

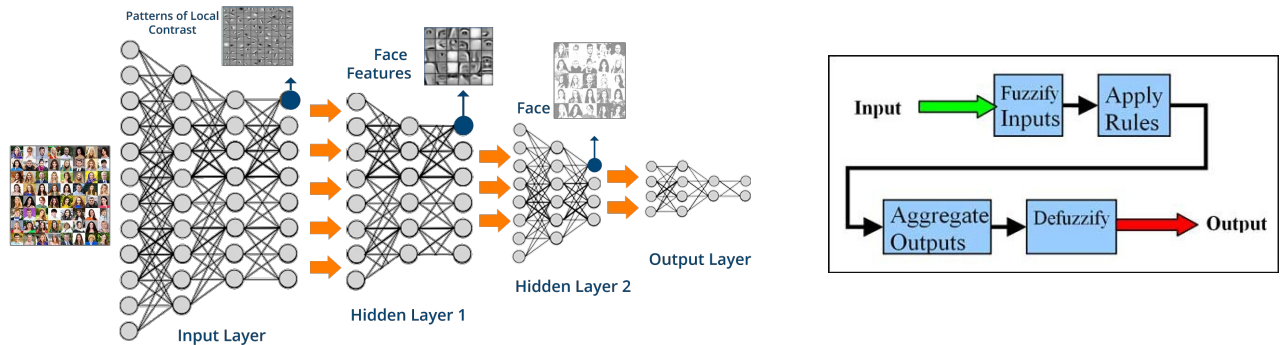
Manarat International University (MIU)

Department of Computer Science and Engineering
Neural Networks and Fuzzy Systems (CSE-433)

Course outline (Fall-2019)

Instructor: Md Mahedi Hasan

Course Diagram



Course Objective

- To understand the basic algorithms and functioning of artificial neural networks
- To be able to build, train and apply fully connected deep neural networks

Syllabus

S.L	Topic	Resources
1	Introduction to deep learning	Videos Repository CS230 Book Book
2	Review of Basic Concepts in Linear Algebra	
3	Feed Forward Neural Network	
4	Backpropagation Algorithms	
5	Optimization for Training Deep Models	
6	Restricted Boltzmann Machine	
7	Deep Autoencoder	
8	Recurrent & Recursive Nets	

Marks Distribution

S.L.	Exam	Mark	Syllabus
1	Midterm	20	1 – 4
2	Final	40	5 - 8
3	Lab	25	Cifar-10 Project + Report + Presentation
4	Class test	-	C-1 (Final Syllabus)
5	Teacher's Review	15	Class Test + Class Attendance +Home Work
Total		100	