

# Manarat International University (MIU)

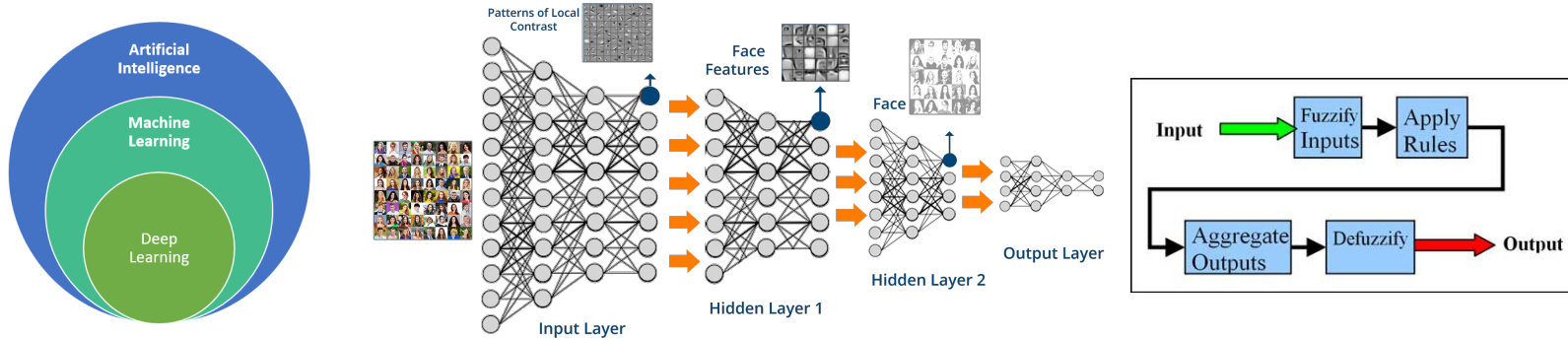
Department of Computer Science and Engineering

Neural Networks and Fuzzy Systems (CSE-433)

Fall-2019 Course outline

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	<a href="#">Repository</a> <a href="#">CS230</a> <a href="#">Book</a> <a href="#">Book</a>
2	Review of Basic Concepts in Linear Algebra	
3	Review of Basic Concepts in Matrix Calculus	
4	Feed Forward Neural Network	
5	Backpropagation Algorithms	
6	Optimization for Training Deep Models	
7	Recurrent & Recursive Nets	
8	Deep Generative Models	

## Marks Distribution

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

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