

## LESSON PLAN FOR EVEN SEM

### SESSION 2017-18

**NAME OF ASSISTANT /ASSOCIATE PROFESSOR : Dr. M.P Aggarwal**

**CLASS/SECTION : B.Sc. III Year, Sem. VI**

**SUBJECT: Physics-P II**

Week	Date	Topics
1	1-Jan-18	_____
	2-Jan-18	_____
	3-Jan-18	_____
	4-Jan-18	Unit-I : Introduction of early obs., emission/abs. Spectra
	5-Jan-18	Atmospectral, Wave No., Balmer Series In M-atom
	6-Jan-18	Hydrogen Atom Spera & Bohi's atomic Model
	7-Jan-18	<b>Sunday</b>
2	8-Jan-18	_____
	9-Jan-18	_____
	10-Jan-18	_____
	11-Jan-18	Unquantized States, Cont. Spectra effect of nuclear motion on line spectra
	12-Jan-18	Variation in Rydberg's Constant, short coming of Bohr's Theory
	13-Jan-18	Somm. Quant. Rule, de Broglie Interput, correspondence Principle
	14-Jan-18	<b>Sunday</b>
3	15-Jan-18	_____
	16-Jan-18	_____
	17-Jan-18	_____
	18-Jan-18	Sommerfield's Model, relativity correction & shrotcomings
	19-Jan-18	Vector atom model: Space Quantization & electron spin concept
	20-Jan-18	Quantum Nos. Associated with vector atom model
	21-Jan-18	<b>Sunday</b>
4	22-Jan-18	<b>Vasant Panchami</b>
	23-Jan-18	_____
	24-Jan-18	<b>Sir Chotu Ram Jayanti</b>
	25-Jan-18	Spin-orbit coupling, spectroscopy terms & their Rotations
	26-Jan-18	<b>Republic Day</b>

	27-Jan-18	Transition probability & selection Rules, Problem's
	28-Jan-18	<b>Sunday</b>
5	29-Jan-18	_____
	30-Jan-18	_____
	31-Jan-18	_____
	1-Feb-18	Test- I on unit -I
	2-Feb-18	Unit- II : Orbital magnetic dipole moment & in H presence
	3-Feb-18	Larmor's precession & Theorem
	4-Feb-18	<b>Sunday</b>
6	5-Feb-18	_____
	6-Feb-18	_____
	7-Feb-18	_____
	8-Feb-18	Penetrating & Non-penetrating orbits, classical model & quantum defect
	9-Feb-18	Spin-orbit
	10-Feb-18	<b>Maharshi Dayanand Saraswati Jayanti</b>
	11-Feb-18	<b>Sunday</b>
7	12-Feb-18	Spin Orbit interaction energy for one valence election
	13-Feb-18	<b>Maha Shivratri</b>
	14-Feb-18	_____
	15-Feb-18	Spin Orbit Int. energy for penetrating/non- penetrating orbits & Q.M. Ref. Correction
	16-Feb-18	Hydrogen fine spectra, alkali spectra, Term series & limits
	17-Feb-18	Combination principle, double fine St. in A. spectra, Intensity Ruler
	18-Feb-18	<b>Sunday</b>
8	19-Feb-18	_____
	20-Feb-18	_____
	21-Feb-18	_____
	22-Feb-18	Comparison of alkali & H-spectra, Prob. On unit - II
	23-Feb-18	Test – II on Unit II
	24-Feb-18	Unit –III : Vector atom model (two V. Es), Introduction

	25-Feb-18	<b>Sunday</b>
9	26-Feb-18	_____
	27-Feb-18	_____
	28-Feb-18	Holidays (K.U.K Vacations)
	1-Mar-18	<b>Guru Ravidas Birthday</b>
	2-Mar-18	<b>Holi</b>
	3-Mar-18	Holidays (K.U.K Vacations)
	4-Mar-18	<b>Sunday</b>
10	5-Mar-18	_____
	6-Mar-18	_____
	7-Mar-18	_____
	8-Mar-18	Main features of alkaline spectra, applications of spectra
	9-Mar-18	Vector atom model for Two Val. Electros, Coupling Schemes LS, JJ
	10-Mar-18	LS coupling & interaction energy, lande's internal Rule.
	11-Mar-18	<b>Sunday</b>
11	12-Mar-18	_____
	13-Mar-18	_____
	14-Mar-18	_____
	15-Mar-18	Pauli principle & elements, interaction energy in jj-coupling
	16-Mar-18	Equiv. & Non- equiv. electrons system spectral terms
	17-Mar-18	Hyper fine Structure of spectral lines, Isotope effect, nnc. spin
	18-Mar-18	<b>Sunday</b>
	12	19-Mar-18
20-Mar-18		_____
21-Mar-18		_____
22-Mar-18		Revision & Problems of unit- III
23-Mar-18		<b>Shadeedi Diwas of Bhagat Singh, Rajguru &amp; Sukhdev</b>
24-Mar-18		Unit- IV (Aton in External field), Zeeman effect
25-Mar-18		<b>Sunday/Ram Navami</b>
13	26-Mar-18	_____
	27-Mar-18	_____
	28-Mar-18	_____

	29-Mar-18	<b>Mahavir Jayanti</b>
	30-Mar-18	Expt. Study of Zeeman effect & exp. Of N.Z.E.
	31-Mar-18	Explanation of anomalous Z.E, D1, D2 line of Na-Atom
	1-Apr-18	<b>Sunday</b>
14	2-Apr-18	_____
	3-Apr-18	_____
	4-Apr-18	_____
	5-Apr-18	Paschen Back effect of a single valence electron
	6-Apr-18	Weak field stark effect of H-atom
	7-Apr-18	Molecular Physics: General Considerations, elect. States of diatomic molecular
	8-Apr-18	<b>Sunday</b>
15	9-Apr-18	_____
	10-Apr-18	_____
	11-Apr-18	_____
	12-Apr-18	Rotational Spectra ( Far IR & Microwave Resin)
	13-Apr-18	Vibrational spectra (IR Region), Rotator Model of diatomic molecular
	14-Apr-18	<b>Dr. Ambedkar Jayanti/Vaisakhi</b>
	15-Apr-18	<b>Sunday</b>
16	16-Apr-18	_____
	17-Apr-18	_____
	18-Apr-18	Parshsuram jayanti
	19-Apr-18	Raman effect & Raman Spectra
	20-Apr-18	Revision of Unit- IV
	21-Apr-18	Quick Revision of entire syllabus
	22-Apr-18	<b>Sunday</b>
17	23-Apr-18	_____
	24-Apr-18	_____
	25-Apr-18	_____
	26-Apr-18	K.U.K Practical Examinations
	27-Apr-18	K.U.K Practical Examinations
	28-Apr-18	K.U.K Practical Examinations