

# Galgotias College of Engineering & Technology

## Details of Lab Equipment : 2023-24

### Department of Computer Science Engineering Labs

#### Lab No.-GBS-207

#### Name: Internet of Things

**Lab/ Major Equipments** 36Computers (CPU- (Processor) 12th Gen Intel (R) Core (TM) i5 -12500 3.00Ghz

Ram- 8gb

Rom- SSD 512gb

Mouse - hp

Keyboard - hp

Monitor- 23.8in hp)

**Description of Labs:** The Internet of Things (IoT) Lab provides a hands-on learning environment for students to explore the integration of physical devices with internet connectivity and data exchange capabilities. Through practical experiments and projects, participants delve into IoT concepts such as sensor networks, communication protocols, and data analytics. The lab covers topics including device integration, data processing, and IoT application development, enabling students to create innovative solutions for various domains such as smart homes, healthcare, and agriculture. Emphasis is placed on understanding the challenges and opportunities in deploying IoT systems, including security, interoperability, and scalability. Additionally, the lab encourages experimentation with emerging IoT technologies such as edge computing and blockchain. By the end of the course, students gain proficiency in designing, implementing, and managing IoT solutions, preparing them for careers in the rapidly evolving field of IoT.

