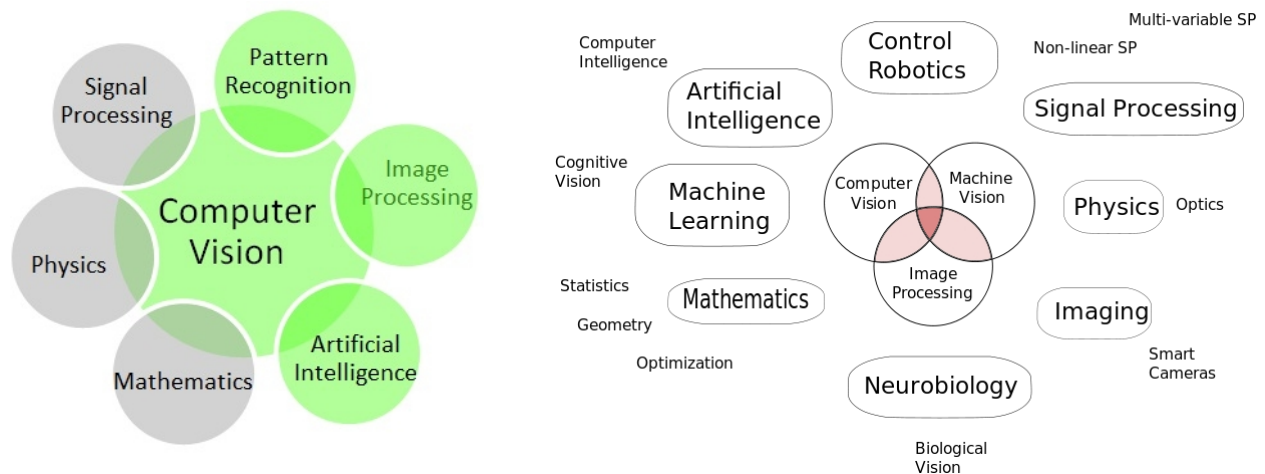


Manarat International University (MIU)  
 Department of Computer Science and Engineering  
 Computer Vision & Robotics (CSE-437)  
 Course outline (Summer-2020 )

### Course Trees



### Course Objective

- a) To understand the fundamentals of image classification, and object recognition
- b) To familiar with the major deep learning based-algorithms involved in computer vision

### Syllabus

S.L	Topic	Content	Resources
1	Introduction to Computer Vision	<a href="#">slides</a>	<a href="#">Repository</a>  <a href="#">CS231n</a>  <a href="#">CSE599G1</a>  <a href="#">Coursera</a>  <a href="#">Book</a>
2	Image Classification	<a href="#">slides</a> <a href="#">notes</a>	
3	Loss Functions and Optimization	<a href="#">slides</a> <a href="#">notes-1</a> <a href="#">notes-2</a>	
4	Convolutional Neural Networks	<a href="#">slides</a> <a href="#">notes</a>	
5	Training Neural Networks	<a href="#">slides</a> <a href="#">notes-1</a> <a href="#">notes-2</a>	
6	CNN Architectures	<a href="#">slides</a>	
7	Object Detection and Segmentation	<a href="#">slides</a>	
8	Recurrent Neural Networks & LSTM	<a href="#">slides</a> <a href="#">notes</a>	

### Marks Distribution

S.L.	Exam	Mark	Syllabus
1	Midterm	30	1 – 4
2	Final	50	5 - 8
3	Teacher's Review	20	Quiz + Class Test + Class Performance
<b>Total</b>		<b>100</b>	

Due to the current COVID-19 situation different arrangements will have to make to assessments to facilitate remote learning and teaching.