Technion — Israel Institute of Technology
Faculty of Data and Decision Sciences

Modern Computer Vision (00970202)

Spring 2026

Instructor: Assaf Shocher
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Grading Policy

The final grade is composed of two equally weighted components. There is no final exam.

Component	Weight
Homework Assignments (5 sets)	50%
Final Project	50%

Homework Assignments

There are 5 homework sets distributed throughout the semester. Each includes a theoretical component and practical programming components.

Late Submission Policy

Students may submit homework late with no questions asked, provided that the total accumulated delay across all assignments does not exceed one week (7 calendar days). No per-assignment approval is needed.

For exceptional circumstances beyond this allowance (e.g., medical emergencies, reserve duty), students should contact the course staff.

Final Project

The final project is an in-depth assignment allowing students to explore a computer vision topic in greater depth. The final submission date will be set after the exam period. Further details will be provided during the semester.

Academic Integrity

For homework assignments, students may discuss general ideas with peers, but all submitted code and written work must be their own. Copying solutions from other students, the internet, or AI tools constitutes a violation. For the final project the students are free to use any sources including AI and existing works as long as all sources are disclosed and all external code, methods or models are cited.

Communication

Announcements and materials are managed through the course website and Moodle. For questions, use the course forum. For personal matters, email the course staff directly.

Weekly Schedule

Sundays. Lecture 13:30–16:30, Tutorial 16:30–17:30.

Week	Date	Lecture Topic	Homework
1	Apr 12	Basics of Imaging	HW1 out
2	Apr 19	ML Basics	
—	*Apr 26–May 10*	*No class — Exam period*	
3	May 17	Neural Networks	HW2 out / HW1 due
4	May 24	Frequencies & Sampling	
5	May 31	CNNs	HW2 due / HW3 out
6	Jun 7	Training & Architectures	
7	Jun 14	Epipolar Geometry	
8	Jun 21	Motion + Localization	HW4 out / HW3 due
9	Jun 28	Generative Models 1	
10	Jul 5	Generative Models 2	HW4 due / HW5 out
11	Jul 12	Self-Supervision + Interpretability	
12	Jul 19	Neural Rendering	HW5 due