



About the STTP

Objectives of the STTP Programme: The main objective of this STTP is to help the participants in developing a solid understanding of the Blockchain Technologies and its applications with hands-on experiments using distributed Blockchain platforms such as Ethereum and Hyperledger Fabric etc.

About NIT Raipur

National Institute of Technology Raipur (An Autonomous institute of National Importance) fully funded by the Govt. of India. NIT Raipur is located in Raipur, the Capital City of Chhattisgarh State and spread over an area of approx. 100 acres. The institute is 5 km from Raipur railway station and 14 km from airport on NH-6, the Great Eastern Road. NIT Raipur is ranked 70th in engineering category in India by the NIRF, and it is the highest ranked engineering college in Chhattisgarh. Presently NIT Raipur offers 12 undergraduate, 14 Post-graduate (including M.Sc., M.C.A and M.Tech. in Applied Geology) and 18 Ph.D. programs. The institute offers facilities for research and also undertakes R & D activities, provides testing, consultancy and other extension services including continuing education to the industry through the Industry Institute Interaction cell and the placement of the student through the Department of Training & Placement. More details about NIT Raipur are at: <http://www.nitr.ac.in>.

The **Department of Information Technology** came into existence in year 2000. IT department is the study, research, and workplace of approximately 300 students from the 28 states across India. The department provides an outstanding research environment and offers academic program leading to the award of B.Tech., M.Tech. and Ph.D. degree.

Salient Features of the Course

- Detailed explanation of fundamental concept of Blockchain
- Hands-on sessions on smart contract programming and live demos of Use-cases based on real-time applications of Blockchain Technology.
- will supervise and monitor the assigned project.

Speakers/Experts

Subject experts of the course may be from renowned institutes like IITs, NITs and Industries.

Course Fee Details

Category	Registration Fee (₹)
NIT Students	(Rs. 1500 + 18% GST) = ₹ 1770
Outside Students (other than NIT Raipur)	(Rs. 2000 + 18% GST) = ₹ 2360
Faculty/ Industry Persons	(Rs. 3000 + 18% GST) = ₹ 3540

Course Contents

- Fundamental Concept of Blockchain Technology
- Cryptographic Techniques for Blockchain System
- Consensus Algorithms
- Bitcoin
- Ethereum Platform
- Smart Contract Programming
- Web 3.0
- Smart Contract based Decentralized Application (DApps) development.
- Hands-on Experiments on Ethereum Smart Contract Development
- Hands-on Experiments on Ethereum smart contract deployment on various blockchain network viz., virtual machine, web3 provider (ganache and testrpc), injected Web3 (MetaMask- Ropsten Network, Kovan Network, and Rinkeby Network)
- Use-cases in various fields such as Healthcare, E-Governance, Supply-chain management etc.

Important Dates

Registration Last Date: 25th June 2024
List of shortlisted Candidates: 28th June 2024
Course Start Date: 1st July 2024
Course End Date: 5th July 2024
Course Time : 10:00 AM - 05:00 PM



Certificate Course (Online-mode)

on

“Blockchain Technologies & Application”

1st July - 5th July, 2024 (10AM to 5.00 PM)

Chief Patron

Prof. N.V. Ramana Rao, Director, NITRR

Patron

Dr. Prabhat Diwan, Dean (R&C), NITRR

Chairman CEC

Dr. Subhojit Ghosh, Chairman (CEC), NITRR

Convenor

Dr. Sanjay Kumar, HoD
Department of Information Technology, NITRR

Co-ordinators & Contact

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Account Details

Account Holder Name : Director NIT Raipur

Account No. : 38027633250

Bank Name : State Bank of India

Bank Branch : NIT Branch

IFSC Code : SBIN0002852

MICR Code : 492002004

Swift Code : SBININBB646

PAN Card Number : AAAJN0643G

GSTIN Number : 22AAAJN0643G1ZN

Eligibility for Participation

- UG/PG graduated/pursuing (final/pre-final year) students
- Ph.D. Scholars from higher education institutions
- Faculties / Staffs / Lab Instructors from technical and academic institutions
- Govt. Employees or Industry/working profession-

Registration Process

Interested candidates need to register by submitting the online registration form as given below:

STTP Registration Link:

<https://forms.gle/zDxyDGRbwkVZC1WQ9>

1. Fill the required basic details
2. Pay the registration fee to the bank account of NIT Raipur “38027633250”
3. Student can pay the registration fee by using the PhonePe/PayTm/GPay Apps for transferring the money to the Bank account of the institute.
4. Keep the transaction slip, it required to upload for verification of Fee payment
5. Fill transaction number and date of transaction
6. Upload valid Photo ID proof
7. Submit the form.

Note: Confirmation mail of the Course Registration will be send to all registered candidates on 28th June 2024.