Lesson Plan

Name of the Assistant/ Associate Professor... Jasvinder.....

Class and Section:.. B.Sc. 3rd. year.....(6th Sem).....

Subject:.... Physics.....(Nuclear).....

Week	Date	Topics
JANUARY 1	7 Jan - 11 Jan	Nuclear mass and binding energy, Systematic nuclear binding energy, nuclear size,
	13 Jan - 18 Jan	Spin, statistic magnetic dipole moment, Determination of mass by Bain-Bridge
	20 Jan - 25 Jan	Bain-Bridge and Jordan mass and Determination of size and nuclei.
	27 Jan - 30	TOPIC - PRESENTATION.
FEBRUARY 2	3 Feb - 8 Feb	Interaction of heavy charged particles. Alpha distiintegration and its thexy Energy
	11 Feb - 15 Feb	loss of heavy charged particle. Energetics of alphadecay, Range and straggling.
	17 Feb - 22 Fe	of alpha particles, Geiger Nuttal law. TOPIC - PRESENT.
	24 Feb - 28 Fe	CLASS - TEST
MARCH 3	3 March - 8 M	Types of beta decay and energetic of beta decay, Energy loss of beta particles, Range of electrons, absorption of beta - particles. Absorption of Gamma rays and its Application. Nature of Gamma rays, Photoelectric effect.
		CLASS - TEST.
APRIL 4	17 Mar. - 22	Nuclear reactions, Elastic scattering, Inelastic scatting, Nuclear disintegration, Photonuclear
	25 March - 29	reaction, Radiative capture, Direct, reactions
	1 April - 5 A	Nuclear reactors General aspects of
	7 April - 12 A	Reactor design, Nuclear fission and fusion reactions. Linear accelerator,
	14 Apr - 19 Ap	Tendom accelerator, Cyclotron, Betatron.
MAY 5	1 May to	Doubt - Class
	- - -	Syllabus - Revision
	- - 5 May	Class - Test.

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Lesson Plan

Name of the Assistant/ Associate Professor... Jasvinder.....
Class and Section:....B.Sc....2nd..year....(..4th.Sem.).....
Subject:.....Physics.....(..Statistical.).....

Week	Date	Topics
JANUARY 1	7 Jan - 11 Jan	System, Sample space and probability
		Combination, Possessing maximum and minimum
	13 Jan - 18 Jan	Probability, Distribution of molecules in boxes
		Phase space, microstate and macrostate.
	20 Jan - 25	Constraints, Thermodynamic Probability,
		Accessible and Inaccessible state.
	27 Jan - 30	Topic Presentation.
FEBRUARY 2	3 Feb - 8 Feb	Postulates of statistical Physics; Division
		of phase space into cells.
	11 Feb - 15 Feb	Beta-parameter, entropy and Probability
		Boltzmann distribution law. Evaluation
	17 Feb - 22	of A and B. Types of statistics.
		Unit - Test
	24 Feb - 28 Feb	Numerical Problems.
MARCH 3	3 March - 8 M	Bose - Einstein statistics, Applications of
		Bose - Einstein statistics to Planch's law
		Bose - Einstein gas and its derivation
		ASSIGNMENT
		Topic - Presentation
		Doubt - class
	17 March - 22	Fermi - Dirac statistics and its derivation.
APRIL 4	25 Mar - 29	Maxwell Boltzmann distribution law.
		Bose - Einstein condensation in detail.
		Class - Test
	1 April - 5 A	Fermi - Dirac Gas and its derivation.
	7 April - 12 A	Electron - gas in metal, zero point
		energy and its significance.
	14 Apr - 19	Specific heat of metals and its solution
MAY 5	1 May to	Doubt class - 2
	- " -	Class - Test
	- - -	Syllabus - Revision.

Ram.