

Preamble

At the moment, Corona virus (Covid-19) is throwing new challenges to scientific community. This global pandemic has brought Nations together to find a solution. New solutions are coming up continuously to combat the current challenges. In this situation BIT, Durg stands strong with the institute Motto “Aspire to Excel”.

The streamed conference is the need of present situation with the cardinal point of importance of the conference aiming at exploring New Horizons in Science, Technology and Management to Combat Current Challenges through innovative research. 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 ground-breaking discoveries and inventions. This will be essential in combating the ongoing challenges which cause hindrances to National Growth.

The proposed online conference will make an honest attempt to meet up the expectations and may become a viable option to take a way forward towards “ATMA NIRBHAR BHARAT”.

The Institute

Bhilai Institute of Technology initiated by notable stalwarts of central India in 1986 with a vision to become one of the Premier Technical and Management Educational Institutions in the Country, delivering excellent professional education, creating value based, globally competitive professionals and achieving excellence in all our endeavors.

BIT campus has a conducive and supportive academic ambience facilitating high quality education and research for more than 4000 students of bachelors, masters and doctoral programs. BIT, Durg is the first technical institute in the state to be conferred Autonomous Status by UGC, Government of India. Seven of its undergraduate programs have been accredited by NBA and the institute itself has been “A” grade accreditation by NAAC. The institute stands in NIRF 2020 Rank-band: 251-300 in the category of Engineering. Under AICTE Margdarshan Scheme, the institute is mentoring ten technical institutions to encourage best practices.

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. It is also approved as a research centre by CSVTU, Bilhail and an authorized centre for material testing. The Department has patents to its credit on research work. The department focuses 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 if 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 “New Horizons in Mechanical Engineering to Combat Current Challenges” in tune with the main theme “New Horizons in Science, Engineering and Management to Combat Current Challenges”, 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 2020

*New Horizons in Science, Engineering and Management to
Combat Current Challenges*

**NATIONAL CONFERENCE
ON
New Horizons in Mechanical Engineering to Combat
Current Challenges**

*Conducted By
Department of Mechanical Engineering*

20TH November 2020

REGISTRATION FORM

Name :
Designation :
Organization :
Mailing Address :
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

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

Patron

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

Dr. M.V. Padmavati	<i>Dean (R&D), BIT, Durg.</i>
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Dr. G.V.V. Sharma	Professor, IIT Hyderabad
Dr. Souradyuti Paul	Professor, IIT Bhilai
Dr. Deepak Garg	Professor, Bennett University, Noida
Dr. Dilip Singh Sisodia	Professor, NIT Raipur
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Dr. Manisha Sharma	Dean (Academics), BIT, Durg
Dr. Mohan Gupta	Dean (Infrastructure Development), BIT, Durg
Dr. Santosh Sar	Dean (Student Welfare), BIT, Durg
Dr. Anup Mishra	Dean (Administration), BIT, Durg

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Convener

Dr. (Mrs.) Shiena Shekhar	HOD Mechanical
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Dr. Devesh Shrivastava

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Mr. Perm Shankar Sahu	Mr. Sanjay Mishra

Important Dates

Submission of full length papers	: 31 st October 2020
Intimation of acceptance deadline	: 07 th November 2020
Receipt of registration fees	: 15 th November 2020

Registration Fees

Research Scholar/PG student	: Rs. 500
Faculty Member	: Rs. 800
Professional from Industry	: Rs. 1000
UG Student	: Rs. 200

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 TA/DA 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 UGC 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/bitcon2020.

BITCON 2020

New Horizons in Science, Engineering and Management to Combat Current Challenges

NATIONAL CONFERENCE

ON

New Horizons in Mechanical Engineering to Combat Current Challenges

20th November 2020



Organized By

Department of Mechanical Engineering



BHILAI INSTITUTE OF TECHNOLOGY, DURG

(Seth Balkrishan Memorial)

BHILAI HOUSE, DURG 491001 (C.G) INDIA

1st Autonomous Technical Institution in Chhattisgarh

Accredited with 'A' Grade by NAAC

NIRF 2020 RANK-BAND: 251-300

Website: <http://www.bitdurg.ac.in/>

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