



Sadakathullah Appa College

(AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011.

LESSON PLAN AND RECORD OF CLASSES ENGAGED

Class : II - UG Academic Year : 2017 - 2018 Semester : III

Course : BSc

Title of the Paper : Inorganic Qualitative Analysis

Subject Code : 15UCH24p

Theory / Practical

Name of the Teacher : Dr. M. Ramakrishnan

Sl.No.	Date & Order	Unit	Topics planned	Covered on
			Salt analysis	
1	16/6/17-A		(Micro techniques method) - Introduction	16-6-17
2	30/6/17-A		Apparatus - issue	30/6/17
3	8/7/17-A		Preparation of Stock Solution - Demo	8/7/17
4	15/7/17-A		Short Procedure for experiments	15/7/17
5	24/7/17-A		Salt - Mixture - I	24/7/17
6	31/7/17-A		Continue	31/7/17
7	8/8/17-A		Salt - Mixture - II	8/8/17
8	18/8/17-A		Continue	18/8/17
9	28/8/17-A		Salt Mixture - III	28/8/17
10	7/9/17-A		Continue - 1	7/9/17
11	14/9/17-A		Continue - 2	14/9/17

Text books :

1. Adv. Practical Chemistry - N.K. Vishnoi
2. Vikas Publishing House, 2007, New Delhi

Reference books :

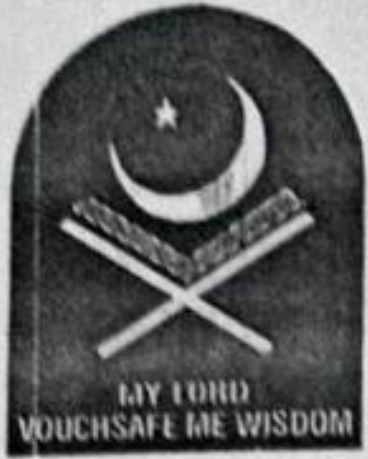
1. Vogel's Qualitative Inorg. Analy., 2009
2. Adv. Phy Chem - M. Ramakrishnan

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	22/9/17 - A		Salt Mixture - IV	22/9/17
13	4/10/17 - A		Continue - 1	4/10/17
14	12/10/17 - A		Continue - 2	12/10/17
15	24/10/17 - A		Internal exam (CIA - P)	24/10/17
16	6/12/17 - A		Apparatus - Review	6/12/17
17	14/12/17 - A		Stock Solution Preparation	14/12/17
18	22/12/17 - A		Short procedure for experiment	22/12/17
19	03/01/18 - A		Salt Mixture - V	03/01/18
20	11/01/18 - A		Continue - 1	11/01/18
21	23/01/18 - A		Continue - 2	23/01/18
22	01/02/18 - A		Salt Mixture - VI	01/02/18
23	09/02/18 - A		Continue - 1	09/02/18
24	12/02/18 - A		Salt Mixture - VII	12/02/18
25	26/02/18 - A		Continue - 2	26/02/18
26	05/03/18 - A		Salt Mixture - VIII	05/03/18
27	12/03/18 - A		Continue - 1	12/03/18
28	20/03/18 - A		Salt Mixture - IX	20/03/18
29	02/04/18 - A		Continue - 1	02/04/18
30	10/04/18 - A		Internal exam (CIA - U)	10/04/18

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Class: I-UG

Academic Year: 2017 - 2018 Semester: II

Course: B.Sc

Title of the Paper: Organic Chemistry

Subject Code: 150CH04

Theory / Practical

Name of the Teacher: Dr. A. SYED MOHAMED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	11/12/17-D	<u>I</u>	Concepts of organic chemistry -	11/12/17
2	12/12/17-E		IUPAC nomenclature of organic compounds	12/12/17
3	19/12/17-D		Contd.	19/12/17
4	20/12/17-E		Bicyclic compounds	20/12/17
5	29/12/17-D		Contd.	29/12/17
6	30/12/17-E		Examples based on IUPAC.	30/12/17
7	8/1/18-D		Inductive effect & their influence on the reactivity/basicity of org. compd.	8/1/18

Text books:

- 1.
- 2.

Reference books:

1. Modern org. chemistry - M.C. Jain S.C. Sharma.
2. Adv. org. ~~chem~~ ^{non} medium - Jenni

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	3	IUPAC	Carbonyl com.	Isomerism	-	-
Internal Test		I st Test Portions	II nd Test Portions	III rd Test Portions	As per the schedule.	
		<u>I</u>	<u>II</u>	<u>III (Ch)</u>		

A. Syed Mo
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M. Kannan
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Sl.No.	Date & Order	Unit	Topics planned	Covered on
8	9/1/18 - E		Electromeric effect & its influence.	9/1/18
9	19/1/18 - D		Mesomeric effect & its influence.	19/1/18
10	20/1/18 - E		Hyper conjugation & its influence.	20/1/18
11	29/1/18 - D		Steric effect & its influence.	29/1/18
12	30/1/18 - E		Question discussion	30/1/18
13	6/2/18 - D	II	Bond fission - Homolytic	6/2/18
14	7/2/18 - E	}	Heterolytic cleavage, Free radicals / nucleophiles.	7/2/18
15	13/2/18 - D		Reaction intermediate - formation, stability & structure of carbocation ions	13/2/18
16	14/2/18 - E	}	Carbanion ions, carbene formation, stability & structure	14/2/18
17	21/2/18 - D			21/2/18
18	22/2/18 - E		Radicals - free radicals.	22/2/18
19	1/3/18 - D		Types of ions -	1/3/18
20	2/3/18 - E		Addition / Substitution	2/3/18

A. Sreedhar
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M. Kamaladevi
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Sl.No.	Date & Order	Unit	Topics planned	Covered on
21	8/3/18 - D		Fluorination	8/3/18
22	9/3/18 - E		Condensation	9/3/18
23	15/3/18 - D		Polymers in nature.	15/3/18
24	16/3/18 - E		Question paper discussion.	16/3/18
25	23/3/18 - D	<u>II</u>	Carbonyl - different types.	23/3/18
26	26/3/18 - F		Keto enol	26/3/18
27	5/4/18 - D		amide imide.	5/4/18
28	6/4/18 - E		ortho - acids.	6/4/18
29	13/4/18 - D		Endo in form of acid	13/4/18
30	20/4/18 - E		form & mechanism reaction	20/4/18

A. Syed M
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M. K. S. S. S.
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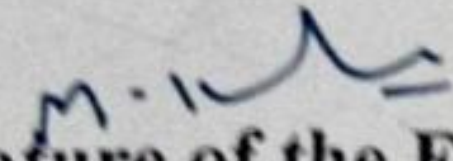
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Rahmath Nagar, Tirunelveli - 627 011
Lesson Plan

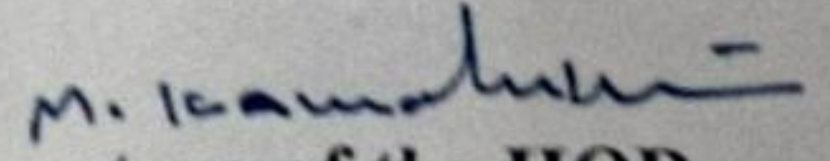
Academic Year 2017-2018 [Even Semester]

Department: UG Department of Chemistry

Class	: I UG
Semester	: II
Name of the Faculty	: Dr. M. Kamalutheen
Title of the Course	: Organic Chemistry I
Subject Code	: 15UCHC21
Text books	: Modern Organic Chemistry - M. K. Jain and S. C. Sharma, 2005, Vishal Publishing Company, Jalandhar.
Reference books	: Advanced Organic Reactions Mechanism - N. Tewari, 2005: Books and Allied (P) LTD, Kolkata.

Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
			III	Active Methylene Compounds & Tautomerism		
1	8/12/17	C		Tautomerism - definition - various types - keto - enol	8/12/17	
2	11/12/17	D		amido - imido and nitro - acinitro tautomerisms	11/12/17	
3	18/12/17	C		evidences in favour of each form and mechanism of inter conversion.	18/12/17	
			IV	Reagents of Synthetic Importance		
1	19/12/17	D		Preparation and synthetic applications of Diazomethane, Lithium aluminium hydride	19/12/17	
2	28/12/17	C		Sodium borohydride	28/12/17	


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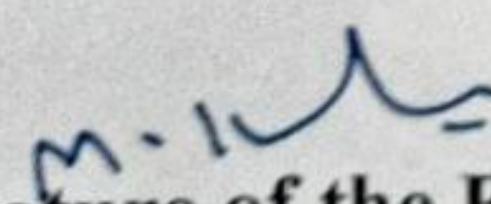

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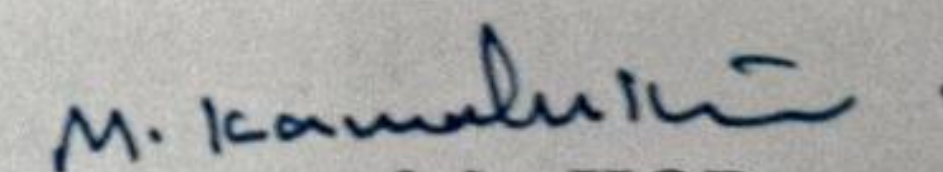
SL No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
3	5/1/18	C	<u>IV</u>	Contd	5/1/18	
4	8/1/18	D		N-bromosuccinimide, Sodamide	8/1/18	
5	18/1/18	C		Contd	18/1/18	
6	19/1/18	D		Selenium dioxide,	19/1/18	
7	25/1/18	C		Contd	25/1/18	
8	29/1/18	D		Per-iodic acid, Osmium tetroxide, Grignard reagent	29/1/18	
9	05/02/18	C		Contd	05/02/18	
10	06/02/18	D		Methyl lithium and Diethylzinc.	06/02/18	
11	12/02/18	C		Contd	12/02/18	
12	13/02/18	D		Revision	13/02/18	
			V	Cycloalkane and Aromaticity		
1	20/02/18	C		Cycloalkane: Nomenclature - General methods of preparations	20/02/18	
2	21/02/18	D		Contd	21/02/18	
3	28/02/18	C		properties - Bayer's strain theory - Sachse	28/02/18	
4	01/03/18	D		Contd	01/03/18	

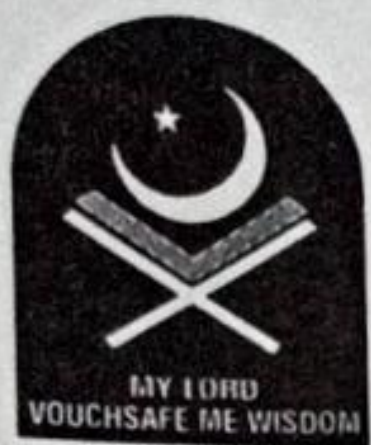
M. K. L.
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Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
5	07/03/18	C	V	Mohr theory - Conformations of cyclohexane.	07/03/18	
6	08/03/18	D	14/3	Contd	08/03/18	
7	14/03/18	C	13/3	Aromaticity: Huckel's rule - example for benzenoid (benzene and naphthalene)	14/03/18	
8	15/03/18	D	22/3	Contd	15/03/18	
9	22/03/18	C	23/3	non - benzenoid compounds (propylium and cyclopropenyl ion)	22/03/18	
10	23/03/18	D		Contd	23/03/18	
11.	04/04/18	C		Aromatic sextet theory based on resonance and MO theory.	04/04/18	
12.	05/04/18	D	14/4	Revision	05/04/18	


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NME

Applied Chemistry

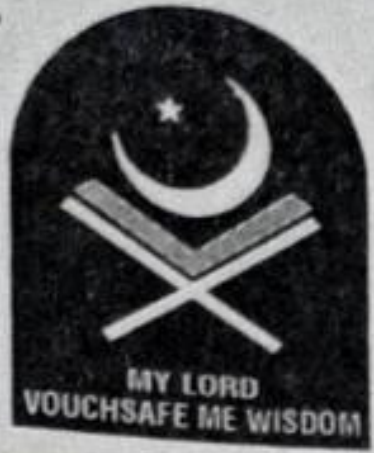
LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	18.12.17 C	I	Introduction. Soap, Detergent	18.12.17
2	28.12.17 C		Soap - Definition, Classification	28.12.17
3	5.1.18 C		Raw materials for manufacture of soap	5.1.18
4	18.1.18 C		Manufacture of Toilet soap	18.1.18
5	25.1.18 C		Detergent - Definition, Introduction	25.1.18
6	5.2.18 C		Types of detergents	5.2.18
7	12.2.18 C		Advantages of detergents over soap	12.2.18
8	20.2.18 C		Cleaning action of soap	20.2.18
9	28.2.18 C		Revision	28.2.18
10	7.3.18 C	II	Fertilizer - Introduction	7.3.18
11	14.3.18 C		Definition, characteristics of good fertilizer	14.3.18
12	22.3.18 C		role of N, P etc in plant growth	22.3.18
13	4.4.18 C		Natural fertilizer	4.4.18
14	12.4.18 C		Chemical fertilizer - Urea	12.4.18
15	18.4.18 C		Muriate of potash, triple super phosphate	18.4.18

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Class : II year

Academic Year : 2017 - 2018 Semester : IV

Course : B.Sc.

Title of the Paper : APPLIED CHEMISTRY (NME)

Subject Code : 15UCHNA1

Theory / Praetical

Name of the Teacher : Dr. P. ANTONY DANISH
Dr. P. JESLEN KANAGA INBA

Sl.No.	Date & Order	Unit	Topics planned	Covered on
		III	Fibres Resins and Plastics.	
1	06.12.2017 A'		Fibres - Classification - uses of Terylene, nylon and orlon	16.12.2017
2	12.12.2017 E'		Resins - Natural resins Synthetic resins - Types	20.12.2017
3	14.12.2017 A'		Uses of ferricol, quikfix, Araldite, Glyphal Bakelite	20.12.2017
4	20.12.2017 E'		Plastics - Classification Differences between thermo-plastics and thermosets	22.12.2017
5	22.12.2017 A'		Advantages of plastics. Uses of Polythene, PVC, Polystyrene	30.12.2017
6	30.12.2017 E'		Teflon and thermocole	03.01.2018

Text books :

Reference books :

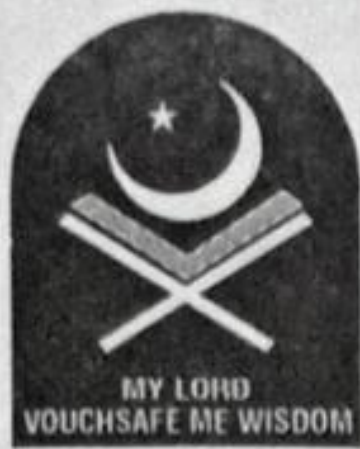
1. Industrial Chemistry - B. K. Sharma 1.
2. Textbook of Pharmaceutical Chemistry - Jayashree Goshw.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment			Plastics		28.02.2018	28.02.2018
Internal Test		I st Test Portions Unit III + Unit I	II nd Test Portions Unit IV + II (V ₂)	III rd Test Portions Unit V + II (V ₂)		

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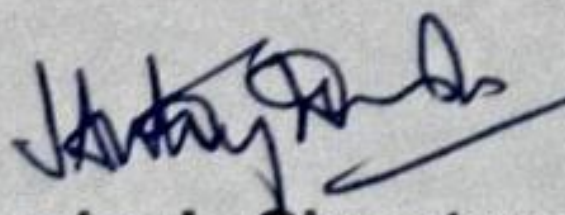
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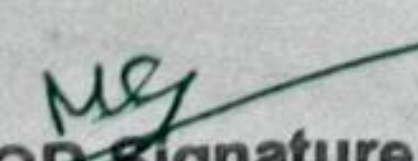
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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
7	03.01.2018 A'		Rubber - Types - Defects in natural rubber	03.01.2018
8	09.01.2018 E'		Vulcanization Synthetic rubbers - Uses of Neoprene Thiocol, Butylrubber	09.01.2018
9	11.01.2018 A'		Silicone rubber & Foam rubber	11.01.2018
		<u>IV</u>	Pharmaceutical Chemistry	
10	20.01.2018 E'		Antiseptics: Alum, Boric acid Hydrogen peroxide	20.01.2018
11	23.01.2018 A'		Antacids: Aluminium hydroxide	23.01.2018
12	30.01.2018 E'		Analgesics: Aspm	30.01.2018
13	01.02.2018 A'		Paracetamol	01.02.2018
14	07.02.2018 E'		Haematinics: Ferrous fumarate	07.02.2018
15	09.02.2018 A'		Ferrous gluconate	09.02.2018
16	14.02.2018 E'		Laxatives: Epsom salt Milk of Magnesia	14.02.2018
17	17.02.2018 A'		Sedatives: Drazepam	17.02.2018
18	22.02.2018 E'		Revision	22.02.2018


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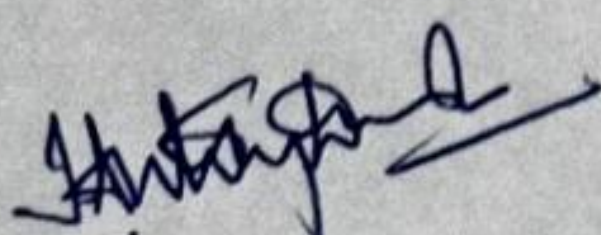
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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
		<u>I.</u>	chemicals in our daytoday life	
			Preparation and uses of :	
19	26.02.2018 A'		Tooth Powder.	26.02.2018
20	02.03.2018 E'		Tooth Paste	02.03.2018
21	05.03.2018 A'		Writing inks.	05.03.2018
			Gum paste	
22	09.03.2018 E'		Boot polish	09.03.2018
23	12.03.2018 A'		Talcum powder	12.03.2018
24	16.03.2018 E'		Chalk Crayons.	16.03.2018
			Agarbattis.	
25	20.03.2018 A'		Moth balls.	20.03.2018
26	26.03.2018 E'		Phenyle	26.03.2018
27	02.04.2018 A'		Resin	
28	06.04.2018 E	<u>II</u>	Mixed fertilizers	06.04.2018
29	10.04.2018 A'		Pro-fertilizers.	10.04.2018
30	20.04.2018 E'		Advantages of Pro-fertilizers	20.04.2018


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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Class : III year Academic Year : 2017 - 2018 Semester : VI
 Course : B.Sc. Chemistry
 Title of the Paper : APPLIED AND ANALYTICAL CHEMISTRY Subject Code : 15UCHE6A
 Theory / Practical Name of the Teacher :

Sl.No.	Date & Order	Unit	Topics planned	Covered on
		<u>III</u>	<u>Industrial Chemistry</u>	
<u>1</u>	<u>07.12.2017 B'</u>		<u>Chemistry of Paper Industry:</u> <u>Raw materials</u>	<u>11.12.2017</u>
			<u>Manufacturing process</u>	
<u>2</u>	<u>11.12.2017 D'</u>		<u>Bleaching and</u> <u>Colouring</u>	<u>19.12.2017</u>
<u>3</u>	<u>13.12.2017 F'</u>		<u>Textile Chemistry</u> <u>Fibers - definition</u> <u>Natural and Synthetic fibers</u> <u>Distrinction</u>	<u>21.12.2017</u>
<u>4</u>	<u>15.12.2017 B'</u>		<u>Manufacture and uses of</u> <u>Rayon</u> <u>Nylon 66</u>	<u>27.12.2017</u>
<u>5</u>	<u>19.12.2017 D'</u>		<u>Dacron</u> <u>Orlon & Teflon</u>	<u>29.12.2017</u>

Text books :

Reference books :

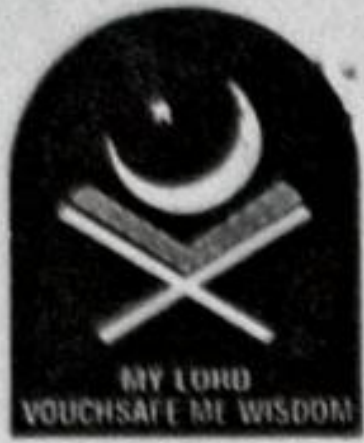
- Industrial Chemistry B.K. Sharma.
- Text book of Pharmaceutical Chemistry Jayashree Ghosh

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
<u>Assignment</u>		<u>Sulpha drugs</u> <u>Arsenic drugs</u>			<u>20.01.2018</u>	<u>20.01.2018</u>
<u>Internal Test</u>		<u>Ist Test Portions</u> <u>III + I (V₂)</u>	<u>IInd Test Portions</u> <u>IV + I (V₂)</u>	<u>IIIrd Test Portions</u> <u>V + II (V₂)</u>		

J. Antony
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Sl.No.	Date & Order	Unit	Topics planned	Covered on
		<u>III</u>	Match Industry:	
6	21.12.2017 'F'		Pyrotechnic and Explosives.	27.12.2017
			Safety Matches	
7	27.12.2017 'B'		Composition of the Match head	27.12.2017
			Composition of fireworks	
8	29.12.2017 'D'		Colored Matches.	29.12.2017
			Explosives: Classifications	
			Primary Explosives	
9	02.01.2018 'F'		Preparation of	02.01.2018
			Lead azide	
			DDNP	
10	04.01.2018 'B'		Tetryl	04.01.2018
			EDNA	
11	08.01.2018 'D'		High Explosives:	08.01.2018
			Preparation of TNT	
			Peric acid	
12	10.01.2018 'F'		Ammonium peroxide	10.01.2018
			GTN	
13	12.01.2018 'B'		PETN	12.01.2018
			Cyclonite	
14	19.01.2018 'D'		Rexon	19.01.2018
15	22.01.2018 'F'		Rexon	22.01.2018

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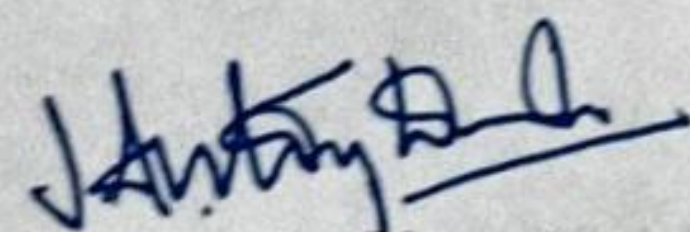
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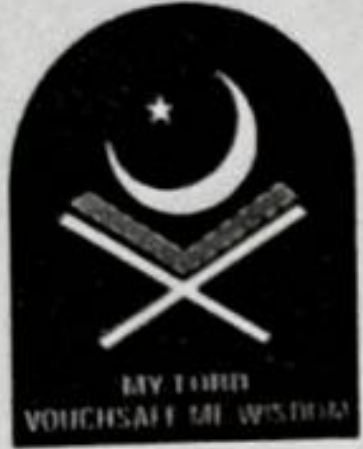
LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
		IV	Pharmaceutical Chemistry Structure and Uses.	
16	24.01.2018 B		Sulpha drugs - Sulphadiazine and prontosil	24.01.2018
17	29.01.2018 D		Antimalarial - Quinine, Quinacrine, Chloroquine amodiaquin	29.01.2018
18	31.01.2018 F		Arsenical drugs - Salvarsan 606, Neosalvarsan	31.01.2018
19	02.02.2018 B		Antibiotics - Penicillin, Tetracycline, Streptomycin Chloromycetin	02.02.2018
20	06.02.2018 D		Anesthetics - General anesthetics - vinyl ether Cyclopropane	06.02.2018
21	08.02.2018 F		Chloroform, halo ethane Trichloro ethylene	08.02.2018
22	10.02.2018 B		Intravenous anesthetics - Thiopentone sodium	10.02.2018
23	13.02.2018 D		Local anesthetics - Cocaine Benzocaine and procaine	13.02.2018
24	15.02.2018 F		Preparation and Uses of: Antacids: Magnesium tri- silicate, Milk of Magnesia	15.02.2018
25	19.02.2018 B		Antifungals: Clotrimazole	19.02.2018


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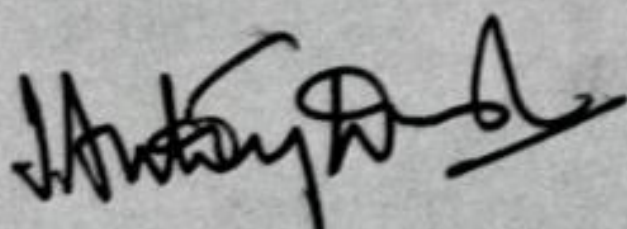
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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
			Naftifine, Tolnaftate	
26	21.02.2018 D		Emetic: Tartaremetic	21.02.2018
			Haematonics - Ferrous gluconate	
27	23.02.2018 F		Analgesic and Antipyretic - Aspirin.	23.02.2018
28	27.02.2018 B		Cancer - Causes & treatment	21.03.2018
29	01.03.2018 D		Revision	03.03.2018
30	03.03.2018 F		Revision	03.03.2018
		IV	Thermo-analytical and Electroanalytical Methods.	
31	06.03.2018 B		Thermo Gravimetric Analysis (TGA) - Principle.	06.03.2018
32	08.03.2018 D		Application in the determination of optimum drying temperature range of the precipitates.	08.03.2018
33	10.03.2018 F		Factors affecting TGA	10.03.2018
34	13.03.2018 B		Differential Thermal Analysis (DTA) - Principle.	13.03.2018
35	15.03.2018 D		Instrumentation.	15.03.2018
36	19.03.2018 F		DTA of Calcium Oxalate monohydrate	19.03.2018


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Sl.No.	Date & Order	Unit	Topics planned	Covered on
37	21.03.2018 B	V	Simultaneous DTA - TGA curves.	21.03.2018
38	23.03.2018 D		Electro-Gravimetric Analysis (EGA) - Theory	23.03.2018
39	27.03.2018 F		Types of EGA	27.03.2018
40	03.04.2018 B		Instrumentation	03.04.2018
41	05.04.2018 D		Applications in the estimation of metal ions in solution	05.04.2018
42	09.04.2018 F		Polarography - principle	09.04.2018
43	11.04.2018 B		Dropping Mercury Electrode (DME).	11.04.2018
44	13.04.2018 D		Review -	13.04.2018
45	21.04.2018 F		Review	21.04.2018

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	12.12.17 E	I	Petroleum - Refining	12.12.17
2	14.12.17 A		Composition & uses of main petroleum fractions	14.12.17
3	20.12.17 E		Cracking - Types	20.12.17
4	22.12.17 A		Types of catalytic cracking	22.12.17
5	30.12.17 E		Advantages of catalytic cracking	3.1.18
6	3.1.18 A		Octane no. - Antiknock agents	3.1.18
7	9.1.18 E		Unleaded petrol - Octane no.	9.1.18
8	11.1.18 A		Anti diesel knock agents, Flash point	11.1.18
9	20.1.18 E		Synthetic petrol - Fischer-Tropsch process	20.1.18
10	23.1.18 A		Petrochemicals - Methanol	23.1.18
11	30.1.18 E		Ethanol -	30.1.18
12	1.2.18 A		Isopropanol, ethylene glycol	1.2.18
13	7.2.18 E		glycerin, acetone	7.2.18
14	9.2.18 A		phenol	9.2.18
15	14.2.18 E		Revision	14.2.18
16	17.2.18 A	II	Plant nutrients - Introduction	17.2.18
17	22.2.18 E		Macro & micro nutrients	22.2.18
18	26.2.18 A		Role of Macro & micro in plant growth	26.2.18
19	2.3.18 E		sources, forms of nutrients	2.3.18
20	5.3.18 A		Deficiency symptoms	5.3.18
21	9.3.18 E		corrective measures	9.3.18
22	12.3.18 A		Fertilizers - Introduction	12.3.18
23	16.3.18 E		Fertilizers - Characteristics	16.3.18
24	20.3.18 A		Natural fertilizers - Manures	20.3.18
25	26.3.18 E		Chemical fertilizer	2.4.18

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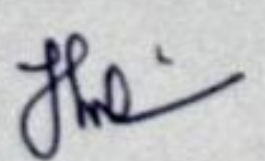
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Sl.No.	Date & Order	Unit	Topics planned	Covered on
26	2.4.18 A		Manufacture & uses of Urea, Triple Super phosphate	6.4.18
27	6.4.18 E		Superphosphate of lime, CAN	10.4.18
28	10.4.18 A		Potassium nitrate	20.4.18
29	20.4.18 E		Mixed fertilizers	26.4.18
30	16.4.18 A		Biofertilizers.	16.4.18


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Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	11/12/17 - A	II	PHOTO CHEMISTRY	14/12/17
			comparison between photochemical and thermal reaction	
2	14/12/17		Beer-Lambert law, SE law, Limitation	14/12/17
3	22/12/17		Grätius Draper law	22/12/17
4	3/1/18		Primary and secondary process	2/2/18
5	11/1/18		Quantum yield - High yield	2/2/18
6	24/1/18		Reasons for low yield	9/2/18
7	2/2/18		Experiments for Defen. for Quantum yield, - Chemical Actinometer	17/2/18
8	9/2/18		Consequences of light absorption	26/2/18
9	17/2/18		Jablonski diagram	26/2/18
10	26/2/18		Fluorescence & Phosphorescence.	5/3/18
11	5/3/18		Kinetics of H_2-Cl_2 and decomposition of HI	20/3/18
12	12/3/18		Energy transfer in PCIT	2/4/18
13	20/3/18		Photo sensitization and quenching	10/4/18
14	2/4/18		Chemil and Bioluminescence	16/4/18
15	10/4/18		Revision	16/4/18

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : B.Sc Class : III B.Sc Academic Year : 2017 - 2018 Semester : VI
 Title of the Paper : Physical chemistry Subject Code : 15UCHC61
 Theory / Practise : -T Name of the Teacher : Dr. A. SYED MOHAMMED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	D/11/12/17	I	Basic concept of chemical kinetics.	11/12/17.
2.	E/12/12/17		order, molecularity, Rate constant, $t_{1/2}$	12/12/17.
3.	D/19/12/17		Second order rxn - same concentration & their rate eqn.	19/12/17
4.	E 20 D/18/12/17		different - second order rxn.	20/12/17.
5.	D 27 D 10/12/17		methods of determining order of a rxn.	27/12/17
6.	E 30/12/17		Problems.	30/12/17
7.	D 8/1/18		Effect of temp. on reaction rates.	8/1/18

Text books :

Reference books :

- Principles of Physical Chemistry - Peri, Sharma, 2004.
- Group theory & its chemical applications - Bhattacharya

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	2	Determining order of rxn				
Internal Test		I st Test Portions Unit I - catalyst	II nd Test Portions I - theory	III rd Test Portions IV - full.		

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
8.	20/1/18 B 9/1/18		Arrhenius equation, Activation energy	9/1/18
9.	D 19/1/18		Energy barrier - effect of catalyst.	19/1/18
10.	E 20/1/18.		Theory of reaction rates - collision theory of bimolecular gaseous reaction	20/1/18
11.	D 29/1/18		derection & demerion	20/1/18
12.	E 30/1/18.		Activated complex theory of bimolecular non derection & demerion.	30/1/18
13.	D 6/2/18		Lindemann theory of unimolecular non	6/2/18
14.	E 7/2/18		Fast reaction - flash photolysis - pulse radiolysis	7/2/18
15.	D 13/2/18.		Revision.	13/2/18
16.	E 14/2/18.	<u>V</u>	Symmetry elements -	14/2/18
17.	D 21/2/18		Symmetry operation	21/2/18

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
18.	22/2/18 E		Definition of E, Identity, proper rotation axis (C_n), mirror plane (σ)	22/2/18
19.	1/3/18 D		Inversion center (i) Rotation-reflection axis (S_n).	1/3/18
20.	2/3/18 E		Symmetry operations generated by these sym. elements using examples like H_2O , NH_3 .	2/3/18
21.	8/3/18 D		BF_3 , $PtCl_4^{2-}$	8/3/18
22.	9/3/18 E		H_2O_2 (planar, cis and trans) Cl_2 .	9/3/18
23.	15/3/18 D		Condition for a set of elements to form a group.	15/3/18
24.	16/3/18 R		Abelian & cyclic groups.	16/3/18

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
25.	23/3/18 D		Group multiplication table.	23/3/18
26.	26/3/18 B		Molecules point groups.	26/3/18
27.	4/4/18 D		Assignment of point groups to simple molecules like H_2O & NH_3	5/4/18
28.	6/4/18 R		Problems.	6/4/18
29.	¹³ 13/4/18 D		Revision	13/4/18
20.	20/4/18 E		Revision.	

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