

A.G. & S.G. Siddhartha Degree College of Arts & Science

Vuyyuru-521165, Krishna District, Andhra Pradesh

(Managed by: Siddhartha Academy of General & Technical Education, Vijayawada-10)

An Autonomous College in the Jurisdiction of Krishna University

Accredited by NAAC with "A" Grade



DEPARTMENT OF CHEMISTRY

Value Added Course

Title: "GREEN CHEMISTRY"

Name of the Lecturer : G.GIRI PRASAD

Class : I MPC(E)

Duration of the Course : Thirty Days

VAC Code : CHEV401



**AdusumilliGopalakrishnaiah& Sugarcane Growers
Siddhartha Degree College of Arts and Science**

Autonomous College

NAAC 'A' Grade College

Vuyyuru, Krishna (Dt),Andhra Pradesh-521165

VALUE ADDED COURSE

TITLE: GREEN CHEMISTRY

VAC CODE: CHEV401

On 1st AUG, 2021 TO 30th AUG 2021

Duration of the Course: 30Days

Organized By

Department of Chemistry



Title: "GREEN CHEMISTRY"

Objectives:

- Introduction to Green Chemistry
- Basic principles of green chemist
- Goals of Green chemistry
- Atom Economy reactions.
- 1) Cycloaddition reactions or Diels-alder Reactions
- Sonochemical reactions(Heck, Hund's dicker, and Wittig reactions).
- Theory of sonochemistry and Sonochemical Reactions

Methodology :

Teaching and Learning Methods

Duration: 30 Days

A.G. & S.G. Siddhartha Degree College of Arts & Science
Vuyyuru-521165, Krishna District, Andhra Pradesh

Value Added Course

Title: "GREEN CHEMISTRY"

Date: 01/08/2021 TO 30/08/21

Date	Content	Module No
03/08/2021 TO 08/08/2021	Introduction and Basic principles of Green chemistry	I
10/08/2021 TO 14/08/2021	Atom economy and atom efficiency	II
17/08/2021 TO 22/08/2021	Sonochemical reactions(Heck, Hund's dicker, and Wittig reactions).	III
24/08/2021 TO 29/08/2021	Sonication method&Sonochemistry Equipment	IV

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Value added Course

GREEN CHEMISTRY

Student Enrolment Sheet

Class: I B.Sc (MPC)

S. No	Roll No.	Name of the Student	Signature
1	2031401	R. Nandini	R. Nandini
2	2031402	G.Bala amresh	G. Bala amresh
3	2031403	K.Sudheer	K. Sudheer
4	2031404	V.Supriya	V. Supriya
5	2031405	K.Kalpna	K. Kalpna
6	2031406	CH.L.Poornima	CH. L. Poornima
7	2031407	M.Maheswari	M. Maheswari
8	2031408	SD.Maimunnisa	SD. Maimunnisa
9	2031409	E.Alekhyia	E. Alekhyia
10	2031410	J.Priyanka	J. Priyanka
11	2031411	K.Bhargavi	K. Bhargavi
12	2031412	SK.Naziya sulthana	SK. Naziya sulthana
13	2031413	M.Akhil	M. Akhil
14	2031414	M.Pavan sai	M. Pavan Sai.
15	2031415	V.Arjun	V. Arjun

J. Nagaraj
Sig: Lecturer

R. Kumar
Sig: H.O.D

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Value Added Course

Title: "GREEN CHEMISTRY"

Test Exercise:

1. Which of the following is a greener route to produce ethanal commercially----
2. Name the conventional solvent that was used for dry cleaning purposes which later confirmed to be a suspected carcinogen-----
3. Which of the following is not a principle of Green Chemistry-----
4. Green chemistry is the design of chemical products and processes that reduce or eliminate the use and generation of hazardous substances. Identify the technique used in this area.-----
5. Which of the following gas was traditionally used to bleach paper-----
6. Replacement of liquid CO₂ by halogenated solvent will result in less harm to groundwater.-----
7. Which of the following is a green solvent used for bleaching clothes?
8. Identify the non-toxic and green solvent-----
9. Green chemistry is also called as _____
10. An ideal solvent facilitates the _____

Value Added Course

Title: "GREEN CHEMISTRY"

Key:

- 1.Oxidation of ethene with an ionic catalyst
- 2.Tetrachloroethene.
- 3.Hazardous chemical synthesis
- 4.Use of sunlight and Microwave-assisted reaction
- 5.Chlorine
- 6.True(or) **False**
- 7.Hydrogen peroxide
8. Liquified carbondioxide
- 9.Sustainable chemistry
- 10.Mass transfer

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Department of Chemistry

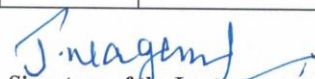
Value added Course

Title: "GREEN CHEMISTRY"

Marks List

Class: I B.Sc (MPC EM)

S. No	Roll No.	Name of the Student	Marks
1	2031401	R. Nandini	10
2	2031402	G.Bala amaresh	8
3	2031403	K.Sudheer	7
4	2031404	V.Supriya	10
5	2031405	K.Kalpana	8
6	2031406	CH.L.Poornima	10
7	2031407	M.Maheswari	10
8	2031408	SD.Maimunnisa	10
9	2031409	E.Alekhya	10
10	2031410	J.Priyanka.	9
11	2031411	K.Bhargavi	9
12	2031412	SK.Naziya sulthana	9
13	2031413	M.Akhil	10
14	2031414	M.Pavan sai	8
15	2031415	V.Arjun	8


Signature of the Lecturer


Signature of the H.O.D

A.G. & S.G. Siddhartha Degree College of Arts & Science
Vuyyuru-521165, Krishna District, Andhra Pradesh

Department of Chemistry

Value Added Course

Title: "GREEN CHEMISTRY"

Feed Back Form

Name of the Student: M. Pavan Sai.

Class and Roll Number: Ist MPC, 20 - 414.

1. Is the programme interested to you (Yes/No) ✓
2. Have you attended all the session (Yes/No) ✓
3. Is the content of the program is adequate (Yes/No) ✓
4. Have the teacher covered the entire syllabus? (Yes/No) ✓
5. Is the number of hours adequate? (Yes/No) ✓
6. Do you have any suggestions for enhancing or reducing the number of weeks designed for the program? (Yes/No) ✓
7. On the whole, is the program useful in terms of enriching your knowledge? (Yes/No) ✓
8. Do you have any suggestions on the program? (Yes/No) ✓

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Department of Chemistry

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Title: "GREEN CHEMISTRY"

Feed Back Form

Name of the Student: V. Arjun

Class and Roll Number: 1st M.P.C 20-415

1. Is the programme interested to you (Yes/No)
2. Have you attended all the session (Yes/No)
3. Is the content of the program is adequate (Yes/No)
4. Have the teacher covered the entire syllabus? (Yes/No)
5. Is the number of hours adequate? (Yes/No)
6. Do you have any suggestions for enhancing or reducing the (Yes/No) number of weeks designed for the program?
7. On the whole, is the program useful in terms of enriching your knowledge? (Yes/No)
8. Do you have any suggestions on the program? (Yes/No)

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Value Added Course

- Attendance Register

Class / Section: MPC E.M

Year : 2020-21

Department of: Chemistry

Paper:

Lecturer: J.Nageswara Rao

Sl.No	Roll No	Student Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total
1	2031401	R.Nandini	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	13
2	2031402	G.Bala amaresh	P	P	P	P	P	A	P	P	P	P	P	A	A	P	P	12
3	2031403	K.Sudheer	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	13
4	2031404	V.Supriya	P	P	P	A	P	P	P	A	P	P	P	P	P	P	A	12
5	2031405	K.Kalpna	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	13
6	2031406	CH.L. Poornima	P	P	A	P	P	P	A	P	P	P	P	P	P	A	P	12
7	2031407	M. Maheswari	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	13
8	2031408	SD. Maimunnisa	P	A	P	P	P	P	A	P	P	P	P	P	P	P	A	12
9	2031409	E. Alekhya	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	13
10	2031410	J.Priyanka	P	P	A	P	P	P	A	P	P	P	A	P	P	P	P	12
11	2031411	K. Bhargavi	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	13
12	2031412	Sk. Naziya Sulthana	P	A	P	P	P	P	P	A	P	P	A	P	P	P	P	12
13	2031413	M. Akhil	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	13
14	2031414	M. Pavan Sai	A	P	A	P	P	P	P	P	P	P	A	P	P	P	P	12
15	2031415	V. Arjun	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	13

J. Nageswara Rao
Signature of the Lecturer

K. Ramesh
Signature of the HOD

A.G. & S.G. Siddhartha Degree College of Arts & Science

Vuyyuru-521165, Krishna District, Andhra Pradesh

Value Added Course - Attendance Register

Class / Section: **MPC E.M**

Year : **2020-21**

Department of: **Chemistry**

Paper:

Lecturer: **J.Nageswara Rao**

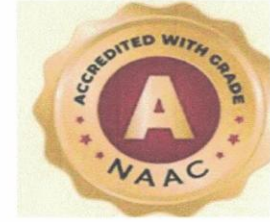
Sl.No	Roll No	Student Name	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total
1	2013401	R. Nandini	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	13
2	2013402	G. Bala amresh	P	A	P	P	P	P	A	P	P	A	P	P	P	P	P	12
3	2013403	K. Sudheer	P	P	P	A	P	P	P	P	A	P	P	P	A	P	P	12
4	2013404	V. Supriya	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	13
5	2013405	K. Kalpana	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	13
6	2013406	CH. L. Poornima	A	P	P	P	P	P	A	P	P	P	P	P	P	A	P	12
7	2013407	M. Maheswari	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	13
8	2013408	SD. Maimunnisa	P	A	P	P	P	P	P	A	P	P	P	P	A	P	P	12
9	2013409	E. Alekhya	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	13
10	2013410	J. Priyanka	P	A	P	P	P	A	P	P	P	P	A	P	P	P	P	12
11	2013411	K. Bhargavi	P	P	P	A	P	P	P	A	P	P	P	P	P	A	P	12
12	2013412	Sk. Naziya Sulthana	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	13
13	2013413	M. Akhil	P	A	P	P	P	P	P	A	P	P	P	P	A	P	P	12
14	2013414	M. Pavan Sai	A	P	P	A	P	P	P	P	P	P	A	P	P	P	P	12
15	2013415	V. Arjun	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	13

J. Nageswara Rao
Signature of the Lecturer

K. Ramesh
Signature of the HOD



**ADUSUMILLI GOPALAKRISHNAIAH AND SUGARCANE GROWERS
SIDDHARTHA DEGREE COLLEGE OF ARTS AND SCIENCE,
(AUTONOMOUS) VUYYURU A.P
(Accredited at "A" level by NAAC, Bengaluru)**



Department of Chemistry

VALUE ADDED COURSE: Green Chemistry

CERTIFICATE

This is to Certify that .

Son/Daughter of Shri/Smt

has Successfully completed value added course in **Green Chemistry Conducted by the Department of Chemistry
from 01-08-2021 to 30-08-2021 We wish him her bright future**

J. Nagaraj
Co-ordinator

K. Ramesh
Head of Department

Chauhan
Principal
**AG & SG Siddhartha Degree College of
Arts & Science (Autonomous), Vuyyuru**