

NATIONAL WORKSHOP

On

***“Computational Intelligence and
Blockchain Technology (CIBT-21)”***

04th –08th October, 2021

Organized by

**Department of Computer Science and
Engineering**

**National Institute of Technology,
Raipur**



Chief Patron

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

Patron

Dr. Prabhat Diwan,
Dean (R&C), NIT Raipur

Chairperson

Dr. Dilip Singh Sisodia,
HoD, Department of Computer Science and
Engineering

Course Coordinators

Dr. Preeti Chandrakar
Assistant Professor, NIT Raipur

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Resource Persons

- Dr. Subodh Sharma, Assistant Professor, IIT Delhi
- Dr. Rajat Subhra Chakraborty, Associate Professor, IIT Kharagpur
- Dr. Sugata Gangopadhyay, Professor, IIT Roorkee
- Dr. Arup Kumar Pal, Associate Professor, IIT(ISM), Dhanbad
- Dr. Hari Om, Assistant Professor, IIT(ISM), Dhanbad
- Dr. Dharavath Ramesh, Assistant Professor, IIT(ISM), Dhanbad
- Dr. Abhay Kumar Singh, Associate Professor, IIT(ISM), Dhanbad
- Dr. Debasis Das, Assistant Professor, IIT Jodhpur
- Sai Nikhila (Industry Alamana)
- Dr. Sanjay Panda, Assistant Professor, NIT Warangal
- Dr. Manu Vardhan, Assistant Professor, NIT Raipur
- Dr. Mou Das Gupta, Assistant Professor, NIT Raipur

About the Institute NIT Raipur is situated in the capital of Chhattisgarh, has proven to be "avant-grade" in the field of science and technology over past few decades in this region. With sweet memory of foundation ceremony by President Hon'ble Dr. Rajendra Prasad on 14th September 1956, the institute started with two departments namely Metallurgical and Mining Engineering. From 1st December 2005, the institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi and all metro cities by regular flights and is on the main Howrah-Mumbai railway route. The institute is 5 km from the Raipur railways station and 18 km from airport on NH-6, the Great Eastern Road.

Objectives and Scope

This workshop will provide the core understanding of knowledge and expertise for research scholars, academicians, faculties and industry professionals in the domain of block chain and computational intelligence. The workshop provides the platform to trade off the ideas among researchers, developers, and practitioners. This 5-day workshop will provide the umpteen considerations towards the computational Intelligence and Block Chain. This workshop aims at imparting knowledge and training on the fundamentals of Blockchain and computational Intelligence with different aspects and applications. The lectures will be delivered by eminent experts in their field of computational Intelligence and Block Chain Technology, their applications and implementation, with focus on latest advances in the field. This 5-day course will include theory lectures, and discussions. The contents of this workshop are designed for the faculties of technical institutes and UG/PG/Ph.D. scholars for the enhancement of their knowledge with current advances in the field.

Themes

The short-term training program aims to include the following topics:

- Understanding Blockchain Technology
- Ethereum and Smart Contract
- Basic issues related to blockchains
- Application and verification of Blockchain
- Code Based Cryptography (Post Quantum Cryptography)
- Digital Image Forensics
- Multimedia Security
- Computational Complexity

Target Participants

Faculty members, Research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.), Staff of NIT Raipur

Registration Fee

Participants	Amount (in Rs)
UG/ PG / Ph.D. students	500/-
Internal Faculty of NIT Raipur	
Other Faculty/Industry Delegates	

Note:

- Payment should be made to the following account:
Account No.: 38027633250
Name: Director, NIT Raipur
IFSC: SBIN0002852

NEFT/IMPS should be made in favor of Director, National Institute of Technology Raipur, payable at Raipur (CG), SBI bank, GCET Raipur branch.

For online Registration go through the following link:

https://docs.google.com/forms/d/1w-cyt5TleM5g1Rq_4rMZesNaV3XqckhknTIWT-929vk/edit?usp=sharing

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4th– 8th October 2021



Tentative Schedule

Date	9:30 AM to 9:45 AM	10:00 AM to 11:30 AM	12:00 PM to 1.30 PM	3:00 PM to 4.30 PM
04-10-2021	Inauguration	Session 1 Dr. Sugata Gangopadhyay, IIT Roorkee Basic Issues Related to Blockchains	Session 2 Dr. Hari Om, IIT(ISM), Dhanbad Block Chain Technology	Session 3 Dr. Rajat Subhra Chakraborty, IIT Kharagpur Digital Image Forensics
05-10-2021		Session 4 Dr. Suboth Sharma, IIT Delhi Application and Verification of Blockchain	Session 5 Dr. Debasis Das, IIT Jodhpur Block Chain Technology	Session 6 Sai Nikhila (Industry) Alamana)
06-10-2021		Session 7 Dr. Dharavath Ramesh, IIT(ISM), Dhanbad, Block Chain Technology	Session 8 Dr. K. Jairam Naik, NIT Raipur Edge and Fog for IOT Computing	Session 9 Dr. Sanjay Panda, NIT Warangal Rao Algorithms
07-10-2021		Session 10 Dr. Abhay Kumar Singh, IIT(ISM), Dhanbad Post Quantum Cryptography	Session 11 Dr. Preeti Chandrakar, NIT Raipur Ethereum and Smart Contract	Session 12 Dr. Mou Das Gupta, NIT Raipur Block Chain Technology in MANET
08-10-2021		Session 13 Dr. Arup Kumar Pal, IIT(ISM), Dhanbad Multi-Media Security	Session 14 Dr. Manu Vardhan, NIT Raipur Block Chain Technology	Valedictory Function

Course Coordinators:

Dr. Preeti Chandrakar and Dr. K. Jairam Naik