

# Maharani Kishori Jat Kanya Mahavidyalya, Rohtak

Day Wise Lesson Plan for the session January 2018 to April 2018

Section A(1-3)

Name of Associate Professor ..Mrs. Suman Dagar.....

Section B(4-6)

Class ..B.Sc-II<sup>nd</sup>.....(IV.Sem.)... Subject....Statistical Mechanics (Physics)

Week	Date	Topic
1	01.01.18	Winter vacation
	02.01.18	Winter vacation
	03.01.18	Winter vacation
	04.01.18	Winter vacation
	05.01.18	Winter vacation
	06.01.18	Practical Examination (B.Sc-II <sup>nd</sup> )
	07.01.18	Sunday
2	08.01.18	Practical Examination (B.Sc-II <sup>nd</sup> )
	09.01.18	Practical Examination (B.Sc-I <sup>st</sup> year)
	10.01.18	Practical Examination (B.Sc-I <sup>st</sup> year)
	11.01.18	Introduction to probability
	12.01.18	Some probability considerations
	13.01.18	Combination possessing maximum probability
	14.01.18	Sunday
	15.01.18	Introduction to probability
3	16.01.18	some probability considerations
	17.01.18	Combination possessing maximum probability
	18.01.18	Combination possessing minimum probability
	19.01.18	Distribution of molecules in two boxes.
	20.01.18	C.R. Celebration
	21.01.18	Sunday
	22.01.18	Basant Panchami
	23.01.18	Combination possessing minimum probability
4	24.01.18	distribution of molecules in two boxes
	25.01.18	Case with weightage (General)
	26.01.18	Republic Day
	27.01.18	Phase space
	28.01.18	Sunday
5	29.01.18	Case with weightage (General)
	30.01.18	Phase space
	31.01.18	Guru Ravidas Jayanti

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Class . B.Sc. II<sup>nd</sup> ( IV Sem) ..... Subject ... Statistical Mechanics

Section-A (1-3)  
Section-B (4-6)

Week	Date	Topic
1	01.02.18	Micro states and Macro states
	02.02.18	Statistical fluctuations
	03.02.18	constraints and accessible states
	04.02.18	Sunday
2	05.02.18	Micro states and Macro states
	06.02.18	statistical fluctuations
	07.02.18	constraints and accessible states
	08.02.18	Thermodynamical Probability
	09.02.18	Numerical problems
	10.02.18	Maharshi Dayanand Saraswati Jayanti
	11.02.18	Sunday
3	12.02.18	Thermodynamical probability
	13.02.18	Maha Shivratri
	14.02.18	Numerical problems
	15.02.18	Discussion and Revision
	16.02.18	Test on Probability
	17.02.18	Postulates of statistical Mechanics
	18.02.18	Sunday
	4	19.02.18
20.02.18		Test on probability
21.02.18		Postulates of statistical Physics
22.02.18		Division of Phase space into cells
23.02.18		Condition of eqm between two system in thermal contact
24.02.18		$\beta$ -parameter
25.02.18		Sunday
5		26.02.18
	27.02.18	cond <sup>n</sup> of eqm between 2 system in thermal contact
	28.02.18	MDU Holidays

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Section-A (1-3)

Name of Associate Professor *Mrs. Suman Dagar*

Section-B (4-6)

Class *B.Sc. II<sup>nd</sup> (IV sem)* Subject *Statistical Mechanics*

Week	Date	Topic
1	01.03.18	MDU Holidays
	02.03.18	MDU Holidays
	03.03.18	MDU Holidays
	04.03.18	Sunday
2	05.03.18	<i><math>\beta</math> parameter</i>
	06.03.18	<i>Entropy and probability</i>
	07.03.18	<i>Boltzmann distribution law</i>
	08.03.18	<i>Entropy and probability</i>
	09.03.18	<i>Boltzmann distribution law</i>
	10.03.18	<i>Evaluation of A and B</i>
	11.03.18	Sunday
	3	12.03.18
13.03.18		<i>B-E statistics</i>
14.03.18		<i>Applications of BE statistics to Planck radiation law.</i>
15.03.18		<i>BE statistics</i>
16.03.18		<i>Application of BE statistics to Planck radiation law</i>
17.03.18		<i>BE gas</i>
18.03.18		Sunday
4		19.03.18
	20.03.18	<i>Numerical problems</i>
	21.03.18	<i>Revision and Discussion</i>
	22.03.18	<i>Numerical problems</i>
	23.03.18	Shaheedi Diwas
	24.03.18	<i>Revision and Discussion</i>
	25.03.18	Sunday
	5	26.03.18
27.03.18		<i>Fermi-Dirac Statistics</i>
28.03.18		<i>M-B law as limiting case</i>
29.03.18		Mahavir Jayanti
30.03.18		<i>Test of 2<sup>nd</sup> unit</i>
31.03.18		<i>Fermi-Dirac statistics</i>

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## Maharani Kishori Jat Kanya Mahavidyalya, Rohtak

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Name of Associate Professor ... Mrs. Suman ... Sagar ..... Section-B(4-6)

Class .. B.Sc.-II<sup>nd</sup> ..... (IV Sem.) ..... Subject... Statistical Mechanics

Week	Date	Topic
	01.04.18	Sunday
1	02.04.18	B-E degeneracy
	03.04.18	B-E condensation
	04.04.18	contd. - B-E condensation
	05.04.18	M-B law as limiting case
	06.04.18	B-E degeneracy
	07.04.18	B-E condensation
	08.04.18	Sunday
2	09.04.18	Fermi-Dirac Gas
	10.04.18	Electron Gas in metals
	11.04.18	Zero point energy
	12.04.18	B-E condensation - contd.
	13.04.18	Fermi-Dirac Gas
	14.04.18	Baisakhi / Ambedkar Jayanti
	15.04.18	Sunday
	3	16.04.18
17.04.18		Cont. Specific heat of metals & its solution
18.04.18		Parshuram Jayanti
19.04.18		Electron Gas in metals
20.04.18		Zero point energy
21.04.18		Specific heat of metals & its solution
22.04.18		Sunday
4		23.04.18
	24.04.18	Revision and Discussion
	25.04.18	Test
	26.04.18	Numerical problems, Revision.
	27.04.18	Test.
	28.04.18	Revision Test
	29.04.18	Sunday
	30.04.18	Revision Test.

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