

## Preamble

A substantial fraction of the national growth of the 21st century has been derived from advances in science and technology and their applications in manufacturing, infrastructure, energy, health, environment, information and communication technologies, resource management and many other sectors through mastering the adoption, adaptation and advancement of existing technologies, as well as the creation of new ones. Innovation refers to the full range of changes, large and small, used to achieve desired outcomes and innovation often results from basic research that can lead to groundbreaking discoveries and inventions.

The cardinal point of importance of the conference aims at enriching and enhancing the quality of innovation research of the issues at the core of national growth through developments in the sectors of science and technology by managing those applying modern scientific management techniques and conveying them through effective and efficient communication skills. Innovations will be essential in combating the challenges which cause hindrances to National Growth. The proposed conference will put an honest attempt to meet up the expectations of the common people in developing the nation through innovations.

## The Institute

Bhilai Institute of Technology initiated by few notable stalwarts of central India in 1986 has now evolved as one of the premier Technical and Management Institute of this part of the country imparting quality education and providing environment for academic research. BIT campus has a conducive and supportive academic ambience facilitating high quality education and research for about 3000 students of graduate, post graduate and doctoral programmes. Five of its undergraduate programs have been accredited once gain in 2017 by the National Board of Accreditation (NBA) and the institute itself has been A grade accredited by the National Accreditation and Assessment Council (NAAC) in 2017. The institute stands in 150-200 NIRF rank - band in the category of Engineering in 2018 rankings. The institute has an installation of ISO 9001:2015.

BIT is well connected through Rail network as well as Air network of the country. BIT is at about 1km distance from the Durg Railway station on Howrah-Mumbai line and is about 45 km away from the Swami Vivekananda Airport at Raipur, the capital city of Chhattisgarh state.

## The Department

The Department of Mechanical Engineering was established in 1986 along with the inception of institute, with a vision to become a centre of excellence in the field of Mechanical Engineering and to develop an ambience of contemporary learning to produce dedicated personnel committed to cater to the growing technological demands of the society thereby contributing towards nation building. The Department offers B.E. in Mechanical Engg., M.Tech in Production Engg. and Ph.D in Several areas of specializations in the discipline. B.E. (Mech. Engg.) Programme is accredited by National Board of Accreditation (NBA), India thrice in 2005, 2012 and 2017. It is also approved as a research centre by CSVTU, Bhilai and an authorized centre for material testing. The Department has patents to its credit on research work. The department focus on educating, preparing, inspiring and mentoring students to excel as professionals. Students are trained in specialized facilities like CNC, Robot, and Advanced software like ProE, ANSYS, ADAMS, CATIA, Simul@8 etc. The backbone of the department is excellence in terms of faculty, infrastructure, lab equipments, research, teaching and placements. The department also houses the central workshop as an institute central facility to develop manufacturing and fabrication skills. Fittingly called the "Evergreen Branch" the department has kept itself up-to-date with latest development and trends in the field and has become the mainstay of the institute

## Conference Objective

This conference is designed to disseminate the latest research findings and advances in the Mechanical Engineering. Its aim is to provide opportunities for discussion and information sharing platform for academicians and researchers from various organizations, investors and industrialists regarding their funding, technology, policies and services. The conference provides an opportunity for the most policy makers, top managers, researchers, practitioners and educators to present and discuss the most recent innovations, trends and concerns as well as practical challenges encountered and solutions adopted in the field of Mechanical Engineering. This peer-reviewed conference emphasis on publishing quality papers rapidly and available to researchers worldwide.

## Themes and Sub Themes

The theme of the conference hosted by Department of Mechanical Engineering would be "Futuristic Trends in Mechanical Engineering" in tune with the main theme "Futuristic Trends in Science, Technology and Management for National Development", but not limited to:

- Macro and Micro Heat Transfer
- Air Conditioning & Refrigeration
- New and Renewable Energy
- Fluid Mechanics & Fluid Machinery
- Developing sustainability indicators
- Robots & New Technologies/ concept,
- Development in Aerospace and Automobile Engg.
- Product sustainability
- Welding technology
- Rheology
- Cryogenic
- Indian Manufacturing Scenario
- TQM/TPM/QA/QC
- CAD/CAM Software packages used in Production,
- Concurrent Production
- Green Manufacturing and Supply Chain Management

# BITCON 2019

*Futuristic Trends in Science, Technology & Management for National Development*

## NATIONAL CONFERENCE ON Futuristic Trends in Mechanical Engineering

*Conducted By  
Department of  
Mechanical Engineering*

1<sup>st</sup> March 2019

## REGISTRATION FORM

Name : .....  
Designation : .....  
Organization : .....  
Mailing Address : .....  
Mobile : .....  
E-mail : .....  
Phone : .....

## Details of Registration Fees:

DD Drawn on:  
Amount (in Rs.):  
Demand Draft No. :  
Date:

Date:

Place: **Signature of Applicant**

The applicant is sponsored for the conference. He/She is permitted to attend the conference.

Date:

Place:

**Signature and Seal of  
Sponsoring Authority**

## Chief Patrons

<b>Shri Vijay Kumar Gupta</b>	Chairman (Governing Body), BIT Trust
<b>Shri I.P. Mishra</b>	Ex-GM, Bhilai Steel Plant & Member Secretary, BIT Trust

## Patron

<b>Dr. Arun Arora</b>	Principal, BIT, Durg.
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## Co-ordinator

<b>Dr. M.V. Padmavati</b>	Dean (R&D), BIT, Durg.
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## Advisory Committee

<b>Dr. M.K. Verma</b>	Vice Chancellor, CSVTU, Bilhail
<b>Prof. Shailendra Saraf</b>	Vice Chancellor, Durg University
<b>Dr. R.P. Dubey</b>	Vice Chancellor, CVRU, Bilaspur
<b>Dr. Deepankar Choudhary</b>	Professor, IIT Mumbai
<b>Dr. R.L. Shrivastava</b>	Professor, YCCE Nagpur
<b>Dr. K.K. Ghosh</b>	Professor, RSU Raipur
<b>Dr. S.P.S. Rajpoot</b>	Professor, MNIT Bhopal
<b>Dr. G.V.V. Sharma</b>	Professor, IIT Hyderabad
<b>Dr. Deepak Garg</b>	Professor, Bennett University, Noida
<b>Dr. Tassanee Prueksasit</b>	Professor, Chulalongkorn University, Thailand
<b>Dr. S.K. Ganguly</b>	Dean (Quality Management), BIT, Durg
<b>Dr. Manisha Sharma</b>	Dean (Academics), BIT, Durg
<b>Dr. Mohan Gupta</b>	Dean (Infrastructure Development), BIT, Durg
<b>Dr. Santosh Sar</b>	Dean (Students Welfare), BIT, Durg
<b>Dr. Anup Mishra</b>	Dean (Administration), BIT, Durg

## Coordinating Committee

<b>Dr. Manoj Pal</b>	<b>Mr. Vikas Pandey</b>
<b>Mr. Mousam Sharma</b>	<b>Mr. Pawan Patnaik</b>
<b>Dr. Sumita Nair</b>	<b>Mr. Prashant Sahu</b>
<b>Dr. Anjana Shekhar</b>	<b>Dr. Anindita Chakraborty</b>
<b>Mr. Amit Biswas</b>	<b>Mr. Hitesh Sharma</b>
<b>Dr. Arun Sahu</b>	<b>Dr. Daljeet Singh Wadhwa</b>
<b>Dr. G.C. Biswal</b>	

## Convener

<b>Dr. S. K. Ganguly</b>	HOD (Mechanical Engineering)
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## Organizing Secretary

**Mrs. Shabana Naz Siddique**

## Organizing Committee

<b>Dr. (Mrs.) Shiena Shekhar</b>	<b>Mr. Yogesh Kr. Sahu</b>
<b>Dr. Manoj Kr. Pal</b>	<b>Mr. Manish Kr. Pandey</b>
<b>Dr. Raghendra Banchhor</b>	<b>Mrs. Anjul Rai</b>
<b>Dr. (Mrs.) Shubhrata Nagpal</b>	<b>Mr. Shekhar Sahu</b>
<b>Dr. Mukesh Dubey</b>	<b>Mr. Khilesh Kumar</b>
<b>Mr. S. K. Sao</b>	<b>Mr. Vinay Kr. Sahu</b>
<b>Mr. Devesh Shrivastava</b>	<b>Mr. Pileshwar Chandrakar</b>
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<b>Mr. Jitendra Chauhan</b>	<b>Mr. Ravi Chugh</b>
<b>Mr. Santosh Kr. Mishra</b>	<b>Mr. Devendra Dhole</b>
<b>Mr. Prem Shankar Sahu</b>	<b>Mr. Sanjay Mishra</b>

## Important Dates

Submission of full length papers	: 15 <sup>th</sup> February 2019
Intimation of acceptance deadline	: 17 <sup>th</sup> February 2019
Receipt of registration fees	: 20 <sup>th</sup> February 2019

## Registration Fees

Research Scholar/PG student	: Rs. 500/-
Faculty Member	: Rs. 800/-
Professional from Industry	: Rs. 1000/-
UG Student	: Rs. 300/-

1. All the payments should be made by a crossed Demand Draft in favor of "Bhilai Institute of Technology" payable at "Durg".
2. NEFT or at Bank Counter

**Beneficiary Account Number** : 32471126372

**Beneficiary Name** : Bhilai Institute of Technology, Durg

**Bank** : State Bank of India, Sector-10, Bhilai

**Address** : Alka Departmental Stores, Sector-10, Bhilai (C.G.)

**IFSC Code** : SBIN0006942

*(No TADA will be paid from the Institute)*

## Address for Correspondence

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## Eligibility

Academicians, Consulting Engineers, R&D Institutes, Government Departments and Agencies, Private Companies, Research Scholars and P.G. Students.

## Call for Papers

Selected papers will be published in indexed Journals. Prospective authors are requested to submit their full papers in MS Word format by E-mail to the addresses of correspondence. Please find the attached template for further preparation of manuscript at [www.bitdurg.ac.in/bitcon2019](http://www.bitdurg.ac.in/bitcon2019).

# BITCON 2019

*Futuristic Trends in Science, Technology &  
Management for National Development*

**NATIONAL CONFERENCE  
ON**

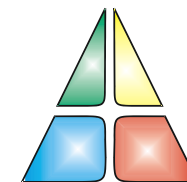
**Futuristic Trends in  
Mechanical Engineering**

**1<sup>st</sup> March 2019**



*Organized By*

**Department of  
Mechanical Engineering**



**ASPIRE TO EXCEL**

**BHILAI INSTITUTE OF TECHNOLOGY, DURG**

(Seth Balkrishnan Memorial)

Accredited with 'A' Grade by NAAC

NIRF 17-18 RANK-BAND: 151-200

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