

SUMMARY OF LESSON PLANS OF COLLEGE FACULTY

Name of College: G.V.M. Girls College, Sonapat **Academic Session:** 2017-18 **Semester:** Odd **For the month of** July, 2017

<i>S. No.</i>	<i>Name of Assistant/Associate Professor</i>	<i>Subject</i>	<i>Topics/Chapters to be covered</i>	<i>Academic activity to be organized</i>	<i>Topic of Assignments/Tests to be given to the students</i>
	Ms. Punita Batra	Paper I- PHY 501 : SOLID STATE PHYSICS Semester - V	Unit-I Crystalline and gallssy forms, liquid crystals.	Class quiz on states of matter	

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	Ms. Punita Batra	Paper I- PHY 501 : SOLID STATE PHYSICS Semester - V	Crystal structure, periodicity, lattice and basis, crystal translational vectors and axes. Unit cell and primitive cell, Winger Seitz primitive Cell, symmetry operations for a two dimensional crystal, Bravais lattices in two and three dimensions.	Different planes and their M.I. were shown on a cube 3D geometrical figures were shown in the class	Assignment on Miller Indices (M.I.) Test up to Symmetry operations

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	Ms. Punita Batra	Paper I- PHY 501 : SOLID STATE PHYSICS Semester - V	Unit-II crystal planes and Miller indices, Interplanar spacing, Crystal structures of Zinc sulphide, Sodium Chloride and diamond,	3D models on crystal structures were prepared and discussed in the class	Rest of remaining part of unit I and M.I.

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	Ms. Punita Batra	Paper I- PHY 501 : SOLID STATE PHYSICS Semester - V	X-ray diffraction, Bragg's Law and experimental x-ray diffraction methods, K-space. Unit-III Reciprocal lattice and its physical significance, reciprocal lattice vectors, reciprocal lattice to a simple cubic lattice, b.c.c and f.c.c.	Seminar on X-Ray Diffraction	Assignmet on Reciprocal Lattice

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	Ms. Punita Batra	Paper I- PHY 501 : SOLID STATE PHYSICS Semester - V	Specific heat : Specific heat of solids, Einstein's theory of specific heat, Debye model of specific heat of solids.	Seminar on lattice Sp.Heat & Revision of Syllabus	Test on crystal structure, Reciprocal lattice and lattice Specific heat

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	Ms. Punita Batra	Paper II- PHY 102 : ELECTRICITY AND MAGNETISM Semester - I	Unit I Mathematical Background : Scalars and Vectors, dot and cross product, Triple vector product, Scalar and Vector fields, Differentiation of a vector, Gradient of a scalar and its physical significance, Integration of a vector (line, surface and volume integral and their physical significance),	Class quiz on scalars and vectors	Assogment on Numerical problems on the topics taught Test of the topics taught

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	Ms. Punita Batra	Paper II- PHY 102 : ELECTRICITY AND MAGNETISM Semester - I	Gauss's divergence theorem and Stocks theorem. Electrostatic Field : Derivation of field E from potential as gradient, derivation of Laplace and Poisson equations. Elecotric flux, Gauss's Law and its application to spherical shell, uniformly charged infinite plane and uniformity charged straight wire, mechanical force of charged surface, Energy per unit volume.	Seminar on Dialation of soap bubble	Some conceptual questions related to the topics taught were given as assignment

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	Ms. Punita Batra	Paper II- PHY 102 : ELECTRICITY AND MAGNETISM Semester - I	Unit II Magnetostatics : Magnetic Induction, magnetic flux, solenoidal nature of Vector field of induction. Properties of B (i) $\cdot B = 0$ (ii) $\times B =$ J. Electronic theory of dia and para magnetism (Langevin's theory). Domain theory of ferromagnetism. Cycle of Magnetisation - Hysteresis (Energy dissipation, Hysteresis loss and importance of Hysteresis curve).	B-H curve of a ferromagnetic material was shown on CRO	Test on magnetostatics

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	Ms. Punita Batra	Paper II- PHY 102 : ELECTRICITY AND MAGNETISM Semester - I	Unit III Electromagnetic Theory : Maxwell equation and their derivations, Displacement Current. Vector and scalar potentials, boundary conditions at interface between two different media, Propagation of electromagnetic wave (Basic idea, no derivation). Poynting vector and Poynting theorem.	Basic idea of EM waves propagation and spectrum was given by using EM Spectrum chart	Revision of syllabus Test on Electromagnetism