

# SREEPATHY INSTITUTE OF MANAGEMENT AND TECHNOLOGY (SIMAT)

Vavanoor, Palakkad - 679 533

Innovation & Entrepreneurship Development Cell



SIMAT/IEDC/2020/147

08/03/2021

## LoRaWAN Gateway Installation

LoRaWAN Gateway installed at SIMAT' campus on March 8, 2021. LoRaWAN Gateway installed by IEDC-KSUM is associated with ICFOSS. There were 10 internal faculty participants in the installation process. Faculty coordinators were Sebin Sunny P (IEDC Nodal Officer), Suhas K N (LI EEE), Shibu K (LI EEE), Hari C N (LI ME), Babu K (TI EEE). A MoU was signed between ICFOSS and SIMAT' to install a LoRaWAN Gateway in Sreepathy campus on 5th March 2021. LoRa stands for Long Range and the gateway provided by ICFOSS, Govt. of Kerala, supports a LoS communication of a range of 30 KMs. The proposed Gateway can be used by students for doing IoT based projects, Researchers and IoT based startups. The Gateway is having a capacity of 10K nodes and can be scaled by providing technology updates. The total cost for the entire installation is 1.5 Lacs. Following equipments were installed at Sreepathy.

### a) LoRaWAN Gateway KIT :

- Gateway - 1
- Antenna with cable - 1
- Power Supply - 1
- Passive PoE - 1
- Mounting Bracket - 1

### b) LoRaWAN edge node KIT :

- Dust Concentration Monitoring Device - 1
- ULPLoRa2.1 Development Board - 2
- ACS712 CT - 1
- Light Sensor - 1
- Soil Moisture Sensor - 1
- ADXL345 - 1
- FTDI with USB cable - 1
- Copper wire Antenna - 2



**Sujith M S**  
**Asst. IEDC Nodal Officer**  
**Sreepathy Institute of Management And Technology**  
**Vavanoor, Palakkad – 679533**  
**Mob: +91 9400622414**