

# Galgotias College of Engineering & Technology

## Details of Lab Equipment : 2023-24

### Department of Computer Science Engineering Labs

#### Lab No.-E-207

#### Name: Deep Learning Laboratory

**Lab/ Major Equipments** 34Computers (CPU- (Processor) 12th Gen Intel (R) Core (TM) i5 -12500 3.00Ghz

Ram- 16 gb

Rom- SSD 512gb

Mouse - hp

Keyboard - hp

Monitor- 23.8in hp)

**Description of Labs:** The Deep Learning Laboratory offers a comprehensive exploration of advanced neural network architectures and techniques. Through hands-on projects and experiments, students delve into deep learning concepts such as convolutional neural networks (CNNs), recurrent neural networks (RNNs), and generative adversarial networks (GANs). The lab provides access to state-of-the-art deep learning frameworks and tools for model development, training, and evaluation. Participants learn to tackle complex tasks such as image recognition, natural language processing, and sequence prediction. Emphasis is placed on understanding the theoretical foundations of deep learning algorithms and their practical implementations. Additionally, the lab encourages experimentation with cutting-edge research topics in deep learning, fostering innovation and creativity. By the end of the course, students acquire advanced skills in deep learning and are

prepared to address challenging problems in artificial intelligence and related fields.

