**Lecture 3 Notes**

Slide 4

* A cryptocurrency is a new form of digital asset based on a network that is distributed across a large number of computers.
* This decentralized structure allows them to exist outside the control of governments and central authorities.
* A cryptocurrency is a digital or virtual currency that is secured by cryptography, which makes it nearly impossible to counterfeit or double-spend.
* Many cryptocurrencies are decentralized networks based on blockchain technology—a distributed ledger enforced by a disparate network of computers.
* A defining feature of cryptocurrencies is that they are generally not issued by any central authority, rendering them theoretically immune to government interference or manipulation.
* The first blockchain-based cryptocurrency was Bitcoin, which still remains the most popular and most valuable.

Slide 5

* Today, there are thousands of alternate cryptocurrencies with various functions and specifications. Some of these are clones of Bitcoin
* First Let us discuss few currency values in Indian rupee
* The value of 1 Bitcoin is approximately 5,66,135.47 Indian Rupee
* The value of 1 Litecoin is approximately 3,238.11 Indian Rupee
* Let us discuss about the few cryptocurrency detail

Slide 6

* First one we are discussing is Bitcoin Cash, split into two cryptocurrencies: Bitcoin Cash, and Bitcoin SV (Satoshi's Vision). Bitcoin Cash is sometimes also referred to as Bcash.
* It was designed on 1st August 2017,
* Ledger started on 3rd January 2009,
* Its Supply limit is 21,000,000 BCH
* Ticker symbol for this is BCH

Slide 7

Second, we are discussing is Monero, open-source cryptocurrency created in April 2014

* Ledger started on 3rd January 2009,
* Latest release: 0.14.0.2 / 8 March

Slide 8

Next one is Dash, it is an open source cryptocurrency

* It is Written in: C++
* Previous names: Xcoin, Darkcoin
* It was released in 18 January 2014
* Latest release was on 0.14.0.2 / 4 July 2019

Slide 9

Dogecoin is a cryptocurrency

* It uses Scrypt-based Hash function:
* Developed by  Billy Markus
* It is designed in: C+[+](https://www.google.com/search?safe=strict&sa=X&rlz=1C1EJFC_enIN861IN861&biw=1366&bih=657&sxsrf=ACYBGNTVxqamHRhEC5vfqrQB18uVHUdJUA:1578560147061&q=C%2B%2B&stick=H4sIAAAAAAAAAOPgE-LSz9U3qMqtyLYsUeIAsbPSC9O1dDLKrfST83NyUpNLMvPz9Ivz00rKE4tSrQqK8tOLEnNzM_PSFXIS89JLE9NTF7EyO2trAwBvk6mzTAAAAA&ved=2ahUKEwjFvcnmkvbmAhUMzDgGHbO7C3wQmxMoATAhegQIDBAo) Programming language

Slide 10

NEM is a peer-to-peer cryptocurrency and blockchain platform launched on March 31, 2015 written in Java.

It is designed in JAVA, C++.Qt Programming languages:

Slide 11

Nxt is an open source cryptocurrency and payment network launched in 2013 by anonymous software developer BCNext.

* It uses proof-of-stake to reach consensus for transactions—as such there is a static money supply and, unlike bitcoin, no mining.
* It introduced on 24 November 2013
* It is designed in JAVA, Programming language

Slide 12

Peercoin, also known as PPCoin or PPC, is a peer-to-peer cryptocurrency utilizing both proof-of-stake and proof-of-work systems. Peercoin is based on an August 2012 paper which listed the authors as Scott Nadal and Sunny King. King, who also created Primecoin, is a pseudonym.

* It introduced on: 12 August 2012,
* It is designed in C++,Qt Programming languages

Slide 13

Primecoin is a cryptocurrency that implements a proof-of-work system that searches for chains of prime numbers. Launched on July 7, 2013 by anonymous hacker and peercoin founder Sunny King, Primecoin was the first cryptocurrency to have a proof-of-work system with a practical use.

* It released on 7 July 2013
* It is designed in C++ Programming language:

Slide 14

PotCoin is a peer-to-peer cryptocurrency which exists with the aim of becoming the standard form of payment for the legalized cannabis industry.

* It released on January 21, 2014
* Hash function for this is written in Scrypt

Slide 15

Titcoin is a type of digital currency called a cryptocurrency that uses pornography on a decentralized peer-to-peer network to manage the issuance of new currency units while simultaneously processing transactions.

* It introduced on June 21, 2014; 5 years ago