

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. Four of its undergraduate programs have been accredited once again 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 also 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 Mathematics in BIT, Durg, since its very inception, has strived to be a centre of excellence in mathematics and computing, and it has been vigorously engaged in research, teaching and training supported by highly qualified, trained and dedicated team of faculty and staff. The faculty members are actively involved in research activity in the areas of Celestial Mechanics, Theory of Relativity, Functional Analysis, Fractal theory, Fuzzy Logic etc. The department of Applied Mathematics has been recognized as research centre by Chhattisgarh Swami Vivekanand Technical University Bhilai for offering Ph.D. programme.

Conference Objective

The scientific and technological developments over the past century have widened the range of human knowledge and capabilities to new extremities. However, still there remains an infinity of unknown in all the field of science especially mathematics. These challenges have to be addressed by creating opportunities for the interaction among the highly experienced researchers and highly motivated members of the Mathematical society. There by exploring the emerging and also yet unexplored avenues of mathematics requiring solutions in both basic and applied areas.

Themes and Sub Themes

The theme of the conference is "Frontier areas of Mathematics with application in real world problems".

Topics include but not limited to:

- Mathematical Modeling
- Celestial Mechanics
- Theory of Relativity
- Appl. Fluid Mechanics
- Appl. Functional Analysis
- Fuzzy Logic
- Finite Element Methods
- Computational Numerical Analysis
- Cryptography
- Soft Computational Mathematics

BITCON 2018

*Frontiers in Science, Technology &
Management for National Development*

**NATIONAL CONFERENCE
ON
Frontier areas of Mathematics
with application
in real world problems**

*Conducted By
Department of Applied
Mathematics*

15th February 2018

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**

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

Patron

Dr. Arun Arora	Principal, BIT, Durg.
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Co-ordinator

Dr. M.V. Padmavati	Dean (R&D), BIT, Durg.
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Dr. Ashutosh Narayan	Professor & Head (Applied Mathematics)
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Dr. Anindita Chakraborty	Associate Professor (Applied Mathematics)
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Important Dates

Submission of full length papers	: 25 th January 2018
Intimation of acceptance deadline	: 30 th January 2018
Receipt of registration fees	: 5 th February 2018

Registration Fees

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

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

All accepted 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/bitcon2018.

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BHILAI INSTITUTE OF TECHNOLOGY, DURG

(Seth Balkrishan Memorial)

Accredited with 'A' Grade by NAAC

NIRF 16-17 RANK-BAND: 151-200

An ISO 9001:2015 CERTIFIED INSTITUTION

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