

## 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 Electrical and Electronics Engineering Department came into existence in the year 2007; Electrical & Electronics Engineering is one of the NBA accredited departments of the Institute. Adequately qualified, dedicated faculty and the skilled supporting staff are the strength of the department. The curriculum is a blend of two courses which are crucial to many day-today engineering applications. The department also runs M. Tech Programme in Electrical Power and Energy System. Electrical & Electronics Engineering Department has been actively involved in research and paper publications in reputed journals in all the fields of Electrical as well as Electronics Engineering. The department has well equipped labs and library to cater to the needs of the curriculum.

## Conference Objective

The conference on **Smart Technologies in Electrical and Electronics Engineering** aims to bring together leading academic experts and research scholars to pool ideas and their findings in research results in context to smart Technological developments in the applications of Electrical and Electronics Engineering. It also provides the paramount interdisciplinary and multidisciplinary forum for researchers, students and educators to present and discuss the smart innovations, designs, trends to meet concurrent challenges encountered in the domain of Electrical and Electronics Engineering.

## Themes and Sub Themes

The theme of the conference hosted by Department of **Electrical and Electronics Engineering** would be “Smart Technologies in Electrical and Electronics Engineering,” in tune with the main theme, following is the list of sub-themes but not limited to: Smart Technologies in

- ❖ Advanced Control Systems
- ❖ Electric vehicles, drives and applications
- ❖ Power market and power system economics
- ❖ Power system Smart Grid
- ❖ Simulation and analysis HVDC and FACTS
- ❖ Wind, solar and renewable energy
- ❖ Soft-computing techniques and applications
- ❖ Industrial Process Control and automation
- ❖ Communication systems
- ❖ Microcontrollers and Embedded systems
- ❖ High voltage engineering
- ❖ Bio-Medical Circuits and Systems Signal Processing.
- ❖ Simulation and computational techniques in Engineering Research
- ❖ IOT
- ❖ PLC and instrumentation

# BITCON 2021

*Multidisciplinary Research Ideas in Science,  
Engineering and Management*

**NATIONAL CONFERENCE  
ON**

**Smart Technologies in Electrical and  
Electronics Engineering**

*Conducted By*

*Department of Electrical and Electronics Engineering*

**22<sup>nd</sup> & 23<sup>rd</sup> 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**

## Chief Patrons

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

## Patron

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**Dr. Mohan Kumar Gupta** *Principal, BIT, Durg.*  
**Dr. Manisha Sharma** *Vice-Principal, BIT, Durg.*

## Coordinator

**Dr. M.V. Padmavati** *Dean (R&D), BIT, Durg.*

## Co-coordinator

**Dr. Pawan Patnaik** *Associate Professor, BIT, Durg.*

## Advisory Committee

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**Dr. R. P. Dubey** *Vice Chancellor, CVRU, Bilaspur*  
**Dr. R. P. Vasani** *Director, SAL Technical Campus, Ahmedabad*  
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**Dr. Anindita Chakraborty** **Prof. Sargam Gupta**  
**Dr. Prashant Sahu** **Mr. Vivek Vardhan Sahu**

## Convener

**Dr. (Mrs.) Surekha Bhusnur** *Professor & Head, Dept. of EEE*

## Organizing Secretary

**Mr. Mousam Sharma**

## Organizing Committee

- Mr. Mukesh Kumar Chandrakar,**
- Mrs. Alka Mishra,**
- Mr. Abhijeet Lal,**
- Mr. Abhishek Agrawal,**
- Mrs. Naushin Anjum,**
- Mr. Brahma Nand Thakur,**
- Mrs. Ritu Tripathi.**

## Important Dates

Submission of full length papers : **1<sup>st</sup> OCTOBER 2021**  
Intimation of acceptance deadline : **7<sup>th</sup> OCTOBER 2021**  
Receipt of registration fees : **15<sup>th</sup> 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.**

- All the payments should be made by a crossed Demand Draft in favor of "Bhilai Institute of Technology" payable at "Durg".
- 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](http://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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ASPIRE TO EXCEL

**BHILAI INSTITUTE OF TECHNOLOGY, DURG**

(Seth Balkrishan Memorial)

BHILAI HOUSE, DURG 491001 (C.G) INDIA

1<sup>st</sup> Autonomous Technical Institution in Chhattisgarh

Accredited with 'A' Grade by NAAC

NIRF 2020 RANK-BAND: 251-300

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

