

Lesson Plan

of the Assistant/ Associate Professor AR. M. P. Aggarwal
 Class and Section: B.Sc. III (Sem. VI), Sec - A (H - 6 days)
 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	Atom spectral, Wave No., Balmer Series in H-atom
	6-Jan-18	Hydrogen Atom spectra and Bohr's atomic model
	7-Jan-18	Sunday
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, shortcoming of Bohr's Theory
	13-Jan-18	Sommer. Quant. Rule, de Broglie Interpret, Correspondence Principle
	14-Jan-18	Sunday
3	15-Jan-18	_____
	16-Jan-18	_____
	17-Jan-18	_____
	18-Jan-18	Sommerfeld's model, relativity corrections, shortcomings
	19-Jan-18	Vector atom Model: space quantization & electron spin concept
	20-Jan-18	Quantum Nos. Associated with vector atom model
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	_____
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	Spin-orbit coupling, spectroscopy terms and their notations
	26-Jan-18	Republic Day
	27-Jan-18	Transition Probability & selection Rules, Problems
	28-Jan-18	Sunday
5	29-Jan-18	_____
	30-Jan-18	_____
	31-Jan-18	_____

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AR. M. P.

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Lesson Plan

Name of the Assistant/ Associate Professor: Dr. M. P. Aggarwal
 Class and Section: B.Sc. III (Sem. VI), Sec-A (4-6 days)
 Subject: Physics - P II

Week	Date	Topics
1	1-Feb-18	Test - I on Unit - I
	2-Feb-18	Unit - II: orbital magnetic dipole moment and its precession
	3-Feb-18	Larmor's precession and Theorem.
	4-Feb-18	Sunday
2	5-Feb-18	_____
	6-Feb-18	_____
	7-Feb-18	_____
	8-Feb-18	Penetrating & Non-penetrating orbits, classical model of quantum defect.
	9-Feb-18	Spin-orbit interaction energy for one valence electron
	10-Feb-18	Maharshi Dayanand Saraswati Jayanti
	11-Feb-18	Sunday
3	12-Feb-18	_____
	13-Feb-18	Maha Shivratri
	14-Feb-18	_____
	15-Feb-18	Spin-orbit Int. energy for penetrating/non-penetrating orbits and Q.M. of Alkali
	16-Feb-18	Hydrogen fine spectra, alkali spectra, Term series & Limits
	17-Feb-18	Combination Principle, doublet fine structure in Alkali, Intensity Rules
	18-Feb-18	Sunday
	19-Feb-18	_____
4	20-Feb-18	_____
	21-Feb-18	_____
	22-Feb-18	Comparison of alkali and H-spectra, Prob. on unit - II
	23-Feb-18	Test - II on Unit - II
	24-Feb-18	Unit - III: Vector atom model (Two V. Ec.), introduction
	25-Feb-18	Sunday
	26-Feb-18	_____
5	27-Feb-18	_____
	28-Feb-18	Holiday (K.V. K. Vacation)

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Lesson Plan

Name of the Assistant/ Associate Professor: Dr. M. P. Aggarwal
 Class and Section: B.Sc. III (Gen. VI), Sec-A (4-6 days)
 Subject: Physics - PII

Week	Date	Topics
1	1-Mar-18	Guru Ravidas Birthday
	2-Mar-18	Holi
	3-Mar-18	Holiday (K.V.K. Vacations)
	4-Mar-18	Sunday
2	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. electrons, Coupling schemes LS, JJ
	10-Mar-18	LS coupling & interaction energy, Lande's interval rule.
	11-Mar-18	Sunday
3	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 systems spectral terms.
	17-Mar-18	Hyperfine structure of spectral lines, Isotope effect, nuc. spin.
	18-Mar-18	Sunday
4	19-Mar-18	_____
	20-Mar-18	_____
	21-Mar-18	_____
	22-Mar-18	Revision and Problems of unit - III
	23-Mar-18	Shaheed Diwas of Bhagat Singh, Rajguru & Sukhdev
	24-Mar-18	Unit - IV (Atom in External field), Zeeman effect
	25-Mar-18	Sunday/ Ram Navami
5	26-Mar-18	_____
	27-Mar-18	_____
	28-Mar-18	_____
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	Expt. study of Zeeman effect and exp. of N.Z.E.
	31-Mar-18	Explanation of anomalous Z.E., D_1 & D_2 lines of M -atoms

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Lesson Plan

Name of the Assistant/ Associate Professor: Dr. M.P. Aggarwal
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 Subject: Physics - PII

Week	Date	Topics
1		Sunday
	3-Apr-18	_____
	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-atoms
	7-Apr-18	Molecular Physics: General Considerations, Elect. states of diatomic molecules
8-Apr-18	Sunday	
2	9-Apr-18	_____
	10-Apr-18	_____
	11-Apr-18	_____
	12-Apr-18	Rotational spectra (Far IR and Microwave Region)
	13-Apr-18	Vibrational spectra (IR Region), Rotator Model of diatomic molecule
	14-Apr-18	Dr Ambedkar Jayanti / Vaisakhi
	15-Apr-18	Sunday
	16-Apr-18	_____
3	17-Apr-18	_____
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	Raman Effect and Raman spectra
	20-Apr-18	Revision of Unit-IV
	21-Apr-18	Quick Revision of Entire syllabus
	22-Apr-18	Sunday
	23-Apr-18	_____
	24-Apr-18	_____
4	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

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