
Select / Special Topics in Classical Mechanics **STiCM** - P.C.Deshmukh

Schedule for 12 units, to be given over 40 Lectures

Date on which Lecture(s) Given	Unit Number	Topic	Lecture Number
8/Feb/2010	Unit 0	Introduction, Scope of the Course – Introductory Lecture	L1
13/Feb/2010 (L2, L3) 15/Feb/2010 (L4, L5)	Unit 1	Equations of Motion	L2, L3, L4, L5
10/May/2010 (L7, L8) 11/May/2010 (L9, L10)	Unit 2	Oscillators, Resonances, Waves	L7, L8, L9, L10
12/May/2010 (L11, L12)	Unit 3	Polar Coordinates	L11, 12
21/May/2010 (L13, L14)	Unit 4	Dynamical Symmetry in the Kepler Problem	L13, L14
28/May/2010 (L15, L16) 31/May/2010 (L17, L18)	Unit 5	Real effects of pseudo forces - Accelerated frames of reference.	L15, L16 L17, L18
14/June/2010 (L19, L20) 15/June/2010 (L21, L22)	Unit 6	Special Theory of Relativity	L19, L20 L21, L22
23/June/2010 (L23, L24) 24/June/2010 (L25)	Unit 7	Potentials, Gradients, Fields	L23, L24 L25
31/July/2010 (L26, L27) 4pm 1/Aug/2010 (L28) 4pm	Unit 8	Gauss Law Equation of Continuity	L26 L27, L28
Sept/Oct 2010	Unit 9	Fluid Flow Bernoulli Principle	L29, L30 L31
Nov/Dec 2010	Unit 10	Classical Electrodynamics	L32, L33 L34, L35
Nov/Dec 2010	Unit 11	Chaotic Dynamical Systems	L36, L37 L38, L39
Dec 2010	Unit 12	The Scope, and Limitations of Classical Mechanics	L40