Lesson Plan (2nd Sem.)

Sub: Physics
Teacher Name - Manisha

B.Sc. Ist Yr
Sub. Name - Electricity, Magnetism & EM Theory

Time Period	Content
Ist week of Jan.	Gradient, Divergence & curl of vector
2nd week of Jan	Gauss Theorem & Stoke's Theorem
3rd week of Jan	Electrostatic field & potential
4th week of Jan	Laplace & Poisson Equ. & Gauss Law.
Ist week of Feb	Biot-Savrat law & applications
2nd week of Feb	Ampere's circuital law
3rd week of Feb	Magnetic Properties of Matter
4th week of Feb	Theory of Di, Para & Feeromagnetic
Ist week of March	Time varying e.m. fields
2nd week of March	Holi Break
3rd week of March	Electromagnetic waves
4th week of March	Maxwell Equations.
Ist week of April	D.C. current circuits
2nd week of April	Network theorems
3rd week of April	A.C. circuits
4th week of April	Series & Parallel LCR circuits

B.A. Ist (MDC)
Sub. Name - Fundamentals of Physics - II

Ist week of Jan	Light & optics
2nd week of Jan	Law of reflection & applications
3rd " " Jan	Refraction & applications
4th " " "	Total Internal Reflection & applications
Ist " " Feb	Scattering of light & applications
2nd " " "	Image formation through reflection
3rd " " "	Parabolic & spherical mirrors
4th " " "	Image formation through refraction

I st week of March	Camera & Eye
2nd " " "	Holi Break
3rd " " "	Telescope & Microscope
4th " " "	Electricity
I st " " April	Electric circuit
2nd " " "	Magnetic field
3rd " " "	Solenoid & Electromagnet
4th " " "	Electric power & transmission.

B.Sc. 2nd Year

I st week of Jan	Probability
2nd " " "	Microstate & Macrostate
3rd " " "	Maxwell Boltzmann statistics
4th " " "	Bose Einstein Statistics
I st " " Feb	Fermi - Direc Statistics
2nd " " "	Electron gas in metals
3rd " " "	Theory of specific heat of Solids
4th " " "	Polarization
I st " " March	Polarimeters
2nd " " "	Holi Break
3rd " " "	Fourier analysis
4th " " "	Quarter & Half wave plate
I st " " April	Fourier Transformation
2nd " " "	Matrix Methods in optics
3rd " " "	Aberrations
4th " " "	Fiber optics

B.Sc 3rd Yr.

I st week of Jan	Crystal Structure – I
2nd " " "	Bravais Lattice
3rd " " "	X-ray Diffraction
4th " " "	Reciprocal lattice
I st " " Feb	Superconductivity
2nd " " "	BCS theory
3rd " " "	Nano Physics
4th " " "	Atomic spectroscopy
I st " " March	Sommerfield correction & vector atom model
2nd " " "	Holi Break
3rd " " "	Penetrating & Non-penetrating orbits
4th " " "	Hydrogen & alkali metals spectra
I st " " April	2 valence e^- model (vector atom)
2nd " " "	coupling schemes
3rd " " "	Zeeman & Stark Effect
4th " " "	Molecular Spectroscopy.