Academic Council Meeting No. and Date: 03 / February 14, 2022

Agenda Number: 7 Resolution Number: 13/5.3



VidyaPrasarak Mandal's B. N. Bandodkar College of Science (Autonomous), Thane



Certificate course in Artificial Neural Network

[With effect from Academic Year 2022-2023]

This page is intentionally left blank

Eligibility:

Passed 12th standard (HSC) of Maharashtra State Board / CBSE / ICSE board or equivalent.

Mode of Conduct:

Offline lectures / Online lectures

VPM's B.N.Bandodkar College of Science (Autonomous), Thane

Structure of Programme

CourseCode	Course Title	No. of lectures	Credits
BNBCCAN1T1	Certificate course in Artificial Neural Network	40	2

Syllabus

Course C	Code	Course Title	Credits	No. of lectures	
BNBCCA	N1T1	Certificate course in Artificial Neural Network	2		
Unit I:		The Brain Metaphor, Basics of Neuroscience, Artificial Neuro Network and architectures	ons, Neural	10	
Unit II:	•	Geometry of Binary Threshold Neurons and their networks, Supervised Learning I: Perceptron and LMS Supervised Learning II: Backpropagation and Beyond		10	
Unit III :		Neural Networks: A statistical pattern recognition perspective, Statis Learning Theory, Support Vector machines and Radial Basic Function Networks		10	

Books for Reference

1.	Neural Network, A classroom Approach by Satish Kumar 2 nd Edition, McGraw Hill
2.	Artificial Neural Network by Robert Schalkoff McGraw Hill

Pattern of Evaluation(8 Hours for examination, assessment and evaluation)

MCQ Test/ Online MCQ Test (Duration: 1 Hour)

Assessment and Evaluation of Case Study Reports submitted by participants (Topics for case study to be allotted by teachers in consultation with students)