

روز	ساعت	موضوع
شنبه ۹۴/۰۳/۲۳	۸-۱۰	1. Introduction- De_nitions and Thresholds <ul style="list-style-type: none"> ➤ Strong Laser Field Interaction, An Overview ➤ Progress in Laser Technology ➤ Basics of Plasma Physics ➤ Laser Plasma Interaction ➤ Single Electron Motion in a Plane Wave- Nonrelativistic Motion
	۱۰-۱۲	2. Single Electrons Motion in EM Waves <ul style="list-style-type: none"> ➤ Single Electron Motion in a Plane Wave- Relativistic Motion ➤ Finite Pulse Duration ➤ Ponderomotive Force ➤ Lawson-Woodward Theorem
یکشنبه ۹۴/۰۳/۲۴	۸-۱۰	3. Vacuum Electron Acceleration by Lasers <ul style="list-style-type: none"> ➤ Laser-based Accelerators ➤ Laser Modes, The Involving Mathematics ➤ Mechanisms of Direct Electron Acceleration by Laser ➤ Applying an External Inhomogeneous Magnetic Field
	۱۰-۱۲	4. Electron Acceleration <ul style="list-style-type: none"> ➤ Plasma-based Accelerators, An Overview ➤ Nonlinear Plane Waves in a Cold Plasma ➤ Wavebreaking ➤ Wake_eld Generation
دوشنبه ۹۴/۰۳/۲۵	۸-۱۰	5. Ion Acceleration <ul style="list-style-type: none"> ➤ Target Normal Sheath Acceleration (TNSA) ➤ Radiation Pressure Acceleration
	۱۰-۱۲	6. Numerical Simulation <ul style="list-style-type: none"> ➤ Particle-in-Cell (PIC) Simulation ➤ Codes