

Sadakathullah Appa College

(AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011.

LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : CHEMISTRY

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

Title of the Paper : INORGANIC CHEMISTRY - II

Subject Code : IS PCH 21

Theory / Practical : THEORY

Name of the Teacher : N. MOHAMED FAIZEE.

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	12-12-18(C)	I	Substitution Reaction in octahedral	12-12-18
2.	13-12-18(D)	"	SN ¹ , SN ² , SN ¹ CB	13-12-18
3.	17-12-18(F)	"	Labile & inert, Interpretation	17-12-18
4.	18-12-18(A)	"	CFAE	18-12-18
5.	20-12-18(C)	"	Acid & Base Hydrolysis	20-12-18
6.	21-12-18(D)	"	SSubstitution in Tetrahedral	21-12-18
7.	27-12-18(F)	"	trans E2 test,	27-12-18
8.	28-12-18(A)	"	Electron transfer inner sphere	28-12-18
9.	31-12-18(C)	"	outer sphere mechanism	31-12-18
10.	2-1-19(D)	II	L-S coupling, J-J coupling	2-1-19
11.	4-1-19(F)	"	micro state term symbol	4-1-19
12.	7-1-19(A)	"	Orgel diagram d ¹ -d ⁹	7-1-19
13.	9-1-19(C)	"	Selection Rule for electronic spectra	9-1-19
14.	10-1-19(D)	"	Orgel for Tetrahedral	10-1-19
15.	21-1-19(F)	"	TS - Diagram	21-1-19

Text books :

1. INORGANIC CHEMISTRY L. Miessler & Tarr
2. INORGANIC CHEMISTRY, James H. Hargreaves

Reference books :

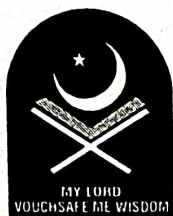
1. Concise of Inorganic chemistry J.D Lee
2. Physical methods in chemistry R.S. Drago.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	3	Substitution Reaction	Polynuclear metal complex	Nuclear fusion Stellar energy		
Internal Test	3	I st Test Portions Coordination IV Electronic Spectra	II nd Test Portions metal Carbonyl	III rd Test Portions Interhalogen compounds.		

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
16.	22-1-19(A)	"	Evaluation of A & B value	22-1-19
17.	24-1-19(C)	"	Charge transfer spectra	24-1-19
18.	25-1-19(D)	"	LMCT, MLCT	25-1-19
19.	29-1-19(F)	III	metal carbonyl preparation	29-1-19
20.	30-1-19(A)	"	properties $Ni(CO)_4$, $Fe(CO)_5$	30-1-19
21.	1-2-19(C)	"	Polynuclear complex: $Fe_3(CO)_{12}$	1-2-19
22.	4-2-19(D)	"	Carbonyl hydride complex	4-2-19
23.	6-2-19(F)	"	Interhalogen fragment	6-2-19
24.	7-2-19(A)	"	Structure prediction of Heteroatom	7-2-19
25.	9-2-19(C)	"	metal Nitrosyl complex	9-2-19
26.	11-2-19(D)	"	Dihydrogen complex	11-2-19
27.	13-2-19(F)	"	metal Alkyl, Carbenes, Carbynes	13-2-19
28.	14-2-19(A)	"	Carbide complex	14-2-19
29.	18-2-19(C)	"	Non-Aromatic Alkene	18-2-19
30.	19-2-19(D)	"	Allyl & pentadienyl complex	19-2-19
31.	21-2-19(F)	"	metallocene, MO diagram	21-2-19
32.	22-2-19(A)	"	Binuclear complex	22-2-19
33.	26-2-19(C)	"	Trinuclear complex	26-2-19
34.	27-2-19(D)	"	polyatomic Zintl ions	27-2-19
35.	1-3-19(F)	IV	Noble gas chemistry - preparation	1-3-19
36.	2-3-19(A)	"	Geometry of Xenon Fluorides	2-3-19
37.	5-3-19(C)	"	Xenon Oxyfluorides	5-3-19
38.	6-3-19(D)	"	Halogens, Oxidation, Basic evidence	6-3-19
39.	9-3-19(A)	"	Pseudohalogens - structure	9-3-19
40.	12-3-19(C)	"	properties & uses	12-3-19

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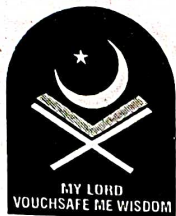
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A. Syed Ali
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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : M.Sc

Class : I - PG

Academic Year : 2018 - 2019 Semester : II

Title of the Paper : Organic Chemistry - II

Subject Code : 18PCEH22

Theory / Practical

Name of the Teacher : Dr. R. Imran Khan.

Sl.No.	Date & Order	Unit	Topics planned	Covered on
		IV	Molecular Rearrangement	
1	11/12/2018		Migration of electron deficient	11/12/18
2	12/12/18		Pinacol - Pinacolone	11/12/18
3	13/12/18		Baeyer Villiger	12/12/18
4	14/12/18		Wittig rearrangement	13/12/18
5	17/12/18		Benzil - Benzilic acid	17/12/18
6	18/12/18		Question discussion	18/12/18
7	19/12/18		Beckmann rearrangement	19/12/18
8	20/12/18		Hofmann rearrangement	20/12/18
9	21/12/18		Schmidt rearrangement	21/12/18
10	26/12/18		Question discussion	26/12/18
11	27/12/18		Electron Deficient Oxygen	27/12/18
12	28/12/18		Favorski rearrangement	28/12/18
13	31/12/18		Sommelet Hauser rearrange-	31/12/18
14	02/01/19		Hofmann - Martius	02/01/19

Text books :

Reference books :

- Fundamentals of Org. Chem - Harries & Wamser
- Organic Chemistry - Paula Yurkanis

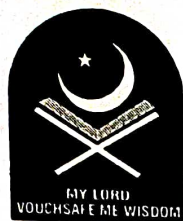
- Fundamental Photochemistry - Mukherjee
- Organic Stereochem - 12 Final

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	2 + 1	Stereo Chemistry	Photo Chemistry	Reaction Mechanism		
Internal Test	3	I st Test Portions Rearrangement Aromaticity	II nd Test Portions Stereochemistry Molecular orbital Mechanism	III rd Test Portions Photochemistry Heterocyclic		

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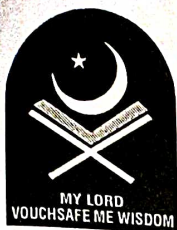
LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
15	03/01/19 ^E		Fischer Rearrangement	03/01/19
16	04/01/19 ^F		Sigmatropic & Cinnel rearrangement	04/01/19
		I	Steeochemistry	
17	07/01/19 ^A		Chirality (& Quenstionum)	07/01/19
18	08/01/19 ^B		Prochirality	08/01/19
19	09/01/19 ^C		Enantiotopic and diastereotopic	09/01/19
20	10/01/19 ^D		Projection formula	10/01/19
21	11/01/19 ^E		Fischer, and wedge	11/01/19
22	12/01/19 ^F		Newmann and Sawhorse.	12/01/19
23	22/01/19 ^A		Notation formula	22/01/19
24	23/01/19 ^B		Continue...	23/01/19
25	24/01/19 ^C		Conformational Analysis	24/01/19
26	25/01/19 ^D		Continue...	25/01/19
27	28/01/19 ^E		Dihedral and angle factors	28/01/19
28	29/01/19 ^F		Conformational Analysis	29/01/19
29	30/01/19 ^A		Continue... ethane,	30/01/19
30	31/01/19 ^B		Continue...	31/01/19
31	01/02/19 ^C		Continue...	01/02/19
32	04/02/19 ^D		Continue...	04/02/19
33	05/02/19 ^E		Continue...	05/02/19
34	06/02/19 ^F		Continue...	06/02/19
35	07/02/19 ^A		1,2-disubstituted cyclohexanes	07/02/19
36	08/02/19 ^B		Continue...	08/02/19
37	09/02/19 ^C		Exam Continued	09/02/19
38	11/02/19 ^D		Question discussion	11/02/19

R. J. Ananthakrishnan
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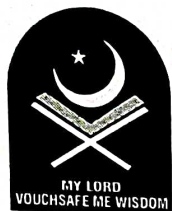
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Sl.No.	Date & Order	Unit	Topics planned	Covered on
39	12/02/19 ^E	11	Name reaction in Organic Chem.	12/02/19
40	13/02/19 ^F		Mechanism & Application	13/02/19
41	14/02/19 ^A		Aldol Condensation	14/02/19
42	15/02/19 ^B		Aldol - Eistert Synthesis	15/02/19
43	18/02/19 ^C		Benzoin Condensation	18/02/19
44	19/02/19 ^D		Bunnett reaction	19/02/19
45	20/02/19 ^E		Mannich reaction	20/02/19
46	21/02/19 ^F		Reformatsky reaction	21/02/19
47	22/02/19 ^A		elementary reduction	22/02/19
48	25/02/19 ^B		Kolbe Schmitt	25/02/19
49	26/02/19 ^C		Schotten Baumann	26/02/19
50	27/02/19 ^D		Friedel Crafts Acylation	27/02/19
51	28/02/19 ^E		Friedel Crafts Alkylation	28/02/19
52	01/03/19 ^F		Green Oxidation	01/03/19
53	02/03/19 ^A		Application of Coupling reaction	02/03/19
54	04/03/19 ^B		Heck reaction	04/03/19
55	05/03/19 ^C		Continue...	05/03/19
56	06/03/19 ^D		Sonogashira Coupling	06/03/19
57	07/03/19 ^E		Continue...	07/03/19
58	08/03/19 ^F		Suzuki reaction	08/03/19
59	09/03/19 ^A		Continue...	09/03/19
60	11/03/19 ^B		Test for this unit	11/03/19
61	12/03/19 ^C		Question Discussion	12/03/19
62	13/03/19 ^D		Doubt clarification	13/03/19
63	14/03/19 ^E		Test for important	14/03/19

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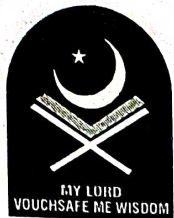
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Sl.No.	Date & Order	Unit	Topics planned	Covered on
64	15/03/19 ^F	IV	Photo Chemistry	15/03/19
65	18/03/19 ^A		Thermal & Photo chemical	18/03/19
66	19/03/19 ^B		Allowed & Forbidden	19/03/19
67	20/03/19 ^C		Jablonski diagram.	20/03/19
68	22/03/19 ^D		Photo Sensitization	22/03/19
69	25/03/19 ^E		Photo Chemistry of ketones	25/03/19
70	26/03/19 ^F		Norrish type - I,	26/03/19
71	27/03/19 ^A		Norrish type - II,	27/03/19
72	28/03/19 ^B		Paterno Buchi reaction	28/03/19
73	29/03/19 ^C		Di-II Methane	29/03/19
74	30/03/19 ^D		Continue -	30/03/19
75	01/04/19 ^E		Photo reduction	01/04/19
76	02/04/19 ^F		Photo chemistry of olefins	02/04/19
77	03/04/19 ^A		Continue -	03/04/19
78	04/04/19 ^B		cis & trans isomerization	04/04/19
79	05/04/19 ^{BC}	III	Heterocyclic chemistry	05/04/19
80	08/04/19 ^D		Oxazole, imidazole	08/04/19
81	09/04/19 ^E		Thiazole, coumarins	09/04/19
82	10/04/19 ^F		Flavones, isoflavones	10/04/19
83	11/04/19 ^A		Cyanin, anthraquinone	11/04/19
84	12/04/19 ^B		Ac - Pyrones	12/04/19
85	15/04/19 ^C		No - Pyrones, chromones	15/04/19
86	18/04/19 ^E		Caffeine, theobromine	18/04/19
87	20/04/19 ^F		theophylline & Quercetin Dinon	20/04/19

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course: M.Sc., Chemistry

Class: I Pcr

Academic Year: 2018 - 2019 Semester: II

Title of the Paper: physical chemistry - II

Subject Code: 18PCC1123

Theory / Practical

Name of the Teacher: Dr. M. A. Babitha

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	10.12.18 ^A	I	Three Component System - Graphical representation of ternary system.	10.12.18
2.	12.12.18 ^C		Formation of one pair, 2 pairs + three pairs of Partially miscible liquids	12.12.18
3.	13.12.18 ^D		System composed of 2 solids and a liquid	13.12.18
4.	17.12.18 ^F		Ternary Solution, hydrate formation	17.12.18
5.	18.12.18 ^A		Compound formation, method of wet residue	18.12.18
6.	20.12.18 ^C		variation of temperature with composition, evolution of a representative Point	20.12.18

Text books :

1. Electrochemistry, Chapman.
2. Physical Chemistry, Atkins.

Reference books :

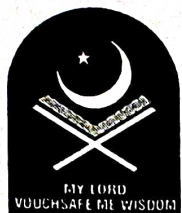
1. Principles of Physical Chem, Puri & Sharma
2. Group theory in Chemistry, Aniprath - an

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	3	Problems in electrochemistry	Determination of ΔG°	Application of colloid		
Internal Test	3	I st Test Portions I, II (1/2)	II nd Test Portions II (1/2), III	III rd Test Portions IV, V		

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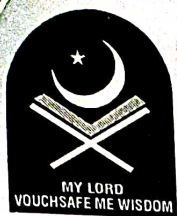
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Sl.No.	Date & Order	Unit	Topics planned	Covered on
7.	21.12.18 D		- contd.	21.12.18
8.	27.12.18 F		Three component system involving solid phase	27.12.18
9.	28.12.18 A		contd.	28.12.18
10.	31.12.18 C		salting out.	31.12.18
11.	2.1.19 D		colloids - origin of charge on colloidal particles	2.1.19
12.	4.1.19 F		- contd	4.1.19
13.	7.1.19 A		electrical double layers theory -	7.1.19
14.	9.1.19 C		contd.	9.1.19
15.	10.1.19 D		contd	10.1.19
16.	21.1.19 F		Applications of colloids	21.1.19
17.	22.1.19 A		Contd	22.1.19
18.	24.1.19 C		Revision.	
		<u>II</u>	Electrochemistry - I	
1.	25.1.19 D		Debye-Huckel theory of strong electrolytes - Derivation & verification.	25.1.19
2.	29.1.19 F		Contd	29.1.19
3.	30.1.19 A		Activity coeffs of electrolytes	
			Activity coefficients.	30.1.19
4.	1.2.19 C		ionic strength, Debye Huckel limiting law derivation & verification	1.2.19
5.	4.2.19 D		contd	4.2.19
6.	6.2.19 F		Determination of solute act.	6.2.19

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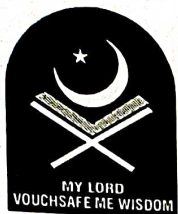
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Sl.No.	Date & Order	Unit	Topics planned	Covered on
			from solvent activities.	
7.	7.2.19 A		Bjerrum's theory of ion association in electrolyte solution.	7.2.19
8.	9.2.19 C		Contd	9.2.19
9.	11.2.19 D		Classified interfaces, thermodynamic treatment	11.2.19
10.	13.2.19 F		Electrical capacitance, Determination of surface excess.	13.2.19
11.	14.2.19 A		Contd	14.2.19
12.	18.2.19 C		Structure of electric field - Helmholtz - Perrin model.	18.2.19
13.	19.2.19 D		Contd	19.2.19
14.	21.2.19 F		Crowy - Chapman diff. model	21.2.19
15.	22.2.19 A		Contd	22.2.19
16.	26.2.19 C		Stern model	26.2.19
17.	27.2.19 D		Contd	27.2.19
18.	1.3.19 F		Revision.	1.3.19
		III	electrochemistry - III	
1.	2.3.19 A		kinetics of electrode reaction	2.3.19
2.	5.3.19 C		Contd	5.3.19
3.	6.3.19 D		Butler - volmer equation	6.3.19
4.	8.3.19 F		Contd.	8.3.19

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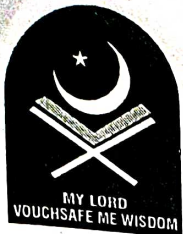
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Sl.No.	Date & Order	Unit	Topics planned	Covered on
5.	9.3.19 A		Nernst eqn, Diffusion over potential.	9.3.19
6.	12.3.19 C		Contd	12.3.19
7.	13.3.19 D		Irreversible electrode process	13.3.19
8.	15.3.19 F		Overvoltage	15.3.19
9.	18.3.19 A		Applications	18.3.19
10.	20.3.19 C		Contd	20.3.19
11.	22.3.19 D		Electro deposition, ^{amperometry} Polarography	22.3.19
12.	30.3.19 D		Contd	30.3.19
13.	2.4.19 P		Concentration potential, DME assembly.	2.4.19
14.	2.4.19 A		Advantages	2.4.19
15.	2.4.19 C		Contd	2.4.19
16.	3.4.19 D		Dikovic eqn, Derivation, half wave potential	3.4.19
17.	05.4.19 F		Amperometric & coulometric titn.	05.4.19
18.	08.4.19 A		Revision.	08.4.19
		IV	Group theory I	
1.	11.4.19 C		Group theory, Symmetry elements	11.4.19
2.	14.4.19 D		Symmetry operations, point group	11.4.19
3.	15.4.19 F		Point groups - C_p , C_{2v} , C_{3v}	15.4.19
4.			C_{2h} , D_2 , D_6 , D_{2d} , D_{3h}	

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : M.Sc., Chemistry

Class : IPC

Academic Year : 2018 - 2019 Semester : II

Title of the Paper : Physical Chemistry II

Subject Code : 18PCC-H23

Theory / Practical

Name of the Teacher : Dr. M. A. Sabitha

Sl.No.	Date & Order	Unit	Topics planned	Covered on
5.	15.4.19F		Contd	15.4.19
6.	15.4.19F		Determination of pt gps, Representation of molecular Point gps.	
7.	15.4.19F		Contd	15.4.19
8.	15.4.19F		Reducible & irreducible representations.	
9.			Contd	15.4.19
10.	20.4.19A		Great Orthogonality theorem (GOT)	
11.			-Contd	
12.	20.4.19A		Use of GOT to construct Character tables.	20.4.19
13.	22.4.19A		Character tables for Point gps	

Text books :

1.

2.

Reference books :

1.

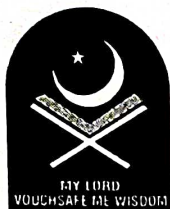
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Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment						
Internal Test		I st Test Portions	II nd Test Portions	III rd Test Portions		

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
14	"		Cor, C3V	
15	"		amcd	
16			C2h, D3h	
17	"		amcd	
18			Revision	22.4.19
		II	Concepts of II	
1.	22.4.19		Reducible representation	
			into its irreducible representation	
2.	"		Rules for determining the irreducible representation	
3.	"		Vibrational modes, Normal modes of vibration of polyatomic molecules.	
4.			amcd	
5.	"		1/20, 10H3	
6.			BF3	
7.			Direct product of irreducible representation.	
8.	"		Selection rule for $n-\pi^*$ $\pi-\pi^*$ transition in HCHO	
9.			amcd	
10.			Construction of hybrid orbitals	
11.	"		CH4, $[PtCl_4]^{2-}$	
12.			amcd	22.4.19

M.A. Suman
Teacher's Signature

A. Sreedhar
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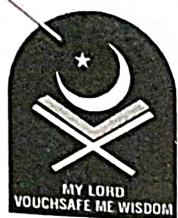
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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : M.Sc; Chemistry.

Class : II P_B

Academic Year : 2018 - 2019 Semester : IV

Title of the Paper : Physical Chemistry IV

Subject Code : 15PCHC42

Theory / Practical

Name of the Teacher : Dr. M. A. Sabitha.

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	10.12.18 ^A	I	Quantum chemistry IV General Time independent perturbation theory.	10.12.18
2.	12.12.18 ^C		contd	12.12.18
3.	12.12.18 ^C		Applications to hydrogen & He atoms.	12.12.18
4.	14.12.18 ^E		contd	14.12.18
5.	17.12.18 ^F		Variation theorem	17.12.18
6.	18.12.18 ^A		contd	18.12.18
7.	20.12.18 ^C		Application to hydrogen atoms	20.12.18
8.	20.12.18 ^C		contd	20.12.18
9.	26.12.18 ^E		Helium atoms.	26.12.18
10.	27.12.18 ^F		Time dependent perturbation theory.	27.12.18

Text books :

Reference books :

1. Principles of physical chemistry,
Puri & Sharma.

1. Quantum chemistry, Donald
A. McQuarrie

2. Introductory Quantum chemistry,
A. K. Chandra.

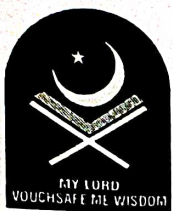
2. Molecular Quantum chem, Levine.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment		Problem in quantum mechanics	Problem in electromagnetism	Ion Pumps		
Internal Test		I st Test Portions I II (1/2)	II nd Test Portions II (1/2) III	III rd Test Portions IV, V (1/2)		

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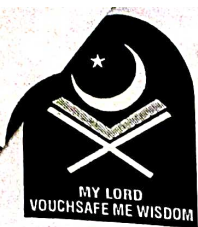
LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
11.	28.12.18 ^A		Born-oppenheimer approx.	
			MO theory.	28.12.18
12.	31.12.18 ^C		LCAO Approximation.	31.12.18
13.	31.12.18 ^C		MO method for H_2^+ & H_2	31.12.18
14.	3.1.19 ^A		VB treatment of H_2 molecule	
15.			Excited state of H_2 molecule.	
			Comparison.	3.1.19
15.			Revision.	
		II	Quantum Chemistry II	
1.	7.1.19 ^A		Hybridization.	7.1.19
2.	9.1.19 ^A		Solving wave function for sp , sp^2 , sp^3 hybrid orbitals	9.1.19
3.	9.1.19 ^C		contd.	9.1.19
4.	9.1.19 ^E		HMO theory for linear conjugated system	9.1.19
5.	11.1.19 ^E		HMO theory of ethylene	11.1.19
6.	21.1.19 ^F		contd	21.1.19
7.	22.1.19 ^A		Butadiene	22.1.19
8.	24.1.19 ^C		Benzene	24.1.19
9.	24.1.19 ^C		Contd.	24.1.19
10.	28.1.19 ^E		Calculation of bond order & charge density	28.1.19
			calculation.	
11.	29.1.19 ^F		Contd	29.1.19
12.	30.1.19 ^A		Self-consistent field approx.	30.1.19

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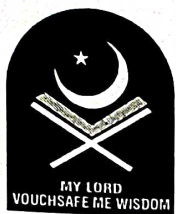
LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
13.	1.2.19C		Hartree's theory.	1.2.19.
14.	1.2.19C		Hartree-Fock & CF theory, Koopman's theorem	1.2.19.
15.	5.2.19E		Revision.	
		III	Quantum chemistry VI	
1.	6.2.19F		Semi-empirical. SCF theory	6.2.19
2.	07.2.19A		Contd	7.2.19
3.	9.2.19A		Basis sets	9.2.19.
4.	9.2.19C		contd	9.2.19
5.	12.2.19E		Slater type orbitals 4	12.2.19
			Gaussian type orbitals	
6.	13.2.19F		Contd	13.2.19F
7.	14.2.19A		classification of basis sets	14.2.19A
8.	18.2.19C		contd	18.2.19
9.	18.2.19C		800-36, 3-21G	18.2.1.19
10.	20.2.19E		Contd	20.2.19
11.	21.2.19F		3-21+G & 6-31G*	21.2.19
12.	22.2.19A		Contd.	22.2.19
13.	26.2.19A		Ab initio methods	26.2.19
14.	26.2.19C		Contd	26.2.19
15.	26.2.19C		Revision.	26
		IV	Applied Electrochemistry II	
1.	28.2.19C		EMF, electrochem. series & Significance.	28.2.19

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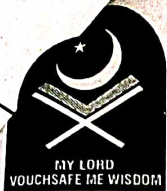
LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
2.	1.3.19F		Reversible cells, representation	1.3.19
3.	2.3.19A		reaction for metal-metal ion, gas-ion.	2.3.19
4.	5.3.19C		metal - sparingly soluble salt.	5.3.19
5.	5.3.19C		Redox electrodes	5.3.19
6.	7.3.19E		Std cell - Weston cell.	7.3.19
7.	8.3.19F		Thermodynamics of reversible / irreversible cell	8.3.19
8.	9.3.19A		Calculation of ΔH , ΔG , ΔS	9.3.19
			& eqm const of cell reaction	
9.	12.3.19C		Nernst eqn, Conc. cells.	12.3.19
10.	12.3.19C		Expression for EMF of electrolyte conc. cells with w.o transference	12.3.19
11.	14.3.19E		Liquid junction potential	14.3.19
12.	15.3.19F		Application of GMF measurements	15.3.19
13.	18.3.19A		Determination of solubility prod.	18.3.19
14.	20.3.19B		Determination of pH using quinhydrone, hydrogen gas electrode, Potentiometric titr - acid-base, Oxidation & precipitation titr, corrosion theory & prevention.	20.3.19
15.	20.3.19C		Revision.	20.3.19

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : M.Sc., Chemistry

Class : II Pn

Academic Year : 2018 - 2019 Semester : IV

Title of the Paper : Physical chemistry IV

Subject Code : 15PCHE42

Theory / Practical

Name of the Teacher : Dr. M. A. Sabitha.

Sl.No.	Date & Order	Unit	Topics planned	Covered on
		V	Biophysical chemistry	
1.	25.3.19		Thermodynamics in biology, energy flux.	25.3.19
2.	29.3.19		Transfer of potential & coupled reactions, role of singlet oxygen in biology	29.3.19
3.	29.3.19		contd	29.3.19
4.	1.4.19		General principles of function & organization in bioenergetics	1.4.19
			Fundamental reactions.	
5.	2.4.19		contd	2.4.19
6.	3.4.19		St. of membrane	3.4.19
7.	5.4.19		Solute transport across membrane	5.4.19
8.	5.4.19		membrane Potentials	5.4.19

Text books :

Reference books :

1.

1.

2.

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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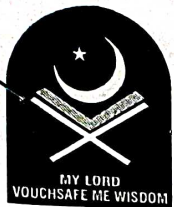
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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : M.Sc. Chemistry

Class : II, - PG

Academic Year : 2018 - 2019 Semester IV

Title of the Paper : Medicinal Chemistry

Subject Code : 15PCH44

Theory / Practical

Name of the Teacher : Dr. R. Imram Khan

Sl.No.	Date & Order	Unit	Topics planned	Covered on
01	11/12/2018 ^B	III,	Antibiotics	11/12/18
02	12/12/18 ^C		Classification & application	12/12/18
03	13/12/18 ^D		β -lactam Antibiotics	13/12/18
04	14/12/18 ^E		Penicillin (Structure)	14/12/18
05	17/12/18 ^F		Penicillin Elucidation	17/12/18
06	18/12/18 ^A		Aminoglycosides	18/12/18
07	19/12/18 ^B		Streptomycin	19/12/18
08	20/12/18 ^C		Neomycin	20/12/18
09	21/12/18 ^D		Kanamycin	21/12/18
10	26/12/18 ^E		Applications & uses.	26/12/18
11	27/12/18 ^F		Synthesis of Chloramphenicol	27/12/18
12	28/12/18 ^A		Elucidation of Chloramphenicol	28/12/18
13	31/12/18 ^C		Tetracyclines features	31/12/18
14	02/01/19 ^D		Nomenclature & General...	02/01/19
15	03/01/19 ^E		Newer Tetracyclines.	03/01/19

Text books :

Reference books :

- Organic Chemistry I.I. Finar
- Chemistry of organic drugs, V. Vaidyanathan.

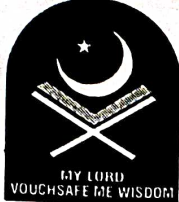
- The organic Chemistry of Drug
- and Drug Action, R.B. Silverman.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	2+1	Drugs	Paracetamol	Nomenclature of Drugs.		
Internal Test	3	I st Test Portions unit - I	II nd Test Portions unit - II	III rd Test Portions unit - III		

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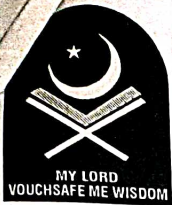
Sl.No.	Date & Order	Unit	Topics planned	Covered on
16	03/01/19 ^E	IV	Antimycobacterial Drugs.	03/01/19
17	04/01/19 ^F		Classification of Drugs.	04/01/19
18	07/01/19 ^A		Continue...	07/01/19
19	08/01/19 ^B		Continue...	08/01/19
20	09/01/19 ^C		Continue...	09/01/19
21	10/01/19 ^D		First line drugs.	10/01/19
22	11/01/19 ^E		Continue...	11/01/19
23	21/01/19 ^F		Pyrazinamide	21/01/19
24	22/01/19 ^A		Continue...	22/01/19
25	23/01/19 ^B		Applications	23/01/19
26	24/01/19 ^C		Second line drugs.	24/01/19
27	31/01/19 ^B		Continue...	31/01/19
28	01/02/19 ^C		Applications...	01/02/19
29	04/02/19 ^D		Synthesis & Mechanism	04/02/19
30	05/02/19 ^E		Oflaxacin	05/02/19
31	06/02/19 ^F		Continue...	06/02/19
32	07/02/19 ^A		Action of oflaxacin	07/02/19
33	08/02/19 ^B		Continue...	08/02/19
34	09/02/19 ^C		Action of ciprofloxacin	09/02/19
35	14/02/19 ^A		Continue...	14/02/19
36	19/02/19 ^D		Continue...	19/02/19
37	21/02/19	III		
38	22/02/19 ^A	IV	Cardiovascular Drugs.	22/02/19
39	25/02/19 ^B		Drugs Classification	25/02/19
40	26/02/19 ^C		Continue...	26/02/19

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
41	27/02/19 ^D		Classification of drugs.	27/02/19
42	28/02/19 ^F		Continue ---	28/02/19
43	01/03/19 ^F		Structure of Digoxin	29/02/19
44	02/03/19 ^A		Mechanism of Digoxin	02/03/19
45	04/03/19 ^B		Action of Digoxin	04/03/19
46	05/03/19 ^C		Continue ---	05/03/19
47	06/03/19 ^D		Question Discussion	06/03/19
48	07/03/19 ^F		Test for some Unit.	07/03/19
49	08/03/19 ^F		Vasopressor drugs.	08/03/19
50	09/03/19 ^A		Continue ---	09/03/19
51	11/03/19 ^B		Continue ---	11/03/19
52	12/03/19 ^C		Structure of Prenalmine	12/03/19
53	13/03/19 ^D		Synthesis of Prenalmine	13/03/19
54	14/03/19 ^E		Mode action of Prenalmine	14/03/19
55	15/03/19 ^F		Continue ---	15/03/19
56	18/03/19 ^A		Continue ---	18/03/19
57	19/03/19 ^B		Question discussion.	19/03/19
58	20/03/19 ^C			
59	22/03/19 ^D	1,	Introduction	22/03/19
60	25/03/19 ^E		Drugs	23/03/19
61	26/03/19 ^F		Definition of ideal drug	26/03/19
62	27/03/19 ^A		Requirements of " "	27/03/19
63	28/03/19 ^B		Source of historical evolution	28/03/19
64	29/03/19 ^C		Nomenclature of drugs.	29/03/19
65				

A. Immanuel
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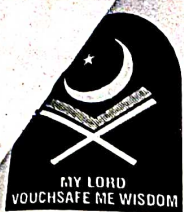
Sl.No.	Date & Order	Unit	Topics planned	Covered on
66	30/03/19 ^D		Heterocyclic, Non-steroid	30/03/19
67	01/04/19 ^E		Chirality of drugs.	01/04/19
68	02/04/19 ^F		Terminology & description	02/04/19
69	03/04/19 ^A		Pharmacology	03/04/19
70	04/04/19 ^B		Pharmacokinetics	04/04/19
71	05/04/19 ^C		Pharmacodynamics & Metabolites	05/04/19
72	08/04/19 ^D		Antimetabolites & Pharmacophore.	08/04/19
73	09/04/19 ^E		Chemical Structure Therapeutic.	09/04/19
74	10/04/19			10/04/19
75	11/04/19			11/04/19
76	12/04/19			12/04/19
77	13/04/19			13/04/19
78	14/04/19			14/04/19
79	15/04/19			15/04/19
80	16/04/19			16/04/19
81	17/04/19			17/04/19
82	18/04/19			18/04/19
83	19/04/19			19/04/19
84	20/04/19			20/04/19
85	21/04/19			21/04/19
86	22/04/19			22/04/19
87	23/04/19			23/04/19
88	24/04/19			24/04/19
89	25/04/19			25/04/19
90	26/04/19			26/04/19
91	27/04/19			27/04/19
92	28/04/19			28/04/19
93	29/04/19			29/04/19
94	30/04/19			30/04/19

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : CHEMISTRY

Class : Ist M.Sc Academic Year : 2018 - 2019 Semester : IV

Title of the Paper : MEDICINAL CHEMISTRY

Subject Code : 15PCH4A

Theory / Practical : THEORY

Name of the Teacher : N. MOHAMED FARZEE.

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	13-12-18 (D)	V	Economic Aspects of Drug Designing	13-12-18
2.	21-12-18 (D)	"	Procedures Followed	21-12-18
3.	2-1-19 (D)	"	Drug Design Procedure	2-1-19
4.	10-1-19 (D)	"	Lead Based method	10-1-19 13-12-18
5.	25-1-19 (D)	"	Approaches to Lead Discovery	25-1-19
6.	4-2-19 (D)	"	Drug discovery without lead	4-2-19
7.	11-2-19 (D)	"	De-novo drug design	11-2-19
8.	19-2-19 (D)	"	QSAR	20-2-19 19-2-19
9.	27-2-19 (D)	"	QSAR	27-2-19
10.	6-3-19 (D)	"	Hansch Analysis	6-3-19
11.	13-3-19 (D)	"	Hansch's Taft Equation	13-3-19
12.	30-3-19 (D)	"	Correlation of Drug by Lead	30-3-19

Text books :

Reference books :

1. MEDICINAL CHEMISTRY, ASHUTOSH KAR,

1. An Introduction to medicinal chemistry
G. Patrick

2. ORGANIC CHEMISTRY DRUG DESIGN, SILVERMAN

2. Monographs in medicinal chemistry.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	1	Structure Activity Relation				
Internal Test	1	I st Test Portions	II nd Test Portions	III rd Test Portions SAR & QSAR		

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LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : CHEMISTRY

Class : IInd MISC

Academic Year : 2018 - 2019 Semester : IV

Title of the Paper : ORGANIC CHEMISTRY - IV

Subject Code : 15PCHC41

Theory / Practical : THEORY

Name of the Teacher : N. MUHAMMED FAIZEE.

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1.	12-12-18 (C)	I	IUPAC, classification	12-12-18
2.	17-12-18 (F)	"	Structural elucidation of cholesterol	17-12-18
3.	20-12-18 (C)	"	Synthesis of Progesterone, Testosterone	20-12-18
4.	27-12-18 (F)	"	Synthesis of Steroids, oestrogen, spullin.	27-12-18
5.	31-12-18 (C)	"	Progesterone, Bile Acid	31-12-18
6.	4-1-19 (F)	"	Prostaglandins	4-1-19
7.	9-1-19 (C)	"	Synthesis of PG E, PG F,	9-1-19
8.	21-1-19 (F)	III	Protection of -OH, -NH ₂	21-1-19
9.	24-1-19 (C)	"	Carbonyl, Carboxylic Acid	24-1-19
10.	29-1-19 (F)	"	Deprotection, control of stereochemistry.	29-1-19
11.	1-2-19 (C)	"	Disconnection Approach	1-2-19
12.	6-2-19 (F)	"	FGI, in Amino group.	6-2-19
13.	9-2-19 (C)	"	one group C-X & two group C-X	9-2-19
14.	13-2-19 (F)	"	Chemoselectivity	13-2-19
15.	18-2-19 (C)	"	Removal of polarity.	18-2-19

Text books :

Reference books :

1. Chemistry of Natural Products, N. S. Bhakumori
1. Natural Products V-II, Gourdeep Chaturvedi
2. Work of organic synthesis, Stuart Warren
2. Disconnection Approach, Stuart Warren.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	2	Structural elucidation	Synthesis of vitamin			
Internal Test	3	I st Test Portions Steroids	II nd Test Portions Disconnection Approach	III rd Test Portions Vitamins		

Ist unit

IIIrd unit
IVth unit

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