

Class : B.Sc. (Hons) Chemistry IVth Semester Subject: Mathematics-IV

Name of the Faculty :Mr. Ajay Singh					
Week	Lecture	Date	Topics		
1	7	16/01/20 to	Solution of Algebraic and Transcendental equations: Bisection method,		
		24/01/20	Regula-Falsi method, Newton-Raphson's method.		
2	5	27/01/20 to 31/01/20	Numerical Integration: Trapezoidal rule,		
3	5	03/02/20 to 07/02/20	Simpson's one-third and three-eighth rule,		
4	5	10/02/20 to 14/02/20	Gauss Quadrature formula Concepts in Probability		
5	5	17/02/20 to 21/02/20	Random experiment, trial, exhaustive, equally likely and independent events		
6		<u> </u>	1st Class Test		
7	5	24/02/20 to 28/02/20	Definition of probability- classical , relative frequency, statistical and axiomatic approach,		
8	5	02/03/20 to 06/03/20	Addition and multiplication laws of probability.Baye'stheorem		
9	5	09/03/20 to 13/03/20	Correlation for Bivariate Data: Concept and types of correlation, Scatter diagram,		
10			2nd Class Test		
11	5	16/03/20 to 20/03/20	Karl Pearson Coefficients(r) of correlation and rank correlation coefficient		
12	5	23/03/20 to 27/03/20	Linear Regression: Concept of regression, two lines of regression		
13	5	06/04/20 to 10/04/20	Properties of regression coefficients. Difference between correlation and regression.		
14	5	30/03/20 to 03/04/20	Test of significance:t-test for single mean,Chi-square test		
15	5	13/04/20 to 17/04/20	ANOVA for one way and two way classified data		
16		+	Final Sessional Test		



Lesson Plan

2019-20 (Even Semester)

Class and Section: B.Sc. Hons. Chem. 4th Sem

Subject: Genomics (Zoology)
Name of the Faculty: Vishnu Saini

Week	Lecture	Date	Topics
1	2	16/01/20 to	Basics of genomics
1	5	24/01/20	Elementary idea of gene mapping in bacteria
2	5	27/01/20 to 31/01/20	Transposons
3	3	03/02/20 to	Transposition mechanism
<i>J</i>	2	07/02/20	Basics of mutation
4	3	10/02/20 to	Types of mutations
	2	14/02/20	Nomenclature of mutation
5	3	17/02/20 to	Mutagenesis
J	2	21/02/20	DNA Repair
6	17/02/20 t	o 21/02/20	1st Class Test
7	3	24/02/20 to	Types of DNA Repair
,	2	28/02/20	DNA Repair pathways
8	2	02/03/20 to 06/03/20	Error-Prone repair
	3		Mutagenesis in DNA Repair
9	2	09/03/20 to	Gene families
	3	13/03/20	Multi gene families, Repititive DNA
10	3	16/03/20 to	Comparative genomics
10	2	20/03/20	Overview of prokaryotic and eukaryotic genomes
11	3	23/03/20 to	Conserved Domains
11	2	27/03/20	The genome project
12	23/03/20 t	o 27/03/20	2nd Class Test
13	3	30/03/20 to	Human Genome Project
	2	03/04/20	Organization and goal of HGP
14	3	06/04/20 to	Mapping staratgies
11	2	10/04/20	Mitochondrial genome
15	5	13/04/20 to 17/04/20	Revision



Lesson Plan

2019-20 (Even Semester)

Class and Section: B.Sc. Hons. Chem. 2nd Sem

Subject: Plant Physiology and metabolism
Name of the Faculty: Yash Gaur

Name of the Faculty: Yash Gaur					
Week	Lecture	Date	Topics		
1	2	16/01/20 to	Basics of Plant physiology		
1	5	24/01/20	Osmosis, Diffusion, Imbibition, Water potential		
2	5	27/01/20 to 31/01/20	Soil plant atmosphere, symplast apoplast, ascent of sap		
3	3	03/02/20 to	Transpiration and antitranspirants, opening closing stomata		
3	2	07/02/20	Mineral nutrition and translocation of food		
4	3	10/02/20 to	Photosynthesis- pigments, photosystems, phosphorylation		
-	2	14/02/20	C3 cycle- Calvin cycle		
5	3	17/02/20 to	C4 and CAM plants cycle, factors affecting PS		
3	2	21/02/20	Glycolysis, TCA cycle		
6	17/02/20 t	o 21/02/20	1st Class Test		
7	3	24/02/20 to	ETC, oxidative phosphorylation, carbohydrates		
,	2	28/02/20	Sucrose, starch, cellulose		
8	2	02/03/20 to	Biological nitrogen fixation		
0	3	06/03/20	Structure and function of lipids, beta oxidation		
9	2	09/03/20 to	Triglycerol and streoids		
,	3	13/03/20	Synthesis and breakdown		
10	3	16/03/20 to	Nitrogen cycle, formation of glycerides		
10	2	20/03/20	Significance of fatty acids		
11	3	23/03/20 to	Physiology of flowering		
11	2	27/03/20	Role of light in flowering		
12	23/03/20 t	o 27/03/20	2nd Class Test		
13	3	30/03/20 to	photoperiodism, inductive and non-inductive cycles		
	2	03/04/20	Florigen concept, nature of stimulus		
14	3	06/04/20 to	Vernalization, auxin, gibberelin		
17	2	10/04/20	ABA, Cytokinin, Ethylene		
15	5	13/04/20 to 17/04/20	Revision		



Lesson Plan

2020-21 (Even Semester)

Class and Section: Bsc(Hons.) Chem. Second sem

Subject: Zoology
Name of the Faculty: Devender kumar

		Devender kum	
Week	Lecture	Date	Topics
1	7	16/01/20 to 24/01/20	Introduction to Chordates and their origin
2	5	27/01/20 to 31/01/20	Protochordates - general features and phylogeny of hemichordates
3	5	03/02/20 to 07/02/20	Urochordates and Cephalochordates
4	5	10/02/20 to 14/02/20	Retrogressive Metamorphosis
5	5	17/02/20 to 21/02/20	General features of living Agnatha
6			1st Class Test
7	5	24/02/20 to 28/02/20	Pisces - osmoregulation
8	5	02/03/20 to 06/03/20	Migration and parental care
9	5	09/03/20 to 13/03/20	Amphibia -origin and evolution.
10			2nd Class Test
11	5	16/03/20 to 20/03/20	Terrestrial ectotherms and parental care
12	5	23/03/20 to 27/03/20	Reptiles -origin,Poisonous and Non-poisonous snakes

13	5	06/04/20 to 10/04/20	Biting mechanism of snakes
14	5	30/03/20 to 03/04/20	Affinities of order Sphenodon
15	5	13/04/20 to 17/04/20	Avs-origin,mechanism of flight and Migration, Mammmals (origin,evolution of human)
16			Final Sessional Test



Lesson Plan

2019-20 (Even Semester)

Class and Section: B.Sc. Hons. Chem. 4th Sem

Subject: Economic Botany
Name of the Faculty : D.R. Rharadwai

Name of th	Name of the Faculty :D R Bharadwaj					
Week	Lecture	Date	Topics			
1	2	16/01/20 to	Concept of Cultivated & Wild Plants, Land marks in economic			
1	5	24/01/20	botany, Utilization of plants			
2	5	27/01/20 to 31/01/20	Center of origin of cultivation of plants, Different types of works on centers of origin, Importance of centers of origin			
3	5	03/02/20 to 07/02/20	Vavilove's contribution, De Candolle's contribution, Plant introductions			
4	5	10/02/20 to 14/02/20	Examples of major introductions, Domestication of crop plants, Genetic diversity in plants			
5	5	17/02/20 to 21/02/20	Loss of Genetic diversity, Evolution of crops, Evolution of new varieties using different techniques			
6	17/02/20 t	o 21/02/20	1st Class Test			
7	5	24/02/20 to 28/02/20	Concepts of weeds, Uses of weeds for human welfare, Germplasm diversity, Importance of weeds in germplasm diversity			
8	5	02/03/20 to 06/03/20	Cultivation & economic importance of wheat, Rice, Potato, Tomato & Chilli			
9	5	09/03/20 to 13/03/20	Common Adulterants of spices, Processing & Adulterants of Tea & Coffee			
10	5	16/03/20 to 20/03/20	Role of ethanobotany in conservation of indigenous plant wealth,drug discovery, Intellectual Property Rights and issues			
11	5	23/03/20 to 27/03/20	Legumes : General account Importance of legumes to man & Ecosystem,Importance of Pulses grown in India			
12	23/03/20 t	o 27/03/20	2nd Class Test			
13	3	30/03/20 to 03/04/20	Spices grown in India & their uses : Black pepper & Turmeric, Fennel & Clove & saffron			
14	3	06/04/20 to 10/04/20	Distribution, description & uses of Aloe, Azadirachta, Commifora			
15	5	13/04/20 to 17/04/20	Distribution, description & uses of Emblica, Rauwolfia, Withani & Andrographis			
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Lesson Plan
2019-20 (Even Semester)

Class and Section: B.Sc. (H.C.) 4th Sem I.O.C.

Subject: Inorganic Chemistry

Name of the Faculty : MR. AMIT KUMAR

Name of th	e Faculty : M	R. AMIT KU	
Week	Lecture	Date	Topics
	1	17-Jan-20	introduction to the syllabus
	2	17-Jan-20	Chemistry of Lanthanide Elements, electronic conf.
1	3	20-Jan-20	oxidation states and ionic radii
1	4	21-Jan-20	lanthanide contraction
	5	22-Jan-20	complex formation
	6	24-Jan-20	occurrence and isolation
	7	27-Jan-20	occurrence and isolation
	8	28-Jan-20	lanthanide compounds
			-
2	9	29-Jan-20	Chemistry of Actinides
	10	31-Jan-20	General features
	11	31-Jan-20	chemistry of separation of Np, Pu and Am
	12	03-Feb-20	similarities between the later actinides and the later lanthanides
	13		
2		04-Feb-20	previous year question and doubt class
3	14	05-Feb-20	section B - Acids and Bases
	15	07-Feb-20	Arrhenius, Bronsted- Lowry
	16	07-Feb-20	Lux- Flood
	17	10-Feb-20	solvent system and Lewis concepts
		11-Feb-20	1
4	18		relative strength of acids and bases
7	19	12-Feb-20	the levelling effect
	20	14-Feb-20	Isopolyacids of Mo and W
	21	14-Feb-20	aqueous chemistry of Mo and W(VI),
	22 23	17-Feb-20 18-Feb-20	isopoly molybedates isopolytungustates
5	24	19-Feb-20	Section-A Chemistry of Second and Third Transition Series
	25	20-Feb-20	first class test
6	2/20/	/2020	1st Class Test
	26	24-Feb-20	General characteristics
	27	25-Feb-20	comparation with their 3d-analogues in respect of ionic radii
	28	26-Feb-20 28-Feb-20	oxidation states magnetic behaviour
	30	28-Feb-20	spectral properties
7	31	02-Mar-20	stereochemistry
	32	03-Mar-20	Chemistry of Mo and W in different oxidation states
	33	04-Mar-20	Chemistry of Mo and W in different oxidation states
	34	06-Mar-20	revision
	35 36	06-Mar-20 09-Mar-20	previous year question and doubt class Section C- General principles of metallurgy
	37	11-Mar-20	occurrence of metals
8	38	13-Mar-20	mineral wealth of India discussion
	39	13-Mar-20	calcination roasting
	40	16-Mar-20	smelting, bessimerization,
0	41	17-Mar-20	various methods of concentration
9	42	18-Mar-20 20-Mar-20	purification and refining
	44	20-Mar-20 20-Mar-20	parting process zone refining
10		/2020	2nd Class Test
	45	24-Mar-20	oxidation refining
	46	25-Mar-20	electrolytic refining and solvent extration)
	47	27-Mar-20	metallurgy of Ag,Au
1.1	48	27-Mar-20	metallurgy of Zn,Cu,Ni
11	49 50	30-Mar-20 31-Mar-20	Previous year questions and doubt class Revision
	51	01-Apr-20	Revision
	52	03-Apr-20	Revision
	53	03-Apr-20	Revision
	54	06-Apr-40	Revision
	55	07-Apr-20	Revision
12	56	08-Apr-20	Revision
	57 58	10-Apr-20 10-Apr-20	Revision Revision
	59	13-Apr-20	Revision
	60	14-Apr-20	Revision
13	61	15-Apr-20	Revision
	62	17-Apr-20	Revision
	63	17-Apr-20	Revision
14			
16			Final Sessional Test
17			



Lesson Plan 2019-20 (Even Semester)

Class and Section: B.Sc. (H.C.) 4th Sem O.C.

Subject: Organic Chemistry Name of the Faculty : Hitesh Gupta

Name of the Week	Lecture	Date	Topics
Week			
	1	16-Jan-20	introduction to the syllabus
	2	20-Jan-20	Section A - infrared spectroscopy types of molecular vibration
1	3	21-Jan-20	selection rule, Hooke's law, position and intensity of IR band
	4	22-Jan-20	measurement of IR spectrum
	5	23-Jan-20	fingerprint and functional group region
	6	23-Jan-20	fingerprint and functional group region
	7	27-Jan-20	factors affecting vibration frequency
	8	28-Jan-20	characteristic spectra of different functional groups
2	9	29-Jan-20	characteristics Spectra of different functional group
	10	30-Jan-20	characteristics IR spectrum
	11	30-Jan-20	application of infrared spectroscopy
	12	03-Feb-20	application of infrared spectroscopy
	13	04-Feb-20	previous year question and doubt class
3	14	05-Feb-20	section B - Amines
	15	06-Feb-20	structure and Nomenclature of amines,
	16	06-Feb-20	Physical properties of amines, Basicity of Amines and Factors affecting it.
	17	10-Feb-20	separation of mixture of primary secondary and tertiary amines
	18	11-Feb-20	preparation of aryl and alkyl amines
4	19	12-Feb-20	preparation of aryl and alkyl amines
	20	13-Feb-20	reaction of Amines
	21	13-Feb-20	reaction of amines
	22	17-Feb-20	ESR of Aryl amines
5	23	18-Feb-20	Amines as PTC
3	24	19-Feb-20	Name Reactions of Amines
6	25	20-Feb-20	first class test
6	26	24-Feb-20	1st Class Test Section - C Diazonium and Nitro Compounds
	27	24-Feb-20 25-Feb-20	Mechanism of Diazotisation
	28	26-Feb-20	Reactions of Diazonium compounds, Replacement by any atom or grpup
	29	27-Feb-20	Couplong reaction and its synthetic application
7	30	27-Feb-20	Preparation of Nitro Compounds
	31	02-Mar-20	Reactions of Nitro Compounds
	33	03-Mar-20 04-Mar-30	Reactions of Nitro compounds ESR and Reduction reactions of Nitroarenes
	34	05-Mar-20	Picric acid and halonotroarenes
	35	05-Mar-30	previous year question and doubt class
	36	09-Mar-20	Section D - Aldehyde and ketones
8	37	11-Mar-20	Nomenclature and structure of carbonyl group, Methods pf Preparation
	39	12-Mar-20	Methods pf Preparation of Aldehydes and ketones
			Sarett Oxidation PCC PDC
	40	12-Mar-20 16-Mar-20	Sarett Oxidation, PCC, PDC Name reactions for preparation pf aldehydes and ketones
0	40	12-Mar-20	Sarett Oxidation, PCC, PDC Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs
9	41 42	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones
9	41 42 43	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions
-	41 42 43 44	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20 19-Mar-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions Condensation Reactions
10	41 42 43 44	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions
-	41 42 43 44 3/23	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20 19-Mar-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions Condensation Reactions 2nd Class Test
-	41 42 43 44 3/23 45 46 47	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20 19-Mar-20 24-Mar-20 25-Mar-20 26-Mar-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions Condensation Reactions 2nd Class Test Acetals as Protecting groups Oxidations of aldehydes, BVO and other oxidation Reactions Reduction of Aldehydes and ketones using LAH and sodiumborohydride
10	41 42 43 44 3/23 45 46 47 48	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20 19-Mar-20 20-20 24-Mar-20 25-Mar-20 26-Mar-20 27-Mar-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions Condensation Reactions 2nd Class Test Acetals as Protecting groups Oxidations of aldehydes, BVO and other oxidation Reactions Reduction of Aldehydes and ketones using LAH and sodiumborohydride Introduction to alpha beta unsaturated carbonyl compounds
-	41 42 43 44 3/23 45 46 47 48 49	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20 19-Mar-20 24-Mar-20 25-Mar-20 26-Mar-20 27-Mar-20 30-Mar-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions Condensation Reactions 2nd Class Test Acetals as Protecting groups Oxidations of aldehydes, BVO and other oxidation Reactions Reduction of Aldehydes and ketones using LAH and sodiumborohydride Introduction to alpha beta unsaturated carbonyl compounds Previous year questions and doubt class
10	41 42 43 44 3/23 45 46 47 48 49 50	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20 19-Mar-20 24-Mar-20 25-Mar-20 26-Mar-20 27-Mar-20 30-Mar-20 31-Mar-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions Condensation Reactions 2nd Class Test Acetals as Protecting groups Oxidations of aldehydes, BVO and other oxidation Reactions Reduction of Aldehydes and ketones using LAH and sodiumborohydride Introduction to alpha beta unsaturated carbonyl compounds Previous year questions and doubt class Revision
10	41 42 43 44 3/23 45 46 47 48 49	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20 19-Mar-20 24-Mar-20 25-Mar-20 26-Mar-20 27-Mar-20 30-Mar-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions Condensation Reactions 2nd Class Test Acetals as Protecting groups Oxidations of aldehydes, BVO and other oxidation Reactions Reduction of Aldehydes and ketones using LAH and sodiumborohydride Introduction to alpha beta unsaturated carbonyl compounds Previous year questions and doubt class
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10	41 42 43 44 45 46 47 48 49 50 51 52 53 54	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20 19-Mar-20 24-Mar-20 25-Mar-20 26-Mar-20 30-Mar-20 31-Mar-20 01-Apr-20 02-Apr-20 03-Apr-20 03-Apr-20 06-Apr-40	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions Condensation Reactions 2nd Class Test Acetals as Protecting groups Oxidations of aldehydes, BVO and other oxidation Reactions Reduction of Aldehydes and ketones using LAH and sodiumborohydride Introduction to alpha beta unsaturated carbonyl compounds Previous year questions and doubt class Revision Revision Revision Revision Revision Revision
10	41 42 43 44 3/23 45 46 47 48 49 50 51 52 53 54 55	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20 19-Mar-20 24-Mar-20 25-Mar-20 26-Mar-20 30-Mar-20 31-Mar-20 31-Mar-20 01-Apr-20 02-Apr-20 03-Apr-20 06-Apr-40 07-Apr-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions Condensation Reactions 2nd Class Test Acetals as Protecting groups Oxidations of aldehydes, BVO and other oxidation Reactions Reduction of Aldehydes and ketones using LAH and sodiumborohydride Introduction to alpha beta unsaturated carbonyl compounds Previous year questions and doubt class Revision
10	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20 19-Mar-20 24-Mar-20 25-Mar-20 26-Mar-20 27-Mar-20 31-Mar-20 01-Apr-20 02-Apr-20 03-Apr-20 06-Apr-40 07-Apr-20 08-Apr-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions Condensation Reactions 2nd Class Test Acetals as Protecting groups Oxidations of aldehydes, BVO and other oxidation Reactions Reduction of Aldehydes and ketones using LAH and sodiumborohydride Introduction to alpha beta unsaturated carbonyl compounds Previous year questions and doubt class Revision
10	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20 19-Mar-20 20-Mar-20 24-Mar-20 25-Mar-20 26-Mar-20 30-Mar-20 31-Mar-20 01-Apr-20 02-Apr-20 03-Apr-20 03-Apr-20 04-Apr-40 05-Apr-40 06-Apr-40 07-Apr-20 08-Apr-20 09-Apr-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions Condensation Reactions 2nd Class Test Acetals as Protecting groups Oxidations of aldehydes, BVO and other oxidation Reactions Reduction of Aldehydes and ketones using LAH and sodiumborohydride Introduction to alpha beta unsaturated carbonyl compounds Previous year questions and doubt class Revision
10	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20 19-Mar-20 24-Mar-20 25-Mar-20 26-Mar-20 27-Mar-20 31-Mar-20 01-Apr-20 02-Apr-20 03-Apr-20 06-Apr-40 07-Apr-20 08-Apr-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions Condensation Reactions 2nd Class Test Acetals as Protecting groups Oxidations of aldehydes, BVO and other oxidation Reactions Reduction of Aldehydes and ketones using LAH and sodiumborohydride Introduction to alpha beta unsaturated carbonyl compounds Previous year questions and doubt class Revision
10	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20 19-Mar-20 20-Mar-20 24-Mar-20 25-Mar-20 26-Mar-20 27-Mar-20 30-Mar-20 01-Apr-20 02-Apr-20 03-Apr-20 06-Apr-40 07-Apr-20 08-Apr-20 09-Apr-20 10-Apr-20 10-Apr-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions Condensation Reactions 2nd Class Test Acetals as Protecting groups Oxidations of aldehydes, BVO and other oxidation Reactions Reduction of Aldehydes and ketones using LAH and sodiumborohydride Introduction to alpha beta unsaturated carbonyl compounds Previous year questions and doubt class Revision
10	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	12-Mar-20 16-Mar-20 17-Mar-20 18-Mar-20 19-Mar-20 19-Mar-20 24-Mar-20 25-Mar-20 26-Mar-20 27-Mar-20 31-Mar-20 31-Mar-20 01-Apr-20 03-Apr-20 06-Apr-40 07-Apr-20 09-Apr-20 10-Apr-20 10-Apr-20 10-Apr-20 11-Apr-20 11-Apr-20 11-Apr-20 11-Apr-20 11-Apr-20 11-Apr-20	Name reactions for preparation pf aldehydes and ketones Physical Properties and Reactions of Aldehydes amd ketonrs NAR of Aldehydes and ketones Aldol, Perkin Cannizaro, Benzoin and Other Name reactions Condensation Reactions 2nd Class Test Acetals as Protecting groups Oxidations of aldehydes, BVO and other oxidation Reactions Reduction of Aldehydes and ketones using LAH and sodiumborohydride Introduction to alpha beta unsaturated carbonyl compounds Previous year questions and doubt class Revision
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Lesson plan
Name of the Assistant Professor: Uttam Nain
Class and Section: B.Sc Honors Chemistry 4th sem
Subject: Optional Paper-II
Sub. Code- CH (H) -405

Week	Day No.	Topics	Remarks
1	Day 1	Introduction	
	Day 2	Statistical Mechanics :Probability	
	Day 3	Some Probability consideration, Combination Possessing	
		Maximum Probability	
2	Day 4	Distribution of Molecules in Two Boxes, Case with Weightage (General)	
	Day 5	Phase Space, Microstate and Macrostate, Statistical Fluctuations constraints	
	Day 6	accessible states,thermodynamical probability	
3	Day 7	postulates of statistical Physics, division of phase space into cells	
	Day 8	condition of equilibrium between two system	
	Day 9	Boltz mann law	
4	Day 10	B.E. statistics	
	Day 11	derivation of Planck's-Radiation law	
	Day 12	B.E. Gas	
5	Day 13	class test	
	Day 14	Test distribution and test solution	
	Day 15	introduction of quantum mechanics	
		-	
6	Day 16	Failure of classical mechanics, old quantum theory	
	Day 17	photoelectric effect, einstein photoelectric effect equation	
	Day 18	Compton effect	
7	Day 19	result of Compton effect	
	Day 20	Major revision and assignment	
	Day 21	Continue	
8	Day 22	Davision & Germer experiment	
	Day 23	G.P. Thomsan Experiment, Phase & Group velocity	
	Day 24	Heisenberg's uncertanity principle, Time Energy and angular momentum	
9	Day 25	Position Uncertainity, Uncertainity Principle from De-	

		broglie
	Day 26	Duality Nature
	Day 27	Gama Ray Microscope, Electron Diffraction From a Slit
10	Day 28	Derivation of Time dependent Schrodinger wave
		Equation
	Day 29	Unit Test
	Day 30	Introduction of computer programming
11	Day 31	Computer Programming
	Day 32	Computer Organisation, Binary Representation
	Day 33	Executable & Non-Executable Statements
12	Day 34	Input & Output Statements, Formats
	Day 35	I.F. DO and GO TO Statements, Dimesion Arrays
	Day 36	Statement function
13	Day 37	Function Subprogram, Problem Discussion
	Day 38	Revision
	Day 39	Test
14	Day 40	Test distribution and discussion
	Day 41	(Revision)& discussion of previous paper (Unit I)
	Day 42	(Revision)& discussion of previous paper (Unit II)