GOVT COLLEGE HODAL, PALWAL

LESSON PLAN (SESSION 2021-22) EVEN SEMESTER

Class: B.Sc. IIND Sem(Even Semester) Subject: *Physics*

Faculty: MR. Ravi Riwariya

Months	Week 1	Week 2	Week 3	Week 4
March	Electromagnetic Induction: Growth and decay of current in a	(c) Capacitance and inductance (d) Capacitance resistance and	A.C. circuit analysis using complex variables with (a)	(c) Capacitance and inductance (d) Capacitance, Inductance
	circuit with (a) Capacitance and resistance (b) Resistance and inductance.	inductance.	Capacitance and resistance (b) Resistance and inductance.	and Resistance Series and Parallel resonant circuit. Quality factor (Sharpness of resonance).
April	Semi-conductor Diodes: Energy bands in solids. Intrinsic and	Zener and avalanche breakdown, Resistance of a diode, Light emitting	Diode Rectifiers: P-N junction half wave and full wave rectifier.	Zener diode as voltage regulator, Simple regulated
,•	extrinsic semiconductor, Hall effect, P-N junction diode and their V-I characteristics.	diodes (LED). Photo conduction in semiconductors, Photodiode, Solar cell.	Types of filter circuits (Land- with theory).	Poster Supply
May	Transistors: Junction transistors, Bipolar transistors, Working of NPN and PNP transistors, :	Transistor connections (C-B, C-E, C-C mode), constants of transistor. Assignment & Presentation	Transistor characteristic curves (excluding h parameter analysis), and Monthly Test	Advantage of C-B configuration. C.R.O. (Principle, construction and working in detail)
		in Champled	Feed-back in amplifiers,	Condition for self sustained
June	Transistor Amplifiers: Transistor biasing, Methods of transistor hissing and stabilization. D.C.	Resistance capacitance (R-C) coupled amplifier (two stage; concept of band width, no derivation).	Advantage of negative feedback • Emitter follower.	oscillation : Barkhausen criterion for oscillations. Tuned collector common emitter
	load line. Common-base and common-emitter transistor		Oscillator: Oscillators, Principle of oscillation, Classification of	Oscillator. Hartley oscillator. Culprit's oscillator.
	biasing Common-base, Common- emitter amplifiers. Classification		Oscillator.	~
	of amplifiers.			



Date:

GOVT COLLEGE HODAL, PALWAL

LESSON PLAN (SESSION 2021-22) EVEN SEMESTER

Class: B.Sc. 4th Sem(Even Semester)

Subject: Physics

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	June .	May		April		March	Months
as limiting case of B.E.	Statistical Physics-II	Probability, Boltzmann's distribution law.	R Parameter Entropy and	microstates and microstates, statistical fluctuations	Probability, some probability considerations,	Statistical Physics-I	Week 1
	Degeneracy and B.E., Condensation.	statistics,	Evaluation of A and b. Bose-Einstein	constraints and accessible States Thermodynamically probability	,	combinations possessing maximum probability,	Week 2
	F.D. Gas, electron gas in metals.	presentation	Division of Phase space into cells, Assignment &	Statistical Physics-II	of molecules in two boxs.	Combinations possessing minimum probability, distribution	Week 3
	of metals and its solution.	Planck's radiation law, B.E. gas. And Test	Application of B.E. Statistics to	Condition of equilibrium between two systems in thermal contact		Case with weightage (general). Phase space,	Week 4

Date:

Signature: