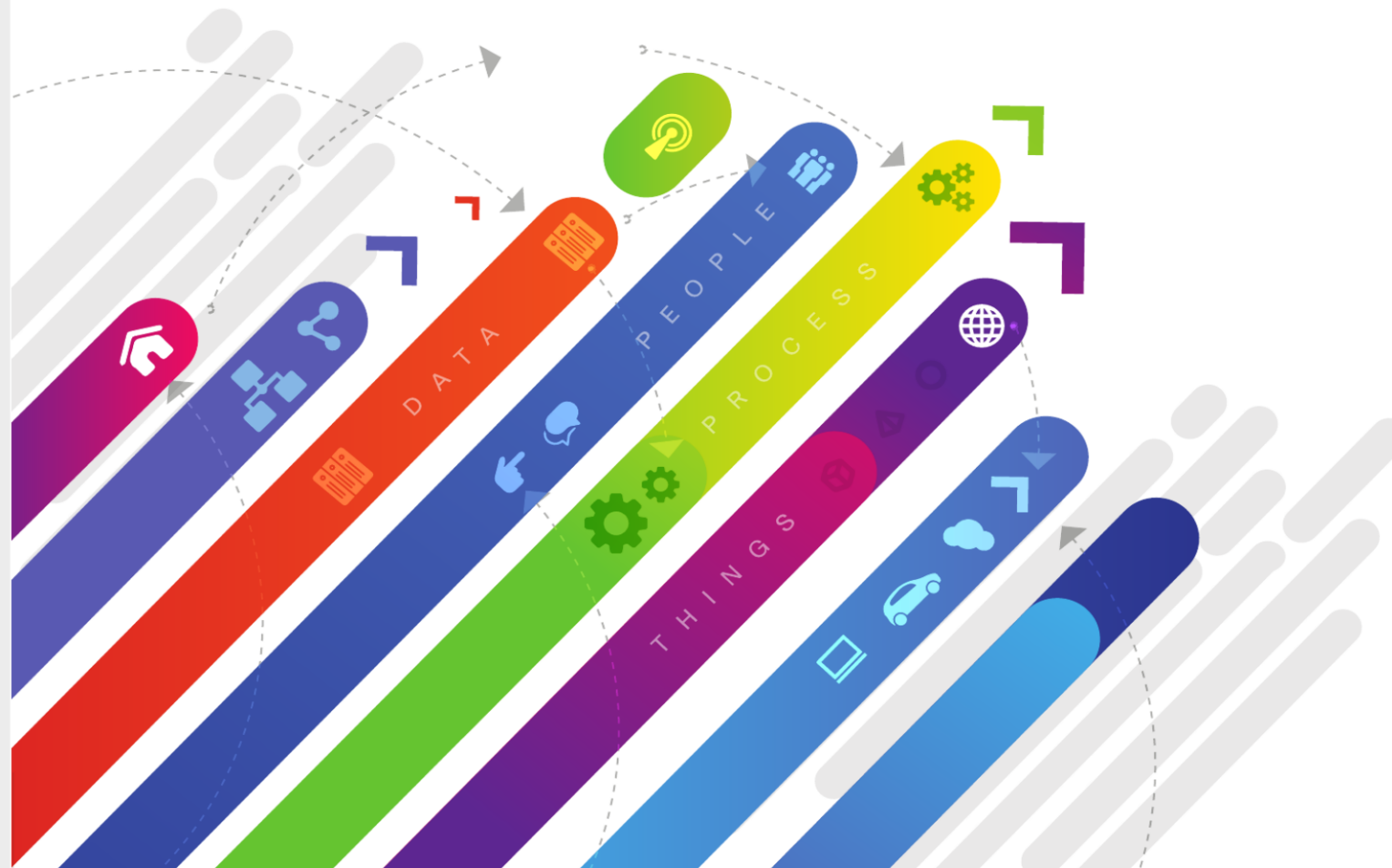




INTERNET OF THINGS

# CENTRE OF EXCELLENCE



## About CoE

The Centre of Excellence is a joint initiative between Cisco and RVCE, Bengaluru, to set up an environment that would empower young minds through knowledge and training for enhancing employability, research and innovation in emerging field of Internet of Things (IoT).

## Internship Program

Includes 3 weeks Training hands on training with strong fundamental approach towards learning to develop IoT Solutions using latest tools and technologies addressing the needs of industry and society

## Internship Duration

14-08-2023  
to  
31-09-2023

## Index

- Internship Program schedule
- Some of the IoT Kit devices
- Programming Languages tools, technologies and Frameworks
- Fees and contact details



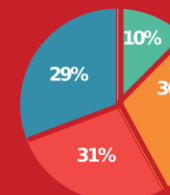
# CISCO-RVCE

Center of Excellence in Internet of Things  
6weeks Internship schedule



MQTT Dashboards Integration,  
Visualization and Monitoring  
sensor data connected  
through Things &  
Development boards,  
Custom dashboard  
Development and cloud  
deployment, Analytic  
and Visualization

**week 6**



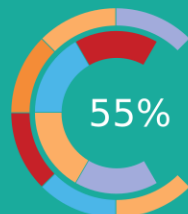
Evaluation

Live  
Projects  
and  
Demos

**week 4-5**

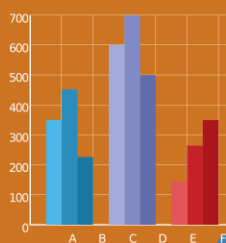


**week 3**



RPi installation  
Fundamentals  
of  
Linux Networking  
Server and Services Setup, Git

**week 2**



Embedded Programming,  
Signal Processing, driver development  
Understanding the ECO System  
of Raspberry pi, Arduino and ESP32

**week 1**



Fundamentals of Physics, Electronics, Programming  
Protocols, Standard and Things relevant to IoT

# CISCO-RVCE-CoE-IoT



**some of the sensor,actuators and boards provided are**

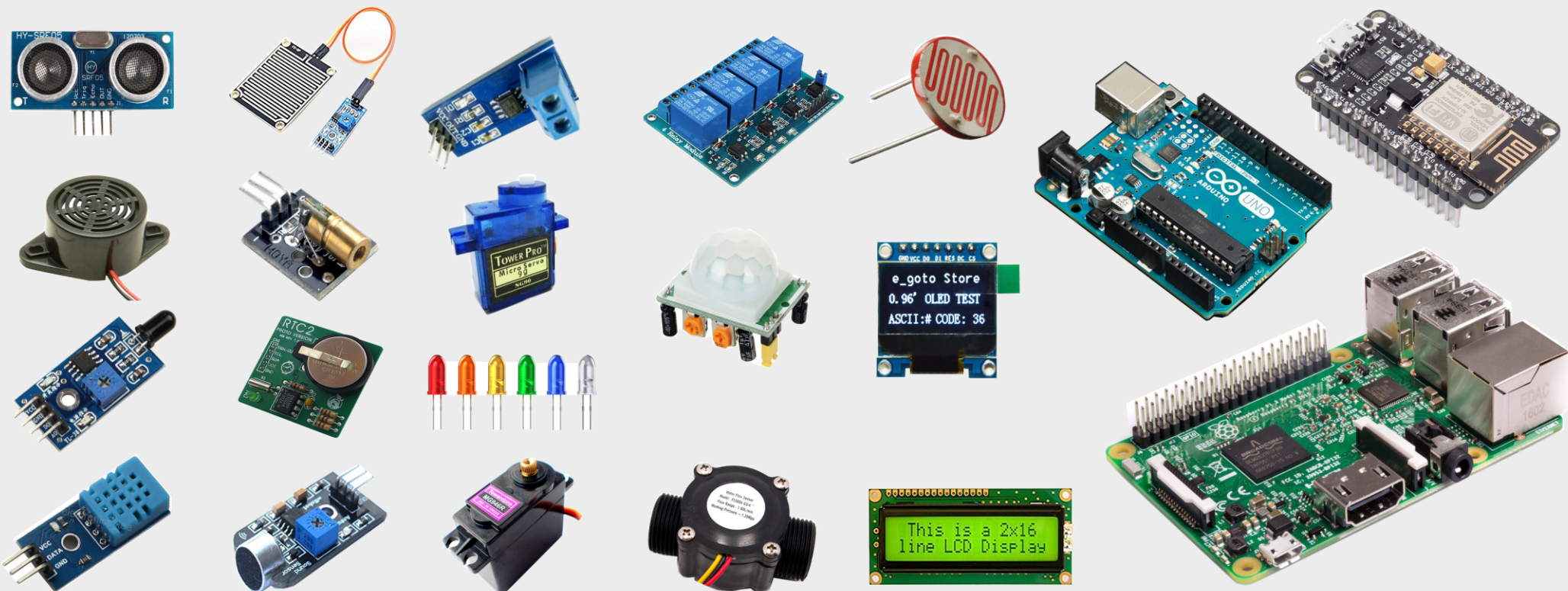
Temperature sensor and Humidity Sensor PIR Motion Sensor, Ultrasonic Sensor and sound sensor,LDR Sensor, Current Sensor Flame Sensor and Rain Sensor, FM receiver and IR receiver LED, Buzzer ( active and passive),Servo Motor ( Micro and Metal gear ) Water level , temeptrature and Flow sensors, 4 channel Relay, Laser module, OLED, LCD RTC Clock and Button ( Button with small switch )

**The combination of tasks will lead to minor projects related to**

Home / Office Automation, Security System like intruder Detection Power consumption monitoring, Agriculture related Automation Health Monitoring, live stock management , Smart billing system and more

**Online dashboards and mobile app integration + Demo**

adafruit and similar dashboards, Blynk and similar apps, Thingsboard django or javascript based IoT applications will be facilitated





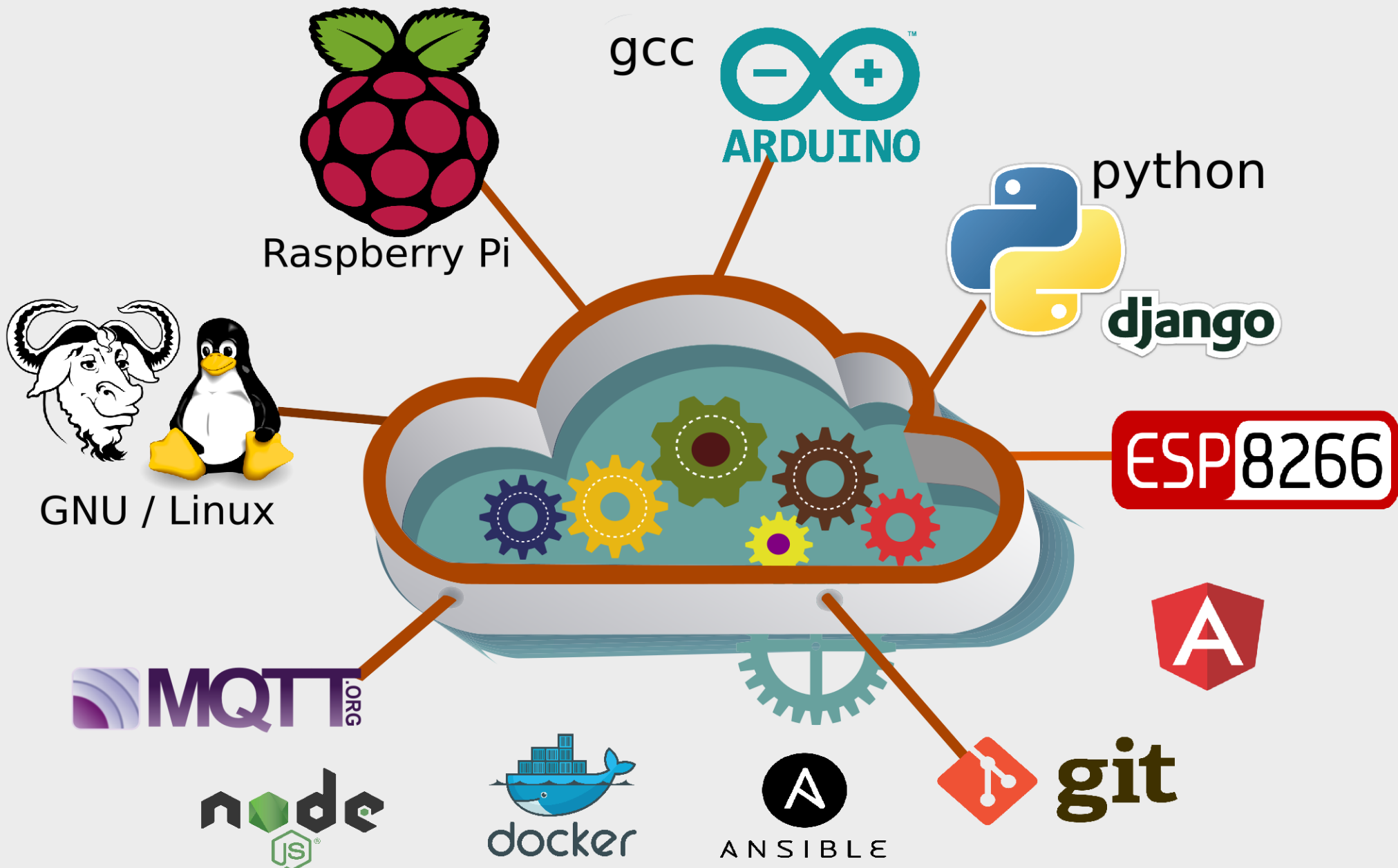
# CISCO-RVCE

Center of Excellence in Internet of Things



## 6 weeks Internship Program

Hardware, Programming Languages, Frameworks, Protocols, Standards Covered in the Training Program



# CISCO-RVCE-COE-IoT

## 6 weeks Industry Oriented Internship Highlights



### Projects Domains

Agriculture Automation  
Health Care,  
Smart City Automation  
Home / office Automation  
industrialAutomtaion

### Duration: 6 weeks



Blended mode  
Live Projects Facilitaion  
IoT Kits Provided

### Sensors , Boards , languages



20 + Sensors, Arduino,  
Raspberry Pi esp8266,  
Python, django  
gcc, javascript etc

Internship Facilitation Charges

covering IoT Kits and Live Project Experience



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CISCO-RVCE

Center of Excellence in Internet of Things



**6 weeks Internship Program**

To Visit the Center of Excellence  
or Any enquiries related to internship

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