

NTR GOVERNMENT DEGREE COLLEGE, MAHABUBNAGAR

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE -2020-2021

COURSE TITLE: HOMENEED CHEMICALS

DURATION: 30 Hrs

RESOURCE PERSON CUM TRAINER: Rumandla Lavanya

1



**NTR GOVT COLLEGE FOR WOMEN,
MAHABUBNAGAR**



DEPARTMENT OF CHEMISTRY

**Certificate course
on
“Home need Chemicals”**



Trainer :
RUMANDLA LAVANYA
Asst Professor
HOD of the department of
Chemistry

15.02.2021 to 22.02,2021
Duration : 2 1/2 hrs daily
Registration : free

Organizing committee:
G.Swathi, M.Praveen Kumar,
B.Rajeshwari,
P.Bheemeshwaramma,
N.Himaja K...

Chief Patron:
Dr.K.Padmavathi

2020-2021
Home Need Chemicals - certificate course
1

Dt 15.02.2021 to 27.02.2021

Duration : 2:30 hr daily.

Objectives :-

- 1) The Certificate Course enhances and enriches the students learning experience.
- 2) This course later the academic and vocational needs of the students.
- 3) The course aims to equip the students with deeper knowledge of the chemistry.
- 4) Preparation of home need chemicals provide high employability to the students with low investment.



Preparation of phenyl

Ingredients :

1. Soft soap : 100 g
2. Cutting oil : 100 ml
3. pine oil : 100 ml
4. Scent : 5 ml
5. Water : 5 lit

But above 1 to 4 items are available in 1 Ltr bottle in the Marketing with well mixing. This can be used mix in 20 Ltrs

We should mix the above available 4 Ingredients in 20 Ltrs of water thoroughly for 20-30 minutes.

for colour we can food colour.

preparation of Sanitizer

⇒ 1) Isopropyl Alcohol Based Formulation
(Isopropanol)

⇒ 2) Final volume Req: 1000ml

⇒ 3) % of chemical Req: Isopropyl Alcohol 75% (v/v)
Glycerol 1.45% (v/v)
H₂O₂ 0.125% (v/v)

⇒ 4) Conc. of chemical Have:

- Isopropyl Alcohol 99.8%
- Glycerol 98%
- H₂O₂ 3%

⇒ 5) Calculations / Formula

$$\frac{\text{Final vol Req} \times \% \text{ of chemical Req}}{\text{conc. of chemical we have}}$$

⇒ For Isopropyl alcohol = $\frac{1000 \times 75}{99.8} = 751.50 \text{ ml}$

⇒ For Glycerol = $\frac{1000 \times 1.45}{98} = 14.79 \text{ ml}$

⇒ For Hydrogen peroxide = $\frac{1000 \times 0.125}{3} = 41.66 \text{ ml}$

∴ Isopropyl Alcohol 99.8% = 751.50 ml
Glycerol 98% = 14.79 ml
H₂O₂ 3% = 41.66 ml

807.95 ml

Rest distilled water is added to make 1000ml final volume

4 Preparation of detergent powder

Required Ingredients :-

1. Soda wash - 3 Kgs (To remove dirt)
2. Acid slurry - 1 ltr (control the soda wash powder)
3. Sodium Lauryl Sulphate - 100 ml (-for lather)
4. Sodium bi carbonate - 100 gr
5. Trisodium phosphate - 100 gr
6. Trisodium poly phosphate - 100 gr
7. Carboxyl methyl cellulose - 100 gr (helps to store)
8. Borax powder - 100 gr (to move the dirt to bottom of the bucket)
9. Sodium silicate - 100 gr (giving shining to colored clothes)
10. Sodium meta silicate - 100 gr
11. Zeolite - 100 gr
12. Grammules - 100 gr
13. Tinopal / Vanipal - 50 gr
14. Scent - 5 ml

Preparation method :-

Step 1 :-

Take a huge dry tub and place sodawash in it. Then add acid slurry slowly to sodawash mix it fast to become a neat powder.

Step 2 :-

Add SLS and mix thoroughly.

Step 3 :-

Now add remaining all except Grammules, Tinopal and Scent. Mix them thoroughly.

Step 4 :-

Add remaining Tinopal, Grammules and Scent. After adding Grammules we should not mix more.

Batch - I.

5

Time: 8:50-10:45am

Trainer and Incharge faculty: R. Lavanya
 -Assistant professor in chemistry
 NTR GDC(W), MBNR

H-T.No	Student Name	Feed Back	Signature
1. 1803.3030.441.001	A. Shravani	Good	Shravani
2. 002	Afthab Tanseen	Useful	Afthab Tanseen
3. 004	A. Navya Sri	Self finance	Navya Sri
5. 005	A. Sandhya	Money save	Sd
6. 007	B. Jayalaxmi	Satisfied	Jayas
7. 008	B. J. Mounika	Satisfied	Mounika
8. 009	B. Shireesha	Good	Shireesha
9. 014	B. Varalaxmi	Good	Varalaxmi
10. 015	Firdous Begum	Satisfied	Firdous begum
11. 016	G. Bhavani	Useful	Bha
12. 018	H. Aritha	Self finance	Aritha
13. 019	Heena	Good	Heena
14. 020	J. Soujana	Satisfied	J
15. 022	Javeria Tabassum	Good	Javeria Tabassum
16. 024	K. Shravani	Satisfied	Shravani
17. 028	K. Anasuya	Self finance	Anasuya
18. 029	K. Lavanya	Good	Lavanya
19. 030	K. Madhavi	Satisfied	Madhavi
20. 032	K. Shravani	Good	Shravani
21. 034	G. Maheshwari	Self finance	Maheshwari
22. 035	M. Rajeshwari	Good	MR
23. 036	M. Sharadha	Satisfied	Sharadha
24. 039	Prinyanka	Good	Prinyanka
25. 042	Rahat parveen	Satisfied	Rahat parveen
26. 045	Sania Begum	Good	Sania begum
27. 046	Shireen fathima	Satisfied	Shireen
28. 047	S. preethi	Good	preethi
29. 050	T. Shireesha	Satisfied	Shireesha
30. 051	V. Manjula	Good	Manjula
31. 052	V. Sharmila	Useful	Sharmila

Batch-1

Time: 8.50 to 10.45am

Day wise course content (Daily 2 1/2 hrs) :-

- 15.02.2021 - Introduction to home need chemicals.
- 16.02.2021 - Different types of chemicals used for household purpose.
- 17.02.2021 - How to handle the home need chemicals.
- 18.02.2021 - Common chemical composition used in home need chemicals.
- 19.02.2021 - Importance of chemicals as Germicides.
- 20.02.2021 - Importance of chemicals as Insecticides.
- 22.02.2021 - Importance of chemicals as cleaning agents.
- 23.02.2021 - Different types of chemicals can be prepared at lab.
- 24.02.2021 - Hazardous nature of excess chemical usage.
- 25.02.2021 - preparation of sanitizer.
- 26.02.2021 - preparation of phenyl making
- 27.02.2021 - preparation of Surf (Surf excel formul

Batch-2

Time: 3-5:30 pm

Trainer and Incharge Faculty: M. Praveen Kumar
Lecturer in chemistry
NTR GDC (W), MBMR

	H-T-NO	Student Name	Feed back	Signature	Day
1	1803-3050-445-001	A. Varalakshmi	Satisfied	A. Varalakshmi	1. 15.0
2	002	A. Bhagyamma	Good	Bhagyamma	2. 16.0
3	003	A. Bharathamma	Good	Bharathamma	
4	004	A. Prathibha	Self finance	Prathibha	
5	005	Afshan Begum	Useful	Afshan	3. 17
6	006	Ahmadi Begum	Useful	Ahmadi	
7	008	A. Pavani	good	Good	4. 18
8	009	A. Ambika	satisfied	Ambika	
9	010	A. Anitha	satisfied	Anitha	
10	011	A. Shirisha	Useful	A. Shirisha	5. 19
11	012	Asma Begum	good	Asma	
12	014	Ayesha Tafreen	Good	A. Tafreen	6. 20
13	015	Ayesha Tasneen	Good	Ayesha	
14	019	B. Gayathri	Self finance	Gayathri	7. 21
15	020	B. Himabindu	Self finance	Himabindu	
16	025	Bushra begum	Good	Bushra	8. 22
17	028	C. Likitha	Useful	Likitha	
18	029	C. Supraja	Useful	Supraja	9. 23
19	030	C. Srilatha	Good	Srilatha	
20	033	D. Archana	Satisfied	Archana	10. 24
21	036	D. Shravani	satisfied	Shravani	
22	037	D. Swathi	Good	Swathi	11. 25
23	038	Firdous Begum	good	firdous	
24	039	Fouzia firdous	Useful	Fouzia	12. 26
25	040	G. Balashwari	Satisfied	Balashwari	
26	041	G. Shravani	Good	Shravani	
27	047	G. BhagyaSri	Useful	Bhagya	
28	049	G. Vaishnavi	Useful	Vaishnavi	
29	053	J. Anusha	Satisfied	Anusha	
30	054	Javeria Naaz	Good	Javeria	

Batch-2

Time: 3 to 5:30 pm

Day wise course content <Daily 2½ hrs>

1. 15.02.2021 - Introduction to Home need chemicals.
2. 16.02.2021 - Different types of chemicals Used for Household purpose
3. 17.02.2021 - How to handle the Home need chemicals
4. 18.02.2021 - Common chemical composition Used in Home need chemicals.
5. 19.02.2021 - Importance of chemicals as Germicides.
6. 20.02.2021 - Importance of chemicals as Insecticides.
7. 22.02.2021 - Importance of chemicals as cleaning agents.
8. 23.02.2021 - Different type of Chemicals can be prepared at lab.
9. 24.02.2021 - Hazardous nature of excess chemical Usage
10. 25.02.2021 - preparation of Sanitizer
11. 26.02.2021 - preparation of phenyl making
12. 27.02.2021 - preparation of Surf <Surf excel formula

10 Batch-3

Time: 3-5:30 pm

Trainer & Incharge Faculty: R. Lavanya
 Asst. professor in Chemistry
 NTR. GDC (W), MBNR.

S.No	H.T.No	Student Name	Feed Back	Signature	
1.	1803.3030.445.501	A. Archana	Good	Archana	1.
2	503	Anjilamma	good	Anjilamma	2.
3	505	Ramyakrishna . A	Useful	Ramyakrishna	3.
4	507	A-shireesha	Satisfied	Shireesha	4.
5	516	B. Bhargavi	Self-financed	Bhargavi	5.
6	530	G. Rani	useful	Rani	6.
7	533	E. Manjula	Good	Manjula	7.
8	544	G. Yadamma	Satisfied	Yadamma	8.
9	553	K. Anitha	Good	K. Anitha	9.
10	558	K. Divya Rathod	Good	K. Divya	10.
11	559	K. Geetha	Satisfied	geetha	11.
12	560	K. Mamatha	Good	mamatha	12.
13	566	K. Swaroopa	useful	Swarupa	13.
14	567	K. Swetha	Good	Swetha	14.
15	568	K. padmalatha	Satisfied	Padmalatha	15.
16	574	M. vaishnavi	self-financed	Vaishnavi	16.
17	579	M. Anusha	Good	Anusha	17.
18	581	M. Lavanya	useful	Lavanya	18.
19	583	M. Mamatha	Satisfied	mamatha	19.
20	586	M. Sandhya	useful	Sandhya	20.
21	602	S. Kavya	Good	Kavya	21.
22	603	S. Ashwini	Self-financed	Ashwini	22.
23	608	Surakshitha	Good	Surakshitha	23.
24	609	E. Swapna	useful	Swapna	24.
25	610	T. Srilatha	Satisfied	Srilatha	25.
26	611	T. Aishwarya	Good	Aishwarya	26.
27	613	Sukanya	Self-financed	Sukanya	27.
28	615	V. Ganga	Satisfied	Ganga	28.
29	616	V. Shravani	useful	Shravani	29.
30	618	Y. Manemma	useful	Y. manemma	30.

Batch-3 Daywise course content <Daily 2½ hrs>

Time: 3 to 5:30 pm

1. 15.02.2021 - Introduction to Home need Chemicals.
2. 16.02.2021 - Different types of chemicals Used for household purpose
3. 17.02.2021 - How to handle the Home need chemicals
4. 18.02.2021 - Common chemical composition Used in Home need chemicals.
5. 19.02.2021 - Importance of chemicals as Germicides.
6. 20.02.2021 Importance of chemicals as Insecticides.
7. 22.02.2021 - Importance of chemicals as cleaning agents.
8. 23.02.2021 - Different types of chemicals can be prepared at lab
9. 24.02.2021 - Hazardous nature of excess chemical usage
10. 25.02.2021. preparation of sanitizer
11. 26.02.2021 preparation of phenyl making.
12. 27.02.2021 - preparation of surf (surf excel formula)

R. K. V.

Principal
NTRGDC (M)
SISHAPUBNAGAR

P. Lavanya mam
MPC EM

CLASS SUBJECT

Roll No.	NAME OF THE STUDENT	FEBRUARY - 2021											
		1	2	3	4	5	6	7	8	9	10	11	12
10033030441	A. Shravani	1	2	2	3	4	5	6	7	8	9	10	11
001	A. Shravani	1	2	3	4	5	6	7	8	9	10	11	12
002	Altab Tameen	1	2	3	4	5	6	6	7	8	9	10	11
004	A. Navya Sri	1	2	3	4	5	6	7	8	8	9	10	11
005	A. Sandhya	1	2	3	4	5	6	7	8	9	10	11	12
007	B. Jayalaxmi	1	2	3	4	5	6	7	8	8	9	10	11
008	B.J. Mounika	1	2	3	4	5	6	7	8	8	9	10	11
009	B. Shireesha	1	2	3	4	5	6	7	8	9	10	11	12
014	B. Varalaxmi	1	2	3	4	5	6	7	8	9	10	11	12
015	Firdous Begum	1	2	3	4	5	6	7	8	9	10	11	12
016	G. Bhavani	1	2	3	4	5	6	7	8	9	10	11	12
018	H. Anitha	1	2	3	4	5	6	7	8	9	10	11	12
019	Hcena	1	2	3	4	5	6	7	8	9	10	11	12
020	J. Srujana	1	2	3	4	5	6	7	8	9	9	10	11
022	Javeria Tabassum	1	2	3	4	5	6	7	8	9	10	10	11
024	K. Shravani	1	2	3	4	5	6	7	8	9	10	11	12
028	K. Anasuya	1	2	3	4	5	6	7	8	9	10	11	12
029	K. Lavanya	1	2	3	4	5	6	7	8	9	10	10	11
030	K. Madhavi	1	2	3	4	4	5	6	7	8	9	10	11
032	K. Shravani	1	2	3	4	5	6	7	8	9	10	11	12
034	G. maheshwari	1	2	3	4	5	6	7	8	9	10	10	11
035	m. Rajeshwari	1	2	3	4	5	6	7	8	9	10	10	11
036	m. Sharaadha	1	2	3	4	5	6	7	8	9	10	10	11
039	Priyanka	1	2	3	4	5	6	7	8	9	10	11	12
042	Rahat Farveen	1	2	3	4	5	6	7	8	9	10	11	12
045	Samia Begum	1	2	3	4	5	6	7	8	9	10	11	12
046	Shireen fathima	1	2	3	4	5	6	7	8	9	10	11	12
047	S. Preeti	1	2	3	4	5	6	7	8	9	10	11	12
050	T. Shireesha	1	2	3	4	5	6	7	8	8	9	10	11
051	V. Manjula	1	2	3	4	5	6	7	8	8	9	10	11
052	V. Sharmila	1	2	3	4	5	6	7	8	9	10	11	12

CLASS

14	15	16	17
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		CLASS												SUBJECT												
<u>R. Lavanya Mam</u> BZC-Tm		Month	F E B R U A R Y - 2 0 2 1																							
		Date	15	16	17	18	19	20	22	23	24	25	26	27												
		Total No. of Attendance																								
		Sign. of Lecturer																								
Roll No.	NAME OF THE STUDENT	No. of Lecturers																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17								
18033030445	A. Archana	1	2	3	3	4	5	6	7	8	9	10	11													
503	Angilamma	1	2	3	4	5	6	7	7	8	9	10	11													
505	Ramya Krishna . A	1	2	3	4	5	6	7	8	9	10	11	12													
507	A. Shreeha	1	2	3	4	5	6	7	8	9	10	11	12													
516	B. Bhargavi	1	2	3	4	5	6	7	8	9	10	11	12													
520	G. Lani	1	2	3	4	5	6	7	8	9	10	11	12													
533	E. Manjula	1	2	2	3	4	5	6	6	7	8	9	10													
544	G. Yadamma	1	2	3	4	5	6	7	8	9	10	11	12													
553	K. Anilka	1	2	3	4	5	6	7	8	9	10	10	11													
558	K. Diya Rathod	1	2	3	4	5	6	7	8	9	10	11	12													
559	K. Geetha	1	2	3	4	5	6	7	8	9	10	11	12													
560	K. Manmatha	1	2	3	4	5	6	7	8	9	10	11	12													
566	K. Saranya	1	2	3	4	5	6	7	8	9	10	11	12													
567	K. Sweetha	1	2	3	4	5	6	7	8	9	10	11	12													
568	K. Padmalatha	1	2	3	4	5	6	7	8	9	10	11	12													
574	M. Vaishnavi	1	2	3	4	5	6	7	8	9	10	10	11													
579	M. Anusha	1	2	3	4	5	6	7	8	9	10	10	11													
581	M. Lavanya	1	2	3	4	5	6	7	8	9	10	10	11													
583	M. Manmatha	1	2	3	4	5	6	7	8	9	10	10	11													
586	M. Sandhya	1	2	3	4	5	6	7	8	8	9	10	11													
602	S. Kavya	1	2	3	4	5	6	7	8	9	10	11	12													
603	S. Ashwini	1	2	3	4	5	6	7	8	9	10	11	12													
608	Surakshirha	1	2	3	4	5	6	7	8	9	10	11	12													
609	E. Swapna	1	2	3	4	5	6	7	8	8	9	10	11													
610	T. SriLatha	1	2	3	4	5	6	7	8	8	9	10	11													
611	T. Aishwarya	1	2	3	4	5	6	7	8	9	10	11	12													
613	Sukanya	1	2	3	4	5	6	7	8	9	10	11	12													
615	V. Ganga	1	2	3	4	5	6	7	8	8	9	10	11													
616	V. Shravani	1	2	3	3	4	5	6	7	8	9	10	11													
618	Y. Manesara	1	2	3	4	5	6	7	8	9	10	11	12													



NTR GOVT. DEGREE COLLEGE (W) MAHABUBNAGAR

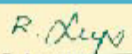
Accredited by NAAC with 'B' grade
Affiliated with Palamuru University

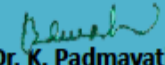
CERTIFICATE

Certificate Id: 65/2020-2021

Date: 22.02.2021

This is to certify that Dr/Mr/Mrs/Miss K.BUSHRA BEGUM of MPC III Yr has participated from NTR Govt Degree College (W), Mahabubnagar in the Online Training Programme on "MAKING OF HOME NEED CHEMICALS" Organised by Department Of Chemistry, NTR Govt. Degree College (W), Mahabubnagar.


R. Lavanya
HOD,
Department of Chemiistry


Dr. K. Padmavathi
Principal
NTRGDC(W), MAHABUBNAGAR

