

CM17-LecturePlan

Week 1	01 Aug	Introduction	03 Aug	Review of Newtonian mechanics	
Week 2	08 Aug	NO LECTURE	10 Aug	NO LECTURE	
Week 3	15 Aug	INDEPENDENCE DAY	17 Aug	Constraints, Generalized coordinates	Drop Test (Aug 20)
Week 4	22 Aug	Virtual work and Lagrange's equations	24 Aug	Applications	HW1
Week 5	29 Aug	Least action and Lagrange's equation	31 Aug	Method of Lagrange multipliers	
Week 6	05 Sep	Legendre transforms, Hamilton's equations	07 Sep	Applications	HW2
Week 7	12 Sep	Two-body central force formalism	14 Sep	Kepler problem, planetary motion	
Week 8	19 Sep	Scattering in central force	21 Sep	Applications	HW3
Week 9	26 Sep	Oscillation formalism, small oscillations	28 Sep	Anharmonic oscillations, perturbation	
Week 10	03 Oct	Forced oscillations	05 Oct	Applications	MIDTERM (Oct 6)
Week 11	10 Oct	Rigid body kinematics	12 Oct	Rigid body dynamics	HW4
Week 12	17 Oct	Applications	19 Oct	DIWALI	
Week 13	24 Oct	Canonical transformations	26 Oct	Symplectic formulation	HW5
Week 14	31 Oct	Poisson brackets	28 Oct	Hamilton-Jacobi theory	
Week 15	07 Nov	Action-angle variables	09 Nov	Applications	HW6
Week 16	14 Nov	Continuous media	16 Nov	To classical theory of fields	Projects (Nov 19)
Week 17	21 Nov	NO LECTURE	23 Nov	NO LECTURE	
Week 18	28 Nov	Final remarks	30 Nov	NO LECTURE	
Week 19	05 Dec		07 Dec	Final Exam (Dec 07)	