

## Introduction to Blockchain Technology

**12 Weeks / 90 Hrs. (8 Hrs. per week)**

**Medium of Instruction: Bilingual (English & Hindi)**

### Objective

- To gain knowledge of
- Decentralized networks. And blockchain and other distributed ledger technologies.
- Ethereum and Hyperledger concept.
- Smart contracts development in Solidity
- Basic code development in Go language.
- Learn CSS, HTML, Javascript, Python, PHP with demo of project development

### Eligibility

Bachelor's Degree in Engineering / Technology / Statistics / Mathematics / Computer Science with 0-6 months of full-time experience OR Diploma (Computer Science / IT) with 2- 3 years of full-time experience.  
The full-time experience would include work, internship and apprenticeship undertaken post completion of regular graduation

### Prerequisite

- Candidate must have latest computer/laptop
- ✓ Internet connection
- ✓ **Rs. 4720/- (including GST)**

### Course Fees

### Certificate

Certificate will be provided to the participants after the online test, conducted at the end of the course.

### Methodology

- ✓ Instructor-led live classes
- ✓ Instructor-led hands-on lab sessions.
- ✓ Content Access through e-learning portal
- ✓ Assessment and Certification

### Intended Users

- ✓ IT employees in IT & Non-IT firms.
- ✓ Officials of PSUs & autonomous bodies.
- ✓ Employees with outdated job roles or those who are currently unemployed.
- ✓ Fresh recruits (who have been offered employment but are yet to take up a job as well as those undergoing /Selected for Internship/ apprenticeship roles in IT/ITeS .
- ✓ Employees with outdated skills

### Outcome

- On completion of the training incumbent will have good knowledge of
- Blockchain concepts
  - Ethereum and Hyperledger concept.
  - Smart contracts development in Solidity
  - Basic code development in Go language.
  - Learn to develop a Project using CSS, HTML, Javascript, Python, PHP

## Course Content

SNo	Course Outline	Hours
01	Module 1 (Bridge Module): Blockchain – An Introduction	8hrs
02	Module 2 (Bridge Module): Fundamentals of blockchain development	8hrs
03	Prior Learning Module	
	•Self-Learning- CSS, HTML, JavaScript, PHP and a database/Python/Go language/Java/Node Js- Design process including Work flow and Problem solving approach to be learned,	15hrs
	•Case study-To justify Programming Concept Knowledge- Python/Java/Go language/Java/Node Js- Workflows, Strategy, Concept for Case study to be outlined •Cloud Technology	25hrs
04	•Mini Project-using CSS, HTML, JavaScript, PHP and a database/Python/Go language/Java/Node Js	34hrs
	Total	90 hrs

## Faculty

<b>Mr Tapas Trivedy</b>	<b>Ms Rashmi Mandal (Vijayvergiya)</b>	<b>MsDebapriya Bhattacharyya</b>
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