**CODELANDCS BLOCKCHAIN DEVELOPMENT SYLLABUS**

**WEEK 8**

**DAY 3**

**INTRODUCTION ERC-20 TOKEN**

Welcome to this lecture on ERC-20 tokens, one of the **most popular standards** for **creating and managing digital assets** on the Ethereum blockchain. In this lecture, we will explore the history and development of ERC-20 tokens, as well as their key features, benefits, and use cases.

First, let's begin by discussing what ERC-20 tokens are and how they came to be. ERC-20 stands for **Ethereum Request for Comments 20,** which is a technical standard for smart contracts on the Ethereum blockchain. This standard was proposed in November 2015 by **Fabian Vogelsteller,** a developer in the Ethereum community, and was later adopted by the Ethereum Foundation.

ERC-20 tokens are **digital assets that are created and managed using smart contracts on the Ethereum blockchain**. These tokens have become increasingly popular over the years because they allow anyone to create their own unique digital asset and distribute it to a global audience, without the need for intermediaries such as banks or financial institutions.

One of the key benefits of ERC-20 tokens is their **interoperability,** meaning they can be **exchanged or traded with other ERC-20 tokens** or any other compatible digital asset. This makes it easier for developers and users to create and interact with a wide range of decentralized applications, or dApps, that use ERC-20 tokens as their native currency.

In addition, ERC-20 tokens have a number of other features that make them attractive to developers and users alike. These include the ability to **create custom token supply**, set the token name and symbol, define the number of decimal places, and set other parameters that can be used to control the token's behavior and functionality.

However, with the popularity of ERC-20 tokens also comes a number of challenges and risks. These include the potential for scams and fraudulent activities, as well as issues related to token security, governance, and regulatory compliance.

Throughout this lecture, we will explore these topics in more detail and provide you with a comprehensive understanding of ERC-20 tokens and their role in the digital asset ecosystem. We will also discuss some of the most notable use cases of ERC-20 tokens, such as **ICOs** (Initial Coin Offerings), **stablecoins**, and **governance tokens**.

By the end of this lecture, you will have a solid understanding of ERC-20 tokens and be able to apply this knowledge to your own blockchain projects or investment decisions. So, let's dive in and explore the exciting world of ERC-20 tokens!