

SGK Government Degree College, Vinukonda													
Semester Wise Curricular Plan :2024-25													
Name of the Lecturer: Valaparla Bala Yesu								Name of the Department: CHEMISTRY					
Class: BSc			Year: III					Paper: 7D Green Chemistry & Nano Technology					
Month	We ek	Hours available	Syllabus topic	Addition al Input/ Value Addition Provided	Curricular Activity				Co-curricular Activity				Remarks
					Activity Proposed	Hours allotted	Whether conducted	If not, alternate date	Activity Proposed	Hours allotted	Whether conducted	If not, alternat e date	
Jul-24	1	4(Theory)	Introduction, Need, Basic Principles and Goals of Green Chemistry		ICT enabled Teaching	4			Assignment	1			
		2(Lab)	Identification of Various Equipment in the Laboratory		Demonstration	2							
	2	2(Theory)	Green Synthesis - Rearrangements, Addition Reactions with 100 % atom economy		Teaching	2							
		2(Lab)	Identification of Various Equipment in the Laboratory - Assignment Organic Reactions by Sonication Method		Demonstration	1			Viva-voce	2			
	3	4(Theory)	Selection of Solvent - Aqueous Phase, Ionic Liquids and its Reactions - Heck, Suzuki & Epoxidation		ICT enabled Teaching	4							
		2(Lab)	Acetylation of Primary amine by Green Method - Demonstration		Demonstration	2							
	4	4(Theory)	Selection of Solvent - Solid Supported Synthesis, Super Critical CO ₂ - Preparation & Applications		ICT enabled Teaching	3			Student Seminar	1			
		2(Lab)	Acetylation of Primary amine by Green Method - Practical		Demonstration	1							

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Aug-24	1	4(Theory)	Green Energy & Sustainability Microwave and Ultrasound Assisted Green Synthesis Anthroquinones, Leukart reductive amination of ketones		ICT enabled Teaching	4			Assignment	1			
		2(Lab)	Benzil - Benzilic Acid Rearrangements - Demonstration		Demonstrat ion	2							
	2	4(Theory)	Advantages & Disadvantages of Microwave Assisted Organic Synthesis		Teaching	4							
		2(Lab)	Benzil - Benzilic Acid Rearrangements - Practical		Demonstrat ion	1			Viva voce	2			
	4	4(Theory)	Aldol Condensation, Cannizzaro, Diels- Alder and Strecker Synthesis Heterogenous Catalysis Zeolites, Silica supported Catalysis		Teaching	3			Field visit	2			
		2(Lab)	Green Oxidation Reaction - Synthesis of Adipic acid - Demo		Demonstrat ion	2							
	5	4(Theory)	Alumina supported Catalysis - Bio Catalysis; Enzymes, Microbes Phase transfer catalysis		Teaching	4							
		2(Lab)	Green Oxidation Reaction - Synthesis of Adipic acid - Practical			1							

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Sep-24	1	2(Theory)	Microbes Phase transfer catalysis Adipic acid and Catechol Synthesis		ICT enabled Teaching	1			Assignment				
		2(Lab)	Preparation and Characterization of Biodiesel from Vegetable Oil - Demo		Demonstrat ion	2							
	2	4(Theory)	Disodium menudo acetate Hoffmann Elimination, Methylbenzoate to Benzoic acid		Teaching	4							
		2(Lab)	Preparation and Characterization of Biodiesel from Vegetable Oil - Lab		Demonstrat ion	1							
	3	4(Theory)	Oxidation of toluene and alchols of MAOS - Diels Alder and Decarboxylation, Simmons Smith by Sonication Method		Teaching	3			Student Seminar	1			
		2(Lab)	Preparation and Characterization of Nano Particles of Gold using Tea Gel - Demonstration		Demonstrat ion	2							
	4	4(Theory)	Nano Science & Nano Technology, Synthesis, Classification Properties and Applications of Nano particles		ICT enabled Teaching	1			Student Seminar	1			
		2(Lab)	Preparation and Characterization of Nano Particles of Gold using Tea Gel - Practical		Demonstrat ion	1							

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Oct-24	1	4(Theory)	Chemical & Physical Properties of Nano particles Precipitation and Co-Precipitation method and Sol-Gel Method		ICT enabled Teaching	2			Student Seminar	1			
		2(Lab)	One Experiment for Pre - Practical Exam		Demonstration	1							
	2	4(Theory)	Co-Precipitation method and Sol-Gel Method		ICT enabled Teaching	2			Assignment	1			
		2(Lab)	Second Experiment for Pre - Practical Exam		Demonstration	1							

Signature of the Lecturer

Signature of the Principal