

Preamble

National Education Policy (NEP) 2020 aims at innovative and multidisciplinary learning. AICTE is establishing IDEA LAB in different institutions across India to increase multidisciplinary approach among faculty and students. As a common facility embedded in the institution, the IDEA Lab will make students, faculty and researchers more imaginative and creative, besides getting basic training in the 21st-century skills like- critical thinking, problem-solving, research, collaboration, communication, lifelong learning, etc. The IDEA Lab also intends to encourage teachers to conduct “multidisciplinary education and research” emphasized in the NEP 2020.

Being the part of IDEA lab initiative by AICTE, this online conference is aiming at exploring MULTIDISCIPLINARY RESEARCH IDEAS IN SCIENCE, ENGINEERING AND MANAGEMENT through innovative research.

The Institute

Bhilai Institute of Technology, Durg is 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. BIT, Durg is selected by AICTE to establish IDEA Lab in 2021. BIT, Durg is introducing two new under graduate courses B. Tech (CSE) in Data Science and B. Tech (CSE) in Artificial Intelligence from the academic session 2021-22.

The Department

The Department of Mechanical Engineering was established in 1986 along with the inception of the institute. It is one of the largest departments in the institute and offers B.Tech in Mechanical Engineering, M.Tech (Production Engineering) and Ph.D. in several areas of specializations in the discipline. The department also has a reputation of getting cream students of great academic potential in Chhattisgarh region through CGPET admission. B.Tech. (Mechanical Engineering) programme is accredited by the National Board of Accreditation (NBA), India thrice in 2005, 2012 & 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 backbone of the department is excellence in terms of faculty, infrastructure, lab equipments, research, teaching and placements. Departmental library is available to the students apart from Central library with sufficient number of books for the convenience of easy accessibility. The department focuses on educating, preparing, inspiring and mentoring students to excel as professional. Student are trained in specialized facilities like CNC, 3D Printer, Robot, and advance software like ProE, ANSYS, ADAMS, CATIA, simul@8 etc. The department also house the central workshop as an institute central facility to develop manufacturing and fabrication skills.

Conference Objective

The objective of this Conference “**Multidisciplinary Research Ideas in Mechanical Engineering**” is to provide a platform for scientist and academicians all over the country to promote, share and discuss various new issues, research ideas and development in different areas of Mechanical Engineering. It is peer reviewed conference and aims to provide the most complete and reliable source of information on current development of field of mechanical engineering. The emphasis will be on publishing quality paper and make it available to researchers worldwide.

Themes and Sub Themes

The theme of the conference hosted by Mechanical Engineering would be “Multidisciplinary Research Ideas in Mechanical Engineering” but not limited to:

- Industry 4.0
- Nanotechnology
- CFD based modeling
- Rapid Prototyping Technology
- Development in Aerospace and automobile Engineering
- Advance manufacturing technique
- CAD/CAM/CAE
- Green manufacturing and supply chain Management
- Product sustainability
- Welding technology
- Quality management
- Macro and micro heat transfer
- Air Conditioning Refrigeration
- New and renewable energy
- Cryogenic
- Fluid mechanics and Fluid machinery
- Robots and new technology concept
- Rheology
- Environment, sustainability and Mechanical Engineering
- Concurrent Engineering
- Micro Electro Mechanical Systems (MEMS)
- Digital Twin Technology

BITCON 2021

Multidisciplinary Research Ideas in Science, Engineering and Management

NATIONAL CONFERENCE ON

Multidisciplinary Research Ideas in Mechanical Engineering

Conducted By

Department of Mechanical Engineering

22nd and 23rd October 2021

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

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Shri I.P. Mishra *Ex-GM, Bhilai Steel Plant & Member Secretary, BIT Trust*

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Mr. Sanjay Mishra

Important Dates

Submission of full length papers : 1st October 2021
Intimation of acceptance deadline: 7th October 2021
Receipt of registration fees : 15th October 2021

Registration Fees

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

Participation certificate will be issued only to registered candidates.

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

The template for preparation of manuscript for BITCON 2021 is available at www.bitdurg.ac.in/BITCON. Papers in proper format and with plagiarism similarity score not more than 35% will only be included in the BITCON 2021 proceedings.

Selected papers with plagiarism similarity score not more than 10% will be sent for publication in reputed journals. Such manuscripts may have to be revised, initially as per the format of the journal and later as per reviewer comments (if any).

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ON**

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

