



Sadakathullah Appa College

(AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011.

LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course: M.Sc

Class: I year Academic Year: 2017 - 2018 Semester: II

Title of the Paper: Mathematical Physics II

Subject Code: 15 PPHC 21

Theory / Practical

Name of the Teacher: A. Feer Fathima

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	07.12.17 B (II)	I	Functions of Complex Variables	02.12.17
2.	07.12.17 B (IV)	I	"	
3.	08.12.17 C (V)	I	Cauchy Riemann conditions	12.12.17
4.	12.12.17 E (V)	I	"	
5.	13.12.17 F (II)	I	Cauchy's Integral theorem	15.12.17
6.	13.12.17 F (IV)	I	"	
7.	15.12.17 B (III)	I	"	
8.	15.12.17 B (IV)	I	Cauchy's Integral formula	18.12.17
9.	18.12.17 C (V)	I	"	
10.	20.12.17 E (V)	I	Taylor's Series	20.12.17
11.	21.12.17 F (IV)	I	"	
12.	21.12.17 F (IV)	I	Laurent's Series	21.12.17
13.	27.12.17 B (II)	I	"	
14.	27.12.17 B (IV)	I	Cauchy residue theorem	27.12.17
15.	28.12.17 C (V)	I	"	

Text books :

1. Mathematical Physics - Saha Parakash - Sulthan Chand & Sons - New Delhi
2. Matrices & tensors in physics - A. W. Joshi 3rd edition

Reference books :

1. Theory & problem of complex variables - Murray R. Spiegel - Schaum's series - Mc Graw-Hill (1985)
2. Applied Mathematics for Engineers & Physicists - B. V. Ramana Murthy

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	3	Cauchy's Integral theorem	Bessel's diff eqn. 1/2	3-D Heat flow eqn. 1/2		
Internal Test	3	I st Test Portions I st unit	II nd Test Portions II nd Unit III rd Unit 1/2	III rd Test Portions III - remaining IV - Unit full I - half	I - 19-01-18 II - 27-02-18 III - 05-04-18	22-01-18 28-02-18 08-04-18

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
16.	30.12.17 E (CV)	I	Singular points of an analytic fn	30.12.17
17.	02.01.18 F (II)	I	The point at Infinity	02.01.18
18.	02.01.18 F (IV)	I	Evaluation of residues	02.01.18
19.	04.01.18 B (II)	II	Bessel's diff eqn & its solution	05.01.18
20.	04.01.18 B (IV)	II	"	
21.	05.01.18 C (V)	II	"	
22.	09.01.18 E (V)	II	Recurrence relations	09.01.18
23.	10.01.18 F	II	"	
24.	10.01.18 F	II	Orthogonality of Bessel's fn	10.01.18
25.	12.01.18 B	II	"	
26.	12.01.18 B	II	Generating fn	18.01.18
27.	18.01.18 C	II	Bessel's Integrals	20.01.18
28.	20.01.18 E	II	Jacobi Series.	22.01.18
29.	22.01.18 F	II	Laguerre's diff eqn & its polynomial	22.01.18
30.	22-01-18 F	II	"	
31.	24-01-18 B	II	"	
32.	24-01-18 B	II	Generating fn.	24.01.18
33.	25-01-18 C	II	Recurrence formula	30.01.18
34.	30-01-18 E	II	"	
35.	31-01-18 F	II	Orthogonal property	31.01.18
36.	31-01-18 F	II	"	
37.	02.02-18 B	III	Partial diff eqn & Mthd of Separation of variables	02.02.18
38.	02-02-18 B	III	"	
39.	05-02-18 C	III	Heat Conduction problem - 1D	05.02-18
40.	07-02-18 E	III	"	

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
41.	08-02-18 F	III	Temp inside the circular plate	08-02-18
42.	08-02-18 F	III	Temp inside the Rectangular plate	08-02-18
43.	10-02-18 B	III	Cooling of hot brick. (3-D heat flow)	10-02-18
44.	10-02-18 B	III	"	
45.	12-02-18 C	III	Electrical analogy of heat flow	14-02-18
46.	14-02-18 E	III	" (current density & current in wire)	
47.	15-02-18 F	III	"	
48.	15-02-18 F	III	Vibration of stretched string	15-02-18
49.	19-02-18 B	III	"	
50.	19-02-18 B	III	Vibration of circular membrane	20-02-18
51.	20-02-18 C	III	"	
52.	22-02-18 E	III	"	
53.	23-02-18 F	III	Vibration of rectangular membrane	23-02-18
54.	23-02-18 F	III	"	
55.	27-02-18 B	IV	Occurrence of tensors in physics	02-03-18
56.	27-02-18 B	IV	Contravariant tensor	13-03-18
57.	28-02-18 C	IV	Covariant tensor	16-03-18
58.	02-03-18 E	IV	Tensors of second rank	26-03-18
59.	03-03-18 F	IV	"	
60.	03-03-18 F	IV	Algebra of tensors	27-03-18
61.	06-03-18 B	IV	Equality & Null tensors.	27-03-18
62.	06-03-18 B	IV	Addition & Subtraction	03-04-18
63.	07-03-18 C	IV	Outer product	09-04-18
64.	09-03-18 E	IV	Inner product.	09-04-18
65.	10-03-18 F	IV	Contraction of tensors	04-04-18

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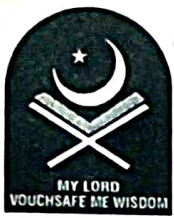
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Sl.No.	Date & Order	Unit	Topics planned	Covered on
66.	10.03.18 F	TU	Symmetric tensors	06-04-18
67.	13.03.18 B	TU	Anti symmetric tensors	06-04-18
68.	13.03.18 B	TU	Kronecker delta -	11-04-18
69.	14-03-18 C	TU	Quotient law.	11-04-18
70.	16-03-18 F	TU	Metric tensor	11-04-18
71.	19-03-18 F	TU	"	"
72.	19-03-18 F	TU	application of tensors (Hook's law)	"
73.	21-03-18 B	TU	Dirac delta function	22-04-18
74.	21-03-18 B	TU	"	
75.	22-03-18 C	TU	Different forms derivative of function	12-04-18
76.	26-03-18 E	TU	"	
77.	27-03-18 F	TU	properties of dirac delta fn	17-04-18
78.	27-03-18 F	TU	"	
79.	03-04-18 B	TU	Green's functions	17-04-18
80.	03-04-18 B	TU	"	
81.	04-04-18 C	TU	Symmetric property	20.04.18
82.	06-04-18 F	TU	"	
83.	09-04-18 F	TU	"	
84.	09-04-18 F	TU	Green's fns for boundary value prob	20.04.18
85.	11-04-18 B	TU	"	
86.	11-04-18 B	TU	"	
87.	12-04-18	TU	Green's fns for poisson's eqn	21.04.18
88.	20-04-18 F	TU	"	
89.	21-04-18 F	TU	"	
90.	21-04-18 F	TU	"	

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course: PG Physics

Class: I M.Sc Academic Year: 2017 - 2018 Semester: II

Title of the Paper: Quantum Mechanics - I

Subject Code: 15PPH C22

Theory / Practical

Name of the Teacher: A. ZEENATH BAZEERA

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	06.12.2017 A	I	Introduction - Fundamentals of Quam. Mechanics	06.12.2017
2.	07.12.2017 B		Postulates of Quam. Mech.	07.12.2017
3.	08.12.2017 C		Eqn. of motion of matter waves	08.12.2017
4.	11.12.2017 D		"	12.12.2017
5.	12.12.2017 E		Physical interpretation of wave fn.	14.12.2017
6.	14.12.2017 A		"	14.12.2017
7.	15.12.2017 B		Normalised wave function	15.12.2017
8.	18.12.2017 C		orthogonal wave functions	"
9.	19.12.2017 D		Soln. of sch. equation	19.12.2017
10.	20.12.2017 E		"	20.12.2017
11.	22.12.2017 A		Expectation values of dynamical quantities	22.12.2017
12.	27.12.2017 B		"	27.12.2017
13.	28.12.2017 C		Probability current density	28.12.2017
14.	29.12.2017 D		"	29.12.2017
15.	30.12.2017 E		Ehrenfest's theorem	30.12.2017

Text books :

- P.M. Mathews & Venkatesan - A text book of Quam Mech.
- Advanced Quam. Mech. by Aruldas Prakash

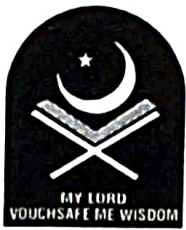
Reference books :

- L.I. Schiff - Quam. Mech. Mc. Graw Hill Book comp
- V. Devanathan - Quam. Mech. Narosa Pub.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	2+1					
Internal Test	3	I st Test Portions Unit I Unit II - half	II nd Test Portions Unit II - Remaining half Portions Unit - III	III rd Test Portions Unit - IV Unit - V half	I - 20.01.18 II - 28.01.18 III - 04.04.18	23.01.2018 01.03.2018 04.04.2018

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
16.	03.01.2018 A		Uncertainty principle	03.01.18
17.	04.01.2018 B		"	04.01.18
18.	05.01.2018 C		Mathematical proof of uncertainty principle	05.01.18
19.	08.01.2018 D		for one dimensional wave pkt.	08.01.18
20.	09.01.2018 E	II.	Introduction- Bound state and	09.01.18
21.	11.01.2018 A		potential Barriers	11.01.18
22.	12.01.2018 B		Bound state problems	11.01.18
23.	18.01.2018 C		"	18.01.18
24.	19.01.2018 D		Particle in a box.	19.01.18
25.	20.01.2018 E		"	20.01.18
26.	23.01.2018 A		Infinite potential energy	20.01.18
27.	24.01.2018 B		"	24.01.18
28.	25.01.2018 C		One dimensional square well	24.01.18
29.	29.01.2018 D		" potential	29.01.18
30.	30.01.2018 E		"	30.01.18
31.	01.02.2018 A		Finite potential step	01.02.18
32.	02.02.2018 B		"	02.02.18
33.	05.02.2018 C		Parity	05.02.18
34.	06.02.2018 D		Linear Harmonic Oscillator	06.02.18
35.	07.02.2018 E		"	06.02.18
36.	09.02.2018 A		"	09.02.18
37.	10.02.2018 B		Rigid Rotator	09.02.18
38.	12.02.2018 C		"	12.02.18
39.	13.02.2018 D		Hydrogen atom	13.02.18
40.	14.02.2018 E		" Revision	14.02.18

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
41.	17.02.2018 A	III	Introduction - Eqn. of motion and Matrix Mechanics	16.02.18
42.	19.02.2018 B			19.02.18
43.	20.02.2018 C		Hilbert space	20.02.18
44.	21.02.2018 D		Bra and ket notation	21.02.18
45.	22.02.2018 E		Eqn. of motion	22.02.18
46.	26.02.2018 A		Schrodinger picture	26.02.18
47.	27.02.2018 B		"	27.02.18
48.	28.02.2018 C		Heisenberg picture	27.02.18
49.	01.03.2018 D		Interaction picture	05.03.18
50.	02.03.2018 E		Comparison of three pictures	05.03.18
51.	05.03.2018 A		Matrix theory of Harmonic	06.03.18
52.	06.03.2018 B		oscillator	06.03.18
53.	07.03.2018 C		Creation and annihilation operators	08.03.18
54.	08.03.2018 D		Matrix rep. of position	08.03.18
55.	09.03.2018 E		and momentum operation	12.03.18
56.	12.03.2018 A	Matrix rep. of creation and annihilation	12.03.18	
57.	13.03.2018 B	Revision	13.03.18	
58.	14.03.2018 C	IV	Introduction - Angular momentum	13.03.18
59.	15.03.2018 D			Components of angular momentum
60.	16.03.2018 E		in cartesian and spherical polar coordinates	16.03.18
61.	20.03.2018 A		Spectrum of Eigenvalues for	26.03.18
62.	21.03.2018 B		angular momentum operation J^2 and J_z	20.03.18
63.	22.03.2018 C		"	23.03.18
64.	23.03.2018 D		Raising and lowering operators	26.03.18
65.	26.03.2018 E		"	26.03.18

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
66.	02.04.2018 A		Commutation relations between angular momentum operators	02.04.18
67.	03.04.2018 B		"	02.04.18
68.	04.04.2018 C		Addition of angular momenta	03.04.18
69.	05.04.2018 D		"	04.04.18
70.	06.04.2018 E		Clebsch Gordan Co-eff. $j_1 = 1/2, j_2 = 1/2$	05.04.18
71.	10.04.2018 A		"	06.04.18
72.	11.04.2018 B		Clebsch Gordan Co-eff. $j_1 = 1, j_2 = 1/2$	12.04.18
73.	12.04.2018 C		"	13.04.18
74.	13.04.2018 D		"	13.04.18
75.	20.04.2018 E		Revision	

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course: M.Sc

Class: ^{I.M.Sc} Physics

Academic Year: 2017 - 2018 Semester: II

Title of the Paper: Statistical Mechanics

Subject Code: 15 PPHC 23

Theory / Practical

Name of the Teacher: A. Ponchitra

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	7.12.17 B	I	Introduction	17.12.17
2	8.12.17 C	I	Objectives of statistical mechanics	12.12.17
3	8.12.17 C	I	Micro, Macro states	12.12.17
4	11.12.17 D	I	Phase space	12.12.17
5	12.12.17 E	I	Ensembles	12.12.17
6	13.12.17 F	I	Ergodic hypothesis Postulates	12.12.17
7	15.12.17 B	I	Postulates of equal a priori probability	15.12.17
8	18.12.17 C	I	"	18.12.17
9	18.12.17 C	I	Equality of ensembles	18.12.17
10	19.12.17 D	I	Ensemble & Time Average	19.12.17
11	20.12.17 E	I	Entropy of Ideal gas	26.12.17
12	21.12.17 F	I	Sackur-Tetrode eqn	21.12.17
13	27.12.17 B	I	Gibbs Paradox	27.12.17
14	28.12.17 C	I	Liouville's Theorem	28.12.17
15	28.12.17 C	I	System in contact with heat reservoir	

Text books :

1. Statistical Mechanics, Sathya Prakash nath Ram nath Publication, Newdelhi 2009
2. Statistical Mechanics - kuptha, kumar, Shree

Reference books :

1. Fundamentals of statistical & Thermodynamics, F. Reif, Mc.Graw-Hill international edition 1985
2. Statistical mechanics - R.K. Pathria, Butterworths

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	3	Liouville's Theorem	vanderwaals eqn of state	Bose-Einstein statistics	29.12.17 6.2.18	29.12.17 6.2.18
Internal Test	3	I st Test Portions Unit I full Unit II half	II nd Test Portions Unit I half Unit III full	III rd Test Portions Unit IV & V Unit V	22.1.18 1.3.18 5.4.18	24.1.18 2.3.18 11.4.18

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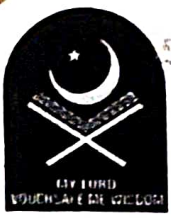
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Sl.No.	Date & Order	Unit	Topics planned	Covered on
16	29.12.17 D	II	Expression of Entropy	29.12.17
17	30.12.17 E	II	Canonical partition fn	30.12.17
18	2.1.18 F	II	Helmholtz free Energy	2.1.18
19	4.1.18 B	II	Fluctuation of internal energy	4.1.18
20	5.1.18 C	II	Grand Canonical ensemble	5.1.18
21	5.1.18 C	II	System in contact with a	5.1.18
22	8.1.18 D	II	Particle Reservoir	8.1.18
23	9.1.18 E	II	Chemical Potential	9.1.18
24	10.1.18 F	II	Grand Canonical partition fn	10.1.18
25	12.1.18 B	II	Grand potential	18.1.18
26	18.1.18 C	II	fluctuations of particle no	18.1.18
27	18.1.18 C		Unit II Revision	
28	19.1.18 D	III	Mean field Theory	20.1.18
29	20.1.18 E	III	Vander Waals eqn of state	22.1.18
30	22.1.18 F	III	Density of matrix	24.1.18
31	24.1.18 B	III	Quantum Liouville's Theorem	25.1.18
32	25.1.18 C	III	Density Matrix for Canonical ensemble	25.1.18
33	25.1.18 C	III	Density matrix for grand Canonical ensemble	29.1.18
34	29.1.18 D	III	Density Matrices for micro	30.1.18
35	30.1.18 E	III	Canonical Ensemble	31.1.18
36	31.1.18 F	III	Electron gas in metals	2.2.18
37	2.2.18 B	III	Thermionic Emission	5.2.18
38	5.2.18 C	III	Density Matrix	5.2.18
39	5.2.18 C	III	Unit III Revision	6.2.18
40	6.2.18 D	III		

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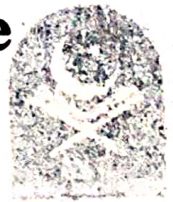
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Sl.No.	Date & Order	Unit	Topics planned	Covered on
41	7.2.18 E	<u>IV</u>	Identical Particles.	8.2.18
42	8.2.18 F		Introduction	10.2.18
43	10.2.18 B		Bose - Einstein Statistics	13.2.18
44	12.2.18 C		Fermi - Dirac Statistics	13.2.18
45	12.2.18 C		Bose - Einstein Condensation	14.2.18
46	13.2.18 D		Eqn of state of ideal gas	15.2.18
47	14.2.18 E		Eqn of state of fermi gas	19.2.18
48	15.2.18 F		Using Model	20.2.18
49	19.2.18 B		partition fn for n-dimensional case	20.2.18
50	20.2.18 C		"	21.2.18
51	20.2.18 C		Chemical equilibrium	22.2.18
52	21.2.18 D		Saha - Ionization formula	23.2.18
53	22.2.18 E		Unit. <u>IV</u> Revision	23.2.18
54	23.2.18 F		"	28.2.18
55	27.2.18 B		"	28 2.18
56	28.2.18 C		Unit <u>V</u> Introduction	28 2.18
57	28.2.18 C		Phase Transition	3.3.18
58	1.3.18 D		First Order Transition	6.3.18
59	2.3.18 E		Second Order Transition	7.3.18
60	3.3.18 F		Critical Exponents	7.3.18
61	6.3.18 B		Landau theory of Phase Transition	8.3.18
62	7.3.18 C		Low temperature Physics	9.3.18
63	7.3.18 C		He - I	10.3.18
64	8.3.18 D		He - II	10.3.18
65	9.3.18 E		Measurement of Low Temp Physics	13.3.18


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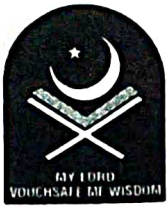
LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
66	10.3.18 F	V	Some Peculiar Properties of	15.3.18
67	13.3.18 B		He - I	15.3.18
68	14.3.18 C		Some peculiar properties of	19.3.18
69	14.3.18 C		He - I	19.3.18
70	15.3.18 D		Landau's theory of Phase Transition	26.3.18
71	16.3.18 E		Unit V Revision	27.3.18
72	19.3.18 F		"	27.3.18
73	21.3.18 B		"	27.3.18
74	22.3.18 C		"	27.3.18
75	22.3.18 C		Unit IV Revision	4.4.18
76	23.3.18 D		"	5.4.18
77	26.3.18 E		"	5.4.18
78	27.3.18 F		"	6.4.18
79	3.4.18 B		"	11.4.18
80	4.4.18 C		Unit III Revision	12.4.18
81	4.4.18 C		"	12.4.18
82	5.4.18 D		"	13.4.18
83	6.4.18 E		"	
84	7.4.18 F		Unit II Revision	13.4.18
85	11.4.18 B		"	
86	12.4.18 C		"	
87	12.4.18 C		unit I Revision	20.4.18
88	17.4.18 D		Model Exam	20.4.18
89	20.4.18 E		"	
90	21.4.18 F		"	

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4

LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course: M.Sc. Physics Class: I year Academic Year: 2017 - 2018 Semester: II
 Title of the Paper: Microprocessor & microcontroller Subject Code: 15PPHC24
 Theory / Practical: Theory Name of the Teacher: Dr. R. Jothi Mani

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	7.12.17 B	I	Introduction to 8085 MP	12.12.17
2	8.12.17 C	I	"	12.12.17
3	12.12.17 E	I	"	12.12.17
4	15.12.17 B	I	Evolution of MP 8085	18.12.17
5	18.12.17 C	I	"	18.12.17
6	20.12.17 E	I	"	20.12.17
7	27.12.17 B	I	Pin configuration of 8085	27.12.17
8	28.12.17 C	I	"	28.12.17
9	30.12.17 E	I	Function' of 8085	30.12.17
10	4.1.18 B	I	Architecture of 8085	4.1.18
11	5.1.18 C	I	ALU, "	5.1.18
12	9.1.18 E	I	Flags "	9.1.18
13	12.1.18 B	I	Registers "	18.1.18
14	18.1.18 C	I	TCU "	18.1.18
15	20.1.18 E	I	Bus systems	20.1.18.

Text books :

Reference books :

1. Microprocessors & controller - A. Nagravkar
2. " - B Ram
1. Microprocessor Architecture - Ramash
2. 8085 Controller - Kenneth

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment		Architecture (8085)	Data Bus		18.1.18	5.2.18.
Internal Test		I st Test Portions	II nd Test Portions	III rd Test Portions	23.1.18	25.1.18
					2.3.18	3.3.18
		I	II	V (1/2)	6.4.18	6.4.18

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
16	24.1.18 B	I	Interrupts	25.1.18
17	25.1.18 C	I	Machine cycles of 8085	25.1.18
18	30.1.18 E	I	"	20.2.18
19	2.2.18 B	"	"	2.2.18
20	5.2.18 C	"	"	7.2.18
21	7.2.18 E	"	Timing diagram of 8085	7.2.18
22	10.2.18 B	"	"	10.2.18
23	12.2.18 C	"	"	14.2.18
24	14.2.18 E	"	"	14.2.18
25	19.2.18 B	"	"	20.2.18
26	20.2.18 C	II	Addressing modes	20.2.18
27	22.2.18 E	"	"	22.2.18
28	27.2.18 B	"	"	28.2.18
29	28.2.18 C	"	Word size	28.2.18
30	2.3.18 E	"	Opcode & operand	2.3.18
31	6.3.18 B	"	Instruction set - Introduction	6.3.18
32	7.3.18 C	"	Types	6.3.18
33	9.3.18 E	"	Data Transfer Instruction sets	7.3.18
34	12.3.18 B	"	"	7.3.18
35	14.3.18 C	"	logical / Arithmetic	16.3.18
36	16.3.18 E	"	logical / Arithmetic	16.3.18
37	21.3.18 B	"	Branch	26.3.18
38	22.3.18 C	"	Branch	26.3.18
39	26.3.18 E	"	Branch	3.4.18
40	3.4.18 B	"	Branch	3.4.18

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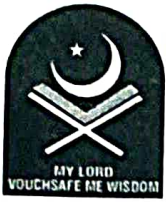
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Sl.No.	Date & Order	Unit	Topics planned	Covered on
41	4.4.18 C	"	Simple programs	6.4.18.
42	6.4.18 E	"	"	6.4.18 -
43	11.4.18 B	V	Traffic light control system	11.4.18 .
44	12.4.18 C	"	Stepper motor control system	12.4.18 .
45	20.4.18 E	"	Revision.	17.4.18

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : PHYSICS

Class : II M.Sc. (Phy) Academic Year : 2017 - 2018 Semester : IV

Title of the Paper : ~~Laser and~~ oph electronics and Lasers

Subject Code : 15 PPE4A

Theory / Practical

Name of the Teacher : Dr. V. CHINNATHAMBARI

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	10/12/2017 A	I	Introduction about laser	12.12.17
2.	11/12/2017 B		Electromagnetic waves	
3.	12/12/2017, C		Dispersion and its types	13.12.17
4.	12/12/2017, E		Polarization	14.12.17
5.	13/12/2017 F		Resonant Cavities.	15.12.17
6.	14/12 A		Reflection at a plane boundary	18.12.17
7.	15/12 B		Critical angle reflection.	20.12.17
8.	18/12 C		Normal dispersion	21.12.17
9.	20/12 E		Abbe dispersion	22.12.17
10.	20/12 F.		Information rate	27.12.17
11.	22/12 A		Problem - solving	28.12.17
12.	27/12 B		Problem - solving	28.12.17.
13.	28/12 C	<u>II</u>	Laser Principles.	2.1.18
14.	30/12 E		Absorption, Scattering Processes.	2.1.18
15.	21/1/18 F.		Einstein relation.	3.1.18.

Text books :

Reference books :

- Fiber Optic Communications by Joseph C. Palais, Pearson, New Delhi, 1972
- Laser & optical Instrumentation by Chakrabarti, etc

- Opto Electronics by J. Hilton, 3 F.B. Hawkes, Prentice Hall Publication.
- Introduction to fiber optics by A. Ghatak et al

Activity	Total Number	Topic II	Topic III	Topic III	Planned Date	Actual Date
Assignment	2	SI fiber	Nd-YAG laser		7.3.18 20.3.18	7.3.18 20.3.18
Internal Test	3	I st Test Portions 2 unit	II nd Test Portions 2 units	III rd Test Portions one unit.	22/1/18 1/3/18.	24/1/18 2/3/18

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
16	3/1/18 A	I	Laser operation	4.1.18
17	4/1/18 B		Population Inversion	5.1.18
18	5/1/18 C		Derivation of Beer's Law	9.1.18
19	9/1/18 E		gain medium	10.1.18
20	10/1/18 F		optical feedback	11.1.18
21	11/1/18 A		Transmitted amplifier.	12.1.18
22	12/1/18 B		Line shape function	18.1.18
23	18/1/18 C		Mode locking	20.1.18
24	20/1/18 DE		Active mode locking	22.1.18
25	22/1/18 F		Passive Mode Locking.	23.1.18
26	23/1/18 A	II	Q-switching method.	30.1.18.
27	24/1/18 B		Rotating mirror type Q-switch	30.1.18
28	25/1/18 C		Q-switching method	31.1.18
29	30/1/18 E		Rotating mirror type Q-switch.	1.2.18
30	31/1/18 F.		Q-switching using optical isolator	2.2.18
31	1/2 A		Passive Q-switching	5.2.18
32	2/2 B		Laser sources - Introduction	8.2.18
33	5/2 C		Types of Laser	9.2.18
34	7/2 E		Ruby laser	10.2.18
35	8/2 F		Nd:YAG Laser.	14.2.18
36	9/2 A	III	He-Ne Laser.	15.2.18
37	10/2 B		CO ₂ Laser	
38	12/2 C		Laser diodes	17.2.18
39	14/2 E		Operating characteristics	
40	15/2 F.		Laser detection.	

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	6.10.17 A	1	Basic operating principle of holography	14/12/17
2.	14.10.17 A	"	"	22/12/17
3.	22.12.17 A	"	Gravure hologram and its limitation	3/1/18
4.	3.1.18 A	"	"	11/1/18
5.	11.1.18 A	"	"	23/1/18
6.	23.1.18 A	"	practical problems in holography	1/2/18
7.	1.2.18 A	"	"	9/2/18
8.	9.2.18 A	"	Types of holograms.	17/2/18
9.	17.2.18 A	"	fransel & fraunhofer holograms	26/2/18
10.	26.2.18 A	"	"	5/3/18
11.	5.3.18 A	"	Transmission & Reflection holograms	12/3/18
12.	12.3.18 A	"	Multiplex holograms	12/3/18
13.	20.3.18 A	"	Application - Holography Interferometry	2/3/18
14.	2.4.18 A	"	Holography Computer memory	2/3/18..
15.	10.4.18 A	"	Revision - 1	2/4/18.
16.	16.4.18 A	"	"	
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