

Details of e-contents prepared for online classes

Name of faculty	Name of subject	Topic name	Sub topic name	Types of e-content	Course name	Year of course	Link if uploaded anywhere
Pravin Kumar Pandey	Mobile Computing ECS-087	Adhoc networks, MAC issues and network protocols. Unit 5 Remaining part.	Adhoc networks, localization, MAC issues.	Hand written notes [PDF], PDF	B.Tech 4 th yr [CSE & IT]	2019-20	Shared via whatsapp group and Gmail, Google hangout.
			Routing protocols.				
			global state routing (GSR).				
			Destination sequenced distance vector routing (DSDV).				
			Dynamic source routing (DSR).				
			Ad Hoc on demand distance vector routing (AODV)				
			Temporary ordered routing algorithm (TORA).				
QoS in Ad Hoc Networks, applications.							
Pravin Kumar Pandey	Neural Network ECS-085	Multi-layered network architecture, Back propagation algorithm. Unit 3	Multi-layered network architecture.	Hand written notes [PDF]	B.Tech 4 th yr [CSE & IT]	2019-20	Shared via what's app group and Gmail.
			Back propagation algorithm.				
			Heuristics for making BP-algorithm performs better.				
			Accelerated learning BP (like recursive least square, quick prop, RPROP algorithm).				
			Approximation properties of RBF networks.				
			Comparison with multilayer perceptron.				
		Recurrent network and temporal feed-forward network. Unit 4	Recurrent network and temporal feed-forward network.	Hand written notes [PDF]	B.Tech 4 th yr [CSE & IT]	2019-20	Shared via what's app group and Gmail.
			Implementation with Back prorogation.				
			Self-organizing map and SOM algorithm.				
			Properties of feature map and computer simulation.				
			Principal component analysis.				
			Independent component analysis.				
			Application to image and signal processing.				
Pravin Kumar Pandey	Neural Network ECS-085	Complex valued NN, BP.	Complex valued NN.	Doc, PDF and PPT.	B.Tech 4 th yr	2019-20	Shared via what's app
			Complex valued BP.				

		Unit 5	Analyticity of activation function.		[CSE & IT]		group and Gmail.
			Application in 2D information processing.				
			Complexity analysis of network models.				
			Soft computing.				
			Neuro-Fuzzy-genetic algorithm Integration.				

REFERENCE BOOKS:

1. Charles Perkins, Mobile IP, Addison Wesley.
2. Hagen Demuth Beale, Neural Network Design, Cengage Learning.