# DEPARTMENT OF CHEMISTRY

"IMPORTANCE OF GREEN CHEMISTRY"



2022-2023
GOVERNMENT DEGREE COLLEGE
PALAKONDA



PARVATHIPURAM MANYAM DISTRICT

Dr.A.Srinivasa Rao
COURSECOORDINATOR

Dr.G.Janardhana Naidu PRINCIPAL

# **DEPARTMENT OF CHEMISTRY**

# CERRTIFICATE COURSE ON Importance of Green Chemistry 2022-2023



# GOVERNMENT DEGREE COLLEGE PALAKONDA



# PARVATHIPURAM MANYAM DISTRICT

Dr. A. Srinivasa Rao
COURSE COORDINATOR

Dr.G.Janardhana Naidu
PRINCIPAL

# GOVERNMENT DEGREE COLLEGE- PALAKONDA DEPARTMENT OF CHEMISTRY

\_\_\_\_\_

Palakonda, Date:20/03/2023

To
The Principal,
Govt. Degree College,
Palakonda,
Parvathipuram Manyam District

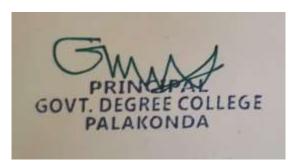
Respected sir,

We, the faculty members of Department of Chemistry submit your notice that we would like to conduct a Certificate course on "Importance of Green Chemistry" for B.Sc. students with the duration of 30 hr's

Hence we humbly request you to accord permission to initiate the certificate course in our department.

Thanking you sir,

Approved



Yours faithfully,

A. Sviniva Amo

# GOVERNMENT DEGREE COLLEGE-PALAKONDA DEPARTMENT OF CHEMISTRY

.....

### **CIRCULAR**

Date:21/03/2023

The Department of Chemistry is planning to conduct a certificate course on Importance of Green Chemistry" for B.Sc. students. Hence the interested candidates are advised to meet the In-charge or other faculty members of Department of Chemistry.

Participation/merit certificate will be issued to individual after completion of the course.

A. Svinira Ano

Lecturer in-charge Department of Chemistry PRINCIPAL GOVT. DEGREE COLLEGE PALAKONDA

> Principal GDC, Palakonda

23-03-2023

The Department of Chemistry is planning to Conduct a Certificate course on "Importance of Green Chemistry" for B.Sc. Students in the month of April-2023, duration of 30 days, Participation / Merit Certificate will be issued after the successful completion of the Course. Interested candidates are advised to enroll/register your name in the Department of Chemistry from 27-03-2027 on-words.

Lecturar- in- Charge

Department of Chemistry

Parvathipuram Manyam Dist.

Circulated to:

1. I B.SZ : MPC AK

2. I B. Sc : CO2 M Programs
3. II B. Sc : CB2 of Taingth
5. II B. Sc : MPC All

6. II B. E. : CB2 P. upenh

		REGISTRATION												
-	5.No	NAME OF THE STUDENT	COURSE YEAR/ COURSE/GROUP	DATE OF REPISTRATION	SIGN OF THE STURENT									
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dang Bre (CBF)	- 11	v. manjula									
	1	Vanjarapu monjula	en ha 1	27/03/2023	G. Deerika									
		Grundilli Deepika	BSc (CB#)	27/03/2023	G. Warran									
-	3	Sasubilli Haritha	Day Buccos	27/03/2025	8. Hanitha R. Sivamani									
	4		(412) 38 BELL											
	5		1200 D2C (CB.)	27/03/2023	The second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a section in the second section in the section is a section in the section in the section in the section is a section in the section in the section in the section in the section is a section in the									
1	6	Balivada sozavanthi	TITE BEC (MEC)		B. Stavanthi									
	7	Bukwiu. Lavanya	Day Brc (who)		B. Lavanya									
	8	malararapy. Torivene	May Br (wb)		m Toweri									
1	9	ReJipunamy. Soning	Day Bec (who)		B. Grenu									
1		Allubin lokesh	III and Bec (who		A. Lokesh									
	11	peddinti Vecsiana	Third B. sc(cb2)		p. vecnana									
1	12.	koppelesa. Mahesh	III BSc (MPC)											
	13.	Palepu Dilleswari	IU 19 BS (MPO)	28/3/2023	P. Dhilleswari									
A	14.	Laveti Janardhana Rao	TOY'd Bise (MPE)	28/3/2023	L. Janar dhana Ras									
		Kaory. Anil	IIH BSC (CB.7)	28/3/2023	ik Aril									
1	16.	Turmola Polli. Thanoderal	ao Indesc(CBZ	28/3/2023.	T Phousodore Ras									
	7	Bevara Ganapadhi			B. Ganapathi									
		P. Gangaraju			P. Gangaraju									
		V. Mourika	And BSC (BZC)	28/3)2023	V. Mounika									
		Sangeetha. Mwapaka												
I	21.	Pieta Muxaxi	18t B. SC(M.P.C	129/3/2023	p. murare.									
1		301a Harsha Vardhan			D-Hood grooder									
T	23	Potala. Ankitha	Ist BSC (MPC)		P. Ankitha									
1	24	Mangio Powrisankar	Int BSc (MPC)	29/3/2023	1 Gowieankar									
	1		Ind BSC (MPC)	29/3/2023										
1	Contract to the last	Allu-Aswini	Ind B.SC[M.P.C]	The second secon										
1		Vaidu Madhavi												
	7	Ragolu Bhavani	II'MBISC/MPIC)	29/3/2023	- Contraction									
1	8'	Simhadri Mishalakshi	Ind B.Sc (M.P.C)	29/3/2023	3. Visha lakshi									
1	1			CARD BAR										

00	1153			W							6							0			
36						1	سينت	-	-	17 10			SI.							IV.	Make: In
SNO REGO- NO. NOME SE THE STUDENT	class	11	82 0	3 04 \$5	100	02 45	(10)	0 11	12	3 14	15 1	13	18	1.20	21 2	193	21 25	24	57 28	29 32	A DECEMBER
" cyeriacoo I Alla - Asvini	Inter	P	00	0 8	9	10	PI	PP	P	P	91	P	PI	V	PP	P	11	۵	r P	PP	27
2. CHEMGCOO2 Alubili lakeah	TIMPL	P	PR	20		0 p	111		t	18	11	1	P	ally	9 8	1	11	1	11	PP	28
3. CHEMICCOS Balivada-Sravanthi	II HPC	P	99	PE	1	00	P	1		9	11	P	P	P	PF	P	PF	0	7 1	8 8	28
4. CHEMBICOOY Bevara Ganapothi	I 182	P	9 8	aP	7	10	191	1	P	1 8	0 1	P	0	1	PF	1	PP	1	9.1	PP	28
5' CREMEROOS Bakkuru-Lavonya	III HE	8	PP			99			P	_	7 1	P		1 1		-			Pa		29
6. CHEMECOOF Dela-Havehaverdhan	IMPE	P	PP	ap	1			1	P	P									11		27
F CHEFTIGE DO F Gerrahilli Despiko	TV (82	P	PP	PP	P		1100	SHEET	P												29
8 chengeood Bejjouropu. Stina.	TIME	P	PP	00	f		191				00			71111111	*****			-	- Condition	-	27
9 CHEMGEOOP Karu-Anil	II (8+	P	PP	PP	P	PP													01		28
10 CHEMICO10 Koppileso-Moheah	THE	1	ap	PP													107-007-0	ALC: U.S.	5000	PP	A CONTRACTOR
" CHERGOOI Mallowrapy Triveni	TEMPE	P	PP	-	-	Pa								PP	-		-			10	28
D. CHEMECOLZ Majji - Stavani	I (bt	P	-	PP	Sec.	- 10040			_	_	-		200	u Food	-	200	910	philip.	1 100	PP	29
13 CHERIGEO13 Hangi-Gowinsanker	THE	1	PP	08	1000	1	08		Section 1	ST. 12	11		-	PP			11		9 9	200	22
M. CHEMOCOLY Love Ti-Jonan hone Ros	TEMPE	91	0	PP	90	1000	The same	-	-	-	9 9		-	-	-		Don't	-	-112	0 9	29
15 Chengeous Naidu-Hadhavi	Itte	-	100	PP	-	- HORSE	-	-	-		PI	-	-			-	-	-117-04	in the same	r	121
16 CHEHGCOIS Palepu-Dhilliasoni	TINK	-	9		P	_		-		1000	PP	-	N-Marie	elector)	Service:	retrieve.			11	1	27
17 CHEMOCOIF Peddinti-Vernora	III (82	-	e la	PP	1	-		-	-	2 P	311	-	1000	PP	12 600	0111	-	-	9 1	PI	28
18 Ovenscore Pitto-Murori	INPC	<del>(11)</del>	11111	0 9	1	=	-	100		1	THE P		-	-		THE	1	8	PP	PI	29
19. CHEMIGCO19 Potala-Anktha 1	IHK	-	1	99	P	-	PIF	-	-	PP	PP	400	33.0	0		P	THO !	1	af	91	20
20 CHEHINGERS P. Giogra Taja	208 <del>2</del>	-	100	PP	9	18			3000	1 1957	11		-	-			100	2412		21	24
21 CHEMICO21 Regula-Bhavani	I THE	Name of Street	P	400	P	- INCOME.	-	S 2010	Section 100	P	PP									0	28
22 CHEMIGEORE RUTHER SCHOMORI	III (62	<b>*****</b>	of the last	0 8	1	10	PF	P	P	PP	91	ш		P		-	100	100		1	9 28
23 CHEMOLOZZ Songerthe Huropaka	I (82	1	P	PP	1	99	PF	P	P	P	PP	a	P	PP	11	P	91	1	PF	P	P 29
24 CHEMICOZY Salukli: Haritho	SI (82	1 1	P	PP		Pa	PF	P	P	9	PP	1	1	PP	PI	P	1	PP	8 8	a	P 28
25 OTEMBICORS Simbooki · Vichalakahi	THPC	9 8	P	01		P	PP	P	P	9 8	PP	P	P	P	PP	1	PI	P	11	P	P 28
26 CHEMICOLL Tumine lapell - Demodera Bot	1-16	11	P	01	P	20	11	9	PI	3 9	91	1	f	PP	PF	P	11	19	11	P	P 28
17 CHEMICO27 V. Mounika	I(8 ± 1	1 0	P	PP		P	PF	P	P	00	8 8	P	P	PP	1	Pa	PF	P	Pf	P	1 28
28 CREMISCO28 Variagelli Marjala		0.00	0.00	PPI		PP	PP	P	PI	o a	0 9	P	P	P	Pf	9	P	PH	PH	P	P 27
tanaham salata				1		I		-							4	1					

# INTRODUCTION:

Green chemistry is the branch of chemistry that deals with the design and optimization of processes and products in order to lower, or remove altogether, the production and use of toxic substances. Green chemistry is not the same as environmental chemistry. It applies across the life cycle of a chemical product, including its design, manufacture, use, and ultimate disposal.

The role of chemistry is essential in ensuring that our next generation of chemicals, materials, and energy is more sustainable than the current generation. Worldwide demand for environmentally friendly chemical processes and products requires the development of novel and cost-effective approaches to pollution prevention. One of the most attractive concepts in chemistry for sustainability is Green Chemistry,

### **OBJECTIVIES:**

- 1. Prevents pollution at the molecular level.
- Applies innovative scientific solutions to real-world environmental problems.
- Results in source reduction because it prevents the generation of pollution.
- 4 Reduces the negative impacts of chemical products and processes on human health and the environment.

# **Question paper**

- 1. Write the following questions with suitable examples. (4X5 = 20 M)
- a) Write the Principles of Green Chemistry
- b) Explain the major advantages of inclusion of Green technology in the regular life?
- c) Explain any organic reaction, how you can achieve the green ideology in the particular reaction?
- d) Explain the major differences between conventional reactions & Green reactions?

