Sadakathullah Appa College

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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 : 15PPHC21

Theory / Practical Name of the Teacher : A. Ferin Fathima

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	07.12.17 B (II)	I	Functions of Complex Variables	12.12.17
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 (II)	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 (II)	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 - Satya Prakash - Sultan Chand & Sons - Newdelhi
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 (1955)
2. Applied Mathematics for Engineers & Physicists - Pipes & Harvill

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	3	Cauchy's Integral thm	Bessel's diff eqn & its soln	3-D Heat flow eqn & its soln		
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 - running IV - Unit full V - half	I - 19-01-18 II - 27-02-18 III - 03-04-18	22-01-18 28-02-18 03-09-18

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
16.	30.12.17 E (V)	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	Orthonormality 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	Laugeurre'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.	30-01-18 F	II	Orthogonal property	31.01.18
36.	31-01-18 F	II	"	
37.	02.02-18 B	III	Partial diff eqn & Method 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 (current density & current in wire)	14-02-18
46.	14-02-18 E	III	"	
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	Occurence 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	04-04-18
64.	09-03-18 E	IV	Inner product.	04-04-18
65.	10-03-18 E	IV	Contraction of tensors	04-04-18

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

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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 : 15PPHC22

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 Quan. Mechanics	06.12.2017
2.	07.12.2017 B		Postulates of Quan. Mech.	11.12.2017
3.	08.12.2017 C		Eqn. of motion of matter waves	12.12.2017
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		Solv. 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 :

1. P.M. Mathews & Venkatesan - A text book of Quan Mech.
2. Advanced Quan. Mech. Gupta Kumaldhar Sathya Prakash

Reference books :

1. L.I. Schiff. - Quan. Mech. Mc. Graw Hill Book comp.
2. V. Devanathan - Quan. 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 Portion 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		Uncertainity principle	03.01.18
17.	04.01.2018 B		"	04.01.18
18.	05.01.2018 C		Mathematical proof of uncertainity 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	25.01.18
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	16.02.18
42.	19.02.2018 B		and Matrix Mechanics	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 anihilation operators	08.03.18
54.	08.03.2018 D		Matrix rep. of position	08.03.18
55.	09.03.2018 E		and momentum operators	12.03.18
56.	12.03.2018 A		Matrix rep. of creation and anihilation	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	15.03.18
60.	16.03.2018 E		in cartesian and spherical polar Coordinates	16.03.18
61.	20.03.2018 A		Spectrum of Eigenvalues for	16.03.18
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 : 15PPHC23

Theory / Practical Name of the Teacher : A. Ponchitra

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	7.12.17 B	I	Introduction	7.12.17
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	15.12.17
7	15.12.17 B	I	Postulates of a equal 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	20.12.17
12	21.12.17 F	I	Sackur - Tetrode eqn	21.12.17
13	27.12.17 B	I	Gibb's Paradox	27.12.17
14	28.12.17 C	I	Liouville's Theorem	28.12.17
15	29.12.17 C	I	System in Contact with heat reservior	

Text books :

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

Reference books :

1. Fundamentals of statistical & Therm Physics, F. Reif, Mc. Graw - Hill int national edition 1985
2. Statistical mechanics - R.K. Pathria, Interna Pathemann

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 II half Unit III full	III rd Test Portions Unit IV & Unit V	22.1.18 1.3.18 5.4.18	24.1.18 2.3.18 11.4.18

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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 Reservior.	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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Sl.No.	Date & Order	Unit	Topics planned	Covered on
41	7.2.18 E	IV	Identichal 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	12.2.19 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		Ising Model	20.2.18
49	19.2.18 B		partition fn for one dimensional case	20.2.18
50	20.2.18 C		"	21.2.18
51	20.2.18 C		Chemical equilibrium	22.2.18
52	22.2.18 D		Saha - Ionization formula	23.2.18
53	22.2.18 E		Unit IV 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 V Introduction	2.3.18
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	8.3.18
63	7.3.18 C		He - I	10.3.18
64	8.3.18 D		He - II	10.3.18
65	9.318 E		Measurement of Low Temp Physics	13.3.18

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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-II	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		"	2.4.18
74	22.3.18 C		"	3.4.18
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	19.4.18 D		Model Exam	20.4.18
89	20.4.18 E		"	
90	21.4.18 F		"	

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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	Functional 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 :

1. Microprocessor & controller - A. Nagoorkani
2. " - B Ram

Reference books :

1. Microprocessor Architecture - Ramesh
2. 8051 Controller - Kenneth

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment		Architecture (8085)	Data Type		18.1.18	5.2.18.
Internal Test		I st Test Portions I	II nd Test Portions II	III rd Test Portions V (½)	23.1.18 2.3.18 6.4.18.	25.1.18 3.3.18 6.4.18

R Jothi Mani

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
16	24.1.18 B	I	Interrupts	25.1.12
17	25.1.18 C	I	Machine cycles of 8085	25.1.12.
18	30.1.18 E	I	"	29.2.18
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 Modess	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	13.3.18 B	"	"	7.3.18
35	14.3.18 C	"	logical / Arithmatic	16.3.18
36	16.3.18 E	"	logical / Arithmatic	16.3.18
37	21.3.18 B	"	Branch	26.3.18
38	22.13.18 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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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 sys	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~~ opto electronics and Lasers Subject Code : 15 PPE4A.

Theory / ~~Practical~~ Name of the Teacher : Dr. V. CHINNATHAMBI

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	6/12/2017 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.	13/12/2017, 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		Natural dispersion	21.12.17
9	20/12 E		Pulse dispersion	22.12.17
10	21/12 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	II	Laser Principles.	2.1.18
14	30/12 E		Absorption, Emission Processes.	2.1.18.
15	2/1/18 F.		Einstein relation.	3.1.18.

Text books :

1. Fiber Optic Communications by Joseph C. Palais, Pearson, NewDelhi, 5th
2. Laser & optical Instrumentation by Vasudevamurthy, etc

Reference books :

1. Opto Electronics by J. Wilson, J.F.B. Hawkes, Prentice Hall Publications.
2. Introduction to fiber optics Ajoy Ghatak etal

Activity	Total Number	Topic II	Topic II	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.	28/1/18 1/3/18.	24/1/18 2/3/18

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
11	3/1/18 A	II	Laser operation	4.1.18
12	4/1/ B		Population Inversion	5.1.18
13	5/1/ C		derivation & Threshold gain	9.1.18
15	9/1/18 E		gain medium	10.1.18
20	10/1/18 F		optical feedback	11.1.18
21	11/1/18 A		Resonant cavity	12.1.18
22	12/1/18 B		Laser characteristics	18.1.18
23	18/1/ C		Mode locking	20.1.18
24	20/1/ E		Active mode locking	22.1.18
25	22/1/ F		Passive Mode locking	23.1.18
26	23/1 A		Q-Switching methods	30.1.18.
27	24/1/ B		Rotating mirror type Q Switch	30.1.18
28	25/1/ C		Q-Switching methods	31.1.18
29	30/1 E		Rotating mirror type Q Switch	1.2.18
30	31/1 F.		Q-Switch using an optical fiber	2.2.18
31	1/2 A		Passive Q-Switching	5.2.18
32	2/2 B	III	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		He-Ne Lasers	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.		Optical detectors	19.2.18

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	6.12.17 A	V	Basic operating principle of holography	14/12/17
2.	14.12.17 A	"	"	22/12/17
3.	22.12.17 A	"	Gabour 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.	19/2/18
9.	17.2.18 A	"	Fresnel & 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 - V.	2/4/18.
16	16.4.18 A	"	"	
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