

## Solidity Smart Contract Development

1 Weeks / 10 Hrs. (2 Hrs. per day)

Medium of Instruction: Bilingual (English & Hindi)

### Objective

To implement smart contracts used in Ethereum Blockchain one language governs i.e Solidity. Solidity targets the Ethereum Virtual Machine (EVM). Also we can say that it is widely influenced by C++, Python and JavaScript.

### Eligibility

Pursuing  
Graduation  
/Graduate/  
Post  
Graduate

### Prerequisite

Candidate must have latest computer/laptop  
Internet connection Rs.

500/- +GST

### Course Fees

### Certificate

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

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

### Methodology

### Intended Users

College students who are planning to start their projects in Blockchain can take up this course to learn about Smart contract development, deployment and functioning in public Blockchain.

### Outcome

The learner will learn the Ethereum key elements and gain a knowledge about Smart Contracts in solidity

## Course Content

SNo	Course Outline	Hours
01	➤ <i>Blockchain – Basics of Blockchain</i>	1 hr
02	➤ <i>Ethereum-Basics, Types, Gas in Ethereum, Concept of EVM</i>	1 hr
03	➤ <i>Introduction to CryptoWallets- Metamask, Types of account in Ethereum.</i>	1 hr
04	➤ <i>Local Development Network-Ganache.</i> ➤ <i>Introduction to Smart Contract and its importance.</i>	1 hr
05	➤ <i>Solidity- Datatypes, Enums, Loops, Mapping, Structure, Modifiers, Events, Arrays</i>	5 hrs
06	➤ <i>.Introduction to ERC20 Tokens</i>	1 hr
	<i>Total</i>	10 hrs

## Faculty

Ms Rashmi Mandal (Vijayvergiya)	Ms Krishnakali Kar Khan
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