

# Introduction to blockchain nodes and the Galaxy node network

September 3, 2018

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## General description

Blockchain nodes are vital to consensus mechanisms. Nodes vary in tasks that they perform in a blockchain network, from light clients to full nodes executing computation and validation. This course provides a full understanding on how nodes work, why their so important and introduces students to the Galaxy node network, which is a blockchain agnostic solution that bootstraps blockchain node count and provides technical solutions to a variety of issues due to low node count.

## Course outline

### Part I: Quick introduction and pitfalls of blockchain nodes

- + What is a blockchain
- + What blockchains are good at
  - + Use cases & examples
- + What blockchains are bad at
  - + Use cases & examples
- + What is a blockchain node
- + Why nodes are important to blockchains and scalability

### Part II: Why Galaxy matters

- + What is Galaxy node network and how it works today

- + What Galaxy node network could be good at in the future

### **Part III: Installing, running and maintaining a Galaxy Pi Node**

- + Install and sync Galaxy
- + Create address
- + Send / receive coin
- + Why and how to maintain a Galaxy node
  - + Get Galaxy coin voucher

### **Learning outcome**

At the end of this one hour introduction to blockchain nodes and Galaxy node network session, students will be able to understand blockchain nodes and why they're so important to blockchain networks, what Galaxy is, why Galaxy is important and finally, how to become a Galaxy full node.

### **Target Groups**

Technical students in the Master of Arts in Economics and the Master of Science in Computer Science. Students interested in Crypto and Crypto Economics.

### **Languages**

Deutsch

### **Course Materials**

Students will receive a Galaxy Pi Node

### **Course director**

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