fiziks Liziks	Physics by fiziks Now at your home					
"Discipline is the Bridge between Goal and Success"						
Study Plan of Electromagnetic Theory for Pre-recorded Batches (For NET-JRF, GATE, JEST, TIFR Aspirant and M.Sc Students)						
Days	Enter Your Dates	Topics				
		PART-A: Vector Analysis				
Day: 1		Lecture 1: Introduction and Cartesion Coordinate System				
		Lecture 2: Spherical Polar Coordinate System				
Day: 2		Lecture 3: Cylindrical Coordinates System and Tranformation of Vector				
		Lecture 4: Gradient and Divergence				
		Lecture 5: Curl and Second Derivative				
Day: 3		Lecture 6: Line, Surface and Volume Integral, Gradient Theorem				
		Solve Assignment No 1: Lect-1 to Lect-5				
Dav: 4		Lecture 7: Gauss Divergence Theorem				
Day. 4		Lecture 8: Stoke'ss Theorem				
		Lecture 9: Miscellaneous Example Part-1				
Day: 5		Lecture 10: Miscellaneous Example Part-2				
		Lecture 11: Greens Theorem				
Day: 6		Solve Assignment No 2: Lect-6 to Lect-11				
Day: 7		Class Test 1: Vector Analysis (Lect-1 to Lect-11)				
PART-B: Electromagnetic Theory						
		Lecture: Syllabus Discussion of Electromgantic Theory				
Day: 8		Lecture 1: Coulomb's Law Part-1				
		Lecture 2: Coulomb's Law Part-2				
Dav: 9		Lecture 3: Gauss Law Part-1				
.,		Lecture 4: Gauss Law Part-2				
Day: 10		Lecture 5: Gauss Law Part-3				
-		Lecture 6: Electrostatic Potential Part-1				
Day 11		Lecture 7: Electrostatic Potential Part-2				
Day: 11		Lecture 8: Electrostatic Energy				
		Solve Assignment No. 1: Lect-1 to Lect-/				
Day: 12		Lecture 9: Properties of Conductor				
Dov: 12		Lecture 10: Electric Dipole				
Day: 13		Solve Assignment No. 2: Lect-8 to Lect-10				
Day. 14		Lecture 11: Polarisation Part 1				
Day: 15		Lecture 17: Polarisation Part-2				
		Lecture 12: Flectrostatic Boundary Conditions				
Day: 16		Lecture 14: Multinole Exanansion Part-1				
		Solve Assignment No. 3: Lect-11 to Lect-13				
Day: 17		Lecture 15: Multipole Exapansion Part-2				
		Lecture 16: Image Problem Part-1				
Day: 18		Lecture 17: Image Problem Part-2				
		Lecture 18: Motion of Charged Particles Part-1				
		Solve Assignment No. 4: Lect-14 to Lect-17				

Day: 19		Lecture 19: Motion of Charged Particles Part-2
		Lecture 20: Motion of Charged Particles Part-3
Day: 20		Solve Assignment No. 5: Lect-18 to Lect-20
Day: 21		Class Test 2:   ert-10, to   ert-17
Duy. 21		Lecture 21: Magnetic Force on Current Element in External Field
Day: 22		Lecture 22: Biot Savart Law Part-1
		Lecture 23: Biot Savart Law Part-2
Day: 23		Lecture 23: Amperes Law Part 1
		Lecture 24. Amperes Law Part 2
		Solve Assignment No. 61 Lost 24 to Lost 25
Day: 24		Solve Assignment No. 6. Lect-21 to Lect-25
		Lecture 20. Magnetic Dipolo Port 1
Day: 25		Lecture 27: Magnetic Dipole Part-1
		Lecture 20: Magnetic Dipole Fail-2
		Solve Assignment No. 71 Lest 26 to Lest 29
		Solve Assignment No. 7: Lect-26 to Lect-28
Day: 26		Lecture 30: Magnetisation Part-2
Day: 26		Lecture 31: Magnetostatic Boundary Conditions
Day 07		Solve Assignmen No. 8: Lect-29 to Lect-31
Day: 27		Class Test 3: Lect-18 to Lect-25
Day: 28		Class Test 4: Lect-26 to Lect-31
Day: 29		Lecture 32: Faradays Law Part-1
		Lecture 33: Faradays Law Part-2
D		Lecture 34: Mutual and Self Inductance
Day: 30		Lecture 35: Maxwell Equations
		Solve Assignment No. 9: Lect-32 to Lect-35
Day: 31		Lecture 36: EM Wave in Free Space
		Lecture 37: EM Wave in Free Space & Dielectric
		Lecture 38: EM Wave Inside Conductor
Day: 32		Lecture 39: Reflection and Transmission (Normal Incidence)
		Solve Assignment No. 10: Lect-36 to Lect-38
		Lecture 40: Reflection and Transmission (Oblique Incidence) Part-1
Day: 33		Lecture 41: Reflection and Transmission (Oblique Incidence) Part-2
		Solve Assignment No. 11: Lect-39 to Lect-41
Day: 34		Class Test 5: Lect-32 to Lect-35
Day: 35		Class Test 6: Lect-36 to Lect-41
Day: 36		Lecture 42: Rectangular Wave Guides Part-1
		Lecture 43: Rectangular Wave Guides Part-2
		Solve Assignment No. 12: Lect-42 to Lect-43
Day: 37		Lecture 44: Potential Formulation for Time Varying Fields
		Lecture 45: Retarded Potential
D		Lecture 46: Radiation from Moving Charges
Day: 38		Lecture 47: Superposition Principle and coherence Sources-Interference (Optics-Electromagnetic Theory)
		Solve Assignment No. 13: Lect-44 to Lect-46
Day: 39		Lecture 48: Young Double Slit Experiment Part-1 (Optics-Electromagnetic Theory)
		Lecture 49: Young Double Slit Experiment Part-2 (Optics-Electromagnetic Theory)
Day: 40		Lecture 50: Young Double Slit Experiment Part-3 (Optics-Electromagnetic Theory)
Dave 44		Lecture 51: Single Slit Diffraction (Optics-Electromagnetic Theory)
Day: 41		Revision
Day: 42		Class lest /: Lect-42 to Lect-46
Day: 43		Lecture 52: Double Slit Diffraction (Optics-Electromagnetic Theory)
		Lecture 53: Polarisation by Reflection and Malus Law (Optics-Electromagnetic Theory)
Day: 44		Lecture 54: Problems on Malus Law (Optics-Electromagnetic Theory)
		Lecture 55: Polarisation by Double Refraction (Optics-Electromagnetic Theory)
Day: 45		Lecture 56: Production of Elliptical and Circular Polarised Light (Optics-Electromagnetic Theory)
		Lecture 57: Quarter-Wave and Half-Wave Plate Polarisation (Optics-Electromagnetic Theory)
		Solve Assignment No. 14: Lect-47 to Lect-57 (Optics-Electromagnetic Theory)

PART-C: Relativistic Electrodynamics (Special Theory of Relativity)			
Day: 46		Lecture 1: Special Theory of Relativity Part-1	
		Lecture 2: Special Theory of Relativity Part-2	
Day: 47		Lecture 3: Relative Velocity Theory and Basic	
Day. 47		Lecture 4: Problem on Relative Speed	
Day: 48		Revision	
Day: 49		Class Test 8: Lect-47 to Lect-57 (Optics-Electromagnetic Theory)	
		Lecture 5: Length Contraction	
Day: 50		Lecture 6: Time Dialation	
		Solve Assignment No. 8: Special Theory of Relativity (Lect-1 to Lect-6)	
Day: 51		Lecture 7: Loss of Simulataneity	
Day. 51		Lecture 8: Relativistic Mass Part-1	
Daw 52		Lecture 9: Relativitstic Mass Part-2	
Day. 52		Lecture 10: Special Four Vectors	
Dav: 54		Lecture 11: Relativistic Electrodynamics	
Day: 54		Solve Assignment No. 9: Special Theory of Relativity (Lect-6 to Lect-11)	
Day: 55		Revision	
Day: 56		Class Test 9: Special Thoery of Relativity (Lect-1 to Lect-11)	