

**ARTIFICIAL INTELLIGENCE (SE- 321)**



**DELHI TECHNOLOGICAL UNIVERSITY(DTU)**

**SYNOPSIS**

**ON**

**TOPIC: Radial Basis Function Network**

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# **INTRODUCTION**

This synopsis provides a detailed introduction to Radial Basis Function (RBF) Networks.

Radial Basis Function network was formulated by Broomhead and Lowe in 1988.

Radial basis function (RBF) networks are a commonly used type of artificial neural network for function approximation problems. Radial basis function networks are distinguished from other neural networks due to their universal approximation and faster learning speed. An RBF network is a type of feed forward neural network composed of three layers, namely the input layer, the hidden layer and the output layer.

RBF networks have many applications like function approximation, interpolation, classification and time series prediction. All these applications serve various industrial interests like stock price prediction, anomaly detection in data, fraud detection in financial transaction etc.