



Sadakathullah Appa College

(AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011.

LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course: PG PHYSICS Class: I year Academic Year: 2019 - 2020 Semester: II
 Title of the Paper: Quantum Mechanics - I Subject Code: 18PCPH22
 Theory / Practical Name of the Teacher: A. ZEENATH BAZEERA

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	09/12/19 'A'	I	Introduction- Fundamentals of Quam. Mechanics	09/12/19
2.	10/12/19 - B		Postulates of Quam. Mech.	10/12/19
3.	11/12/19 - C		Eqn. of motion of matter waves	11/12/19
4.	13/12/19 - E		Physical interpretation of wave fn.	13/12/19
5.	16/12/19 - F		Normalized and orthogonal wave fn	16/12/19
6.	17/12/19 - A		Soln. of schrodinger equation	17/12/19
7.	18/12/19 - B		Stationary state solution	18/12/19
8.	19/12/19 - C		Expectation values of dynamical quantity	19/12/19
9.	21/12/19 - E		"	
10.	27/12/19 - F		Probability current density	03/01/2020
11.	28/12/19 - A		Ehrenfest's theorem	
12.	30/12/19 - B		"	
13.	31/12/19 - C		Uncertainty Principle - Mathematical	06/01/2020
14.	03/01/2020 E		Proof for one dimensional wave pkt	
15.	04/01/2020 F		Revision	

Text books :

- L I Schiff - Quantum Mechanics - Mc Graw Hill
- P.M. Mathews and Venkatesan - A text book of Quam. Mechanics

Reference books :

- V. Devanathan - Quantum Mechanics Narosa Publishing.
- G. Aruldas - Quam. Mechanics Prentice Hall of India

Activity	Total Number	Topic I	Topic-II	Topic-III	Planned Date	Actual Date
Assignment	2 1 → Individual topic 1 → Individual topic				20.01.2020 24.02.2020	
Internal Test	3	I st Test Portions unit I unit II - 1 st portion	II nd Test Portions unit II - Remaining unit III, II nd portion	III rd Test Portions unit III & I	07.01.2020 13.02.2020 24.03.2020	11.01.2020

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
16.	06/01/2020 A	II	Introduction - Bound state and Potential Barriers	} 06/01
17.	07/01/2020 B		Bound state Problems	
18.	08/01/2020 C		Particle in a Box	} 07/01
19.	10/01/2020 E		"	
20.	13/01/2020 F		One dimensional square well potential	} 08/01
21.	14/01/2020 A		"	
22.	20/01/2020 B		Finite Potential step	} 13/01
23.	21/01/2020 C		"	
24.	23/01/2020 E		Linear Harmonic Oscillator	} 22/01
25.	24/01/2020 F		²⁴⁰ Schrodinger eqn, eigen values	
26.	27/01/2020 A	"	} 23/01	
27.	28/01/2020 B	"		
28.	29/01/2020 C	Rigid Rotator	} 24/01	
29.	31/01/2020 E	wave eqn, eigen values		
30.	03/02/2020 F	"	} 27/01	
31.	04/02/2020 A	Hydrogen atom		
32.	05/02/2020 B	- soln. of Radial equation	} 28/01	
33.	06/02/2020 C	Energy levels		
34.	10/02/2020 E	"	} 29/01	
35.	11/02/2020 F	Revision		
36.	12/02/2020 A	III	Introduction - Matrix mechanics	30/01
37.	13/02/2020 B		Eqn. of motion - Schrodinger Picture	31/01
38.	14/02/2020 C		Heisenberg and Interaction Picture	01/02
39.	17/02/2020 E		Poisson Bracket and	03/02
40.	18/02/2020 F		Commutator Bracket	04/02


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Sl.No.	Date & Order	Unit	Topics planned	Covered on
41.	19/02/2020 A		Density Matrix for a single system	05/02
42.	20/02/2020 B		Matrix theory of LHO	10/02
43.	21/02/2020 C		Dirac's Bra and ^{ket} Vectors, Hilbert space	11/02
44.	25/02/2020 E		Projection and Displacement operators	12/02
45.	26/02/2020 F		Matrix rep. for Position,	13/02
46.	27/02/2020 A		momentum, creation and annihilation operators	14/02
47.	28/02/2020 B		Revision	20/02
48.	29/02/2020 C	IV	Introduction - Angular momenta and their properties	25/02
49.	03/03/2020 E		Angular momentum operator in position rep.	26/02
50.	04/03/2020 F		The rotational operator and ang. mom.	27/02
51.	05/03/2020 A		"	28/02
52.	06/03/2020 B		The total ang. momentum operators	29/02
53.	09/03/2020 C		Commutation relation of total ang. mom.	03/03
54.	11/03/2020 E		"	04/03
55.	12/03/2020 F		Raising operators in ang. mom.	05/03
56.	13/03/2020 A		Lowering operators in ang. momentum	06/03
57.	16/03/2020 B		Eigen values of J^2	07/03, 09/03
58.	17/03/2020 C		"	11/03
59.	19/03/2020 E		Eigen values of J_z	12/03
60.	20/03/2020 F		Addition of angular momenta Clebsch Gordan	13/03
61.	21/03/2020 A		$j_1 = 1/2, j_2 = 1/2$	14/03
62.	23/03/2020 B		Revision	16/03
63.	24/03/2020 C	V	Introduction - Identical particles and spin	
64.	27/03/2020 E		Symmetric and anti symmetric wave fn.	
65.	30/03/2020 F		"	

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Class : II MSc Academic Year : 2019 - 2020 Semester :

Course : M.Sc Physics

Subject Code : 18 PCPH 42

Title of the Paper : Research Methodology

Name of the Teacher : Dr. V. Chinna Thambi
Dr. Sanku Jostan T.

Theory / Practical

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	9/12/19 A	I	Introduction of Research	9/12/19
2	12/12/19 D	I	What is Research, objectives of research	12/12/19
3	16/12/19 F	I	Contin ^{of} objectives of Research	16/12/19
4	17/12/19 A	I	Scientific Research	20/12/19
5	20/12/19 D	I	Scientific Research (contd)	
6	27/12/19 F	I	Characteristics of research	29/01/20
7	28/12/19 A	I	Characteristics of research (cont)	29/01/20
8	2/01/20 D	I	Types of Research Applied	4/01/20
9	4/01/20 F	I	Action Research	4/01/20
10	6/01/20 A	I	Action Research (contd)	6/01/20
11	9/01/20 D	I	Descriptive Research	9/01/20
12	13/01/20 F	I	Descriptive Research (contd)	15/01/20
13	14/01/20 A	I	Steps involved in Research process	14/01/20
14	22/01/20 D	I	Steps involved in Research process (cont)	22/01/20
15	24/01/20 F	II	Introduction of Review Lit & planning of Research	24/01/20

Text books :

1. Research Methodology: Methods & Techniques by C.R. Kothari, New Age International.
2. S. Rajasekar, P. Philominathan & V. Chinna Thambi

Reference books :

1. Dr. K. Nagarajan, Ram Publishers Chennai
2. Krishnaswami Himalaya Publishers

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	3	Characteristics of Research	Role of Supervisors	Synopsis writing	12/12/19 17/12/19 2/01/20	2/01/20 7/01/20 12/01/20
Internal Test	3	I st Test Portions unit-1 full unit-2 half	II nd Test Portions unit-2 half unit-3 full	III rd Test Portions unit-4 & 5	20/12/2019 12/01/2020	20/01/2020 12/01/2020

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
16	27/01/20 A	II	Need for Reviewing literature	30/01/20
17	30/01/20 D	II	Literature search procedure	30/01/20
18	3/02/20 F	II	Literature search procedure (cont)	4/02/20
19	4/02/20 A	II	Sources of literature	4/02/20
20	7/02/20 D	II	Sources of literature (cont)	11/02/20
21	11/02/20 F	II	Planning of Review work	11/02/20
22	12/02/20 A	II	Planning of Review work cont	15/02/20
23	15/02/20 D	II	Selection of a problem for Research	15/02/20
24	18/02/20 F	II	Formulation of ^{the} selected problems	18/02/20
25	19/02/20 A	II	Formulation of the selected pbm (cont)	19/02/20
26	24/02/20 D	II	Hypothesis formation	24/02/20
27	26/02/20 F	II	Research Design / plan	26/02/20
28	27/02/20 A	II	Role of Supervisor	27/02/20
29	2/03/20 D	III	Introduction of Report writing	2/03/20
30	4/03/20 F	III	Preliminary pages: Title page.	4/03/20
31	5/03/20 A	III	Certificate, Declaration	5/03/20
32	10/03/20 D	III	Acknowledgement, Table of content	10/03/20
33	12/03/20 F	III	Main body of the report - objectives hypothesis	12/03/20
34	13/03/20 A	III	Main body of the report (cont)	13/03/20
35	18/03/20 D	III	Books for Reference section	18/03/20
36	20/03/20 F	III	Language & style of writing	20/03/20
37	21/03/20 A	III	Language & style of writing (cont)	21/03/20
38	26/03/20 D	III	Foot note citations	26/03/20
39	30/03/20 F	III	Foot note citations (cont)	30/03/20
40	31/03/20 A	III	Quotations	31/03/20

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
41	8/04/20 F	III	Abbreviations	8/04/20
42	15/04/20 A	III	Format of synopsis writing	15/04/20
43	18/04/20 D	III	Format of synopsis writing (cont)	15/04/20
44	21/04/20 11/1/20 D	IV	Plotting software: Origin Introduction	
45	6/01/20 A	IV	Importing your data	6/01/20
46	9/01/20 D	IV	Plotting data - customizing the data plot	9-01-20
47	14/01/20 A	IV	Customizing the graph axes	14-01-20
48	22/01/20 D	IV	Continuation of customizing the axes	22-01-20
49	27/01/20 A	IV	Adding text to the graph	27-01-20
50	30/01/20 D	IV	Exploring data	30-01-20
51	4/02/20 A	IV	Transforming column values	4-02-20
52	7/02/20 D	IV	Sorting worksheet data	7-02-20
53	12/02/20 A	IV	Continuation of worksheet data	12-02-20
54	15/02/20 D	IV	Plotting a range of the worksheet data	15-02-20
55	19/02/20 A	IV	Performing a linear fit	19-02-20
56	24/02/20 D	IV	Performing a linear fit	24-02-20
57	27/02/20 A	IV	Creating multiple layer graphs	27-02-20
58	2/03/20 D	IV	Working with excel in origin	2-3-20
59	5/03/20 A	V	MS Word Introduction	5-3-20
60	10/03/20 D	V	Working with text	10-3-20
61	13/03/20 A	V	Formatting the text	13-3-20
62	18/03/20 D	V	Searching for and replacing text	18-3-20
63	21/03/20 A	V	Working with headers and footers	21-3-20
64	26/03/20 D	V	Text, Styles	26-3-20
65	31/03/20 A	V	Text proofing & Translating	31-3-20

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course: M.Sc Physics Class: I year Academic Year: 2019 - 2020 Semester: II
 Title of the Paper: Mathematical Physics - II Subject Code: 18PCPH21
 Theory: Practical Name of the Teacher: A. Tevin Fathima

Sl. No.	Date & Order	Unit	Topics planned	Covered on
1	11-12-2019	I	Functions of Complex Variables	11-12-2019
2	11-12-2019	I	Cauchy Riemann differential equation	16-12-2019
3	15-12-2019	I		
4	16-12-2019	I	Cauchy's integral theorem	2-1-2020
5	16-12-2019	I		
6	18-12-2019	I	Cauchy's integral formula	4-1-2020
7	19-12-2019	I		
8	20-12-2019	I	Taylor's series	4-1-2020
9	21-12-2019	I		
10	21-12-2019	I	Laurent's series	7-1-2020
11	30-12-2019	I		
12	31-12-2019	I	Cauchy Residue theorem	
13	2-1-2020	I		
14	7-1-2020	I	Residues and their evaluation	8-1-2020
15	4-1-2020	I		

Text books:
 1. A. N. Joshi - Matrices and Tensors in Physics - 3rd edition, New age International
 2. George B. Arfken & Hans J. Weber - Mathematical Methods for Physicists, 6th edition

Reference books:
 1. Sathya Prakash - Mathematical Physics - Sullhan Chand & sons.
 2. Erwin Kreyszig, Advanced engineering Mathematics, John Wiley & sons.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	3	Cauchy Residue theorem	Heat flow in a cylinder	Green's, Stokes & Poincaré eqn	29-1-2020 28-2-2020 20-3-2020	
Internal Test		I st Test Portions I Unit	II nd Test Portions II Unit	III rd Test Portions IV Unit	6-1-2020 12-2-2020 23-3-2020	10-01-2020

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
16.	7.1.2020 B	II	Bessel differential equation and Bessel's function	13.1.2020
17.	8.1.2020 C	II		
18.	9.1.2020 D	II	Recurrence relations	20.1.2020
19.	13.1.2020 F	II		
20.	13.1.2020 F	II	Orthogonality of Bessel's functions	22.1.2020
21.	20.1.2020 B	II		
22.	21.1.2020 C	II	Generating function of Bessel polynomial	24.1.2020
23.	22.1.2020 D	II		
24.	24.1.2020 F	II	Laguerre's differential eqn and Laguerre polynomial	24.1.2020
25.	24.1.2020 F	II		
26.	28.1.2020 B	II	Generating fn of Laguerre polynomial	24.1.2020
27.	29.1.2020 C	II		
28.	30.1.2020 D	II	Recurrence relations	3.2.2020
29.	3.2.2020 F	II		
30.	3.2.2020 F	II	Orthogonal property	5.2.2020
31.	5.2.2020 B	III		
32.	6.2.2020 C	III	Variable linear flow in an infinite bar	7.2.2020
33.	7.2.2020 D	III		
34.	11.2.2020 F	III	two dimensional heat flow	11.2.2020
35.	11.2.2020 F	III		
36.	13.2.2020 B	III	three dimensional heat flow	13.2.2020
37.	14.2.2020 C	III		
38.	15.2.2020 D	III	Heat flow in a circular plate	15.2.2020
39.	15.2.2020 F	III		
40.	18.2.2020 F	III	Heat flow in a rectangular plate	16.2.2020


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Sl.No.	Date & Order	Unit	Topics planned	Covered on
41.	20.2.2020 B	III	Equation of motion for the vibrating string	21.2.2020
42.	21.2.2020 C	III		
43.	24.2.2020 D	IV	Vibrations of a rectangular membrane	24.2.2020
44.	26.2.2020 E	IV		
45.	26.2.2020 F	IV	Vibrations of a circular membrane	2.3.2020
46.	28.2.2020 B	IV		
47.	29.2.2020 C	IV	Occurrence of tensors in physics	1.3.2020
48.	2.3.2020 D	IV	contravariant and covariant tensors	9.3.2020
49.	4.3.2020 E	IV		
50.	4.3.2020 F	IV	Tensors of second rank	10.3.2020
51.	6.3.2020 B	IV	Algebra of tensors	12.3.2020
52.	9.3.2020 C	IV	Equality and null tensors	16.3.2020
53.	10.3.2020 D	IV	Addition and subtraction	
54.	12.3.2020 E	IV	Outer product	
55.	12.3.2020 F	IV	Inner product	
56.	16.3.2020 B	IV	contraction of tensors	
57.	17.3.2020 C	IV	Symmetric & Antisymmetric tensors	
58.	18.3.2020 D	IV	Kronecker delta, Quotient law	
59.	20.3.2020 E	IV	Metric tensor	
60.	20.3.2020 F	IV	Simple applications of tensors to non-relativistic physics	
61.	23.3.2020 B	V	Dirac delta function	
62.	24.3.2020 C	V		
63.	26.3.2020 D	V	Some representation of Dirac delta function	
64.	30.3.2020 E	V		
65.	30.3.2020 F	V	properties of Dirac delta function	

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
66.	1.4.2020 B	↓	Properties of dirac delta function	
67.	2.4.2020 C	↓	Green's functions	
68.	3.4.2020 D	↓		
69.	8.4.2020 E	↓	symmetric property	
70.	8.4.2020 F	↓		
71.	16.4.2020 B	↓	Green's functions for	
72.	17.4.2020 C	↓	boundary value problems	
73.	18.4.2020 D	↓		
74.	21.4.2020 E	↓	Green's functions for	
75.	21.4.2020 F	↓	poisson's equation.	
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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course: M.Sc. Physics
 Title of the Paper: Material science
 Theory / Practical

Class: II PG
 Academic Year: 2019 - 2020 Semester: IV
 Subject Code: 18PEPHAB
 Name of the Teacher: Dr. J. Amutha

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	9.12.19-A	I	Crystalline Materials - Introduction	10.12.19
2.	10.12.19-B	I	Crystal Symmetry	10.12.19
3.	12.12.19-D	I	Simple cubic structures	12.12.19
4.	13.12.19-E	I	Polymorphism and Allotropy?	
5.	17.12.19-A	I	Crystal Directions	17.12.19
6.	18.12.19-B	I	Crystal Imperfections	20.12.19
7.	20.12.19-D	I	Structure determination by XRD	2.1.2020
8.	21.12.19-E	I	Bragg's law	
9.	28.12.19-A	I	Determination of Lattice Parameter	3.1.2020
10.	30.12.19-B	I	The Laue's Method	6.1.2020
11.	2.1.20-D	I	The Powder Method	
1.	3.1.20-E	II	Conducting Materials - Introduction	7.1.2020
2.	6.1.20-A	II	Classical Free electron Theory?	
3.	7.1.20-B	II	Wiedemann - Franz law	9.1.2020
4.	9.1.20-D	II	Quantum Free electron Theory	10.1.2020

Text books:

1. Materials science & Eng. - V. Raghavan
2. Charles Kittel, Introduction to SSP

Reference books:

1. A Textbook of Material science & Metallurgy - A.P. Khanna Dhanpat Rai
2. Materials science - M. Anumugam

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	2		Good conductor	Pyroelectricity	25.2.2020 3.2.2020	H.S.
Internal Test	3	I st Test Portions 1 1/2	II nd Test Portions 1 1/2	III rd Test Portions 2		

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
5.	10.1.20-E	II	Fermi Distribution function	22.1.2020
6.	14.1.20-A	II	Density of energy states ?	
7.	20.1.20-B	II	Electrons in the Periodic Potentials	22.1.2020
8.	22.1.20-D	II	Conductors ?	
9.	23.1.20-E	II	High resistivity Materials	31.1.2020
1.	27.1.20-A	III	Semiconducting Materials-Introduction	4.2.2020
2.	28.1.20-B	III	Elemental Intrinsic Semiconductors ?	
3.	30.1.20-D	III	Carrier concentration in Intrinsic Semiconductors ?	5.2.2020
4.	31.1.20-E	III	Extrinsic Semiconductor	7.2.2020
5.	4.2.20-A	III	Carrier concentration in N-type Semiconductor ?	11.2.2020
6.	5.2.20-B	III	Carrier concentration in P-type Semiconductor ?	12.2.2020
7.	7.2.20-D	III	Hall effect & Applications	13.2.2020 17.2.2020
1.	10.2.20-E	IV	Ceramics and Glasses-Introduction	19.2.2020
2.	12.2.20-A	IV	Traditional ceramics ?	
3.	13.2.20-B	IV	Advanced ceramics	20.2.2020
4.	15.2.20-D	IV	Types of ceramics ?	
5.	17.2.20-E	IV	Natural ceramic Materials	24.2.2020
6.	19.2.20-A	IV	Glass Manufacturing	25.2.2020

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
7.	20.2.20-E	IV	Glass Properties	3.3.2020
8.	24.2.20-D	IV	Heat treatment of glass	9.3.2020
9.	25.2.20-E	IV	Types of Glasses	10.3.2020
10.	27.2.20-A	IV	Applications of glasses	
1.	28.2.20-B	V	Electrical Materials - Introduction	17.3.2020
2.	2.3.20-D	V	Good conductors	13.3.2020
3.	3.3.20-E	V	Dielectric Behavior	16.3.2020
4.	5.3.20-A	V	Piezoelectric Materials	
5.	6.3.20-B	V	Ferroelectric Materials	
6.	10.3.20-D	V	Pyroelectric Materials	
7.	11.3.20-E		Revision - UNIT-1	
8.	13.3.20-A		"	
9.	16.3.20-B		"	
10.	26.3.20-D		Revision - UNIT-2	
11.	27.3.20-E		"	
12.	30.3.20-F		"	
13.	31.3.20-A		Revision - UNIT-3	
14.	1.4.20-B		"	
15.	2.4.20-A		"	
16.	7.4.20-E		Revision - UNIT-4	
17.	15.4.20-A		"	
18.	16.4.20-B		"	
19.	18.4.20-D		Revision - UNIT-5	
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Rahmath Nagar, Tirunelveli - 627 011.

LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : Physics

Class : D M Sc Academic Year : 2019 - 2020 Semester : D

Title of the Paper : Statistical Physics

Subject Code : 18PCPH23.

Theory / Practical

Name of the Teacher : Dr. V. Chinnathambi
Dr. Sainath

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	10-12-19	I	Statistical Mechanics - Introduction	10-12-19
2	11-12-19	I	Phase space, Micro and Boson states	11-12-19
3	13-12-2019 E	I	Ensemble	13-12-19
A	18-12-2019 B	I	Micro Canonical ensemble	18-12-19
5	19-12-2019 C	I	Canonical ensemble	19-12-19
6	21-12-2019 E	I	Grand Canonical ensemble	21-12-19
7	20-12-2019 B	I	Density of distribution of phase space	20-12-19
8	31-12-2019 C	I	Postulates of equal a priori probability	03-01-2020
9	03-01-2020 E	I	Postulates of equal a priori probability (cont.)	
10	07-01-2020 B	I	Time and ensemble averages	08-01-2020
11	08-01-2020 C	I	Time and ensemble averages (cont.)	
12	10-01-2020 F	I	Micro and Macro states	10-01-2020
13	20-01-2020 B	I	Counting the no. of microstates in a phase space.	20-01-2020
14	21-01-2020 C	I	Entropy of Ideal gas	21-01-2020
15	23-01-2020 E	I	Sackur - Tetrode equation	23-01-2020

Text books :

Reference books :

- Satya Prakash - Statistical mechanics, Kedar Nath ram nath publications, Delhi (2015)
- Dr. S. L. Gupta & Dr. V. Kumar, Statistical mechanics Pragati Prakashan publication Meerut, 28th edition 2017

- A. K. Dasgupta - Fundamentals of statistical mechanics New central book Agency (P) Ltd, Calcutta (2000)
- Levan and Ziman - Statistical mechanics McGraw Hill book company, New York, (2011)

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	3	Ensemble	Gibbs paradox	Ising Model	11-12-19 24-01-20 2-02-20	13-12-19 12-02-20
Internal Test	3	I st Test Portions Unit-1 Full Unit-2 Half	II nd Test Portions Unit-2 half Unit-3 full	III rd Test Portions Unit - 4 & 5	20-01-2020 12-02-2020	20/01/2020 12/02/2020

Teacher's Signature

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
16	28.01.2020 B	I	Gibbs Paradox	05-02-2020
17	29.01.2020 C	I	Liouville's Theorem	06-02-2020
18	31.01.2020 E	II	Introduction of Partition function	10-02-2020
19	05.02.2020 B	II	Gibbs canonical ensemble	10-02-2020
20	06.02.2020 C	II	Thermodynamical functions for the canonical ensemble	12-02-2020
21	10.02.2020 E	II	Thermodynamical function for the Partition function	
22	13.02.2020 B	II	Perfect monoatomic gas in canonical ensemble	14-02-2020
23	14.02.2020 C	II	Partition function, Helmholtz free energy	17-02-2020
24	17.02.2020 E	II	Entropy, Internal energy	20-02-2020
25	20.02.2020 B	II	System in contact with a particle reservoir	21-02-2020
26	21.02.2020 C	II	System in contact with a particle reservoir (cont)	25-02-2020
27	25.02.2020 E	II	Partition function for grand canonical ensemble	22-02-2020
28	28.02.2020 B	II	Partition function for grand canonical ensemble (cont)	
29	27.02.2020 C	II	Thermodynamic function for grand canonical ensemble	29-02-2020
30	03.03.2020 E	II	Thermodynamic function for grand canonical ensemble (cont)	03-03-2020
31	06.03.2020 B	II	Perfect gas in grand canonical ensemble	06-03-2020
32	09.03.2020 C	II	Perfect gas in grand canonical ensemble (cont)	09-03-2020
33	11.03.2020 E	III	Introduction of Quantum statistics.	11-03-2020
34	16.03.2020 B	III	Postulatory foundations of Quantum mechanics	16-03-2020
35	17.03.2020 C	III	Transition from classical, statistical mechanics	17-03-2020
36	19.03.2020 E	III	Transition from Quantum Statistical mechanics	19-03-2020
37	22.03.2020 B	III	Indistinguishability and Quantum statistics	23-03-2020
38	24.03.2020 C	III	Bose-Einstein statistics	
39	27.03.2020 E	III	Bose-Einstein statistics (cont)	27-03-2020
40	01.04.2020 B	III	Fermi-Dirac statistics	01-04-2020

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
41	06.04.2020 C	III	Fermi-Dirac statistics (cont)	02.04.2020
42	07.04.2020 E	III	Maxwell Boltzmann statistics.	26.04.2020
43	16.04.2020 B	III	Maxwell Boltzmann statistics (cont)	
44	17.04.2020 C	III	Blackbody radiation and the Planck radiation law	17-04-2020
45	03.01.2020 E	IV	Specific heat of solids	03-01-2020
46	04.01.2020 E	IV	Dulong and Petit law	04-01-2020
47	10.01.2020 E	IV	Einstein theory of specific heat of solids	13-01-2020
48	13.01.2020 F	IV	Einstein theory of specific heat of solids (cont.)	13-01-2020
49	23.01.2020 E	IV	Debye theory of specific heat of solids	
50	24.01.2020 F	IV	Debye theory of specific heat of solids	24-01-2020
51	31.01.2020 E	IV	Ideal Bose Einstein Gas	31-01-2020
52	03.02.2020 F	IV	Energy and pressure of gas	10-02-2020
53	10.02.2020 E	IV	Energy and Pressure of gas.	
54	11.02.2020 F	IV	Bose-Einstein Condensation	17.02.2020
55	17.02.2020 E	IV	Bose-Einstein Condensation	
56	18.02.2020 F	IV	Ideal Fermi-Dirac gas	25.02.2020
57	25.02.2020 E	IV	Ideal Fermi-Dirac gas.	
58	26.02.2020 F	V	Phase-transition - Intro	26.02.2020
59	03.03.2020 E	V	Phase transition first order	03.03.2020
60	04.03.2020 F	V	Second order phase transition	04.03.2020
61	11.03.2020 E	V	Ising model	12.03.2020
62	12.03.2020 F	V	Ising model	12.03.2020
63	19.03.2020 E	V	Bragg's - William approximation	20.03.2020
64	20.03.2020 F	V	Bragg's - William approximation	
65	27.03.2020 E	V	Phase transitions of second kind	27.03.2020

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