Registration

All the participants must register online to be eligible to attend the course. There is **no registration fee.** To register, visit the following web-link, fill out the required fields, and then submit.

Link to the registration page:

https://docs.google.com/forms/d/1mmYkBh0l Kl1yIybeabOvgdx6WS0lRD9_qRw8cy9DygU/ viewform?edit_requested=true

Course completion certificate

Participants are requested to attend all the lectures and hand-on sessions. A *course completion certificate* will be issued to the participants by the AICTE Training And Learning (ATAL) Academy program upon successful completion of the course.

Accommodation

Participants are requested to make their own arrangements for accommodation. The following link contains a list of a few hotels near the institute.

https://www.iitbhilai.ac.in/index.php?pid=nearby_hotels

Chief patron

Prof. Rajat Moona
Director, IIT Bhilai

Course coordinator

Dr. Souradyuti Paul

Associate Professor

Department of EECS

Indian Institute of Technology Bhilai

email id: souradyuti@iitbhilai.ac.in

List of speakers

Dr. Santosh Biswas, IIT Bhilai

Prof. Rajat Moona, IIT Bhilai

Dr. Avijit Pal, IIT Bhilai

Dr. Souradyuti Paul, IIT Bhilai

Dr. Dhiman Saha, IIT Bhilai

Dr. Subhajit Sidhanta, IIT Bhilai

The venue

The venue of this event is the academic block of IIT Bhilai, situated at Sejbahar near the Raipur town. Information on how to reach the venue is available from the link below:

https://www.iitbhilai.ac.in/index.php?pid=reach_us

Faculty Development Program
on
Blockchain Technologies and Applications
(09-13th December 2019)

Organized by

Department of EECS

Indian Institute of Technology Bhilai

Sponsored by

AICTE Training And Learning (ATAL)

Academy

Target audience

- UG and PG students
- Faculty members
- Engineers, and
- Scientists

Topics to be covered include:

- Bitcoin and cryptocurrencies
- Blockchain basics
- Cryptographic tools for blockchains
- Mathematical tools underlying blockchains
- Electronic payments vs. cryptocurrencies
- Traditional databases vs. DLT
- Consensus, mining and smart contracts
- Blockchain and supply chain
- Blockchain and FinTech
- Blockchain and IoT
- Writing smart contracts using a prog. language

Important dates

Last date for registration   25th November 2019

Course Duration: 09 -13th December 2019

About the short term course

This is a 5-day short course (22.5 hours in total) on the Blockchain technologies and its applications. The plan is to divide the course into three parts: firstly, we deal with some background knowledge that contains cryptography, cryptocurrencies, some required mathematical tools, the traditional distributed and ePayment systems; secondly, we address some blockchain basics which include various components of it such as transactions, blocks, consensus algorithms, smart contracts. Finally we talk about applications of the blockchain technologies focusing on supply chain, IoT and FinTech.

About IIT Bhilai

Indian Institute of Technology Bhilai was established -- as the youngest of all the 23 IITs -- in the state of Chhattisgarh by MHRD in 2016. Presently it is operating from its transit campus located at the Government Engineering College (GEC) Raipur, and is planned to move to the permanent campus in a couple of years from now. Although the youngest in age, IIT Bhilai has already carved a niche in the Indian academic landscape with its innovative undergraduate and postgraduate programs that nurture talents and aptitudes not only for research and education, but also for entrepreneurship, technical leadership, administration and above all, responsible citizenship.

It is no exaggeration to say that IIT Bhilai has shown remarkable modernity and ingenuity – possibly ahead of any other institutes in India – in its design of curriculum and academic structure; some of them are: adoption of the fractal academic system (flexibility in choosing shorter as well as full-length courses); cultivating a synergy putting significant and enduring emphasis on subjects of present interest (such as blockchains, cybersecurity, data science, etc) in the forms of new courses, development of new programs and disciplines even at the BTech level; bringing multiple disciplines with overlapping goals (such as EE and CSE) under a single department allowing the students to choose elective subjects from a large pool of courses.

Another area in which, even in this short period of time, IIT Bhilai has been noticed is forging strong ties and collaborative relations with the industry, academia as well as the governments, both nationally and internationally.

IIT Bhilai is indeed on a path towards becoming a world-class research and educational hub in Chhattisgarh, where people from all over the world would throng to seek knowledge of all kinds.