Arts, Science and Commerce College, Indapur, Dist. Pune TEACHING AND EVALUATION PLAN

Ame of the teacher: Prof. Deokate Kavita bhagwan

Year: 2021-2022

Semester: VI

Paper: CH-604 Inorganic chemistry II

Class: TYBSc

1			Part I:	Teaching I	Plan		Part II : Evaluation of P	lan	
1	2	3	4	5	6	7	8	9	10
Sr.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	Dec 2021	3 &4	12	6	Organometallic chemistry	8	Organometallic chemistry	2	Extra lecture was conducted
2	January 2022	1&2	12	6	Homogeneous and heterogeneous catalysis	4	Homogeneous and heterogeneous catalysis	Nil	
3	January 2022	3 & 4	11	6	Homogeneous and heterogeneous catalysis ,Bioinorganic chemistry	4	Homogeneous and heterogeneous catalysis ,Bioinorganic chemistry	Nil	
4	Feb 2022	1 & 2	11	6	Bioinorganic chemistry and Inorganic polymers	4	Bioinorganic chemistry and Inorganic polymers	Nil	
5	Mar 2022	1 & 2	12	6	Inorganic solids or ionic liquid of technological importance	4	Inorganic solids or ionic liquid of technological importance	Nil	

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Department Of Chemistry
Arts, Science & Commerce
College, Indapue, Dist. Pune

Science & Commerce College, Indapur, Dist. Pune FINCIPAL AND

Arts, Science and Commerce College, Indapur, Dist. Pune TEACHING AND EVALUATION PLAN

of the teacher: Prof. Deoka	te Kavita bhagwan	Year: 2021-2022		Semester: II	
Lect:Inorganic Chemistry	Paper: CH1-23	0 section II Bioinorganic chemistry	Class:	M.Sc I Year	

	Part I: Teaching Plan		Plan	Part II: Evaluation of Plan					
	2	3	4	5	6	7	8	9	10
No	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	Dec 2021	3 &4	12	4	Overview of Bioinorganic chemistry	4	Overview of Bioinorganic chemistry	Nil	
2	January 2022	1&2	12	4	Concept of inorganic chemistry in bioinorganic chemistry	4	Concept of inorganic chemistry in bioinorganic chemistry	Nil	
3	January 2022	3 & 4	11	4	Concept of inorganic chemistry in bioinorganic chemistry	4	Concept of inorganic chemistry in bioinorganic chemistry	Nil	
4	Feb 2022	1 & 2	11	4	Function and transport of alkali and alkaline earth metal ion	4	Concept of inorganic chemistry in bioinorganic chemistry	Nil	
5	Mar 2022	1 & 2	12	4	Biochemistry of calcium ,magnesium ,manganese, and iron	6	Biochemistry of calcium ,magnesium ,manganese, and iron		Extra lecture was conducted

Signature of Teacher

Signature of Head of Department

Signature of Faculty In-charge

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College, Indapur, Dist. Pune

Signature of the Principal

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Department Of Chemistry
Arts, Science & Commerce
College, Indapue, Dist. Pune

TEACHING AND EVALUATION PLAN

the teacher: Prof. Deokate Kavita bl		Semester: I
r:Inorganic Chemistry	Paper: CHI-130 section II main group elements	Class: M.Sc I Year

	1	art I: Teach	ing Plan			Part II : Evaluation	n of Plan	
2	3	4	5		7	8	9	10
Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
July 2021	3 & 4		4	Hydrogen and its compound ,Alkali and alkaline earth metal	4	Hydrogen and its compound ,Alkali and alkaline earth metal	Nil	
August 2021	1 & 2 3 and 4		8	Boron group ,Carbon group ,oxygen group	8	Boron group ,Carbon group ,oxygen group	Nil	
Sept 2021	1 & 2 and 3&4		8	Halogen group, Noble gases and organometallic compound	10	Halogen group, Noble gases and organometallic compound	2	Extra lecture was conducted

Signature of Teacher

Signature of Head of Department

Department Of Chemistry Arts, Science & Commerce College, Indapue, Dist. Pune Signature of Faculty In-charge

Science Faculty
Arts, Science & Commerce
College, Indapur, Dist, Pune

Signature of the Principal

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Arts, Science and Commerce College, Indapur, Dist. Pune TEACHING AND EVALUATION PLAN

Sen	ne of the te tester: III					Year:	2021-2022			
Sub	ject: Aı	nalytical	Chemistry			CHA-393 Class: M.Se II				
	Part I : Teaching Plan						Part II : Evaluation of Pl	an		
1	2	3	4	5	6	7	8	9	10	
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks	
1	Dec 2021	1&2	11	8	1) Analysis of Blood and urine (12L) Introduction& a) Collection of Specimen b) Analysis of blood and urine	8	1) Analysis of Blood and urine (12L) Introduction& a) Collection of Specimen b) Analysis of blood and urine	Nil		
2	Dec 2021	3&4	11	6	C) vitamin in body fluids 2) Immunological method of Analysis introduction a) Basic of immunology	6	C) vitamin in body fluids 2) Immunological method of Analysis introduction a) Basic of immunology	Nil		
				9 - 1'S 2 '	b) Stages of ELISAc) Practical Exercises for Direct	44 f g g g g g g g g g g g g g g g g g g	b)Stages of ELISA	. 111		

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ÉLISA

January 2022

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Nil

c) Practical Exercises for Direct ELISA

					Solve the problem		Solve the problem	İ	
4	January 2021	3&4	11	4	3)Radioimmunoassay -Principle and Reagents	4	3)Radioimmunoassay -Principle and Reagents	Nil	· ·

Semester IV

CHA- 491&CHA-492

Year: 2021-2022.

1	2	3	1 411	I : Teaching			Part II: Evaluation of Plan	l	
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	8 Topics taught	9 Deviation in periods	10 Remark
1	March 2022 March 2022	1&2	11	10	1) Pharmaceutical Dosage Form(4L) Introduction and theory of capsule,tablets,cream,drop. 2) Chemical Test,Limit test of Assay (6L) a)limit Test b)Assay 1) Analysis of Soil(10L) a) Sampling of soil b) Weighing and dispensing c) Extraction Procedure	10 10	1)Pharmaceutical Dosage Form(4L) Introduction and theory of capsule,tablets,cream,drop. 2) Chemical Test,Limit test of Assay (6L) a)limit Test b)Assay 1) Analysis of Soil(10L) a) Sampling of soil b) Weighing and dispensing	Nil	
	April 2022.	1 & 2	12	11	d) Analysis of soil 3)Microbiological Assay Of Pharmaccutical(8L) 2) Fertilizer Analysis (3L)	11	c) Extraction Procedure d) Analysis of soil 3)Microbiological Assay Of Pharmaceutical(8L) 2) Fertilizer Analysis (3L)	Nil Nil	

	/	/		-						
1										
	4	April 2022	3 & 4	12	11	3) Analysis of pesticides and Residuc(8L) 2) Fertilizer Analysis (3L)	11	3) Analysis of pesticides and Residue(8L) 2) Fertilizer Analysis (3L)		
5		May2022	1&2	10	6	4) Pharmaceutical Method and Determination (6L) Disintegration Test and Dissolution Test	6	4) Pharmaceutical Method and Determination (6L) Disintegration Test and Dissolution	Nil	
	1	The plan sh	ould be	prepared in	n duplicate			Test	Nil	

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One copy of the plan should be submitted at the beginning of the term after filling up columns 1 to 6.

The second copy must be retained by the teacher and submitted at the end of the term. Part second of the plan i. e. coumns 7 to 10 must be filled up progressively

Signature of Teacher

Signature of Head of Department

Signature of Faculty In-charge

Science Faculty
Arts, Science & Commerce
College, Indapur, Dist. Pune

Subject:Organic Chemistry	Name of the teacher: Prof. Mane Pranjali Suryakant
Paper: CHO-351(Spectroscopic methods	anjali Suryakant Year:2021-2022
in organic Synthesis)	
Class: M.Sc II Year	Semester: III

2 -	2	i u	Pa 4	Part I : Teaching Plan		1 1 1	7
Sr.	Month	Week	No. of	No. of	Topics to be taught	No. of	Topics taught
Zo.			working	periods		periods	
			days	available		engaged	
					Mass Spectroscopy: Principle, Ionization methods like EI, CI, ES, MALDI and		Mass Spectroscopy: Principle, Ionization methods like EI, CI, ES,
	July	3 &			FAB fragmentation of typical Organic		MALDI and FAB fragmentation of
-	2021	1		1	componius,	•	3) 6.000
		1 &2			of Mass Spectr		Application of Mass Spectrometry:
ر د	August	3 and		0	determination of the internal	×	Composition of the meeting
1	1404			(,	Problems solving: Structure
					Problems solving: Structure elucidation		elucidation using UV, IR, ID(1H
	ï				using UV, IR, ID(1H and 13C) NMR		and 13C) NMR and 2D NMR (1H-
		1 &			and 2D NMR (1H-1H, 13C-1H		1H, 13C-1H COSY/HETCOR
	Sept	2 and			COSY/HETCOR Only), APT, DEPT		Only), APT, DEPT and MS data as
w	2021	3&4		8	and MS data as well as spectra.	9	well as spectra.
				1 1 1			

The plan should be prepared in duplicate.

progressively at the end of every week. One copy of the plan should be submitted at the beginning of the term after filling up columns 1 to 6. The second copy must be retained by the teacher and submitted at the end of the term. Part second of the plan i. e. columns 7 to 10 must be filled up

Malvade

Department Of Chemistry Arts, Science & Commerce College, Indapue, Dist. Pune Head

Science Faculty
Arts, Science & Commerce
College, Indapur, Dist Pune incharge

> ARTS, SCIENCE AND COMMERCE COLLEGE INDAMERCA DIST-PUNE PRINCIPAL

Semester III

Paper: CHO-353 Protection-De-protection, Chiron approach and Carbohydrates (Sec -II)

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			Pa	Part I: Teaching Plan	hing Plan		Part II : Evaluation of Plan	an	
1	2	3	4	5	6	7	8	9	10
Sr.	Month	Week	No. of	No. of	Topics to be taught	No. of	Topics taught	Deviation	Remarks
No.			working	periods		periods		in	
			days	available		engaged		periods	
							Basics of Carbohydrates:		
	July	2&			Basics of Carbohydrates: Introduction of		Introduction of sugar, structure of		
_	2021	4	12	4	sugar, structure of monosaccharides	4	monosaccharides	Nil	
						1	Synthesis of Glycosides:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
					Synthesis of Glycosides: glycosyldonar		glycosyldonar acceptor concept,		
	August	1 &2			acceptor concept, general methods for	0	general methods for glycosyl bond	<u>본</u>	
2	2021	3&4	1	0	grycosyr bond formation.	c	IOIIIIauoii.		
		,							
	Sept	1 & 2							
ω	2021	3&4	12	8	Synthesis of disaccharides.	×	Synthesis of disaccitations.	INI	
				1 1 1					

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Department Of Chemistry Arts, Science & Commerce College, Indapue, Dist. Pune

Head

Malwade

Incharge
Science Faculty
Arts, Science & Commerce
College, Indapur, Dist. Pune

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Signature of Teacher

Signature of Head of Department

Signature of Faculty In-charge

Signature of the Principal

Arts, Science and Commerce College, Indapur, Dist. Pune TEACHING AND EVALUATION PLAN

College,Indapue,Dist.Pune Arts, Science & Commerce

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Feb 2022

1 &2

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chemistry.

Ring formation reactions, Click

Multi component reactions,

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January 2022

3 & 4

11

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Shapiro, Bamford-Stevens,

C=C bond formation reactions:

McMurry, Julia-Lythgoe, Wittig.

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Wittig.

Shapiro, Bamford-Stevens

McMurry, Julia-Lythgoe,

on sunday

lecture done

Extra

reactions with catalytic cycle.

Z

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C=C bond formation reactions:

chemistry.

Ring formation reactions, Click

Z

Multi component reactions

2

January 2022

1&2

12

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reactions with catalytic cycle.

 ∞

College, Indapur, Dist. Pune Arts, Science & Commerce Science Faculty

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Arts. Science and Commerce College, Indapur, Dist. Pune TEACHING AND EVALUATION PLAN

Name of the Teacher: Mr. Nanaware R. M	A CONTRACTOR OF THE CONTRACTOR	Year: 2021-22	Company Paul Paul Service		Semester: I
Subject: Inorganic Chemistry		Paper: CH1 - 130	(Section 1 Molecular Symmetry)	
Class: M.Sc.(I)				*1.+1.×1.	

Part	I : Teaching	Plan		77.0		Part II : Evaluati	on of Plan		
1	2	3	14	15	6	7	8	9	10
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks
1	Sept.	1&2	9	4	1. Molecular symmetry and symmetry operations	4	1. Molecular symmetry and symmetry operations	Nil	
		3,4 & .	16	5	Symmetry point groups and its classification	5	Symmetry point groups and its classification	NiI	
2	Oct.	1&2	7	4	Representation of groups	4	Representation of groups	Nil	
		3,4&5	16	6	Orthogonally theorem and Character tables	6	Orthogonally theorem and Character tables	Nil	
3	Nov.	1&2	10	4	Symmetry adopted linear combinations	4	Symmetry adopted linear combinations	Nil	
		3&4	11	4	Applications of group theory to infra-red spectroscopy	4	Applications of group theory to infra-red spectroscopy	Nil	

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Head
Department Of Chemistry
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Science Faculty
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Arts, Science and Commerce College, Indapur, Dist. Pune TEACHING AND EVALUATION PLAN

Name of the Teacher: Mr. Nanaware R. M. Subject: Inorganic Chemistry Paper: CIII – 230 (Section I Coordination Chemistry)					
Subject: Inorganic Chemistry Paper: CHI = 230 (Section I Coordination Chemistry)	Name of the Teacher: Mr. Nana	ware R. M.	Year: 2021-223	Cam	
F(D)P(Y) = A M + A P(D)P(Y) = A P(D)P(Y)	Subject: Inorganic Chemistry	The Control of the Co	Popular CIII 220 (Cartia I Cartia C	Sem	iester: 11
Class: M.Sc.(1)			raper: C111 - 230 (Section 1 Coordination Chemistry)		

411	1 : Teaching	rian .				Part II : Evaluat	ion of Plan			
	2	3	1	5	6	7	8	9	10	
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarks	1 8818
	march.	1&2	9	4	Concept and scope of ligand field theory	4	Concept and scope of ligand field theory	Nil		
		3.4 & 5	16	5	Ligand field theory of coordination compounds	5	Ligand field theory of coordination compounds	Nil		
	April.	1&2	7	4	Orgel diagrams, correlation diagrams, Tanabe- Sugano diagrams	4	Orgel diagrams, correlation diagrams, Tanabe- Sugano diagrams	Nil		
		3,4&5	16	6	Electronic spectra of transition metal complexes	6	Electronic spectra of transition metal complexes	Nil		
	May	1&2	10	4	Nephelauxetic effect and calculations based on it.	4	Nephelauxetic effect and calculations based on it.	Nil		
		3&4	11	4	Magnetic properties of coordination compounds	4	Magnetic properties of coordination compounds	Nil		

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Head Department Of Chemistry Arts,Science & Commerce College,Indapue,Dist.Pune

Incharge
Science Faculty
Arts, Science & Commerce
College, Indapur, Dist. Pune

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Arts, Science and Commerce College, Indapur, Dist. Pune TEACHING AND EVALUATION PLAN

Name of the teacher: Prof. Yogesh Vilas Zagade Year: 2021-2022

Semester: I

Subject: Organic Stereochemistry and Asymmetric synthesis

Paper: CHO-352

Class:

M.Sc II

			Part	I : Teaching	Plan	Part II: Evaluation of Plan					
1	1 2	3	4	5	6	7	8	9	10		
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remark		
1	Nov2021	1&2	13	8	Confirmation of polysubstituted cyclohexane	8	Confirmation of polysubstituted cyclohexane	Nil			
2	Nov 2021	3 & 4	12	10	Stereochemistry of fused and Bridged ring system	10	Stereochemistry of fused and Bridged ring system	Nil			
3	Dec 2021	1 & 2	13	7	Determination of configuration by cams rule and Different model	8	Determination of configuration by cams rule and Different model		Extra lecture wa conducted on sunday		
4	January 2022	1 & 2	11	8	ASymmetric synthesis chiral pool strategy	8	ASymmetric synthesis chiral pool strategy	Nil			
5	January 2022	3 & 4	12	8	Asymmetric organic catalysis to a Asymmetric hydrogenations	8	Asymmetric organic catalysis to a Asymmetric hydrogenations	Nil			

Semester II

Paper: IV CH0- 452 medicinal Chemistry & It's Applications

Year: 2021-22

			Part	I: Teaching	z Plan	Part II : Evaluation of Plan					
1	2	3	4	5	6	7	8	9	10		
Sr. No.	Month	Week	No. of working days	No. of periods available	Topics to be taught	No. of periods engaged	Topics taught	Deviation in periods	Remarl		
1	March 2022	4	6	2	Introduction to medicinal chemistry	2	Introduction to medicinal chemistry	Nil			
2	Apr 2022	1 &2	12	5	Introduction to Biomolecules, Pharmacodynamics of drug molecules	9	Introduction to Biomolecules, Pharmacodynamics of drug molecules	4	Extra lecture w conducted		
3	Apr 2022	3 & 4	12	8	Absorption, Distribution, Metabolism and Excretion study of drug molecules	11	Absorption, Distribution, Metabolism and Excretion study of drug molecules	3	Extra lecture with		
4	May 2022	1 & 2	12	8	Study of coenzyme, Solid phase peptide Synthesis	9	Study of coenzyme, Solid phase peptide Synthesis	I	lecture w		
		- 12 pc ds		1, 30 m							
5	May 2022	3	6	2	Active & Passive Transport	2	Active & Passive Transport		-+		

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Signature of Head of Department

Head Department Of Chemistry Arts, Science & Commerce College,Indapue,Dist.Pune Signature of Faculty In-charge

incharge Science Faculty Aris Science & Commerce College Indapur, Dist.Pung ARTS, SCIENCE AND