Teacher's Name -Dr. Ram Sunil Kumat L. Department - Chemistry

A. Teaching Plan (Year : 2020- 2021, Semester: Odd)

S. No.	UPC	Paper Name	Core/AE CC/GE/S EC	Topic/Unit	Start Date	End Date
1.		CHEMISTRY- DSE Green Chemistry	DSE	 Introduction Green synthesis and 12 Green Principles Green Synthesis of the following compounds: adipic acid, catechol, DSIDA plastic (poly lactic acid) made from corn Ultrasound assisted reactions Environmentally safe marine antifoulant Cradle to Cradle Carpeting Proposed Test Surfactants for Carbon Dioxide Right-fit pigment Healthier Fats and oil by Green Chemistry Microwave assisted reactions in water: Hofmann Elimination, methyl benzoate tobenzoic acid, oxidation of toluene and alcohols 	10/8/2020 17/8/2020 24/8/2020 31/8/2020 7/9/2020 21/9/2020 28/9/2020 05/10/2020 12/10/2020 26/10/2020 02/11/2020 09/11/2020	

			14. microwave assisted reactions in organic	16/11/2010
			solvents Diels-Alder reaction and Decarboxylation	
			reaction	23/11/2020
			15. Revision	30/11/2020
			16. Proposed Test	50/11/2020
2.	CHEMISTRY-	DSE	CHEMISTRY PRACTICAL - DSE LAB: GREEN	
	DSE Green Chemistry		CHEMISTRY 60 Lectures	
			1. Introduction to Green Chemistry	17/08/2020
			2. Limiting reagents	24/08/2020
			3. Extraction of D-limonene from orange peel	31/08/2020
			using liquid CO2 prepared from dry ice.	07.00.2020
			4. Biodiesel	07.09.2020
			5. Mechanochemical solvent free synthesis of	14.09.2020
			azomethines	
			6. Use of enzymes as catalysts Benzoin	21.09.2020
			condensation using Thiamine Hydrochloride as	
			a catalyst	
			7. Photoreduction of benzophenone to	28.09.2020
			benzopinacol in the presence of sunlight.	05.10.2020
			 8. Aluminium complex 9. Solvent free, microwave assisted one pot 	
			9. Solvent free, incrowave assisted one pot synthesis of phthalocyanine complex of copper	12.10.2020
			(II).	
			10. Practical file and other assignments	19.10.2020
			10. I fuellear file and outer assignments	

		11. Meeting with Parents	26.10.2020	
		12. Safer starting materials Preparation and characterization of nano particles of gold using	2/11/2020	
		 tea leaves. 13. Avoiding waste Principle of atom economy. Use of molecular model kit to stimulate the reaction to investigate how the atom economy can illustrate Green Chemistry. 	9.11.2020	
3a.	BSc Prog Life Sciences Sem III	 Classification, and general properties Glucose and fructose (open chain and cyclic structure) Determination of configuration of monosaccharide Absolute configuration of glucose and fructose Mutarotation Ascending and descending in monosaccharides Structure of disaccharides (sucrose, cellobiose, maltose, lactose) Polysaccharides (starch and cellulose) excluding their structure elucidation. 	13/08/2020	01/10/2020
3b.	BSc Prog Life Sciences Sem III	 Zwitterion, isoelectric point and electrophoresis Preparation of amino acids: a. Strecker synthesis b.Gabriel's phthalimide synthesis Reactions of amino acids:	8/10/2020	19/10/2010

3c.		BSc Prog Life Sciences Sem III		 5. Determination of primary structure of peptides by degradation Edmann degradation (N- terminal) and C- terminal (thiohydantoin 6. With carboxypeptidase enzyme). 7. Synthesis of simple peptides (upto dipeptides) by N-protection (t-butyloxycarbonyl and phthaloyl) 8. C- activating groups 9. Merrifield solidphase synthesis. Carboxylic Acids derivatives, Amines and derivatives 	05/11/2010	26/11/2010
4.	32171302	Organic Chemistry II: Oxygen Containing Functional Groups	Core	 1. Organic Preparations: (a)Benzoylation of aniline (b) Acetylation of Aniline (c) Acetylation of Aniline (d) Hydrolysis of Ester (e) Hydrolysis of Amide (f) Partial reduction of <i>m</i>-dinitrobenzene (g) Semi carbazone Preparation (h) Preparation of <i>S</i>-Benzylthiouronium salt of water-soluble carboxylic acid (i) Preparation of <i>S</i>-Benzylthiouronium salt of water insoluble carboxylic acid 2. Functional group tests for alcohols, phenols, carbonyl and carboxylic acid group 	26.08.2020 02.09.2020 09.09.2020 23.09.2020 30.09.2020 07.10.2020 21.10.2020 28.10.2020 04.11.2020 11.11.2020	
5.		GE sem III		Practicals	11 th Sep 2020	28 th Nov 2020
6.	-	BSc Prog Physical Sciences Sem I	Core	Organic Chemistry	18 th Nov 2020	March 2020

B. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Teachers

Event T	opic	FDP on ICT Tools					
Type / N	Nature (FDP/Webinar/Workshop etc.)	FDP					
Organizing In-charge		Dr Anshu					
Details 1	Details regarding invited Resource Person		24.07.2020 to 30.07.2020				
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Participant					
Date/s	24.07.2020 to 30.07.2020	Timing/s	9am -5 pm	1	Mode	Online	

B. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Teachers

Event T	opic	Non -Invasive Cancer Diagnosis and Prognosis"				
Type / N	Vature (FDP/Webinar/Workshop etc.)	Webinar				
Organizing In-charge		Dr PreetiKarwal				
Details 1	Details regarding invited Resource Person		-			
Nature of Participation (e.g. Invited Speaker, Participant etc.)		Participant				
Date/s	17.10.2020	Timing/s	5-7 pm	Mode	Online	

B. Internal Assessment: House Exam (Test/Presentation etc.)&Assignment*

Course Code	Course Name	Unique Paper Code	Topic Name	Day and Date	Date/s of Exhibiting the Assessment Sheet to students, Discussing the marks, Returning/Retaining
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1.	BSc (H) Chem V Sem	Green Chemistry	Last week of Nov 2020	Next Week after the test
2.	BSc (P) LS	Carbohydrates, Proteins, Carboxylic acids, Amines	Last week of Nov 2020	Next Week after the test
3.	GE Sem III	Practicals	Last week of Nov 2020	Next Week after the test
4.	BSc (H) Chem III Sem	Practical	Last week of Nov 2020	Next Week after the test
5.	BSc (H) Chem V Sem Practical	Green Chemistry Practicals	Last week of Nov 2020	Next Week after the test
6.	BSc Prog Physical Sciences Sem I	Organic Chemistry	First week of March 2021	Next Week after the test

*Marks of the Internal Assessment to be submitted to the College 15 days before the last working day of every semester

C. Organization of Department/College Society Meetings by Staff Advisor/Convener

Department/Society	Meeting Date	Purpose

D. College Functions

College Function	Function Date	Role to be played

For Departments

A. Department activities for students - Election/Freshers/Welcome/Farewell/Department Seminars/Society functions

Event	Date	Timing	Venue	Event In-charge / Supervisor
Department Election				
Fresher's Welcome				
Farewell				
Department Society functions				
Department Seminars				
Any Other ()				

B. Outstation Field Visit for Students

Project Name / Paper Name			
Destination		Travel Mode	
Departure Month		Return	
Faculty-in-Charge		Number of Students going	

C. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Department

Event Topic	
Type / Nature (FDP/Webinar/Workshop etc.)	
Organizing In-charge	
Details regarding invited Resource Person	

Nature of Participation (e.g. Invited Speaker, Participant etc.)			
Date/s	Timing/s	Mode	