QFT II - Gauge theory - 118133 (Shlomo Razamat).

- Contact information: Room 707 (Lidow building seventh floor), email: razamat@physics.technion.ac.il.
- Office hours: Please drop by between 9:00 18:00, email first for better success.
- \bullet Grading: -55% Home exercises (approximately one exercise every two weeks, about five per course). To get full grade not all problems need to be solved. 45% Presentation (about 45 min-1 hour) of one of the advanced topics we will not get to cover in the course.
- Syllabus: Gauge theories, classical aspects, quantization, BRST symmetry, Effective field theory, Renormalization of gauge theories, Renormalization group, Spontaneous symmetry breaking, Anomalies.
 - Assumptions: Quantum mechanics, Relativity, Good familiarity with QFT I.
 - Material: Primary source:
 - S. Weinberg, QFT volume II

More references:

- Peskin, Schroeder, QFT
- Srednicki, QFT
- Ryder, QFT
- Ramond, Primer to QFT