AICTE TRAINING AND LEARNING (ATAL) ACADEMY

AICTE is committed to the development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. The Council understands that it is the need of the day to train the young generation in the skill sector and faculty & technicians in their respective disciplines. To keep an institute competitive and more productive, faculty training on the latest tools and technologies is vital. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies. Accordingly, it was decided to formation of AICTE Training And Learning - (ATAL) Academies. As a part of its activities, Malaviya National Institute of Technology, Jaipur along with AICTE ATAL Academy will conduct Faculty Development Program (FDP) on Blockchain Technology & its Applications from 06th to 10th September 2021 at Malaviya National Institute of Technology, Jaipur.

WHO SHOULD ATTEND

As the field is being highly interdisciplinary and holds potential for high growth, the FDP program is open to all the participants who are interested in Blockchain Technology & its Applications. The faculty members of the AICTE/ UGC approved institutions, research scholars, PG Scholars, Participants from the Government, Industry and staff of host institutions can attend the course.

PATRON

Dr. R. K. Tyagi,
(Chairman, MNIT)
Prof. Udaykumar R Yaragatti
(Director, MNIT, Jaipur)

CONVENERS

Prof. Vijay Laxmi,
Dr. Namita Mittal,
Dr. Yogesh Kumar Meena

COORDINATOR

Dr. Mushtaq Ahmed

CONTACT PERSON

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KEY INFORMATION FOR PARTICIPANTS

Participants may register for this course using the link: https://www.aicte-india.org/atal. **There is NO registration fee for the participants**. Quiz /test shall be conducted at every end of the day program and participants will be awarded a certificate of participation by ATAL Academy and MNIT. The certificate shall be issued to the participants.

RESOURCE PERSONS

The course content will be delivered from a pool of experts on the subject from IITs, NITs, other Institutions of repute and experts from Industry.

Malaviya National Institute of Technology, Jaipur

ANNOUNCES

AICTE Training And Learning (ATAL) Academy sponsored Faculty Development Program

On

"Blockchain Technology & Its Applications"

September 06th to 10th, 2021

Organized by:
Department of Computer Science & Engineering Malaviya National Institute of Technology Jaipur-302017

COURSE OBJECTIVES

To get exposure and gain knowledge about the diverse facts of blockchain Technology. By attending this Faculty Development Program participants will be able to:

- Understand blockchain technology at a theoretical & practical level and will be able to develop their own blockchain.
- Working with Ethereum's major core development tools.
- Understand how Smart Contracts work on a practical level.
- Become proficient in Solidity programming by building projects.
- Understand how to use Web3 in conjunction with the case study projects.
- Become proficient in advanced development with truffle.
- Develop their own Decentralized Application (dApp).

MAIN HIGHLIGHTS

➢ **Hands-on Blockchain Projects:** Covered during the training.

➢ **Certification:** FDP/ Training certificate of completion will be provided to each participant.

➢ **Resource Persons:** Experts from IITs/NITs/ Industry persons

➢ **Training includes:** Project codes, Training PPT's. Research papers, etc.

➢ **Daily Assessment:** Quiz (20 mins.) will be held at the end of every day.

➢ **Duration:** 5-DAYS EXHAUSTIVE SESSIONS.

COURSE CONTENTS

Blockchain Technology: Basics, History, Structure, Properties, Types, Challenges, Blockchain Network, etc.

Cryptography / Security: Hashing, Markley tree, Block Mining &, Consensus Algorithms (Proof-of-Stake, Proof-of-Work, Proof-of-Contribution, Byzantine fault tolerance, etc.), Mining Hardware, Blockchain security issues and challenges.

Blockchain in finance: Financial Services, Applications in Finance, Types of Wallets, Cryptocurrency, Risk and challenges, Bitcoin.

Ethereum, Solidity: Syntax & Structure, Smart Contract, Decentralized Apps (dApp), MetaMask, Blockchain-based IoT Applications.

Hands-on Practice Lab: A case study based on Supply Chain Management (SCM) and e-Voting using Solidity, Web3.0, Infura, Ganache, etc.

ABOUT MNIT

Malaviya National Institute of Technology (MNIT), Jaipur is one of the NITs established by the Ministry of Human Resource Development, Government of India. The Institute, earlier known as MREC, was established in 1963 as a joint venture of the state and central Governments. Later in 2002, the college was given the status of National Institute of Technology and on August 15, 2007, proclaimed Institute of National Importance through Act of Parliament. MNIT campus spreads over 325 acres of lush green area in the prime location of Jaipur city. The Institute has completed its Golden Jubilee year 2012-13 and as a part of year-long celebrations of its 50 years of teaching and excellence, various academic activities were organized. At present, in addition to research, consultancy and developmental activities, the Institute offers UG and PG (M. Tech./M.Sc. & PhD) level courses to about 5000 students in almost all leading fields of Engineering, Technology, Management and Sciences.

AICTE Training And Learning (ATAL) Academy sponsored
Faculty Development Program
on
Blockchain Technology & Its Applications
Date: 06/09/2021 to 10/09/2021

	Session-1 9:00 AM -11:00 AM		Session-2 11:15 AM - 01:15 PM		Session-3 2:00 PM- 4:00 PM
Day-1 06/09/2021 Monday	Talk 1		Talk 2		Talk 3
Day-2 07/09/2021 Tuesday	Talk 4		Talk 5		Talk 6
Day-3 08/09/2021 Wednesday	Talk 7	Break (11:00 AM - 11:15 AM)	Talk 8	Lunch Break (01:15 PM - 2:00 PM)	Talk 9
Day-4 09/09/2021 Thursday	Talk 10		Talk 11		Talk 12
Day-5 10/09/2021 Friday	Talk 13		Talk 14		Valedictory