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

	iester: III					Year: 20	19-2020	Test.	
Sub	jeci; A	nalytica	l Chemisti			CH	IA-392 Class: M.	Sc II	
Sr. No.	2 Month	Week	4	rt I : Teach 5 No. of periods available	6 Topics to be taught	7 No. of periods engaged	Part II : Evaluation of Pla 8 Topics taught	Deviation in periods	Ren
1	Aug 2019	1&2	10	8	1) Atomic spectroscopy (12L) Theory, source, burner, atomic theory of emission spectra, atomic absorptionspectra, AAS, AES, ICPAES, Cold vapour techaqniue, standard addition, FES.		1) Atomic spectroscopy (12L) Theory, source, burner, atomic theory of emission spectra, atomic absorptionspectra,AAS,AES,ICPAES, Cold vapour techaqniue, standard addition,FES.		
						20		Nil	

Solid phase micro-extraction (6 L) Introduction, theoretical

Methods of analysis: SPMEGC. Methods of analysis: SPME-HPLC-

development in micro extraction

(liquid micro extraction, membrane

MS, Automation of SPME, New

micro

considerations, experimental,

Name of the teacher: Prof Gound K.B

Aug

2019

3&4

11

8

Nil

Solid phase micro-extraction (6 L)

Introduction, theoretical

micro

considerations, experimental,

Methods of analysis: SPMEGC, Methods of analysis: SPME-HPLC-

MS, Automation of SPME, New

development in micro extraction

(liquid micro extraction, membrane

	1	1.1		1					
3	Sept 2019	1&2	10	8	3) classical Approach for Aqueous Extraction (6L) Introduction, principle of liquid - liquid extraction, theory, purge and trap volatile aq.sample 4) Supercritical Fluids Extraction (3L) Introduction, Instrumentation,	8	3) classical Approach for Aqueous Extraction (6L) Introduction, principle of liquid - liquid extraction, theory, purge and trap volatile aq.sample 4) Supercritical Fluids Extraction (3L) Introduction, Instrumentation,	Nil	
4	Sept 2019	3&4	11	8	Application. 5) Atomic Mass spectrometry (6L 6) Microwave assisted Extraction (3L) Introduction, Instrumentation,	8	Application. 5) Atomic Mass spectrometry (6L 6) Microwave assisted Extraction (3L) Introduction, Instrumentation,	Nil	
5	Oct 2019	1&2	10	8	Application. 7) Solid Phase Extraction (6L) Introduction,types ,SPE format and Apparatus,SPE media, method of Operation, factor affecting SPE,Automation of online SPE.	8	Application. 7) Solid Phase Extraction (6L) Introduction,types ,SPE format and Apparatus,SPE media, method of Operation, factor affecting SPE,Automation of online SPE.	Nil	
6	Oct 2019	3&4	11	8	AtomicIonization and laser based-Enhanced Ionization: (Ref-1) (6 L) Atomic Fluorescence Spectroscopy (AFS): Atomic fluorescence, apparatus for AFS, EMR source for AFS, LASERS, Cells for AFS, Plasmas, Wavelength selection for AFS, Detectors for AFS, Theory of AFS, Analysis with AFS, Interference With AFS.	8	AtomicIonization and laser based- Enhanced Ionization: (Ref-1) (6 L) Atomic Fluorescence Spectroscopy (AFS): Atomic fluorescence, apparatus for AFS, EMR source for AFS, LASERS, Cells for AFS, Plasmas, Wavelength selection for AFS, Detectors for AFS, Theory of AFS, Analysis with AFS, Interference With AFS.		

CHA -481

Year: 2019-2020

Part I: Teaching Plan 1 2 3 4 5 6 No. of Str. Month Week No. of Working days available Toxicology: (10 L) Isolation, identification and determination of following 1) Narcotics- heroin and cocaine.	Toxicology: (10 L) Legistion identification and	Re
r. Month Week No. of working days available Toxicology: (10 L) Isolation, identification and determination of following	Toxicology: (10 L) Legistion identification and	
Toxicology: (10 L) Isolation, identification and	Igolation identification and	-
Jan 2020 18 2 11 8 2)Stimulantscaffeinemphetamines. 3)Depressants-Barbiturates, Benzodiazepines 8 4)Barbiturates Benzodiazepinne Determination of food preservatives (06 L) Definition, SO2 legistration and determination by Tanners method, Nitrate and nitrites legistration and determination, boric acid legistration and determination, Benzoic acid legistration and determination, Benzoic acid legistration and determination, and determination, 4-hydroxybenzoate	determination of following 1) Narcotics- heroin and cocaine. 2)Stimulantscaffeinemphetamines. 3)Depressants-Barbiturates, Benzodiazepines 4)Barbiturates Benzodiazepinne Determination of food preservatives (06 L) Definition, SO2 legistration and determination by Tanners method, Nitrate and nitrites legistration and determination, Benzoic acid legistration and determination, Benzoic acid legistration and determination, Benzoic acid legistration and determination, legistration and determination, Benzoic acid legistration and determination, Benzoic acid legistration and determination,	

					determination. Sweeteners: Saccharine identification		determination. Sweeteners Saccharine identification	5:
3	Feb 2020	1&2	12	8	Narcotics and Psychotropic substances Act.(4 L) Def – addict, cannabis (hemp), Coca derivative, coca leaf, Manufacture medicinal cannabis, narcotic drug, opium, opium derivative, opium poppy, poppy straw, psychotropic substance, Illicit traffic, Prohibition control regulation offence and penalties Analysis of Lipids: (04 L) Estimation oil seeds,Estimation of free fatty acids, Saponification value of oils, iodine value, Determination of acid value of Fatty acid, peroxide value	8	Narcotics and Psychotropic substances Act.(4 L) Def – addict, cannabis (hemp), Coca derivative, coca leaf, Manufacture medicinal cannabis, narcotic drug, opium, opium derivative, opium poppy, poppy straw, psychotropic substance, Illicit traffic, Prohibition control regulation offence and penalties Analysis of Lipids: (04 L) Estimation oil seeds, Estimation of free fatty acids, Saponification value of oils, iodine value, Determination of acid value of Fatty acid, peroxide	
4	Feb 2020	3&4	12	8	Diagnosis of acute poisoning, Tratment of acute poisoning, The role of the clinicaltoxicology laboratory (5L) Milk (02) Analysis of milk and milk products: Composition of milk, analysis of milk with respect to	8	Diagnosis of acute poisoning, Tratment of acute poisoning, The role of the clinicaltoxicology laboratory (5L) Milk (02) Analysis of milk and milk products: Composition of milk, analysis of milk with respect to	Nil

5	March 2020	1&2	12	8	Carbohydrates: (05 L) Definition, classification, and functions, Analysis of carbohydrates from food sample by different method i) volumetric determination by Fehling's solution, ii) Colorimetric analysis of carbohydrates by Folin Wumethod, Nelson Somyogi method, iii) total carbohydrates by Anthrone method, iv) Estimation of starchanthronemethody)Determination of amylase, vi) Estimation of pectic substances (gravimetric and colorimetric method), vii)Estimation of crude fibbers Proteins (05 L) Definitions and functions, Analysis of proteins by Kjedahl's method, ana		Carbohydrates: (05 L) Definition, classification, and functions, Analysis of carbohydrates from food sample by different method i) volumetric determination by Fehling's solution, ii) Colorimetric analysis of carbohydrates by Folin Wu method, Nelson Somyogi method, iii) total carbohydrates by Anthrone method, iv) Estimation of starchanthronemethody)Determination of amylase, vi) Estimation of pectic substances (gravimetric and colorimetric method), vii)Estimation of crude fibbers Proteins (05 L) Definitions and functions, Analysis of proteins by Kjedahl's	
					n of amino acids by colorimetric method, Estimation of food grain for methioninecontent,Proteindigestibility in vitro, Protein efficiency and net	Strange	method, ana n of amino acids by colorimetric method, Estimation of food grain for methioninecontent,Proteindigestibility	Nil
5	March 2020	3&4	10	8	protein ratio, Determination ofnetprotein utilisation Laboratory management and Practice, Color Test, Pretreatment of sample, Thin layer chromatography, Ultraviolet and visible spectrophotometry.(7L)	8	in vitro, Protein efficiency and net protein ratio, Determination ofnetprotein utilisation Laboratory management and Practice, Color Test, Pretreatment of sample, Thin layer chromatography, Ultraviolet and visible spectrophotometry.(7L)	

The plan should be prepared in duplicate.

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 the end of every week.

| Comparison of Teacher | Signature of Faculty In-charge | Signature of Faculty In-charge | Signature of Faculty In-charge | Incharge | Signature of Teacher | Signature of Teacher

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

	ne of the tea	acher: P	rof Cound	KR	Year:	2019-2020		Se	emester: II
_			Chemistry			CHA-380	Class: M.Sc II		
_						Т	Part II : Evaluation of Plan	1	
_		T 2			eaching Plan	7	8	9	
$\frac{1}{2}$	2 Month	Week	No. of	No. of	6 Topics to be taught	No. of	Topics taught	Deviation in	Ren
).			working days	periods available		periods engaged		n periods	
	Aug 2019	1&2	10	4	1)Analysis of Geological materials: (8 L) Dolomite (For silicate, Mg and Ca content), Ilmenite (for silicate, Ti and Fe content), Monazite (for rare earth metals), Hematite and Magnetite (silicate and Fe content Pyrolusite (for silicate and Mn content) and bauxite (for Al and Silicate content	4	1)Analysis of Geological materials: (8 L) Dolomite (For silicate, Mg and Ca content), Ilmenite (for silicate, Ti and Fe content), Monazite (for rare earth metals), Hematite and Magnetite (silicate and Fe content Pyrolusite (for silicate and Mn content) and bauxite (for Al and Silicate content	Nil	
	Aug 2019	3&4	11	4	matite and Magnetite (silicate and Fe content Pyrolusite (for silicate and Mn content) and bauxite (for Al and Silicate content	4	matite and Magnetite (silicate and Fe content Pyrolusite (for silicate and Mn content) and bauxite (for Al and Silicate content	7-0.1	
or.	die .		2	!	1.1	1		Nil	
	Sept 2019	1&2	10	4	2)Analysis of Alloys: (8 L) Stainless Steel (for Fe, Cr, Ni, Co, Cu, Mn, W, Si, V, Mo, Ti, Pb and Zr) Bronze and	4	2)Analysis of Alloys: (8 L) Stainless Steel (for Fe, Cr, Ni, Co, Cu, Mn, W, Si, V, Mo, Ti, Pb and Zr) Bronze and		
\perp	2017				Gun metal (Cu, Sn), , Brass (Cu, Zn, Sn,		Gun metal (Cu, Sn), , Brass (Cu, Zn, Sn,	Nil	

1	ż	2		Pb),		Pb),		X
Sept 2019	3&4	11	4 , ,	Solder (Pb and Sn), Nichrome (Fe, Ni, Cr), analysis of nickel Silver (Sn, pb, Cu, Fe, Ni and Zn) and Aluminium based alloy	4	Solder (Pb and Sn), Nichrome (Fe, Ni, Cr), analysis of nickel Silver (Sn, pb, Cu, Fe, Ni and Zn) and Aluminium based alloy	Nil	
Oct 2019	1&2	10	4	Analysis of Soil: (8 L) i. Sampling, ii) Carbonate, Organic carbon, and organic matter, iii) Total nitrogen, ammonia and nitrates, iv) Total determination of major soil constituents by fusion analysis, v) silica and total combined oxides of iron	4	Analysis of Soil: (8 L) i. Sampling, ii) Carbonate, Organic carbon, and organic matter, iii) Total nitrogen, ammonia and nitrates, iv) Total determination of major soil constituents by fusion analysis, v) silica and total combined oxides of iron	Nil	
Oct 2019	3&4	11	4	aluminium, and titanium, vi) Determination Ca, Mg, Na, K, phosphate, boron, Co, Cu, Zn, vii) Exchangeable cations vii) Cation exchange capacity, viii) chemical analysis as a measure of soil fertility	4	aluminium, and titanium, vi) Determination Ca, Mg, Na, K, phosphate, boron, Co, Cu, Zn, vii) Exchangeable cations vii) Cation exchange capacity, viii) chemical analysis as a measure of soil fertility	Nil	

Part I : Teaching Plan						Part II : Evaluation of Plan				
2	3	4	5	6	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	Remar		
Jan 2020	1&2	11	4	3) Determination of vitamins in body fluid: (8L) Classification of vitamins with example, Each vitamin must be explained with respect of functions, deficiency diseases, daily requirement, and analytical method i) Retinol (determination of retinol and serum carotene in serum using TFA). Vit D3 (cholecalciferol), Vitamin E (Tocopherols, Determination of serum tocopherol by spectrophotometry by dipyridyl method), Vitamin B1 (thiamine determination by flurometry), Vitamin B2 (riboflavin, Photofluorometric method), Vitamin B6 (Pyidoxine, Fluorometric determination of Xanthuric acid), Nicotinic acid and Niacin: determination by fluorometry, Ascorbic acid (vitamin –c) Volumetric method using 2,6 dichlorophenol method, colorimetric		3) Determination of vitamins in body fluid: (8L) Classification of vitamins with example, Each vitamin must be explained with respect of functions, deficiency diseases, daily requirement, and analytical method i) Retinol (determination of retinol and serum carotene in serum using TFA), Vit D3 (cholecalciferol), Vitamin E (Tocopherols, Determination of serum tocopherol by spectrophotometry by dipyridyl method), Vitamin B1 (thiamine determination by flurometry), Vitamin B2 (riboflavin, Photofluorometric method), Vitamin B6 (Pyidoxine, Fluorometric determination of Xanthuric acid), Nicotinic acid and Niacin: determination by fluorometry, Ascorbic acid (vitamin –c) Volumetric method using 2,6 dichlorophenol method, colorimetric	Nil			

Jan 2020 3&4 Spectrophotometry by dipyridyl method), Vitamin B1 (thiamine determination by flurometry), Vitamin B2 (riboflavin, Photofluorometric method), Vitamin B3 (riboflavin, Photofluorometric determination of Xanthuric acid), Nicotinic acid and Niacin: determination by flurometry, Ascorbic acid (vitamin -c) Volumetric method using 2,6dichlorophenolmethod, colorimetric determination of leucocyte ascorbate Collection of Specimens: (02L) Blood: Collection of Blood specimens, storage and preservation, Urine: Collection of Urine, physical characteristics of urea, preservation and storage, Faeces: Collection and preservation. Corpan function tests (2L) Liver function tests and kidney function test					determination of leucocyte ascorbate		determination of leucocyte ascorbate		
Vitamin B1 (thiamine determination by flurometry), Vitamin B2 (riboflavin, Photofluorometric method), Vitamin B3 (riboflavin, Photofluorometric method), Vitamin B6 (Pyidoxine, Fluorometric determination of Xanthuric acid), Nicotinic acid and Niacin: determination by fluorometry, Ascorbic acid (vitamin -c) Volumetric method using 2,6 dichlorophenolmethod, colorimetric determination of leucocyte ascorbate Collection of Specimens: (02L) Blood: Collection of Blood specimens, storage and preservation, Urine: Collection of Urine, physical characteristics of urea, preservation and storage, Faeces: Collection and preservation. Organ function test (2L) Liver function tests and kidney function test Vitamin B1 (thiamine determination by flurometry), Vitamin B2 (riboflavin, Photofluorometric method), Vitamin B6 (Pyidoxine, Fluorometric method), Vitamin B6 (Pyidoxine, Fluorometric determination of Xanthuric acid), Nicotinic acid and Niacin: determination by fluorometry, Ascorbic acid (vitamin -c) Volumetric method using 2,6 dichlorophenolmethod, colorimetric determination of leucocyte ascorbate Collection of Specimens: (02L) Blood: Collection of Blood specimens, storage and preservation, Urine: Collection of Urine, physical characteristics of urea, preservation and storage, Faeces: Collection and preservation. Organ function test (2L) Liver function tests and kidney function test			- 11		•				
Collection of Specimens: (02L) Blood: Collection of Blood specimens, storage and preservation, Urine: Collection of Urine, physical characteristics of urea, preservation and storage,Faeces:Collection and preservation. Organ function test (2L) Liver function tests and kidney function test Collection of Specimens: (02L) Blood: Collection of Blood specimens, storage and preservation, Urine: Collection of Urine, physical characteristics of urea, preservation and storage,Faeces:Collection and preservation. Organ function test (2L) Liver function tests and kidney function test		3&4		4	Vitamin B1 (thiamine determination by flurometry), Vitamin B2 (riboflavin, Photofluorometric method), Vitamin B6 (Pyidoxine, Fluorometric determination of Xanthuric acid), Nicotinic acid and Niacin: determination by fluorometry, Ascorbic acid (vitamin -c) Volumetric method using 2,6 dichlorophenolmethod, colorimetric	4	Vitamin B1 (thiamine determination by flurometry), Vitamin B2 (riboflavin, Photofluorometric method), Vitamin B6 (Pyidoxine, Fluorometric determination of Xanthuric acid), Nicotinic acid and Niacin: determination by fluorometry, Ascorbic acid (vitamin -c) Volumetric method using 2,6 dichlorophenolmethod, colorimetric		
Blood: Collection of Blood specimens, storage and preservation, Urine: Collection of Urine, physical characteristics of urea, preservation and storage, Faeces: Collection and preservation. Organ function test (2L) Liver function tests and kidney function test Blood: Collection of Blood specimens, storage and preservation, Urine: Collection of Urine, physical characteristics of urea, preservation and storage, Faeces: Collection and preservation. Organ function test (2L) Liver function tests and kidney function test	1				determination of fedeocyte ascorbate	-		Nil	
		1&2	12	4	Blood: Collection of Blood specimens, storage and preservation, Urine: Collection of Urine, physical characteristics of urea, preservation and storage, Faeces: Collection and preservation. Organ function test (2L) Liver function tests and kidney function	4	Blood: Collection of Blood specimens, storage and preservation, Urine: Collection of Urine, physical characteristics of urea, preservation and storage, Faeces: Collection and preservation. Organ function test (2L) Liver function tests and kidney function		

Feb 2020	1&2	12	4	Analysis of Blood and urine: (06L) Determination of blood and plasma glucose by glucose oxidase method, Determination of urine for glucose, Determination of ketone bodies in blood, OralGlucose tolerance test, Determination of serum creatinin, estimation of serum bilirubin, Estimation of serum cholesterol, determination of blood hemoglobin, Urate: determination of serum urate, Determination of urea in urine by urease method and by direct colorimetry, Estimation of Na. K, Ca by flame photometry, inorganic phosphate Determination of urea in urine by urease method and by directcolorimetryEstimation of Na, K, Ca by flame photometry, inorganic phosphate Immunoanalytical Techniques: (06 L) Radioimmunoassay, its principle and applications, instrumentation of the radioimmunoassay of insulin, Estrogen and progesterone, receptor technique	4	Analysis of Blood and urine: (06L) Determination of blood and plasma glucose by glucose oxidase method, Determination of urine for glucose, Determination of ketone bodies in blood, OralGlucose tolerance test, Determination of serum creatinin, estimation of serum cholesterol, determination of blood hemoglobin, Urate: determination of blood hemoglobin, Urate: determination of urea in urine by urease method and by direct colorimetry, Estimation of Na, K, Ca by flame photometry, inorganic phosphate Determination of urea in urine by urease method and by directcolorimetryEstimation of Na, K, Ca by flame photometry, inorganic phosphate Immunoanalytical Techniques: (06 L) Radioimmunoassay, its principle and applications, instrumentation for radio bioassay, clinical application of the radioimmunoassay of insulin, Estrogen and progesterone, receptor technique	Nil	
March	3&4	10		breast cancer Engrave linked			Nil	
2020	324	10	4	breast cancer. Enzyme- linked immunosorbent assay (ELISA), Types of ELISA, principles, practical aspects, applications.	4	breast cancer. Enzyme- linked immunosorbent assay (ELISA), Types of ELISA, principles, practical aspects, applications.	Nil	

The plan should be prepared in duplicate.
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. course 7 to 10 must be filled up progressively at the every week.

Signature of Teacher

Signature of Teacher

Signature of Teacher

Signature of Faculty In-charge Inches grade Science Faculty In-charge College, Inches progressively at the principal of th

Arts, Science and Commerce College, Indapur, Dist. Pune

TEACHING AND EVALUATION PLAN

Subject: Organic Chemistry Name of the teacher: Prof. Mane Pranjali Suryakant Paper: CHO-391 (Pharmaceutical Ananlysis) Year: 2019-2020 Class: M.Sc II Year Semester: 1

-	-		-	-		- 1 -
4	w	2	hand	No.	1	
Oct 2018	Sep 2018	Sep 2018	Aug 2018	Month	2	
1 &2	3 &	1&2	3 &	Week	3	
	11	12	12	No. of working days	4	Part I
4	4	4	4	No. of period s availa ble	5	Part I: Teaching Plan
Standardization and quality control of different raw materials and dosage form	0,	Sources of Impurities in pharmaceutical raw materials and finished products	Analysis of vegetable drug	Topics to be taught	6	ng Plan
4	6	4	6	No. of periods engaged	7	
Standardization and quality control of different raw materials and dosage form	Self life of pharmaceutical products	Sources of Impurities in pharmaceutical raw materials and finished products	Analysis of vegetable drug	Topics taught	8	Part II · Evaluation of Plan
	2	N ₁	2	Deviatio n in periods	9	an
	Extra lecture done on sunday		Extra lecture done on sunday	Remarks	10	

Signature of Teacher

Signature of Head of Department

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

Signature of Faculty In-charge

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

Asignature of the

PRINCIPAL

ARTS, SCIENCE AND
COLUMBIA
INDACONTRACTOR
INDACONTRACTO

TEACHING AND EVALUATION PLAN

Part I: Teaching Plan	raper: CHO-150 (Basic Organic Chemistry)	Subject: Organic Chemistry Paner: CHO 150 (n	Name of the teacher: Prof. Mane Pranjali Survakant
	Class: M.Sc I Year	Semester: I	

Modwade Signature of Teacher

Signature of Head of Department

Head

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

Signature of Faculty In-charge

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

charge Signature of the

PRINCIPAL
ARTS, SCIENCE AND
COMMERCE COLLEGE
INDAPUR-413106 DIST-PUNE

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

Subject: Organic Chemistry Paper: CHO-451(Organometallic Reagent in Organic Synthesis) Semester: IV Semester: IV Semester: IV	agent in Organic Synthesis) Class:	agent in Organic Synthesis) Class.
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•	3	•	Part I	Part I: Teaching Plan	g Plan		Part I	I : Evaluation o	Part II: Evaluation of Plan
<u> </u>	2	w	4	5	6	7		8	8 9
Sr.	Month	Week	No. of	No. of	Topics to be taught	No. of		Topics taught	D
No.			working	period	,			q	
			days	S		ds			periods
				availa		engag			•
				ble		ed			
	7))			Transition metal complexes in		Tra	Transition metal complexes in	ansition metal complexes in
	Dec 2020	ω 4 %	0	×	organic synthesis: Ligand and %	×	gro	organic synthesis: Ligand and %	anic synthesis: Ligand and %
									Nil
	January				C-C, C-N, C-O bond formation		Ģ	C-C, C-N, C-O bond formation	C, C-N, C-O bond formation
1	1707	100.2	12	×	reactions with catalytic cycle.	~	reac	reactions with catalytic cycle.	tions with catalytic cycle.
									Nil
	January	3 &			C=C bond formation reactions:		C=C	C=C bond formation reactions:	bond formation reactions:
L	2021	4		∞	Shapiro	8	Shapiro.	piro	Diro
	1	74-			Multi component reactions, Ring		Mul	Multi component reactions, Ring	ti component reactions, Ring
_	Feb	0		0	formation reactions, Click)	for	formation reactions, Click	reactions, Click
				4	Metathesis: ROM, RCM, OCM		<u>z</u>	Metathesis: ROM, RCM, OCM	stathesis: ROM, RCM, OCM
	January	3 &	5	S	Use of Boron and silicon reagent in		Ñ	Use of Boron and silicon reagent in	se of Boron and silicon reagent in
N	17071	4	12	~	organic synthesis.	~	orga	organic synthesis.	inic synthesis. Nil

Malwade

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

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

ARTS, SCIENCE AND COMMERCE COLLEGE INDAPUR-413 106 DIST. PUNE KUUAL Teacher name: Sachin D.Kharat Year: 2019-2020 Class: M.Sc. Org-II Semester I Paper: CHO-351: Spectroscopic Methods in Structure Determination

		Part	I : Teaching	Plan	Part II : Evaluation of Plan				
2	3	4	5	6	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 2019	3 & 4	11	7	1H NMR Spectroscopy	7	1H NMR Spectroscopy	Nil		
Aug 2019	1 &2	12	8	13C NMR spectroscopy	8	13C NMR spectroscopy	Nil		
Aug 2019	3 &4	12	6	2D NMR Techniques	6	2D NMR Techniques	Nil		
Sep 2019	1&2	12	8	Mass Spectrometry	6	Mass Spectrometry	Nil		
Sept 2019	1 & 2	12	8	Problems based on joint application of UV, IR, PMR, CMR, and Mass.	8	Problems based on joint application of UV, IR, PMR, CMR, and Mass.	Nil		
Oct	1 2 0 2	10	10	Problems based on joint application	16	Problems based on joint application of	4	Extra lectureswas conducted	
	July 2019 Aug 2019 Aug 2019 Sep 2019 Sept 2019	Month Week July 2019 3 & 4 Aug 2019 1 & 2 Aug 2019 3 & 4 Sep 2019 1 & 2 Sept 2019 1 & 2 Oct Oct	2 3 4	2 3 4 5 No. of working days No. of periods available	MonthWeekNo. of working daysNo. of periods availableTopics to be taughtJuly 20193 & 41171H NMR SpectroscopyAug 20191 & 212813C NMR spectroscopyAug 20193 & 41262D NMR TechniquesSep 20191 & 2128Mass SpectrometrySept 20191 & 2128Problems based on joint application of UV, IR, PMR, CMR, and Mass.OctProblems based on joint application	2 3 4 5 6 7	2 3 4 5 6 7 8	2 3 4 5 6 7 8 9	

1 The plan should be prepared in duplicate.

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(3)V

Signature of Teacher

Signature of Head of Department

Signature of Faculty In-charge

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

Signature of the Principal PRINCIPAL

ARTS, SCIENCE AND COMMERCE COLLEGE INDAPUR-413106 DIST-PUNE

TEACHING AND EVALUATION PLAN

Name of the teacher: Prof. Yogesh Vilas Zagade

Semester: 1

Year: 2019-20

Subject: Organic Stereochemistry and Asymmetric synthesis

Paper: CHO-352

Class: M.Sc.- II

Part I: Teaching Plan						Part II : Evaluation of Plan				
1	2	3	4	5	6	7	The state of the s	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	Oct 2019	1&2	10	8	Confirmation of polysubstituted cyclohexane	8	Confirmation of polysubstituted cyclohexane	Nil		
2	Oct 2019	3 & 4	12	10	Stereochemistry of fused and Bridged ring system	10	Stereochemistry of fused and Bridged ring system	Nil		
3	Nov 2019	1 & 2	13	7	Determination of configuration by cams rule and Different model	9	Determination of configuration by cams rule and Different model	2	Extra lecture was conducted on sunday	
4	Nov 2019	3&4	11	8	ASymmetric synthesis chiral pool strategy	8	ASymmetric synthesis chiral pool strategy	Nil		
5	Dec 2019	1&2	12	8	Asymmetric organic catalysis to a Asymmetric hydrogenations	8	Asymmetric organic catalysis to a Asymmetric hydrogenations	Nil		

Semester II

Paper: IV CHO- 453 Designing Organic Synthesis

Year: 2019-20

1	7 1	3	ran	1 : Teaching	Plan	Part II : Evaluation of Plan				
Sr.	Month	Week	4	5	6	7	8	9	10	
No.	Wond	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 2019	4	6	2	Basic Concepts in Retrosynthesis	2	Basic Concepts in Retrosynthesis	Nil		
2	Jan 2020	1 & 2	12	5	Protection , Deprotection in Organic Synthesis	5	Protection , Deprotection in Organic Synthesis	3	Extra lecture was conducted	
3	Jan2020	3 & 4	12	8	Umploung of Reactivity	9	Umploung of Reactivity	1	Extra lecture was conducted	
4	Feb 2020	1 & 2	12	8	Retrosynthesis of different functional group	9	Retrosynthesis of different functional group	1	lecture was	
					distribution of the second					
5	Feb 2020	3 & 4	12	6	Linear and Convergent synthesis	6	Linear and Convergent synthesis	nil	at was h	

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 at the end of every week.

Signature of Teacher

Signature of Head of Department

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

Signature of Faculty In-charge

incharge Science Faculty Science & Commerce