

KRA & RK



Sadakathullah Appa College

(AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011.

2018-19
EVEN

LESSON PLAN AND RECORD OF CLASSES ENGAGED

18UCPH 21

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	10.12.18 A	<u>IV</u>	Microwave spectroscopy - Introduction & theory.	10.12.18
2.	18.12.18 A		Pure rotational spectra of diatomic molecule.	18.12.18
3.	28.12.18 A		Rigid Rotator	28.12.18
4.	7.1.19 A		Symmetric top molecule	7.1.19
5.	22.1.19 A		Asymmetric top molecule.	22.1.19
6.	30.1.19 A		Block diagram of microwave spectrometer	30.1.19
7.	7.2.19 A		Microwave oven.	7.2.19
8.	14.2.19 A		class test	14.2.19
9.	22.2.19 A	<u>V</u>	IR & R Spectroscopy - Preliminaries	22.2.19
10.	2.3.19 A		Selection Rules	2.3.19
11.	9.3.19 A		Vibrating diatomic molecule.	9.3.19
12.	18.3.19 A		diatomic vibrating Rotator.	18.3.19
13.	27.3.19 A		Vibration of polyatomic molecules	27.3.19
14.	3.4.19 A		Normal vibration of CO ₂ and H ₂ O molecule.	3.4.19
15.	11.4.19 A		Class Test	11.4.19

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SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011

Online-Class Lesson Plan

Academic Year 2018-2019 [Even Semester]

Department: Physics

Class	: I BSe Physics
Semester	: II
Name of the Faculty	: Dr. D. Sathya
Title of the Course	: Value Education- II
Subject Code	: 18USVE2B
ICT Tools used	: Google Classroom
Text books	: Value Education-II (Sadakathullah Appa College Publication) Mahadevan, Jindha, Ayubkan
Reference books	:
e-resources	:

Sl. No	Actual Date	Unit	Topics Planned	Date-Topics Covered on	Remarks
1	12.12.18-C	I	Introduction to ethical values	12.12.18	
2	17.12.18-F	I	Individual Morality	17.12.18	
3	20.12.18-C	I	Objective of Moral life	20.12.18	
4	27.12.18-F	I	Living in accordance with the code of Morality	27.12.18	
5	31.12.18-C	I	the goodness of Morality	31.12.18	
6	04.01.19-F	I	Morality and <i>Thirukural</i>	04.01.19	
7	09.01.19-C	I	Morality and <i>Thirukural</i>	09.01.19	

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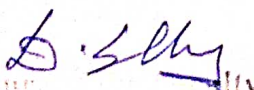
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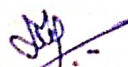
Sl. No	Actual Date	Unit	Topics Planned	Date-Topics Covered on	Remarks
8	21.01.19 - F	I	The need for faith	21.01.19	
UNIT-II					
9	24.1.19 - C	II	Adherence to higher code of Morality	24.1.19	
10	29.1.19 - F	II	Fear of God	29.1.19	
11	01.02.19 - C	II	Good Moral Values	01.02.19	
12	06.02.19 - F	II	Duty to Parents	06.02.19	
13	09.02.19 - C	II	Teacher, respecting elders, Moral Etiquettes	09.02.19	
14	13.02.19 - F	II	Right-minded Principle, High Principles for Proper conduct	13.02.19	
UNIT-III					
15	18.02.19 - C	III	Inculcating good attitudes	21.02.19	CL
16	21.02.19 - F	III	Open mindedness - Morale	26.02.19	
17	26.02.19 - C	III	analysing the pros and cons of good and bad	01.03.19	
18	01.03.19 - F	III	Service to others - Mind Power	05.03.19	
19	05.03.19 - E	III	tolerance, respecting others, showing love to others, patience	08.03.19	
20	08.03.19 - F	III	tranquility - Modesty, kindness and forgiveness	12.03.19	

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Sl. No	Actual Date	Unit	Topics Planned	Date-Topics Covered on	Remarks
UNIT-IV					
21	12.03.19-C	IV	Quotations and moral Stories expressing Good characters of Great personalities	15.03.19	
22	15.03.19-F	IV	Quotations and moral Stories expressing Good characters of Great personalities	20.03.19	
23	20.03.19-C	IV	Life History of Great people: Mahatma Gandhi	26.03.19	
24	26.03.19-F	IV	Life History of Great people: Mahatma Gandhi	29.03.19	6
25	29.03.19-C	IV	Life History of Great people: Abraham Lincoln	02.04.19	
26	02.04.19-F	IV	Life History of Great people: Dr. A.P.J. Abdul Kalam.	05.04.19	
UNIT-V					
27	05.04.19-C	V	Truth, the importance of uprightness,	10.04.19	
28	10.04.19-F	V	Truth, the integrity, friendship	10.04.19	
29	15.04.19-C	V	Health awareness on Alcohol and drug abuse	10.04.19	
30	15.04.19-C	V	inculcating reading habit	15.04.19	
31	20.04.19-F	V	reading good books, Hygiene	20.04.19	
32	20.04.19-F	V	Dowry, Corruption	20.04.19	

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : BSc Physics

Class : II Year Academic Year : 2018 - 2019 Semester : IV

Title of the Paper : ELECTROMAGNETISM

Subject Code : 15UPHC11

Theory / Practical

Name of the Teacher : Dr. D. SATHYA

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	12.12.18-C I		MAGNETIC PROPERTIES OF MATERIALS	12.12.18
2	13.12.18-D		Permeability	13.12.18
3	14.12.18-E		Susceptibility	14.12.18
4	17 12.18-F		Classification of magnetic materials	20.12.18 / 1st test
5	20.12.18-C		Langevin's theory of dia & para magnetism	21.12.18
6	21.12.18-D			26.12.18
7	26.12.18-E		Weiss theory of ferro magnetism	27.12.18
8	27.12.18-F			
	27.12.18-F		BH curve	27.12.18.
9	31.12.18-C		Ballistic method	31.12.18
10	2.1.19-D		Hysteresis	2.1.19
11	3.1.19-E		energy loss	3.1.19

Text books :

Reference books :

1. Electricity and Electromagnetism.
R. Murugesan
- 2.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment						
Internal Test		I st Test Portions	II nd Test Portions	III rd Test Portions		


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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
12	4.1.19-F	I	Importance of hysteresis	4.1.19
		II	MAGNETOSTATICS	
13	7.1.19-C		Magnetic vector potential	9.1.19
14	10.1.19-D		magnetic field for a long straight current carrying wire	10.1.19
15	11.1.19-E		Magnetic scalar potential	11.1.19
16	21.1.19-F		Application - Magnetic shell potential at any point due to a magnetic shell	21.1.19
17	24.1.19-C		magnetic shell potential due to circular magnetic shell	24.1.19
18	25.1.19-D		Ampere's theorem	25.1.19
19	28.1.19-E		Hall effect	28.1.19
20	29.1.19-F		quantitative analysis of Hall effect	29.1.19
21	1.2.19-C		Application of Hall effect	1.2.19
		III	MAGNETIC EFFECTS OF ELECTRIC CURRENT	
22	4.2.19-D		Cork screw rule	4.2.19
23	5.2.19-E		right hand thumb rule	5.2.19
24	6.2.19-F		definition for B	6.2.19
25	9.2.19-C		Biot-Savart's law	9.2.19

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
26	11.2.19-D	III	Ampere's law	11-2-19
27	12.2.19-E		magnetic field due to current in a straight conductor and circular coil	12-2-19
28	13.2.19-F			13-2-19
29	18.2.19-C		magnetic field due to a solenoid	18-2-19
30	19.2.19-D	IV	ELECTROMAGNETIC INDUCTION	19-2-19
31	20.2.19-E		Faraday's law of electro magnetic induction	20-2-19
32	21.2.19-F		vector form	21-2-19
33	26.2.19-C		self inductance } Self inductance of a } long solenoid }	26-2-19
34	27.2.19-D		Wheatstone bridge	27-2-19
35	28.2.19-E		Anderson bridge	28-2-19
36	1.3.19-F		mutual inductance	1-3-19
37	05.3.19-C		mutual inductance between } two coaxial coil }	5-3-19
38	06.03.19-D		experimental determination } of mutual inductance }	6-3-19
39	07.3.19-E		Coefficient of coupling	7-3-19

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
40	12.3.19-C	V	Intro GENERATORS AND MOTORS	12.3.19
41	13.3.19-D		Three phase ac generator	13.3.19
42	13.3.19-D		advantages	
			different types of three	
			phase connection	
41	13.3.19-D		ac dynamo	
42	14.3.19-D		{ Two phase ac generator	14.3.19
			{ DC dynamo	
			{ Field excitation	
			{ DC Motor	
43	15.3.19-F		{ Three phase ac generator	15.3.19
			{ y connection	
			{ Phase and Voltage	
			{ relationship	
			{ Delta connection	


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LESSON PLAN AND RECORD OF CLASSES ENGAGED

III 2
IV

Course : BSc Physics

Class : II Year Academic Year : 2018 - 2019 Semester :

Title of the Paper : Core

Practical - II

Subject Code : 15UPHCAP

Theory / Practical

Name of the Teacher : Dr. D. SATHYA

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	23.07.18-A		Determination of refractive index of glass	23.07.18
2			Newton's rings method	
3	01.06.18-A		Grating - Normal incidence Spectrometer	01.06.18
3	09.8.18-A		Grating - oblique incidence Spectrometer	09.08.18
4	18.8.18-A		Axial coil - determination of mag. moment of a magnet	18.08.18
5	03.09.18-A		M & BH - Tan C Position	03.09.18

Text books :

- 1.
- 2.

Reference books :

- 1.
- 2.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment						
Internal Test		I st Test Portions	II nd Test Portions	III rd Test Portions		

D. Sathya

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
6	10.9.18-A		Calibration of low range VOLTmeter - potentiometer	10.09.18
7	20.09.18-A		Calibration of low range ammeter - potentiometer	20.09.18
8	10.12.18-A		LCR series resonance	10.12.18
9	18.12.18-A		LCR Part parallel resonance	18.12.18
10	28.12.18-A		current and voltage sensitivity	28.12.18
11	07.01.19-A		Owen's Bridge	07.01.19
12	22.01.19-A		DeSauty Bridge	22.01.19
13	30.01.19-A		Determination of BH using Axial coil method	30.01.19
14	07.02.19-A		Carey Foster's Bridge Determination of specific resistance	07.02.19


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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course: BSC (Mathematics) Class: II year Academic Year: 2018 - 2019 Semester: IV

Title of the Paper: Allied Physics II

Subject Code: 150 PII A41

Theory / Practical

Name of the Teacher: Dr. S. Narayana R. B. G. M.

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1		<u>I</u>	<u>Reconstruction Relativity and wave mechanics</u>	
1	<u>10/12/18 - A</u>		<u>Introduction to frame of reference</u>	<u>10/12/18</u>
2	<u>13/12/18 - D</u>		<u>Galilean Transformation</u>	<u>13/12/18</u>
3	<u>18/12/18 - A</u>		<u>Postulates, Introduction of Lorentz transformation</u>	<u>18/12/18</u>
4	<u>21/12/18 - D</u>		<u>Derivation - Lorentz transformation</u>	<u>21/12/18</u>
5	<u>25/12/18 - A</u>		<u>De-Broglie's theory of matter waves</u>	<u>25/12/18</u>
6	<u>2/1/19 - D</u>		<u>Expression for De-Broglie's theory</u>	<u>2/1/19</u>
7	<u>7/1/19 - A</u>		<u>Davisson & Germer</u>	<u>7/1/19</u>
8	<u>10/1/19 - D</u>		<u>Experiment, Application</u>	<u>10/1/19</u>
9	<u>22/1/19 - A</u>		<u>Class test</u>	<u>22/1/19</u>
	25/1/19 - D	<u>II</u>	<u>Nuclear physics</u>	
10	<u>25/1/19 - D</u>		<u>Nuclear structure</u>	<u>25/1/19</u>
11	<u>30/1/19 - A</u>		<u>Properties of nucleus</u>	<u>30/1/19</u>
12	<u>4/2/19 - D</u>		<u>Packing fraction</u>	<u>4/2/19</u>
13	<u>7/2/19 - A</u>		<u>Binding energy</u>	<u>7/2/19</u>

Text books:

1.

2.

Reference books:

1. Modern Physics

2. Elements of Quantum Mechanics

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	<u>03</u>	<u>1st portion</u>	<u>2nd portion</u>	<u>3rd portion</u>		
Internal Test	<u>03</u>	<u>1st Test Portions</u>	<u>2nd Test Portions</u>	<u>3rd Test Portions</u>		

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
14	11/2/19-D	II	BE/A curve	11/2/19
15	14/2/19-A		Nuclear stability	14/2/19
16	19/2/19-D		Nuclear forces	19/2/19
17	22/2/19-A		Liquid drop model	22/2/19
18	24/2/19-D		class test - II	24/2/19
19	2/3/19-A	III	Electricity & Electromagnetism	
20	6/3/19-D		Charge, current, potential difference	2/3/19
21	8/3/19-F		Resistance, Resistivity & Ohm's law	6/3/19
22	9/3/19-A		Kirchoff's law, principle of potentiometer	8/3/19
23	13/3/19-D		calibration of voltmeter	9/3/19
24	15/3/19-F		capacitance, self induction	13/3/19
25	18/3/19-A		self induction of toroidal solenoid	15/3/19
26	19/3/19-D		Determination of resistance ^{Rayleigh} method	18/3/19
27	21/3/19-F		Mutual inductance b/w ^{two} coils	19/3/19
			Determination of mutual inductance using B.G	21/3/19
28	22/3/19-A	IV	Digital Electronics	
29	27/3/19-D		Basic logic gates	22/3/19
30	2/4/19-F		NOR, NAND, EX-OR gates	22/3/19
31	3/4/19-A		Boolean equation and logic circuits from table	27/3/19
32	8/4/19-D		NOR - universal gate	2/4/19
33	10/4/19-F		NAND - universal gates	3/4/19
34	11/4/19-A		Binary Adder	3/4/19
35	16/4/19-D		Half adder	8/4/19
36	20/4/19-F		Full adder	10/4/19
			class test - III	11/4/19


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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : UG

Class :

Academic Year : 2018 - 2019 Semester : EVEN

Title of the Paper : Allied Physics II

Subject Code : 18U APH 41

Theory / ~~Practical~~

Name of the Teacher : Dr. R. KUMUTHINI

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	13.12.18 D	I	Introduction - frame of reference.	13.12.18
2	14.12.18 E		Galilean transformation	14.12.18
3	17.12.18 F		Postulates, introduction of Lorentz transformation	17.12.18
4	21.12.18 D		Derivation of Lorentz transformation	21.12.18
5	26.12.18 E		De-Broglie's Theory of matter waves	26.12.18
6	27.12.18 F		Expression for de-Broglie wavelength	27.12.18
7	02.01.19 D		Explanation of Davison & Germer experiment	02.01.19
8	03.01.19 E		Applications of Davison and Germer experiment.	03.01.19
9	04.01.19. F		Class test	04.01.19

Text books :

- 1.
- 2.

Reference books :

1. Modern Physics - R. Murugesan
2. Electricity & Magnetism - R. Murugesan.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment		1st Test	Zener diode characteristics	Basic logic gates	21.12.18	21.12.18
Internal Test		1st Test Portions 1 1/2 unit 25% of II unit	II nd Test Portions 75% of II unit III unit 50%	III rd Test Portions 50% of III unit & IV unit	30.3.19	30.3.19

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
10	10.01.19 D	II	Nuclear structure	10.01.19
11	11.01.19 E		Properties of Nucleus	11.01.19
12	21.01.19 F		Packing fraction	21.01.19
13	25.01.19 D		Binding energy curve.	25.01.19
14	28.01.19 E		BE/A curve and applications	28.01.19
15	29.01.19 F		Nuclear forces	29.01.19
16	04.02.19 D		Nuclear stability	04.02.19
17	05.02.19 E		Liquid drop Model.	05.02.19
18	06.02.19 F		class test-	06.02.19
19	11.02.19 D	III	Charge, current, potential difference	11.2.19
20	12.02.19 E		Resistance, Resistivity, Ohm's law	12.2.19
21	13.02.19 F		Kirchoff's law, Principle of potentiometer	13.2.19
22	19.02.19 D		calibration of Voltmeter.	19.2.19
23	20.02.19 E		Capacitance, self induction.	20.2.19
24	21.02.19 F		Self Induction of toroidal Solenoid	21.2.19
25	27.02.19 D		Determination of Self Inductance Rayleigh method.	27.2.19
26	28.02.19 E		Mutual Inductance between two coils	28.2.19
27	01.03.19 F		Mutual Inductance between two coils determination using Bq	1.3.19.

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
28	06.03.19 D	IV	Semiconductor diode	6.3.19
29	07.03.19 E		Diode characteristics	7.3.19
30	08.03.19 F		Zener diode Characteristics	8.3.19
31	13.03.19 D		Regulation with Zener diode	13.3.19
32	14.03.19 E		Bridge rectifier - Half wave.	14.3.19
33	15.03.19 F		Bridge-rectifier - full wave.	15.3.19
34	22.03.19 D		Biasing of transistor	22.3.19
35	25.03.19 E		Characteristics of transistor	25.3.19
36	26.03.19 F		RC Coupled amplifier	26.3.19
37	30.03.19 D	V	Basic logic gates - truth table	30.3.19
38	01.04.19 E		NOR, NAND gates - Boolean equations, logic circuits, truth table	1.4.19
39	02.04.19 F		EX-OR gates, Boolean equation logic circuits, truth table	2.4.19
40	08.04.19 D		NOR gates as universal building block	8.4.19
41	09.04.19 E		NAND gate as universal building block	9.4.19
42	10.04.19 F		Binary adder	10.4.19
43	16.04.19 D		Full adder;	16.4.19
44	18.04.19 E		class test -	18.4.19
45	20.04.19 F		Half adder	20.4.19

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : 169

Class III B.Sc (Physics) Academic Year : 2018 - 2019 Semester : V

Title of the Paper : Quantum Mechanics and Statistical Mechanics Subject Code : 15A PHCG1

Theory / Practical

Name of the Teacher : Dr. S.H. Mohamed Ameer

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	10-12-18-A	(I)	Wave Mechanics - Adequacy of CM	12-12-18
2	13-12-18-D	I	Black body radiation	13-12-18
3	14-12-18-E	I	Matter waves - expression for λ	14-12-18
4	17-12-18-F	I	Davison - Germer exp.	17-12-18
5	18-12-18-A	I	G.P. Thomson exp.	18-12-18
6	20-12-18-D	I	wave packet and its motion	27-12-18
7	26-12-18-E	I	Relation between v_g & v_p	28-12-18
8	27-12-18-F	I	Heisenberg's uncertainty - principle	31-12-18
9	28-12-18-A	I	" " - proof	3-1-19
10	2-1-19-D	I	" " - applications	4-1-19
11	3-1-19-E	I	Sp. heat cap. of solids	21-1-19
12	4-1-19-F	I	" "	21-1-19
13	7-1-19-A	(II)	General formalism - Introduction	23-1-19
14	10-1-19-D	II	Schrodinger's time-dependent case of.	24-1-19
15	11-1-19-E	II	" time-independent "	29-1-19

Text books :

1. Quantum Mechanics - Gupta, Kumar & Sharma
2. Statistical Mechanics - Sathy, Prakash

Reference books :

1. Quantum Mechanics - Matveev and Vorkateen
- 2.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	2				23-1-18 20-9-18	
Internal Test	3	I st Test Portions unit-1	II nd Test Portions unit-2-3	III rd Test Portions unit-4		

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
16	21-1-19-F	II	Wave function & its properties	20-1-19
17	22-1-19-A	II	Normalisation of ψ	20-1-19
18	25-1-19-D	II	Orthogonalisation of ψ	20-1-19
19	28-1-19-E	II	Symmetric and antisymmetric ψ	5-2-19
20	29-1-19-F	II	" "	5-2-19
21	30-1-19-A	II	Probability curve of locality	6-2-19
22	4-2-19-D	II	" "	6-2-19
23	5-2-19-E	II	Stationary states	11-2-19
24	6-2-19-F	II	" "	11-2-19
25	7-2-19-A	II	Postulates of QM	12-2-19
26	11-2-19-D	III	Operators and their properties - Introduction	13-2-19
27	12-2-19-E	III	Linear operator	13-2-19
28	13-2-19-F	III	Identity and unity operators	14-2-19
29	14-2-19-A	III	Hamilton operator and its properties	19-2-19
30	19-2-19-D	III	" " "	21-2-19
31	20-2-19-E	III	" " "	21-2-19
32	21-2-19-F	III	Ladder operator and its properties	22-2-19
33	22-2-19-A	III	" " "	27-2-19
34	27-2-19-D	III	" " "	27-2-19
35	28-2-19-E	III	Laplacian operator	28-2-19
36	1-3-19-F	III	Momentum operator	28-2-19
37	2-3-19-A	III	" "	28-2-19
38	6-3-19-D	III	Hamiltonian operator & its properties	28-2-19
39	7-3-19-E	III	" " "	7-3-19
40	8-3-19-F	III	" " "	7-3-19

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
91	9-3-19-A	III	uncertainty principle using operator	8-3-19
92	13-3-19-D	III	" " "	9-3-19
93	14-3-19-E	IV	Bound state - Introduction	14-3-19
94	15-3-19-F	IV	Particle in a 1-D box	15-3-19
95	18-3-19-A	IV	" "	18-3-19
96	22-3-19-D	IV	Particle in a 3-D box	18-3-19
97	25-3-19-E	IV	" "	18-3-19
98	26-3-19-F	IV	Normalization of ψ	22-3-19
99	27-3-19-A	IV	Degeneracy	25-3-19
50	30-3-19-D	IV	" "	25-3-19
51	1-4-19-E	IV	Rigid rotator	29-3-19
52	2-4-19-F	IV	" "	30-3-19
53	3-4-19-A	IV	" "	30-3-19
54	8-4-19-D	IV	Linear harmonic oscillator	1-4-19
55	9-4-19-E	IV	" "	2-4-19
56	10-4-19-F	IV	Problems in unit-I	7-4-19
57	11-4-19-A	IV	" " unit-II	11-4-19, 12-4-19
58	16-4-19-D	IV	Pro " " unit-IV	15-4-19
59	18-4-19-E	IV	" " "	16-4-19
60	20-4-19-F	IV	" " "	23-4-19, 25-4-19
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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : BSC Physics Class : III year Academic Year : 2018 - 2019 Semester : VI
 Title of the Paper : Communication Electronics Subject Code : 150PHC62
 Theory / Practical Name of the Teacher : Dr. M. Mohamed Roshan & Dr. S. Nazam Begum

Sl.No.	Date & Order	Unit	Topics planned	Covered on
		I	Radio communication systems	
1	11/12/18 - B		Introduction to communication systems	11/12/18
2	17/12/18 - F		Need for modulation	11/12/18
3	19/12/18 - B		Signal to noise ratio	17/12/18
4	27/12/18 - F		Amplitude modulation	17/12/18
5	29/12/18 - B		Its frequency spectrum	19/12/18
6	4/1/19 - F		AM transmitter	27/12/18
7	8/1/19 - B		AM superheterodyne receiver	29/12/18
8	21/1/19 - F		"	4/1/19
9	23/1/19 - B		Frequency modulation	4/1/19
10	29/1/19 - F		Frequency spectrum	8/1/19
11	31/1/19 - B		FM transmitter	23/1/19
12	6/2/19 - F		"	31/1/19
13	8/2/19 - B		Comparison of Am & ?	31/1/19
14	13/2/19 - F		Fm	8/2/19

Text books :

- Principles of Communication - K.S. Brindavan
- Communication Electronics - Louis B. Frenzel

Reference books :

- Principle of Communication Systems - Schultz
- Principles of Communication - Ramakrishna

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	02	Am & Fm Modulation			13/2/19	15/2/19
Internal Test		I st Test Portions	II nd Test Portions	III rd Test Portions		

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
15	15/2/19-B		Class Fest - I	15/2/19
		II	Pulse Communication	
16	21/2/19-F		Introduction	21/2/19
17	25/2/19-B		types of pulse modulation	21/2/19
18	1/3/19-F		pulse amplitude modulation?	25/2/19
19	4/3/19-B		"	25/2/19
20	8/3/19-F		Pulse width modulation	1/3/19
21	11/3/19-B		Generation and detection?	1/3/19
22	15/3/19-F		of PPM modulation	8/3/19
23	19/3/19-B		pulse code Modulation?	1/3/19
24	26/3/19-F		"	11/3/19
25	28/3/19-B		frequency division ?	15/3/19
26	2/4/19-F		multiplexing	15/3/19
27	4/4/19-B		time division multiplexing?	19/3/19
28	10/4/19-F		Explanation TDM	26/3/19
29	12/4/19-B		telegraphy	28/3/19
30	20/4/19-F		Telemetry	2/4/19


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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : B.Sc

Class : III phy Academic Year : 2018 - 2019 Semester : VI

Title of the Paper : Communication Electronics

Subject Code : 15UPH C 62

Theory / Practical - 3 x 15 = 45 III units Name of the Teacher : M. M Shamed Roshan.

Sl.No.	Date & Order	Unit	Topics planned	Covered on
	4 5 3 ¹⁰ / 12 / 18 C F F	III	Digital communication	
1	12/12/18 C		Concept of binary and digital signal	14/12/18
2	14/12 E		Modes of Data transfer	17/12
3	17/12 F		Principle of Digital Communication	26/12
4	20/12 C		Speed, Bandwidth, Channel capacity	26/12
5	26/12 E		noise, Echo, Distortion & crosstalk	03/01
6	27/12 F		Introduction to coding, Morse code	04/01
7	31/12/18 C		Digital codes - Baudot & BCD	09/01
8	03/01/19 E		Digital codes - ASCII & EBCDIC	11/01
9	04/01 F		Need of the modem & types	11/01
10	09/01/19 C		Modem - Functioning & Applns.	21/01
11	11/01 E		Network - types - Introduction	21/01
12	21/01 F		LAN, MAN & WAN	01/02
13	24/01/19 C		Network Protocols	01/02

Text books :

Reference books :

- Principles of Communication K S Srinivasan
- Communication Electronics Louise Franzen
- Principles of Communication Systems: Theory & Applications - Gerd Weisner
- Optical Fiber Communication - Gerd Weisner

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment						
Internal Test		I st Test Portions	II nd Test Portions	III rd Test Portions		


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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
		<u>III</u>		
14	28/01/19 E		E-mail - Sending & Receiving information	05/02
15	29/01/19 F	<u>III</u>	Internet - applications - uses	05/02
		<u>IV</u>		
		<u>IV</u>	Broad Band Communication	
16	01/02/19 C		Broad Band Introduction Range, types	09/02
17	05/02 E		Microwave Comm. Links, Repeaters	12/02
18	06/02 F		M/W Long Haul systems.	13/02
19	09/02 C		Comm. Through submarine cables	18/02
20	12/02 E		Principle of Satellite comm.	20/02
21	13/02 F		Characteristics of Satellite	21/02
22	18/02 C		Construction of Satellite - Components	21/02
23	20/02 E		Comm between Earth Station & Satellite	26/02
24	21/02 F		Principle of Radar comm.	28/02
25	26/02 C		Radar Performance factors.	05/03
26	28/02 E		Doppler effect & its appln in Radar	07/03
27	01/03/19 F		Types of Radar Systems - C/W Radar	09/03
28	05/03 A		Pulsed Radar Systems.	12/03
29	07/03 E		Numericals Related to topics covered	14/03
30	08/03/19 F	<u>IV</u>	Revision of chapter topics.	14/03
		<u>V</u>		
		<u>V</u>	Optical communication	
31	12/03/19 C	<u>V</u>	Introduction to Fibre & its structure	15/03
32	14/03/19 E		Principle of TIR applied in Fibres.	25/03


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Sl.No.	Date & Order	Unit	Topics planned	Covered on
33	15/3/19 F	<u>V</u>	Acceptance Angle & Numerical aperture.	26/3
34	20/3 C		characteristics of Optical Fibre.	CL 26/3
35	25/3 E		Advantages of Fibres over copper cables	29/3
36	26/3 F		Types of Fibre cables & losses	01/04
37	29/3 C		Fiber optic components - source (LED)	02/04
38	01/04 -E		" - Detector PIN & APD	05/04
39	02/04 F		Optical link - Fibre cable testing	09/04
40	05/04 C		Types of splicing - Fusion & mechanical	09/04
41	09/04 E		Mechanical splicing Process	10/4
42	10/4 F		Optical connectors - types / working	10/4
43	15/4 C		Optical communication - Receiver	15/4
44	18/4 E		Practical applications - Present systems. Discussion on	18/4
45	20/4 F	<u>V</u>	Revision of chapter topics	20/4

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course :

Class : III physics Academic Year : 2018 - 2019 Semester : V & VI

Title of the Paper : Core - Physics Practical - III

Subject Code : 15UPHC6P1

Theory / Practical

Name of the Teacher : M. Mohamed Roshan

Sl.No.	Date & Order	Unit/ cycle	Topics planned	Covered on
	¹⁻³ B ¹⁻³ D ¹⁻³ E		<u>Ist cycle</u>	
1	19/6/18	I	i - d curve	28/6/18
2	to	I	Cauchy's constant	to
3	19/7/18	I	Figure of Merit - Absolute Capacity	30/7/18
			<u>IInd cycle</u>	
4	24/7/18	II	i - i' curve	02/8/18
5	to	II	Thermo EMF	to
6	16/8/18	II	Planck's Constant - Using Photocell.	30/8/18
			<u>IIIrd cycle</u>	
7	27/8/18	III	Hartmann's Constant	11/9/18
8	to	III	Young's Modulus - Elliptical Fringes	to
9	27/9/18	III	High Resistance - Leakage method.	15/10/18

Text books :

1. Practical Physics - Duseph.


2.

Reference books :

1.

2.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment						
Internal Test		I st Test Portions	II nd Test Portions	III rd Test Portions		


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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
	1-3 B 3-5 D E		<u>IVth cycle</u>	
10	19/12/18	IV	Biprism - spectrometer	19/12/18
11	to	IV	Determination of Mutual Inductance to	
12	11/01/19	IV	Hysteresis loss - B-H curve of coils - B _s	28/01/19
		V	<u>Vth cycle</u>	
13	23/01/19	V	Comparison of Mutual Inductance	04/02/19
14	to	V	of Pairs of coils using B _s	to
15	20/02/19	V	Conversion of Galvanometer into Ammeter & voltmeter.	07/03/19


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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course: BSc Physics Class: III year Academic Year: 2018 - 2019 Semester: V and VI
 Title of the Paper: Core practical - IV Subject Code: 150 PIA C6 P2
 Theory / Practical Name of the Teacher: S. Nazareth Begum

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	19/6/2018-B	13 practical	Half adder and Full adder	6/7/2018
2	28/6/2018-B		Hearty oscillator	16/7/2018
3	6/7/2018-B		Dual Power supply	24/7/2018
4	16/7/2018-B		Colpitts Oscillator	10/8/2018
5	24/7/2018-B		Adder & subtractor using opamp	27/8/2018
6	2/8/2018-B		Zener regulated Power supply	11/9/2018
7	10/8/2018-B		Single stage Common emitter amplifiers	24/9/2018
8	26/12/2018-E		A stable multivibrator using IC-555	11/1/2019
9	3/1/2019-E		Nand and Nor as universal gate	28/1/2019
10	11/1/2019-E		Monostable multivibrator using IC 555	5/2/2019
11	28/1/2019-E		Differentiator & Integrator	20/2/2019
12	5/2/2019-E		FET characteristics	4/3/2019
13	20/2/2019-E		Wien's bridge oscillator	4/3/2019

Text books :

- 1.
- 2.

Reference books :

1. Electronics - Sanjay sharma New delhi - 11002
2. Electronic principle - Sizethedditr Athent Paul malwa

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment						
Internal Test	02	I st Test Portions First practical	II nd Test Portions last 6 practicals	III rd Test Portions	10/10/2018 7/3/2019	10/10/2018 7/8/2019

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : Mathematics (S.F) Class : UG (II yr) Academic Year : 2018 - 2019 Semester : IV

Title of the Paper : Allied Physics - II

Subject Code : 15UPHA A1

Theory / ~~Practical~~

Name of the Teacher : Dr. K. Amutha

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	10.12.18-A	I	Introduction - Relativity & Wave Mechanics	10/12/18
2	11.12.18-B	I	Frame of reference	11/12/18
3	13.12.18-D	I	Galilean Transformation	13/12/18
4	17.12.18-F	I	Postulates - Lorentz Transformation	17/12/18
5	18.12.18-A	I	De Broglie's theory of Matter Waves	18/12/18
6	19.12.18-B	I	Expression for De Broglie Wavelength	19/12/18
7	21.12.18-D	I	Davison & Germer Experiment	21/12/18
8	27.12.18-F	II	Introduction - Nuclear Physics	27/12/18
9	28.12.18-A	II	Nuclear structure - Properties	28/12/18
10	29.12.18-B	II	Packing fraction - Binding Energy	29/12/18
11	02.1.19-D	II	BE / A curve	2/1/19
12	04.1.19-F	II	Nuclear forces	4/1/19
13	7.1.19-A	II	Nuclear stability	7/1/19
14	8.1.19-B	II	Liquid Drop Model	8/1/19
15	10.1.19-D			

Text books :

- Modern Physics - R. Murugesan & kithirge sirapanth
- Electricity & Magnetism

Reference books :

- Introduction to Integrated Electronics
- Digital & Analog - V. Vijayendran

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	.	Frequency Response	V-I char.	-	18/1/19	4/3/19
Internal Test	3	I st Test Portions 1 1/2	II nd Test Portions 1 1/2	III rd Test Portions 2	29.1.19 2-3.19 8.4.19	29.1.19 2-3.19 8.4.19

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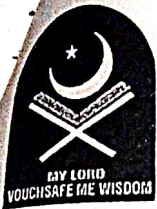
LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
15	10.1.19 - D	III	Introduction - Electricity & Electromag.	10/1/19
16	21.1.19 - F	III	Charge - Current	21/1/19
17	22.1.19 - A	III	Potential Difference	22/1/19
18	23.1.19 - B	III	Resistivity & Resistance	23/1/19
19	25.1.19 - D	III	Ohm's Law	25/1/19
20	28.1.19 - F	III	Kirchoff's Law	29/1/19
21	30.1.19 - A	III	Potentiometer - Principles	30/1/19
22	4.2.19 - D	III	Calibration of Voltmeter	4/2/19
23	6.2.19 - F	III	Capacitance	6/2/19
24	7.2.19 - A	III	Self Inductance	7/2/19
25	8.2.19 - B	III	Self Inductance of Toroidal solenoid	8/2/19
26	11.2.19 - D	III	Determination of Rayleigh Method	11/2/19
27	18.2.19 - F	III	Mutual Inductance betw. Coils	12/2/19
28	14.2.19 - A	III	Determination of Mutual Induction Using B.G	14/2/19
	15.2.19 - B	III		15/2/19
29	19.2.19 - D	IV	Introduction - Basic Electronics	19/2/19
30	21.2.19 - F	IV	Semiconductor Diode	21/2/19
31	22.2.19 - A	IV	Diode characteristics	22/2/19
32	25.2.19 - B	IV	Zener Diode characteristics	25/2/19
33	27.2.19 - D	IV	Regulation with zener diode	27/2/19
34	1.3.19 - F	IV	Bridge Rectifier	1/3/19
35	2.3.19 - A	IV	Biasing of Transistor	2/3/19
36	4.3.19 - B	IV	Re Amplifier	4/3/19
	6.3.19 - D			

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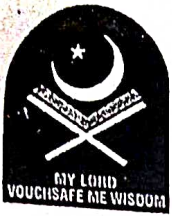
LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
37	6.3.19-D	IV	Introduction - Digital Electronics	6/3/19
38	11/3/19-B	V	Basic Logic Gates	11/3/19
39	13.3.19-D	V	NOR, NAND Gates	13/3/19
40	19.3.19-B	V	EX-OR gate	19/3/19
41	22.3.19-B	V	Boolean equations and	22/3/19
42	29.3.19-B	V	Logic circuit from Truth Table	30/3/19
43	31.3.19-E	V	NOR and NAND gates as ?	1/4/19
44	1.4.19-E	V	Universal building blocks	4/4/19
45	2.4.19-F	V	Binary Adder	2/4/19
46	3-4.19-A	V	Half Adder	3/4/19
47	4.4.19-B	V	Full Adder	4/4/19
	8.4.19-D		Revision - UNIT I	8/4/19
	10.4.19-F		" UNIT-II	10/4/19
	11.4.19-A		UNIT-III	11/4/19
	12.4.19-B		UNIT-IV	12/4/19
	16.4.19-D		UNIT-V	16/4/19

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : Res. Maths (S.F) Class : II year Academic Year : 2018 - 2019 Semester : IV

Title of the Paper : Allied Physics Practical Subject Code : 15UPHAA P

Theory / Practical Name of the Teacher : Dr. K. Annultha

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	29.6.18 18 - E		Demo class - cycle - I	12/6/18
2	27.7.18 18 - E		Demo class - cycle - II	3/7/18
3	13.7.18 - E		Demo class - cycle - III	11/7/18
4	19.7.18 - E		Lee's Disc - I cycle	19/7/18
5	20.7.18 - E		II cycle	30/7/18
6	07.8.18 - E		III cycle	7/8/18
7	16.8.18 - E		IV cycle	16/8/18
8	30.8.18 - E		V cycle	30/8/18
9	7.9.18 - E 28.2.19 - E		VI cycle	7/9/18
10	18.9.18 - E		Repeatability - I	18/9/18
11	27.9.18 - E		Repeatability - II	27/9/18
12	5.10.18 - E		Formula Test	5/10/18
13	15.10.18 - E		Demo class - I	15/10/18
14	25.10.18 - E		Demo class - II	25/10/18
15	14.12.18 - E		Demo class - III	14/12/18

Text books :

1. Manual Prepared by Department of Physics
- 2.

Reference books :

- 1.
- 2.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment			—	—		—
Internal Test		I st Test Portions I st bexp	II nd Test Portions II - bexp	III rd Test Portions —	5.10.18 28.2.18	5.10.18 28.2.18

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