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## SYLLABUS TRAINING IOT BUSINESS

### Day One

#### Day One

##### 1. WHAT is IoT

- IoT Definiton
- IoT Architecture
- IoT Standard (2G/3G/4G, LTE-M/eMTC, NB-IoT, Sigfox, LoRa)
- IoT Regulation in Indonesia

##### 2. WHY is IoT

- Business Driven
- Technology Driven

##### 3. WHO is IoT Player

- Indonesian Ecosystems

##### 4. WHEN, WHERE and HOW To Create IoT Business Model

Practicing to create your IoT Business Model

- Defining Customer Segments
- Defining Customer Relationships
- Defining Channels
- Defining Value Propositions
- Defining Key Partner
- Defining Key Resources
- Defining Key Activities
- Defining Revenue Streams
- Defining Cost Structure

Practicing to create your IoT Timeline

Practicing to create your IoT Financial Projection

### Day Two

#### Simple and Awesome Home IoT System (SWIT)

##### 1. What is SWIT?

- Definition
- System Goal
- Architecture
- Technology Standard

##### 2. Ingredients

- Hardware :
  - ESP32, Sensors (DHT22, Human Motion RCWL-0516, Fire Detection), Actuator (SSR)
- Software :
  - Atom, Arduino, Platformio, Python, NodeJS
- Connection :
  - WiFi, Bluetooth, AdafruitIO, IFTTT
- Where to get it?

### 3. Platformio

- Specification
- Configuration
- Basic Usage

### 4. ESP32

- Specification
- Programming
- Hello world
- Basic Input Output

### 5. DHT22

- Specification
- Wiring and Programming

### 6. RCWL-0516

- Specification
- Wiring and Programming

### 7. Fire Detection

- Specification
- Wiring and Programming

### 8. SSR

- Specification
- Wiring and Programming

### 9. AdafruitIO

- Feature
- Signup
- Feed and Dashboard
- API Library

### 10. IFTTT

- Feature
- Signup
- Recipes

### 11. SWIT Building

- Hardware Wiring
- Software Programming
- Testing

### 12. Finish

- Showoff

### Free :

- Systems IoT ( Internet of Things)
- Hardware : Sensor Informasi Suhu, Sensor kelembaban Udara, Sensor Radar, Sensor Kebakaran, Kontroling systems peralatan listrik