

## 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 ground breaking 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 was conceived in the year 1986 along with the inception of the Institute with an aim to provide scopes to build the foundation stones for higher studies in Engineering and other allied fields. The laboratories are well equipped with modern experiments and computational facilities. The R&D lab has been recognized as first approved research centre in applied Physics for Ph.D. programme by CSVTU, in Chhattisgarh state. Three candidates have been awarded and the rest are working for submission of their thesis. Research projects are undertaken by the faculty members in graduation and post graduation levels also. Learned faculty members act as an author and a reviewer in reputed international and national journals and their project work are supported by UGC-DAE Consortium and CCOST for Scientific Research. Through scientific and technical excellence, they are committed towards enhancing the Nation's ability to compete globally.

## Conference Objective

The national conference is a paramount platform which has technical revolution and sustainable development of science and technology. Keeping in the pace with current developments made in the field of advanced materials and nanotechnology, this conference will be focusing on their future perspectives. The main objective of the conference is to provide a platform for researchers, developers, and academicians to exchange and share their valuable ideas and research concepts leading to the development of advanced materials. The conference consists of invited talks and contributed papers on the focal theme as well as in allied areas to promote research & education in Physics and to create awareness about new innovations among concerned students & research scholars. The intellectual exchange at this conference is expected to lead to collaborations between leading scientists and researchers in the field of advanced materials and shape the future directions of the field.

## Themes and Sub Themes

**Themes and Sub themes** but not limited to:

- Material Science & Engineering
- Novel Synthesis, Materials process Engineering
- Nanotechnology, Advanced nanomaterials & Microstructures
- Electronic, Optical and Magnetic Materials
- Surfaces, Coatings and Thin Films
- Ceramics, Glasses & Composite Materials
- Nanotechnology for Energy and Environment
- Spectroscopic techniques.
- Crystallographic studies.
- Materials Chemistry
- Nanoengineering and its applications
- Computational Modeling of Materials
- Adhesive materials Mining and Metallurgy
- Agro and Bio Materials and Healthcare

# BITCON 2019

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

## NATIONAL CONFERENCE ON Current Trends & Future Perspectives of Advanced Materials and Nanotechnology

*Conducted By*

*Department of Applied Physics*

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

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<b>Prof. Shailendra Saraf</b>	Vice Chancellor, Durg University
<b>Dr. R.P. Dubey</b>	Vice Chancellor, CVRU, Bilaspur
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<b>Dr. S.P.S. Rajpoot</b>	Professor, MNIT Bhopal
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<b>Dr. Santosh Sar</b>	Dean (Students Welfare), BIT, Durg
<b>Dr. Anup Mishra</b>	Dean (Administration), BIT, Durg

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<b>Dr. Arun Sahu</b>	<b>Dr. Daljeet Singh Wadhwa</b>
<b>Dr. G.C. Biswal</b>	

### Convener

<b>Dr. (Mrs.) Ruby Das</b>	HOD (Applied Physics)
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### Organizing Secretary

<b>Mr. C.S. Robinson</b>
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### Organizing Committee

<b>Dr. Samit Tiwari</b>
<b>Dr. Rajesh Lalwani</b>
<b>Mr. Prashant Sahu</b>
<b>Dr. Raunak Ku. Tamrakar</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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*Professor,*

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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).

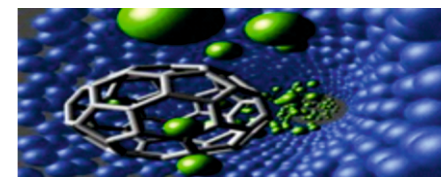
# BITCON 2019

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

**NATIONAL CONFERENCE  
ON**

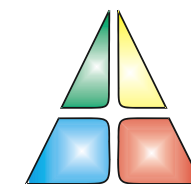
**Current Trends & Future  
Perspectives of Advanced  
Materials and Nanotechnology**

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



*Organized By*

***Department of Applied Physics***



**ASPIRE TO EXCEL**

**BHILAI INSTITUTE OF TECHNOLOGY, DURG**

(Seth Balkrishnan Memorial)

Accredited with 'A' Grade by NAAC

NIRF 17-18 RANK-BAND: 151-200

An ISO 9001:2015 CERTIFIED INSTITUTION

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