



Full Syllabus



Course Title

Computer Vision

Lecturer

Prof. Shai Avidan and Prof. Nahum Kiryati

Semester

Fall

Course requirements

Pre-requisite: Image Processing

Course format:

The course this year will be given in a reverse class format.

Students are expected to watch a video lecture **before** class.

(The videos are recording of the lectures given last year in **English**)

The zoom meetings will focus on Q&A and review of the material covered in the video.

At the end of each zoom meeting there will be a Kahoot quiz.

Final grade components

10 % - 6 of best Kahoot quizzes

20% - 2 or 3 HW assignment (programming assignments in Python)

40% - Final Deep Learning project

30% - Exam

Course schedule

Class no. / Date	Subject and Requirements (assignments, reading materials, tasks, etc.)
1	Image Processing: Edge detection, Hough transform, Thin Plate Splines, Green theorem
2	Photometric methods for 3D reconstruction
3	Epipolar Geometry
4	Detection and representation of interest points
5	Markov Random Fields
6	Viola-Jones face detection algorithm
7	Graph Laplacian/Spectral Clustering
8	Deep Learning



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Required course reading

Optional course reading

Comments