

DEPARTMENT OF CHEMISTRY,
NTR GOVT DEGREE COLLEGE, MAHABUBNAGAR
CERTIFICATE COURSE : HOME NEED CHEMICALS

 **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

01.07.2021 to 12.07,2021
Duration : 21/2 hrs daily
Registration : free

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

Chief Patron:
Dr. K.Padmavathi
Principal, NTR GDC (W)




 **NTR GOVT. DEGREE COLLEGE (W)
MAHABUBNAGAR**

CERTIFICATE

Q9RCDS-CE000154 **Date: 14-7-2021**

This is to certify that Dr/Mr/Mrs/Miss **V. Mounika** of **Bsc (mpc) 3rd year** has participated from **N.T.R Degree college for women** in the Online Training Programme on **“MAKING OF HOME NEED CHEMICALS”** Organised by Department Of Chemistry, NTR Govt. Degree College (W), Mahababubnagar.


R. Lavanya
HOD,
Department of Chemistry


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



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2021-2022
HOME NEED CHEMICALS - ONLINE CERTIFICATE COURSE

Dt. 01.07.2021 to 12.07.2021
Duration: 12:30 hrs daily

Objectives:

1. The Online Certificate Course enhances and enriches the students learning experience.
2. This course takes 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.

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Preparation of phenyl

Ingredients:

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

But above 1 to 4 items are available in 1 lit bottle in the marketing with well mixing. This can be used mix in 20 litrs.

We should mix the above available ingredients in 20 litrs of water thoroughly for 20-30 minutes.

For colour we can use food colour.

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Preparation of Sanitizer

→ 1. Isopropyl Alcohol Based Formulation < Isopropanol >

→ 2. Final volume Req: 1000ml

→ 3. % of Chemical Req:

Isopropyl Alcohol	75% (V/V)
Glycerol	1.5% (V/V)
H ₂ O	0.15% (V/V)

→ 4. Conc of chemical have:

- Isopropyl Alcohol 75%
- Glycerol 1.5%
- H₂O 3%

→ 5. Calculations/Formula

Final Vol	x	% of chemical
Req	=	Conc of chemical we have

→ For Isopropyl Alcohol = $\frac{1000 \times 75}{75} = 751.50 \text{ ml}$

→ For Glycerol = $\frac{1000 \times 1.5}{1.5} = 10.00 \text{ ml}$

→ For Hydrogen Peroxide = $\frac{1000 \times 0.15}{0.15} = 1.50 \text{ ml}$

→ Isopropyl Alcohol 75% = 751.50 ml
Glycerol 1.5% = 10.00 ml
H₂O 3% = 1.50 ml
Total = 803.00 ml

Rest distilled water is added to make 1000ml final volume.

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Preparation of Disinfectant powder

Required Ingredients:

1. Soda Wash - 2 kg (To remove dirt)
2. Acid Clays - 1 lb (Control soda wash powder)
3. Sodium lauryl sulphate - 100ml (For lather)
4. Sodium bicarbonate - 100gr
5. Trisodium phosphate - 100gr
6. Trisodium poly phosphate - 100gr
7. Carboxyl methyl cellulose - 100gr (helps to stick)
8. Borax powder - 100gr (to move the dirt)
9. Sodium silicate - 100gr (giving shining to clothes)
10. Sodium meta silicate - 100 gr
11. Zeolite - 100 gr
12. Granules - 100 gr
13. Tri-nopal granipal - 50 gr
14. Scent - 5 ml

Preparation method:

Step-1: Take a huge dry tub and place soda wash powder. Then add acid clays slowly to soda wash mix it to become a neat powder.

Step-2: Add SLS and mix thoroughly.

Step-3: Now add remaining all except Granules, Tri-nopal and Scent. Mix them thoroughly.

Step-4: Add remaining Tri-nopal, Granules and Scent. After adding Granules we should not mix more.

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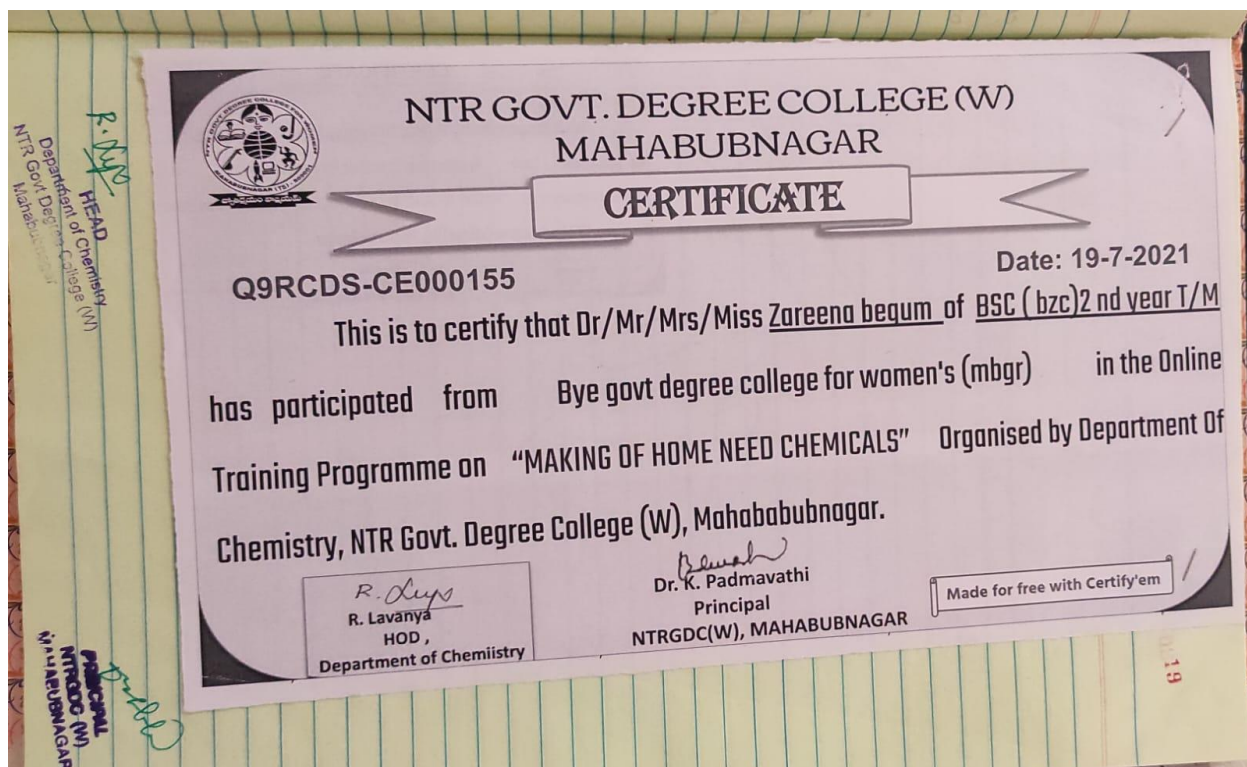
Time 8:30 to 10:30

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

- 01.07.2021 - Introduction to Home need chemicals.
- 02.07.2021 - Different types of chemicals used for house hold purpose.
- 03.07.2021 - How to handle the Home need chemicals.
- 04.07.2021 - Common chemical composition used in Home need chemicals.
- 05.07.2021 - Importance of chemicals as Germicides.
- 06.07.2021 - Importance of chemicals as Insecticides.
- 07.07.2021 - Importance of chemicals as Cleaning agents.
- 08.07.2021 - Different types of chemicals can be prepared at lab.
- 09.07.2021 - Hazardous nature of excess chemical usage.
- 10.07.2021 - Preparation of Sanitizer.
- 11.07.2021 - Preparation of phenyl making.
- 12.07.2021 - Preparation of soft (soft excel formula).

Registered students list - total no of students

Sl. No.	Name	Roll No.	Sl. No.	Name	Roll No.
00000001	Abhishek Kumar	00000001	00000001	Abhishek Kumar	00000001
00000002	Adarsh Kumar	00000002	00000002	Adarsh Kumar	00000002
00000003	Ahmed Khan	00000003	00000003	Ahmed Khan	00000003
00000004	Aishwarya	00000004	00000004	Aishwarya	00000004
00000005	Akhil Kumar	00000005	00000005	Akhil Kumar	00000005
00000006	Akshay Kumar	00000006	00000006	Akshay Kumar	00000006
00000007	Aman Kumar	00000007	00000007	Aman Kumar	00000007
00000008	Amey Kumar	00000008	00000008	Amey Kumar	00000008
00000009	Ananya	00000009	00000009	Ananya	00000009
00000010	Anshu Kumar	00000010	00000010	Anshu Kumar	00000010
00000011	Anshu Kumar	00000011	00000011	Anshu Kumar	00000011
00000012	Anshu Kumar	00000012	00000012	Anshu Kumar	00000012
00000013	Anshu Kumar	00000013	00000013	Anshu Kumar	00000013
00000014	Anshu Kumar	00000014	00000014	Anshu Kumar	00000014
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Name of the Trainer: Rumandla Lavanya, Asst Professor of chemistry, NTR GDC(W), MBNR.

Total no of students registered: 242

Registered students list link:

https://docs.google.com/spreadsheets/d/1k9BFBM5_Fg37HQrNOzCUwvKjEfgEM_LcJsGkHkeWFMA/edit?usp=share_link

Certificate issued list link:

https://docs.google.com/spreadsheets/d/1HQSp3u22xZgZrXSTUnV9qfzCN2IHO9kRj_CDvFYgyQ/edit?usp=share_link