NetTech India

BLOCKCHAIN

CERTIFICATION IN
BLOCKCHAIN
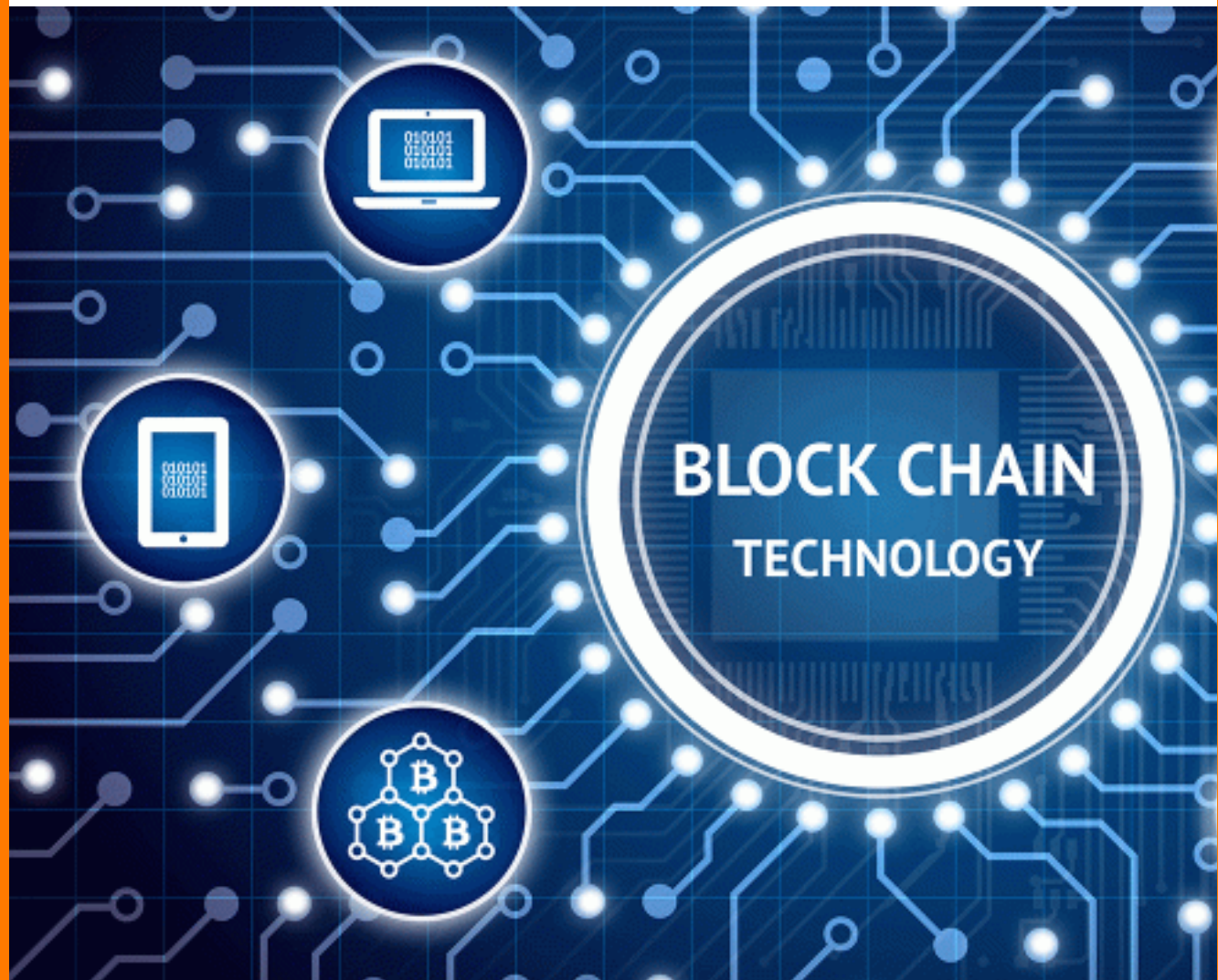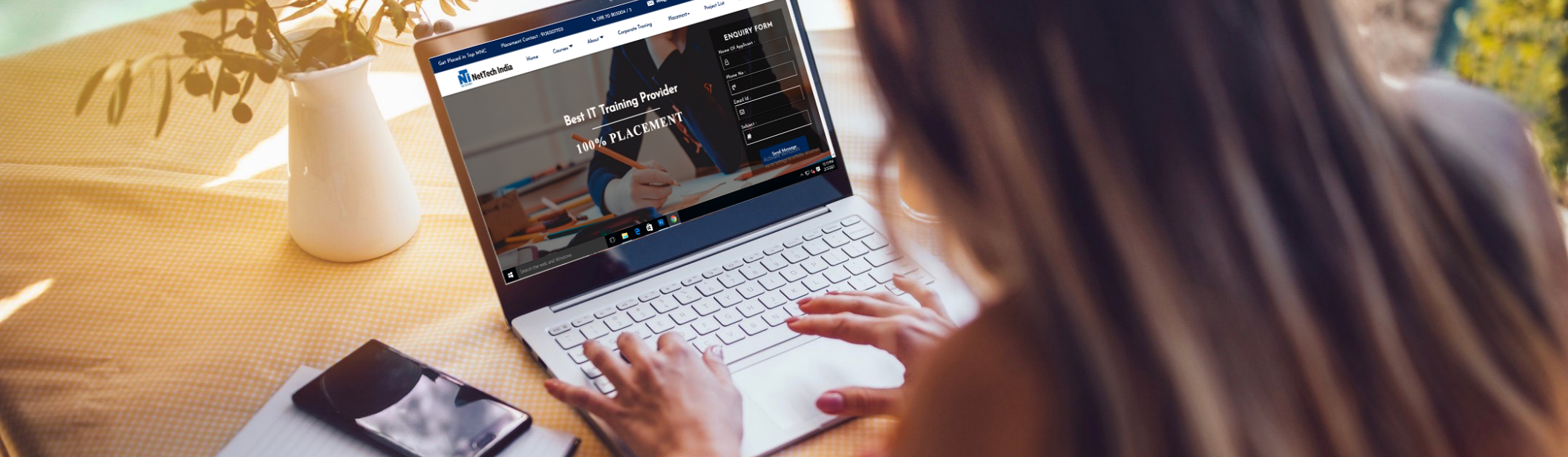
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BLOCK CHAIN
TECHNOLOGY

ABOUT US

NetTech India Training Institute offers a high-quality learning experience in the field of IT training to train students on brand new technologies and train them to deliver the desired results with commercially relevant and re-organized technical skills.

The probability of achieving your dream job will keep on increasing day by day once you complete a course in NetTech India. We also focus on improving soft skills in terms of communication, leadership, teamwork, external appearance, and attitude which helps everyone to be professional in all the aspects of their career.
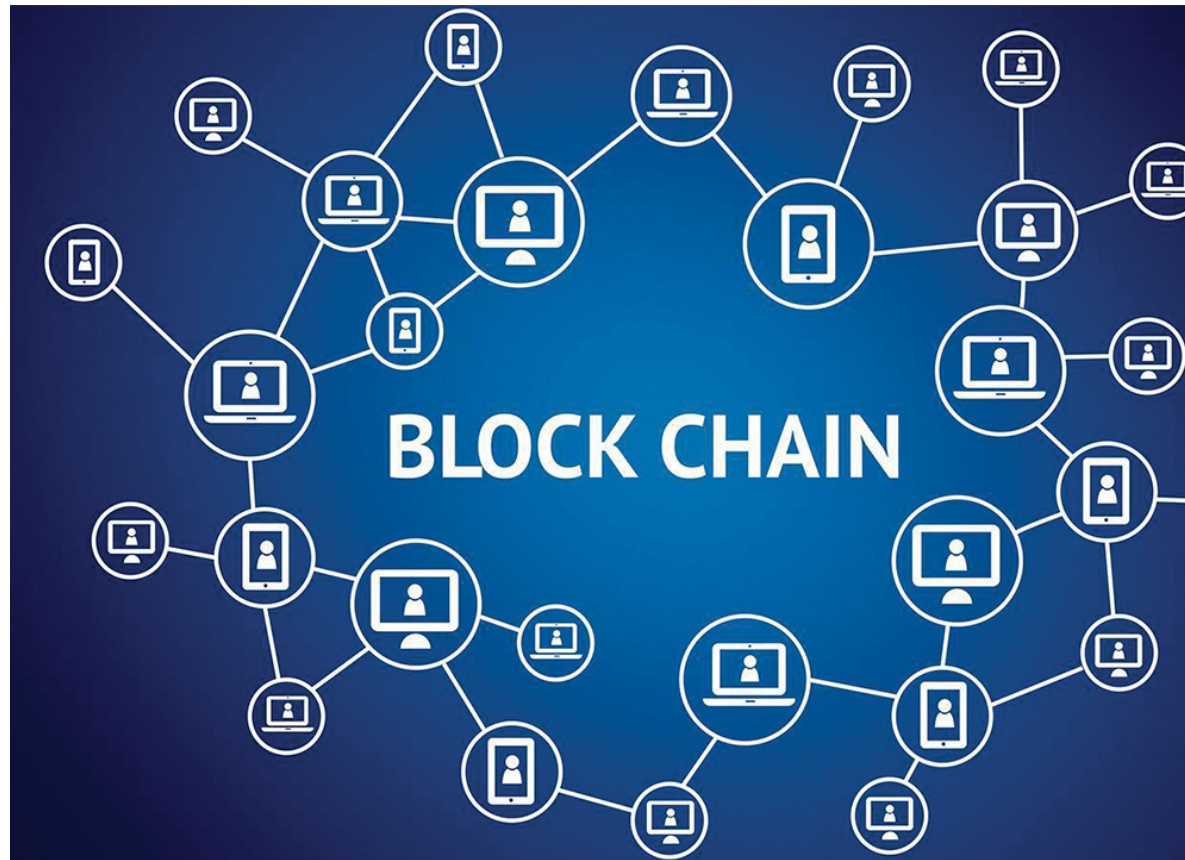
25%
Theory

75%
Practicals

ABOUT
BLOCK CHAIN

The word "Blockchain" was first introduced in 2008 by Satoshi Nakamoto in the research paper named as, "Bitcoin: A Peer-to-Peer Electronic Cash Systems". Blockchain is coined from two words"Block" and "Chain". Block is a group of transactions or data, and blockchain is the chain of validated blocks. The first blockchain went live in 2009 in the form of a Bitcoin network. People started exploring the use cases of blockchain in 2011 and there was not much progress in blockchain space during that time.

BENEFITS OF
BLOCKCHAIN

- Career Growth - Higher Pay & Position
- Encourages professional development
- Enriches self-image and reputation
- Enhances professional credibility.
- Abundant Job Opportunities
- Used In Many Industries
- Global Recognition
- Secure and Flexible
- 150+ Case Studies
- 50+ Projects

MODULES

01 CERTIFIED BLOCKCHAIN EXPERT

02 BITCOIN & CRYPTOCURRENCY EXPERT

03 Blockchain For Business Executives

04 Enterprise Blockchain- Hyperledger

05 Ethereum Solidity Smart Contracts

CERTIFIED BLOCKCHAIN EXPERT

Module 1: Introduction to Blockchain and Cryptocurrencies

History of Financial System
- Barter Economy
- Gold Economy
- Paper Gold Economy
- Cash Economy
Digital Economy: Bitcoin
Global Blockchain Ecosystem
Global Cryptocurrencies Ecosystem

Module 2: 1st Generation of Blockchain

Introduction
Why Bitcoin Blockchain was created?
What is Bitcoin Blockchain?
How does Bitcoin Blockchain work?

Keys
Wallets
Transactions
Bitcoin Network
Blockchain Mining & Consensus

Module 3: 2nd Generation of Blockchain

Introduction What is Ethereum?
Accounts

- a.Externally Owned Account
- b. Contract Account
- c. Account State Gas and Payments Transactions

Block Details
Transaction Execution
Smart Contract
Ethereum Virtual Machine & Gas Mining
Soft Fork and Hard Fork
Decentralized Application(Dapps)
Decentralized Autonomous Organization(DAO)
Initial Coin Offering

Module 4: 3rd Generation of Blockchain

Challenges for 1st and 2nd Generation of Blockchain IOTA

NEO

Cardano

EOS

Ziliqa

Quarkchain

Comparison between 1st, 2nd, and 3rd Generation of Blockchain

Module 5: Future Trends in Blockchain

Emergence of Token Economy

Demand and supply game

Future as a research point of view

Future as an Investment point of view

Market Trends

Blockchain Jobs

Impact on businesses and Organizations

And Many More....

BITCOIN & CRYPTOCURRENCY EXPERT

Module 1: Introduction

Web 3.0
Blockchain
Distributed Ledger Technology

Module 2: Introduction to Blockchain and Cryptocurrencies

History of Financial System
- Barter Economy
- Gold Economy
- Paper Gold Economy
- Cash Economy
Digital Economy: Bitcoin Global Blockchain Ecosystem
Global Cryptocurrencies Ecosystem

Module 3: 1st Generation of Blockchain

Introduction
Why Bitcoin Blockchain was created?
What is Bitcoin Blockchain?
How does Bitcoin Blockchain work?

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Keys

Wallets

Transactions

Bitcoin Network

Blockchain

Mining & Consensus

Module 4: Next Generation of Blockchains

Challenges for Bitcoin

Blockchain

Ethereum

IOTA

NEO

Cardano

EOS

Ziliqa

Quarkchain

Comparison between 1st, 2nd, and 3rd Generation of Blockchain

Module 5: Understanding Crypto Ecosystem

What is Initial Coin Offering(ICO)?

Comparison of ICO and IPO

Utility Token

Security Token

Cryptocurrency Token

Global ICO funding

Module 6: Cryptocurrency Security

Security of Wallet

Security of Cryptocurrency

Storing Private Key

Two-factor authentication

Module 6: Real-Time Cryptocurrency Trading

Cryptocurrency

Trading Local Exchanges

Global Exchanges

How to trade Cryptocurrencies?

Peer to Peer Exchanges

Trading on the Local Exchange

Trading on the International exchange

Peer to Peer trading

Arbitrage Trading Strategies

Cryptocurrencies Security

Module 7: Cryptocurrency Regulation

Regulation in Blockchain and Crypto Ecosystem

● North America

● Europe

● Asia Pacific

● Rest of the World

Module 8: Investing in ICOs

How to invest in an ICO

ERC20 Tokens

How to do the analysis of an ICO

Module 9: Mining

Bitcoin Mining

Ethereum Mining

Crypto

Mining Masternodes **And Many More....**

BLOCKCHAIN FOR BUSINESS EXECUTIVE

Module 1: Introduction

Web 3.0
Blockchain
Distributed Ledger Technology

Module 2: Introduction to Blockchain and Cryptocurrencies

History of Financial System
- Barter Economy
- Gold Economy
- Paper Gold Economy
- Cash Economy
Digital Economy: Bitcoin Global Blockchain Ecosystem
Global Cryptocurrencies Ecosystem

Module 3: Blockchain

Blockchain - The Greatest Invention of the 21st Century -
How does it work?
- Demo -
 Why is it so important?
- "Trust Distribution" - Mining

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Module 4: Types of Blockchain

First Generation of Blockchain

- Bitcoin
- Why Bitcoin was created?
- What does it do?
- How does it work?
- What does it do?
- How does it work?
- Smart Contracts
- Solidity

Third Generation of Blockchain

- IOTA
- Tangle Technology - Cardano

Module 5: Enterprise Blockchains

Hyperledger
R3 Corda

Module 6: Initial Coin Offering(ICO)

What is Initial Coin Offering(ICO)?

Comparison of ICO and IPO

Utility Token

Security Token

Cryptocurrency Token

Global ICO funding

Module 6: Regulation

Regulation in Blockchain and Crypto Ecosystem

- North America

- Europe

- Asia Pacific

- Rest of the World

Module 7: Cryptocurrencies Trading

Local Exchanges

Global Exchanges

How to trade Cryptocurrencies?

Peer to Peer Exchanges

Module 8: Use Cases

Blockchain in Supply Chain

Blockchain in Automotive

Blockchain in BFSI

Blockchain in Governance

Module 9: Disruption

IPFS(Interplanetary File Sharing System)

Ripple(Cross-Border Payments)

Ethereum(World's First Smart Contract Platform)

Numer.ai(World's First Decentralized Hedge Fund)

Quantstamp(Automating the Auditing process)

Module 10:Funding and Investments

Crypto Hedge Funds

Binance Case Study

ICO Funding

Retail Investment

Global Trading Volume

Module 11: Future

Emergence of Token Economy
Emergence of Web 3.0

Module 12: How to Start?

Understand the Ecosystem
Understand your Personality
Corporate Jobs
Blockchain Architect
Blockchain Auditor
Blockchain Analyst
Blockchain Consultant
ICO Analyst
ICO Advisor
Entrepreneurial/Business Opportunities
Crypto Investor
Crypto Trader
Blockchain Mining Masternodes

And Many More....

Enterprise Blockchain - Hyperledger

Module 1: Introduction

Web 3.0
Blockchain
Distributed Ledger Technology

Module 2: Hyperledger

What is Hyperledger?
Hyperledger Umbrella
Why Hyperledger?

Module 3: Hyperledger Fabric

Introduction
Modularity
Permissioned Blockchain
Smart Contract/Chaincode
Deterministic v/s Non-Deterministic
Problems with Smart Contract
A New Approach by Fabric

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Privacy and Confidentiality

Pluggable Consensus

Module 4: Hyperledger Fabric Programming Fishing Industry Application

Defining Our Actors

Featured Hyperledger Fabric Elements

The Catch

The Incentives

The Sale

Regulators

Gaining Network Membership

Module 5: Key Components of Hyperledger Fabric

Roles within a Hyperledger Fabric Network

How to Reach Consensus

Transaction Flow

Channels State Database

State Contracts Membership

Service Provider(MSP)

Fabric-Certificate Authority Module

Module 6: Chaincode

Chaincode

Chaincode Key APIs

Overview of Chaincode Program

Sample Chaincode Decomposed - Dependencies

Sample Chaincode Decomposed - Struct

Sample Chaincode Decomposed - Init

Sample Chaincode Decomposed - Invoke Method

Sample Chaincode Decomposed - Main Function

Module 7: Chaincode in details

Setting the Stage

Defining the Asset Attributes

Invoke Method(Part 1)

Invoke Method(Part 2)

Chaincode Methods - query TUNA

Chaincode Methods - intLedger

Chaincode Methods - record tuna

Chaincode Methods - queryAllTuna

Chaincode Methods - changeTunaHolder

Module 8: Writing Application

Build an application on Hyperledger Fabric

And Many More....

ETHEREUM SOLIDITY SMART CONTRACTS

Module 1: Introduction

Web 3.0
Blockchain
Distributed Ledger Technology

Module 2: Ethereum

What is Ethereum?
Accounts
Gas and Payments
Transactions
Block Details
Transaction Execution
Contract
Ethereum Virtual
Machine & Gas Mining
Soft Fork and Hard Fork
Decentralized Application(Dapp)
Dapp Architecture

Decentralized Autonomous Organization(DAO)
Initial Coin Offering(ICO)
Challenges for Ethereum
Future of Ethereum

Module 3: Solidity

What is Solidity?
Lifecycle of Smart Contract
Development Environment
Programming with Solidity
Data Types
Predefined Global Variables and functions
Transaction/message call context
Transaction Context Block Context
Address Object
Build-in functions
Functions
Function Modifiers
Contract Inheritance
Error Handling
Events

Module 4: Web3.js

What is Web3.js?
Getting Started
Talking to Contracts Calling Contract
Functions Calling Payable
Functions Subscribing to Events

Module 5: Building Dapp

Project 1
Project 2

And Many More....

WHO CAN LEARN ?

- Anyone who wants to build a career in IT field.

- Entrepreneurs who want to grow their business.

- Students who are currently in college or university

CAREER OPPORTUNITIES

- Blockchain Project Manager

- Blockchain Developer

- Blockchain Engineer

- Blockchain Legal Consultants

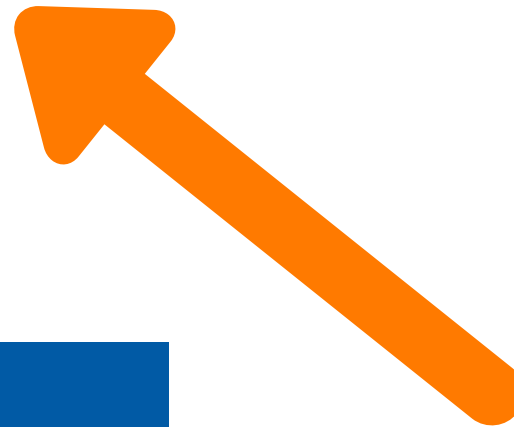- Blockchain Web Designer

- Blockchain Quality Engineer

And Many More....

PROCESS FOR SUCCESS

GET PLACED

GET TRAINED

ENROLL

FACILITIES OFFERED

- Practical Training on Live Projects

- 100% Placement Guarantee

- Interview Preparation

- Global Certification

- Fully functional labs

- Online / OfflineTraining

- Study Materials

- Expert level industry recognized training

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