

## Advisory & Technical Committee

Dr. Neeraj Sharma, Professor, IIT BHU  
Dr. O.P. Vyas, Professor, IIIT Allahabad  
Dr. G. R. Sinha, Professor, MIIT Mandalay  
Dr. Anuj Jain, Professor, MNNIT Allahabad  
Dr. Nilotpala Pradhan, Principal Scientist, CSIR- Bhubaneswar  
Dr. Rakesh Kumar Sinha, Professor, BIT Mesra  
Dr. Aparajita Ojha, Professor & Head, IIITDM Jabalpur  
Dr. Ashutosh Kumar Singh, Professor, NIT Kurukshetra  
Dr. Kavita Thakur, Professor, Pt. R. S. U.  
Dr. Deepak Garg, Professor, Bennett university  
Dr. Manisha Sharma, Professor, BIT Durg  
Dr. Arnab Bhattacharya, Associate Professor  
Dr. Ravi Prakash Tewari, Associate Professor, MNNIT Allahabad  
Dr. B. Geethanjali., Associate Professor, SSN college Tamilnadu  
Dr. Deepak Joshi, Assistant Professor, IIT Delhi  
Dr. R. Periyasamy, Assistant Professor, NIT Trichy  
Dr. J. Sivaraman, Assistant Professor, NIT Rourkela  
Dr. Suman Reddy Dabbu, Assistant Professor, Osmania University  
Dr. Abhishek K. Tiwari, Assistant Professor, MNNIT Allahabad  
Dr. Mitul K Ahirwar, Assistant Professor, MANIT Bhopal  
Dr. Sarsij Tripathi, Assistant Professor, MNNIT Allahabad

## Internal Advisory & Technical Committee

Dr. A. B. Soni, Dean (Faculty Welfare)  
Dr. Shrish Verma, Dean (Academics)  
Dr. Shubhrata Gupta, Dean (R & C)  
Dr. R. K. Tripathi, Dean (P&D)  
Dr. P. Diwan, Dean (SW)  
Dr. Mithlesh Atulkar (Registrar, NIT Raipur)  
Dr. B. Mazumder (Chemical Engg.)  
Dr. S. P. Sahu, Head (IT)  
Dr. P. Singh, Head (CSE)  
Dr. Guru Prasad S. C. Mishra, Head (ECE)  
Dr. N. D. Londhe, Head (EE)  
Dr. Kavita Tapadiya (Head, Chemistry)  
Dr. S. Ghosh (EE, NIT Raipur)  
Dr. Anamika Yadav (EE, NIT Raipur)  
Dr. B. Acharya (ECE)  
Dr. Sudhakar Pandey (IT)  
Dr. Priyanka Tripathi (CA)  
Dr. Manju Pandey (CA)  
Dr. T. K. Das (CA)  
Dr. N. K. Nagwani (CSE)  
Dr. Sanjay Kumar (IT)  
Dr. Awanish Kumar (BT)  
Dr. Dilip Sisodia (IT)  
Dr. Mridu Sahu (IT)  
Dr. D. C. Jharia (Applied Geology)  
Dr. Himanshu Govil (Applied Geology)  
Dr. Govind Gupta (IT)

## Organizing Committee

### Chief Patron

Dr. A. M. Rawani, Director, NIT Raipur

### Patron(s)

Dr. Shubhrata Gupta, Dean (R & C), NIT Raipur

### Chairman

Dr. Bikesh Kumar Singh

### Secretary

Dr. Lata S B Upadhyay  
Dr. Neelamshobha Nirala  
Dr Nishant Kumar Singh

## Technical Program Chair (Internal)

Dr. A. Bit, NIT Raipur  
Dr. Saurabh Gupta, NIT Raipur  
Dr. M. Marieswaran, NIT Raipur  
Dr. Sumit Banchhor, NIT Raipur  
Dr. Ashish K Dewangan, NIT Raipur

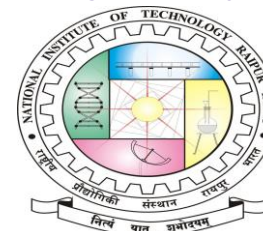
## Student Chairs

|                        |                        |
|------------------------|------------------------|
| Ms. Shraddha Chauhan   | Mr. Yogesh Sharma      |
| Mr. Tejbahadur Chandra | Ms. Divya Singh        |
| Mr. Guhan Seshadri     | Ms. Kushangi Pathak    |
| Ms. Neelam Agrawal     | Mr. Resham Raj         |
| Ms. Sonali Rana        | Ms. Anita Tirkey       |
| Ms. Bhanupriya Mishra  | Mr. Anurag Shrivastava |
| Ms. Padmini Sahu       | Mr. Hardik Thakkar     |

## International Conference on Advances in Biomedical Engineering and Health Informatics

**February 19 – 20, 2022**

*Organized by*



**Department of Biomedical Engineering**

National Institute of Technology Raipur

G.E. Road, Raipur

Chhattisgarh-492010

Website: [www.nitr.ac.in](http://www.nitr.ac.in)



## Address of Correspondence

**Dr. Bikesh Kumar Singh**

**Department of Biomedical Engineering**

[bsingh.bme@nitr.ac.in](mailto:bsingh.bme@nitr.ac.in)

## About the Institution

National Institute of Technology (NIT) Raipur, formerly known as Government Engineering College (GEC) Raipur, is situated in the capital city of Chhattisgarh state. The institute has established its unique identity for the development of high-quality human and knowledge resource in diverse area of technology. It was declared as 'National Institute of Technology' by the Government of India on 1st December 2005 and then an 'Institute of National Importance' in May 2007 vide National Institute of Technology Act 2007. With over six decades of glorious history as a premier technical education institution in India, NIT Raipur now offers 12 UG and 11 PG programs. In addition to the UG and PG programs, NIT Raipur also offers Ph.D. program in 18 disciplines of science and technology.

## About the Conference

The conference aims to provide a forum for researchers, practitioners and professionals from the industry and the academia to share their research trends, findings, and results. The Conference will highlight multidisciplinary perspectives to interested Biomedical Engineers, software engineers and computer professionals, medical professionals, biotechnologists, pharmaceutical experts, sustainability researchers etc. and will also provide a platform for potential knowledge exchange on recent trends, theories and practices in the field of medical science and engineering. Biomedical is one of the emerging fields that can add new and better application in a wide range of sectors like healthcare, service sector, and processing industry to name some. Health research has high value to society. The most familiar form of health research is the clinical trial, but an increasingly large portion of health research is now information based. A great deal of research entails the analysis of data and biological samples. The conference will discuss advancements that is and will enable the researchers to develop better health facilities, huge data processing techniques for medical application and non-invasive diagnosis methodology, produce preventive vaccines and design effective pharmaceutical products to combat diseases, synthesize industrially attractive products etc.

## Call for Papers

Research articles are invited in the following areas of interest, but not limited to:

### Track 1: Health Informatics

- Image Processing/Pattern Recognition
- Machine Learning / Machine Intelligence / Artificial Intelligence
- Soft Computing (AI, Neural Networks, Fuzzy)
- Signal Processing

### Track 2: Biomedical Engineering

- nCOVID-19 research
- Health informatics
- Biomedical Signal Processing
- Medical Image Processing
- Biomedical Instrumentation
- Biomechanics
- Non-Invasive Techniques
- Medical Imaging Physics
- AI & Machine learning in health
- Cognitive Science/Engineering
- Brain Computer Interfaces

### Track 3: Biological Science

- Biomedical materials
- Bio-nanotechnology and clinical application
- Cellular and tissue engineering
- Bioinformatics and Computational Biology
- Biotechnology-based Products
- Clinical Biochemistry and Medical Biotechnology
- Cell Biology and Immunology
- Bio Sensors

### Submission Types

- Research articles
- Review articles\*
- Extended Abstract (for poster presentation)

\*Review articles which include critical evaluation of existing studies, research gaps and future steps in scope of conference will only be considered.

## Important Dates

|                              |   |                 |
|------------------------------|---|-----------------|
| Paper Submission             | : | 30 Nov 2020     |
| Paper Notifications          | : | 30 Dec 2021     |
| Final paper and Registration | : | 10 Jan 2022     |
| Conference Dates             | : | 19-20, Feb 2022 |
| Venue                        | : | NIT Raipur      |

## Registration Process

Interested participants shall pay the registration fee either directly to the bank account through NEFT or send a demand draft (DD) in favor of "Director NIT Raipur". Registration form and payment details are available on the Conference website.

| Category (Author)          | INR   | USD |
|----------------------------|-------|-----|
| Student / Research Scholar | 4,000 | 150 |
| Faculty                    | 6,000 | 200 |
| Industry                   | 7,000 | 300 |

## Publications Opportunities

- ❖ Based on the recommendations of the reviewer(s) the accepted full-length articles will be published in:
  - Scopus/SCI/SCIE indexed journals/conference series
  - UGC care Journals
  - Book chapter in book by reputed publisher
- ❖ The extended abstracts will be published in conference proceedings.

## Highlights

- **Best Technical Paper Award**
- **Best Poster Presentation Award**