

# **A Study on Basic Artificial Neural Network**

**Prof. Nitin Sharma**

Asst. Professor

St. Rock's College of Commerce and Science, Borivali (W), Mumbai, India

**Abstract:** *An artificial neural network (ANN) is a paradigm for information processing that takes its cues from how biological nervous systems, like the brain, function. The innovative structure of the information processing system is the fundamental component of this paradigm. It is made up of several, intricately linked processing units called neurons that cooperate to address particular issues. ANNs learn via imitation just like people do. Through a learning process, an ANN is tailored for a particular purpose, such as pattern recognition or data classification. The synaptic connections between the neurons in biological systems change as a result of learning. This also applies to ANNs. This article provides an outline of how artificial neural networks (ANNs) operate and are trained. Additionally, it explains the uses and benefits of ANN*

**Keywords:** ANN (Artificial Neural Network), Neurons, pattern recognition