

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY NEW DELHI



Unlock Opportunities:

Engage in a Blockchain Landscape Projected to Reach \$1.2 Trillion!

PG Level Advanced Certification Programme in BLOCKCHAINS, TOKENS & DISTRIBUTED LEDGER

Tokenize, Decentralize, Transform: Your Guide to Blockchain Mastery

9 MONTHS PROGRAMME

Only NAAC A++ Govt University Programme Offline and Online Classes Mentoring by Industry Experts IP University Alumni Status

Exclusively designed for professionals in Mathematics, Science or Engineering

Are YOU looking for an exceptional Education Experience that will reignite your mind ?

A programme where Innovation and Learning by doing are the presiding principles ?

Then come to the SOURCE There's only one: SBIT TechMentors



Build Smart Systems. Build Your Career. Enroll in Blockchains, Tokens and Distributed Ledger !

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Gartner.

ET ECONOMICTIMES.COM

California moves to embrace cryptocurrency and regulate it.

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Like the internet once did for business, blockchain is a paradigm shift that enables entirely new opportunities.

India's crypto job market is booming. Demand for blockchain and Web3 skill is surging.

Blockchain Distributed Ledger Global Market Report 2025

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Trending Career Opportunities in Blockchains, Tokens and Distributed Ledger



About the Programme

- The Certification Course in Blockchains, Tokens and Distributed Ledger is offered by SBIT TechMentors in collaboration with GGS IP University.
- The 9-months weekend programme enables both aspiring and practicing Blockchain professionals to build expertise in Blockchain and Distributed Ledger.
- The programme covers the essential theoretical foundations of Blockchain and DLT and teaches students how to apply them in the real world effectively.
- The course is best suited for individuals with programming knowledge who want to have a practical understanding of blockchain technology and digital tokens



Key Features of the Programme



Experienced Instructors

Learn from industry professionals with real-world experience



Flexible Formats Choose from online, in-person, or hybrid classes



NAAC A++ Govt University Programme Only NAAC A++ Govt University to offer such programmes



Ideal Duration 9 months of duration is ideal for getting solid foundation



Industry-Relevant Curriculum Course designed in collaboration with industry experts



Experiential Learning Hands-on projects with integrated labs



Easy access to faculty Dedicated faculty hours to address doubts and questions



Industry relevant projects Significant weightage on industry relevant projects



Mentoring from Industry veterans Guidance on finer aspects of technologies and further learning



Career Assistance Benefit from job placement assistance and resume workshops

Programme Outcomes

By participating in this programme, you will:

- Master the Fundamentals of Blockchain Technology
- Develop and Deploy Blockchain-Based Applications
- Comprehend the Role and Functionality of Digital Tokens
- Explore Distributed Ledger Technologies Beyond Blockchain
- Understand Governance, Regulation, and Ethics in Blockchain Ecosystems
- Solve Real-World Problems Using Blockchain Solutions
- Explore Emerging Trends and Career Opportunities
- Complete a capstone project that demonstrates the ability to solve complex problems using Blockchain and Distributed Ledger, showcasing practical skills and knowledge.

Re Imagine Education Take Your Career to a Whole New Level

Its **NOt** About the Degree Its About **YOU**

At this point in your career, you don't need only a degree. you need an experience. Follow our 4 edge Approach.

Engineering Futures of Excellence with Firm Foundations Winning Edge for the NextGen



GGSIP University Edge

Guru Gobind Singh Indraprastha University (GGSIPU), established in 1998 by the Government of NCT of Delhi, is a State University of Delhi recognized by the University Grants Commission (UGC). The University is also globally recognized for its academic and research excellence and has earned prestigious accolades which include NAAC A++ Accreditation, the highest honour for academic distinction; a strong position in the QS World University Rankings 2025, securing 81st rank in Southern Asia; and a notable 80th position in the NIRF Rankings 2024. The University's rapid stride in global rankings has been acknowledged with the QS 'Rising Star' Award, while its unwavering commitment to research excellence has been honoured with the QS 'Performance Improvement Award', reaffirming its excellence in higher education.

GGSIPU offer a wide spectrum of multidisciplinary, professional and technical programs, spanning across Artificial Intelligence, Machine Learning, Robotics, Computer Science, Management, Law, Education, Journalism, Medicine (MBBS), Ayurveda and superspecialty medical courses, among others. The University actively promotes entrepreneurial initiatives and job creation through its innovative incubation centres and industry associations.

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For more information, http://www.ipu.ac.in/

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SBIT Advantage

Shri Balwant Institute of Technology (SBIT), established in 2006, is an AICTE approved Institute located in NCR Delhi and Affiliated with Guru Gobind Singh Indraprastha University (GGSIPU), New Delhi. SBIT offers full time undergraduate and postgraduate degree programmes in Engineering, Management and Computer Applications - B.Tech., BBA, MBA, BCA, MCA, B.Com.(H).

SBIT programmes are meticulously designed to equip students with the latest skills and knowledge, particularly in the high-demand fields of Blockchains, Tokens and Distributed Ledger. Recognized among the Top 10 Colleges in India for AI, SBIT is renowned for its academic excellence and state-of-the-art infrastructure.

Over the last 19 years, SBIT has established a strong legacy of producing thousand of successful engineers and managers who have been placed in top companies like Apple, Amazon, TCS, and Deloitte across the globe. The Institute's rigorous academic programmes combined with hands-on industry training and corporate mentorship from global leaders, have ensured that students are not only technically proficient but also equipped with the skills to excel in the professional world.



Academic Advisory Council



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Shape Your Future

Benefit from a dynamic curriculum taught in a truly Competitive Environment.

At TechMentors You spend equal time learning the fundamentals of course and specializing in the upcoming areas. The program is unique, challenging, rigorous - and absolutely the right preparation for your future success.

Learning Path



Curriculum

A comprehensive curriculum that deep dives from Blockchains, Tokens and Distributed Ledger architectures, building a solid grasp of concepts and applications.

Module 1: Introduction to Blockchain Technology

This course builds core concepts and architecture of blockchain. Learners gain expertise in working of distributed ledgers and how they differ from traditional databases. Grasp the historical context and evolution of blockchain technology.

- Trace the origins of blockchain, from the invention of Bitcoin by Satoshi Nakamoto to the emergence of blockchain in various sectors beyond cryptocurrencies.
- Study key events and milestones that shaped blockchain's development.
- Understand how distributed ledger technology (DLT) works and how decentralization ensures security and transparency.
- Learn about consensus mechanisms that ensure agreement in decentralized networks without a central authority.
- Explore the differences between public (open, permissionless) and private (permissioned) blockchains, as well as consortium models used by multiple organizations.
- Dive into the origins of Bitcoin as the first use case of blockchain technology and its impact on financial systems.

Module 2: Blockchain Architecture and Consensus Mechanisms

This course analyzes the underlying architecture of blockchain networks. Learners compare various consensus mechanisms and their impact on security and performance. Understand blockchain scalability and challenges.

- Learn about the structure of a blockchain, including how blocks of data are chained together and validated by nodes.
- Explore key components such as hash functions, Merkle trees, and cryptographic signatures.
- Study how different consensus algorithms (Proof of Work, Proof of Stake, Delegated Proof of Stake, and Practical Byzantine Fault Tolerance) are used to achieve agreement among participants in decentralized networks.
- Understand the scalability challenges facing blockchain networks and explore solutions such as sharding, Layer 2 solutions (e.g., Lightning Network), and sidechains.
- Learn how block time affects transaction speed and security and explore the process of mining and validating transactions on the blockchain.

Module 3: Tokens and Digital Assets

This course builds on the concept of digital tokens and their role within blockchain ecosystems. Learners explore differences between utility tokens, security tokens, and nonfungible tokens (NFTs). Explore tokenization and its application in various industries.

- Differentiate between utility tokens, which provide access to a product/service, and security tokens, which represent an investment in a company or asset.
- Explore the concept of NFTs and their role in representing unique digital assets like art, collectibles, and intellectual property.
- Understand the marketplaces where NFTs are bought and sold (e.g., OpenSea, Rarible).
- Learn about token standards on Ethereum, including ERC-20 for fungible tokens, ERC-721 for non-fungible tokens, and ERC-1155 for multi-token types.
- Explore the tokenization of assets like real estate, art, and commodities, enabling fractional ownership and liquidity of traditionally illiquid assets.

Module 4: Smart Contracts and Decentralized Applications (dApps)

This course provides information development and deployment of smart contracts on blockchain platforms. Learners explore how decentralized applications (dApps) are built and utilized. Examine real-world applications of smart contracts across various industries.

- Understand what smart contracts are and how they automate transactions without intermediaries.
- Explore the benefits of smart contracts, such as transparency, efficiency, and security.
- Learn Solidity, the programming language used for writing smart contracts on Ethereum.
- Develop and deploy smart contracts, including hands-on coding exercises and real-world examples.
- Understand how dApps work, from front-end development to interaction with blockchain back-ends.
- Explore real-world examples of dApps in areas like finance (DeFi), healthcare, and supply chain management.
- Examine the application of smart contracts and dApps in industries such as supply chain (tracking goods), decentralized finance (lending/borrowing), healthcare (patient data), and gaming (in-game assets).

Module 5: Distributed Ledger Technologies (DLTs) Beyond Blockchain

This course does a deep-dive on the differences between blockchain and other forms of distributed ledger explore the technologies. Learners advantages and challenges of different DLTs. Analyze real-world applications of DLT in industries like finance and supply chain.

- Understand the differences between blockchain and other distributed ledger technologies (DLT), including how data is structured and verified.
- Explore alternative DLTs like Hashgraph (gossip protocol), Directed Acyclic Graph (DAG) used by IOTA, and Holochain, which operates without the need for global consensus.
- Study specific use cases of alternative DLTs, including IOTA for IoT devices, Hyperledger Fabric for enterprise applications, and Quorum for private blockchain networks.
- Analyze the application of DLTs in industries such as supply chain management, healthcare (patient records), and IoT (device-to-device communication).

Module 6: Governance, Regulation, and Ethical Considerations

This course does a deep-dive on the governance models of decentralized networks. Learners evaluate the regulatory challenges and opportunities surrounding blockchain and cryptocurrencies. Discuss the ethical implications of decentralized technologies.

- Understand how governance works in decentralized networks, including on-chain governance (where changes are voted on directly on the blockchain) and off-chain governance (external decision-making processes).
- Explore the global regulatory environment for cryptocurrencies, ICOs, and blockchain technology. Discuss legal challenges and how different countries are addressing regulatory issues.
- Learn about Anti-Money Laundering (AML) and Know Your Customer (KYC) compliance requirements in decentralized finance (DeFi) and how blockchain projects address these regulatory needs.
- Discuss the ethical issues surrounding blockchain, such as data privacy, censorship resistance, and the balance between decentralization and governance control.

Module 7: Capstone Project

The capstone project allows learners to implement the skills learnt throughout this programme. Learners will solve industry-specific challenges by leveraging various Blockchain and DLT techniques. The capstone project is the final step in the core learning path and will help you showcase your expertise.

- Showcase your Blockchain skills starting from Blockchain architecture and covering other areas Tokens, NFTS, Smart Contracts, and results presentation.
- Demonstration of applied knowledge by applying theoretical concepts like Blocks, Chains, Nodes, and Networks to solve real-world problems.
- Hands-on problem-solving skills through implementing projects in domains like Supply Chain Management, Real Estate, Healthcare, students showcase their ability to work on end-to-end AI solutions.
- Portfolio building by completing tangible, demonstrable work product to share in portfolios or during interviews with potential employers.
- Industry-relevant exposure by working on capstone projects aligned with real-world applications, like tokenization of real estate assets, decentralized voting system, or identity management system, prepares students for industry demands.
- Collaboration and presentation skills and the ability to present technical findings effectively to non-technical stakeholders.
- Solution-oriented thinking by addressing a real-world challenge, students foster innovation and learn to design scalable, deployable Blockchain solutions.

Tools Covered







Go Ethereum



Ethereum Mist Wallet



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Who is This Programme Ideal For ?

Professionals keen to develop Blockchain and DLT expertise, with the objective of:

- Enhancing effectiveness in their current role
- Transitioning to Blockchain roles in their organization
- Seeking to advance their career in the industry
- Giving shape to entrepreneurial aspirations
- Getting an opportunity to network with like-minded individuals and industry experts

Eligibility Criteria

For admission to this Blockchains, Tokens and Distributed Ledger course, candidates should have:

- Education: Bachelors (four / three years or equivalent) or Masters in Science / Engineering / Management
- Work Experience: Nil. Preference will be given to candidates with Min 1 year of experience. Final year students with strong programming skills can also apply.
- Coding Experience: Programming Knowledge Required

Note: Graduates in other streams with relevant coding experience can apply

Application Process

Candidates can apply for this programme in 3 simple steps:

Step 1	Step 2	Step 3
Submit Application	Application Review	Admission
Tell us about yourself and why you want to take this programme	An admission panel will shortlist candidates based on their application	Selected candidates can join the programme by paying the admission fee

Talk to an Admission Counselor

We have a team of dedicated admissions counselors to help guide you in the application process and related matters. They are available to:

- Address questions related to the application
- Help you better understand the programme and answer your questions



Programme Fee

What is My Investment?

Application Fee ₹ 1,000

Programme Fee

₹ 1,50,000

Programme Fee with Scholarship

₹ 1,30,000

(18% GST extra as applicable)



Fees paid is non-refundable and non-transferable

Unlock the Power of Blockchains, Tokens and Distributed Ledger

Get Support





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To apply visit





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