahabad
- Dr. Narendra Kumar, BIET Jhansi
- Dr. Mohit Tyagi, NIT, Jalandhar
- Dr. Sunil Singh Rajput, BIET, Jhansi
- Dr. H. S. Pali, NIT, Srinagar
- Mr. Tribhuvan Tyagi, Manager, EIL

Conference Themes

Hydro Power

- Turbines
- Catchment Area
- Mini Hydro Plants
- Combined Turbine and Pumps
- Hydraulic Aerial Work Platform
- Advance Valves

Thermal Power Plants

- Super Critical Power Plants
- Modern Steam Generators
- Emissions
- Materials
- Condensers and Cooling Towers
- Gas Power Plants
- Combined Cycle
- Coal Gasification

Solar Energy

- Solar Power Plants
- Solar Devices
- Solar Refrigeration
- Solar Cooking inside the Kitchen
- Solar Pumps
- Solar Architects
- Utilization of Solar Energy in Railways and Metros

Atomic Power

- Fuel Policy
- Heavy Water Equipment
- Limitation of Steam Quality
- Reactors
- Radiation Protection

Advanced Design

- Tribology
- Vibration
- Fracture and Failures
- FEM/FEA
- CAD
- Simulation and Modeling

Industrial Engineering

- Project Management
- JIT
- Reliability and Maintenance
- Concurrent Engineering
- Inventory & Quality Management
- Supply Chain Management

Advanced Manufacturing

- Additive Manufacturing
- Rapid Prototyping
- CIM

Recycling and Waste Disposal

- Waste Management
- Industrial Waste Recycling
- Agriculture Residue Utilization
- Renewable and Bio-fuel
- Green Technology
- Sewage Treatment
- E-Waste Reuse & Recycle

Heat Transfer, and Fluid Mechanics

- Heat Exchanger Design
- Advance Conduction
- Advance Convection
- Advance Radiation
- CFD
- Cavitation
- Compressible and Incompressible Flows
- Micro and Nano Fluids
- Radiation Shields

Refrigeration and Air Conditioning

- Modern Refrigerator & Ice Plants
- Solar Refrigeration
- Energy Efficient Refrigeration Systems
- Modern Air Conditioning Machines
- New and Natural Refrigerants
- HVAC&R

Automobile& I C Engine

- Variable Compression Ratio Engines
- Ethanol Blended Petrol Fuel Cars
- Bio-Diesel Engines
- Electric Driven Vehicles
- Emission Control
- Liquid Nitrogen and Split Combustion

Robotics, Automation & Mechatronics

- Artificial Intelligence
- Automation Tools & Technologies
- Control and Mechatronic Systems
- Machine Automation Technology
- Robotics and Applications
- Automation in Manufacturing
- FMS

Materials & Manufacturing

- Conventional Machining
- Un Conventional Machining
- Micro and Nano Manufacturing
- Advances in Welding/Casting/Forming Processes
- Composite Materials
- Powder Metallurgy
- Nano Materials Processing
- Materials Characterization



REGISTRATION FEE DETAILS	
Authors/Delegates	Fee
Delegates from Foreign	\$ 300/-
Delegates from Academia	₹ 5000/-
Delegates from Industry	₹ 6000/-
Research Scholar	₹ 4000/-
B.Tech Students	₹ 2000/-
Conference Attendees	₹ 1500/-
Participants in poster presentation	₹ 500/-

Note: The Industry delegates are most welcome to present the case studies related to their R & D activities/Important on going activities. In addition to attending the technical Session delegates will be provided tea and snacks and lunch.

Accommodation

The institute will not be able to provide any accommodation in the campus. The list of the hotels along with the phone numbers and tariff may be seen on the conference website.

Call for Posters

The organizing committee of ICCEMME-2019 invites poster presentation from students, research scholars, academicians and industry professionals on any theme of the conference. Posters are not formal publications hence, work submitted may be published in other events. Participants are required to prepare the poster as per the Conference Guidelines available on conference website. Participants need to submit the abstract and need not submit the full-length paper. A panel of judges shall evaluate the posters on the basis of content, design, originality, and contribution to the theme of the conference. Cash prizes as mentioned below will be awarded to the top 3 poster presenters at the Valedictory Ceremony while a certificate of participation will be given to all the poster presenters.

First Prize ₹ 10,000	Second Prize ₹ 7,000	Third Prize ₹ 5,000
----------------------	----------------------	---------------------

Abstracts of posters (not exceeding 250 words) may be submitted online through the link provided on conference website. Deadline for Poster submission is 20th March 2018.

Call for Papers

Original unpublished papers are invited on the prescribed format available on the conference website. The paper should have abstract of not more than 150 words with 4-6 keywords. The abstract, figures and tables should be accommodated within the prescribed pages of manuscript. Submitted papers will be peer reviewed by review committee. The accepted papers will be published in conference proceedings.

- Selected papers will be published in **Scopus indexed journal** as per recommendations from review committee.

The papers will be published after presentation by at least one of the registered authors. Certificate of participation and a souvenir will be given to all the authors who attend the conference. Three papers will be selected and awarded for "Best Paper award" in the valedictory session. For details kindly our visit website: <http://www.glbitm.org/iccemme/>

The important dates regarding paper submission are given below.

IMPORTANT DATES:	
Full Paper Submission Starts	20 th December, 2018
Full Paper Submission Ends	30 th January, 2019
Last Date for revised paper submission	20 th February, 2019
Notification of Acceptance	2 nd March, 2019
Last Date for Registration	15 th March, 2019



Souvenir Publication

A souvenir will be published with messages of the reputed personalities. Further details and tariffs of Sponsorships, Exhibitions and Advertisements are given below.

Sponsorships and Exhibitions		
Packages	Tariff	Facility
Golden sponsorship of conference	₹ 2,00,000/-	<ol style="list-style-type: none">1. Banner on the main entry Gate2. Display of 5 min. video during Inaugural Session.3. Five Delegates will be allowed to attend all Sessions of Conference.4. One full page advertisement.
Silver Sponsorship of Conference	₹ 1,00,000/-	<ol style="list-style-type: none">1. Banner outside the Conference Hall.2. Announcement during Inaugural Session.3. Three Delegates will be allowed to attend all Sessions of Conference.4. One full page advertisement.
Sponsorship of any main theme of Conference and related Technical session	₹ 80,000/-	<ol style="list-style-type: none">1. Banner during the session of the theme.2. Announcement during the Session3. Two Delegates will be allowed to attend all Sessions of Conference
Exhibition outside the hall	₹ 70,000/-	Display of Products and Posters
Advertisements		
Packages	Tariff	Facility
Back Page Outer Side Full Page Advertisement	₹ 60,000/-	Coloured Full Page Advertisement will be published
Back Page Inner Side Full Page Advertisement	₹ 50,000/-	Coloured Full Page Advertisement will be published
Front Page Inner Side Full Page Advertisement	₹ 50,000/-	Coloured Full Page Advertisement will be published
Full Page Advertisement Inside Souvenir	₹ 40,000/-	Coloured Full Page Advertisement will be published
Half Page Advertisement Inside Souvenir	₹ 20,000/-	Coloured Half Page Advertisement will be published

2nd International Conference

on

Computational & Experimental Methods in Mechanical Engineering

(ICCEMME-2019)

May, 3 - 5, 2019

Registration Form

Full Name: _____

Designation: _____

Qualification: _____

Affiliation: _____

Category: Academicians Industry Student

Gender: Male Female

Address: _____

Mobile No:

Email: _____

Title of the Paper: _____

Details of the Registration Fees:

Mode of Payment: NEFT RTGS CASH DD

Bank Name: _____ Amount:

Transaction/DD No. _____ Date _____

Date:

Signature

Note: Payment to be made through Demand Draft/NEFT/RTGS in favour of "G.L. Bajaj Institute of Technology & Management" payable at Greater Noida. Please keep the printed details of fee receipt which will be submitted at the time of physical registration at conference venue.

Payment Details - RTGS/NEFT Transfer:

Account No. : **88953070002389**

Account Name: **G.L. Bajaj Institute of Technology & Management**

IFSC Code: **SYNB0008895**

Bank Name: **SYNDICATE BANK**

Address: **Gamma Shopping Complex, Greater Noida**

For any query, kindly e-mail at: convener.iccemme@gmail.com or contact us on the following number given below

• **Prof. V.R. Mishra**

+91-9818887502

• **Mr. Nagendra Kr. Maurya**

+91-8802379303

• **Mr. Rohit Sahu**

+91-9953317994

• **Prof. Satish Chand**

+91-9971765584

• **Mr. Avdhesh Tyagi**

+91-9911236770

• **Dr. Sumit Tiwari**

+91-8586985510

• **Dr. Param Singh**

+91-7355477464

About New Delhi

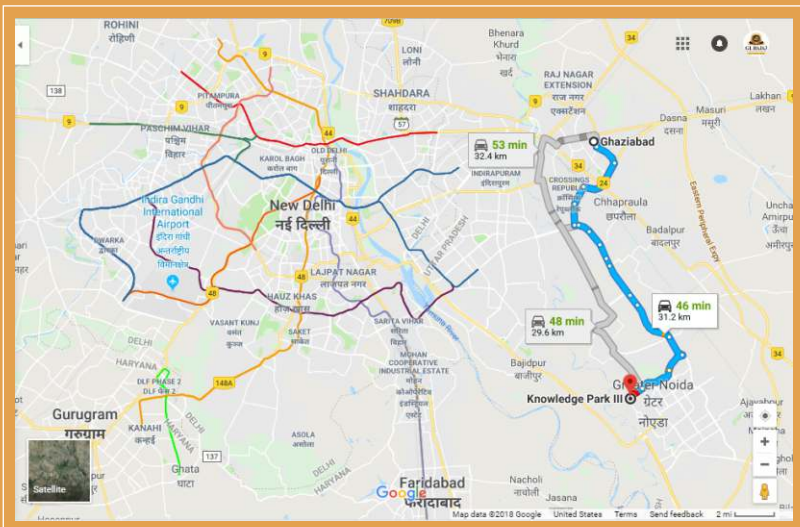
New Delhi is the capital of India. It is situated in the north-central part of the country on the west bank of the Yamuna River. The city is popular for its enriched culture and heritage. The grand avenues and stately buildings of New Delhi are rich with history and culture. A symbol of the country's rich past and thriving present, it is a place that not only touches your pulse but even fastens it to a frenetic speed. Delhi is one of the most historic capitals in the world and two of its monuments - the Qutab Minar and the Humayun's Tomb, have been declared as World Heritage Sites. The Red Fort, India Gate, Jantar Mantar, Rashtrapati Bhawan, Akshardham Temple and the Lotus Temple are also great places to visit and give an idea of its multi-faceted culture. Delhi Tourism's major festivals-namely, the International Kite Festival, Magic Festival, Itra and Sugandhi Mela, Mango Festival, Dilli ke Pakwaan, and Garden Tourism Festival are becoming an integral part of Delhi's cultural heritage.

Other places near New Delhi

People think Agra is just for Taj Mahal. But, it is an enthusiast place having amazing sites. Agra was the capital of the great Akbar. Thus, there are a lot of architectural marvels to enjoy here that are related to Persian style. The iconic tourism destination is the world wonder, Taj Mahal. Agra still has the colourful medieval look. The narrow lanes, modern era hustle and local amusement would attract the visitors. With fast trains, it is easier to visit Agra from Delhi. People usually visit Agra for a day or two to enjoy all the attractions. Starting from the local relishing cuisine to Indo-Persian architecture, there are a lot of adventures in this land.

Mathura and Vrindavan are also other places to visit as there is abundances of temples in these cities.

How to reach G.L. Bajaj Institute of Technology and Management, Greater Noida



Venue

STG Auditorium

Academic Block-2
Plot No. 2, Knowledge Park-3, Greater Noida-201306

Phone No: 0120-2323818