

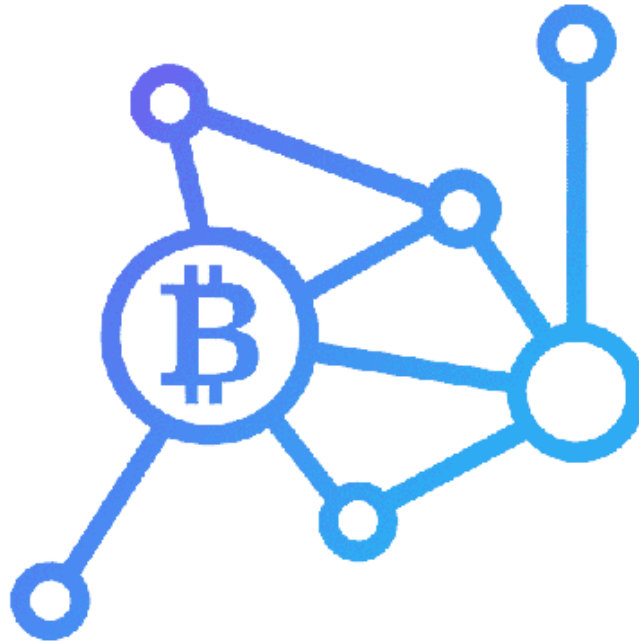


Techniche

The annual Techno-Management Festival
IIT Guwahati

Internship & Training Program

Blockchain Technology



Certification 2-8 Weeks / 30-40 Hours

Job oriented exhaustive program

Internship & Training Program

Make Projects & Get Trained

Official Partner



Edu-Vitae
Services

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About Edu-Vitae Services

Edu-Vitae Services (Run by IITians & Industry Experts) is a renowned provider of education and training programs, with a global presence. We offer a wide range of courses and training opportunities in the areas of computer science and IT, animation and multimedia, and soft skills, as well as engineering and advanced technology. Our programs include workshops, internships, corporate training, certificate courses, and faculty development programs, all designed to meet the needs of students, professionals, academic institutions, and industry. Our reputation as one of the top technology training providers in India is a testament to our commitment to helping our clients acquire the skills and knowledge they need to succeed in their careers.

Our Clientele/Collaborations

Some of the **top** institutions and corporates where directly/indirectly we already felt our presence are given below:

Indian Institute of Technology, Kanpur

Indian Institute of Technology (Banaras Hindu University), Varanasi

Indian Institute of Technology (ISM), Dhanbad

Indian Institute of Technology, Jodhpur

Indian Institute of Technology, Bhubaneswar

Indian Institute of Technology, Guwahati

Indian Institute of Management (IIM), Indore

National Institute of Technology, Surat

IISc, Bangalore

Chandigarh University

Design Innovation Centre, Department of Applied Arts (Visual Arts), Banaras Hindu University, Varanasi

Madan Mohan Malaviya University of Technology, Gorakhpur

Maharaja Agrasen Institute Of Technology, Delhi

Thapar Institute of Engineering & Technology, Punjab

Kendriya Vidyalaya, India

DAV School, India

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Industry/Corporate/Startups

Accenture

Capgemini

Rabbixel

CreativeHatti

F1 Digitals

MapsCrew

.....

and many more tech & non-tech colleges/universities/institutes/schools & startups/companies across India and globe.

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Achievements & Milestones

- ✓ Our alumni / students are working in top notch company of India & MNCs **VMware, Infosys, Cognizant, CGI, Fidelity, Razorpay, EXL, CARS24, Tata Steel, NVIDIA, MyKaarma, Oyo Rooms, Samsung, Walmart Labs, L&T, JIO, Citibank, TCS, Accolite, BNY Mellon**, and many more.
- ✓ Conducted a number of workshop/training/internship programs in many colleges/universities/schools of India like **IITs, NITs, IISc & other prestigious colleges & universities** of India & with the corporate industry too.
- ✓ Trained many college/university/school students, some of them have created a milestone for **Edu-Vitae Services** by meeting with **Shri Narendra Damodardas Modi** (Prime Minister of India) related to some robotics projects.
- ✓ Collaborating with Industries / Corporates / Startups to provide them hiring services (helping them to **hire fresh trained talent with us**).
- ✓ Signed MOUs / worked with top notch colleges / universities / schools like **Techkriti IIT Kanpur, Technex IIT (BHU) Varanasi, Wissenaire IIT Bhubaneswar, Techniche IIT Guwahati, Concetto IIT (ISM) Dhanbad, Pravega IISc Bangalore, IGNUS IIT Jodhpur, Ranbhoomi IIM Indore, MMMUT Gorakhpur, NIT Surat, Chandigarh University** and many other colleges / universities / schools for professional / industry ready skills training / workshop / internship programs.

Prerequisites

Participants from 1st year/ 2nd year / 3rd year / 4th year of CSE/IT/MCA/BCA/MSc/BSc-IT/ECE/EE/Other branch/stream will get more benefit after joining this program and other interested students can also participate in that as per their requirement.

What is required before joining this training program?

Here's the checklist

1. A laptop with Microsoft Windows (7 or later) configuration along with smartphone as per need/requirement.
2. Laptop Charger/Adapter for charging purpose.
3. USB Mouse for designing & easy to use purpose (if required).
4. Internet Connectivity (Typically to be able to do video call / conferencing, if the program is in online mode)
5. Notepad & Pen/Pencil for important notes.

Training Deliverables & Takeaways

Every participant will get

- ✓ Industry Ready Curriculum
- ✓ Interactive & Doubt Session (online & offline)
- ✓ Certification Program
- ✓ Mini & Major Projects
- ✓ Career Guidance
- ✓ Projects Based Learning

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Course & Content

All of the sessions will be practical oriented, so it will be really great if participant(s) can look on the syllabus which we are going to cover during training days.

Blockchain Technology

Module-1:

Introduction about Blockchain Technology

- The Overview of Block chain
- Public Ledgers
- What is Bitcoin
- What is Smart Contracts
- Block in a Block chain, Transactions
- Distributed Consensus
- Types of consensus algorithms - Proof-of-Work (PoW), Proof-of-Stake (PoS), Delegated Proof-of-Stake (DPoS), Leased Proof-of-Stake (LPoS), Byzantine Fault Tolerance (BFT)
- Types of Block chain -Public vs Private Block chain
- Introduction & understanding Crypto currency
- A basic crypto currency

Assignment-1

Quiz-1

Module-2

Understanding Block chain with Cryptography

- Overview of Security aspects of Block chain
- Basic Crypto Primitives: Cryptographic Hash Function, Properties of a hash function, Hash pointer
- What is Merkle tree?
- Symmetric key cryptography
- Asymmetric key cryptography
- Public Key cryptography, Digital Signature

Assignment-2

Quiz-2

Module-3

Understanding DLT and Bitcoin

- What is DLT & How does it work
- DLT and Blockchain related to cryptocurrency
- Advantages of DLT & Risks and challenges to DLT
- Bitcoin and Block chain & Bitcoin P2P Network
- Transaction in Bitcoin Network

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- Block Mining, Mining Difficulty
- Consensus in a Bitcoin network: Proof of Work (PoW)
- Basic introduction, Hashcash PoW
- Attacks on PoW and the monopoly problem
- What is Miner & the life of a Bitcoin Miner, Mining Pool

Assignment-3

Quiz-3

Module-4

Understanding different platforms in Blockchain (Lab)

- Overview of IPFS (Interplanetary file System)
- Overview of Ethereum,
- Overview of Hyper ledger fabric
- Overview of Corda

Assignment-4

Quiz-4

Module-5

Understanding Block chain for Enterprises (Project)

- Enterprise application of Blockchain
- Cross border payments
- Know Your Customer (KYC)
- Food Security
- Mortgage over Block chain
- Block chain enabled Trade, We Trade – Trade Finance Network
- Supply Chain Financing, and Identity on Blockchain

Assignment-5

Quiz-5

Disclaimer

Please make sure that this training/internship will be organized by Edu-Vitae Services, it is to note that if any IIT/NIT/Organization is EVS partner then it's responsible for providing certification to attending students/professionals, marketing, publicity and rest operations, scheduling, payment processing, training, content development etc. will be taken care by Edu-Vitae Services. All of the matters/disputes related to internship/training/workshop needs to be addressed to Edu-Vitae Services team only. See our terms and conditions on www.eduvitae.co.in and fees once paid is non-refundable and non-transferrable. Company reserves full right to withdraw any offer/discount anytime without any prior notification, also it's important to understand that center & batches date of internship can be changed as per requirements in India.

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