

NOTICE

It is hereby informed to the students of I, II and III year. that a Certificate course will be conducted by department of Chemistry on 19-4-2023 to 04-05-2023 in view of making the learning more awareness in chemistry draw of Ring Structures, cyclic and Hetero cyclic compounds. Hence I inform the all the students to enrol your names, and make it success.

S. S. (aswath)

Department of Chemistry

HEAD

Department of Chemistry  
NTR Govt Degree College (W)  
Mahabubnagar

(Signature)

Principal

N.T.R.G.D.C.(W)  
Mahabubnagar

NTR GOVERNMENT DEGREE COLLEGE(W), MAHABUBNAGAR

DEPARTMENT OF CHEMISTRY

PERMISSION LETTER

Date:12.04.2023

To  
The Principal  
NTR Government Degree college (w)  
Mahabubnagar

Respected sir,

Sub: Request for grant of permission to conduct **certificate course**  
on chem draw

As per the subject cited above ,Dept of chemistry is planning to conduct a certificate course on chem draw, which may enhance the skills in the students. schedule for conduction of certificate course is from 19.04.2023 to 04.05.2023. Hence I kindly request you to grant me permission in this regard.


Thanking you sir



Yours Sincerely

HEAD

Department of Chemistry  
NTR Govt Degree College  
Mahabubnagar

  
PRINCIPAL  
NTR GOVT DEGREE COLLEGE (W)  
MAHABUBNAGAR



## Syllabus

## Module 1 (15 hours)

ACD Chem Sketch Software: - Introduction, download and installation process, Drawing various Chemical Structures (acyclic, cyclic, polycyclic, heterocyclic) Name generation from structures, Conversion of name of molecules into its structure.

Calculation of physical properties such as density, molecular weight, molecular formula, refractive index from structural formula, bond angles, bond lengths, dihedral angles.

## Module 2 (15 hours)

Cambridge chem - Draw Ultra software

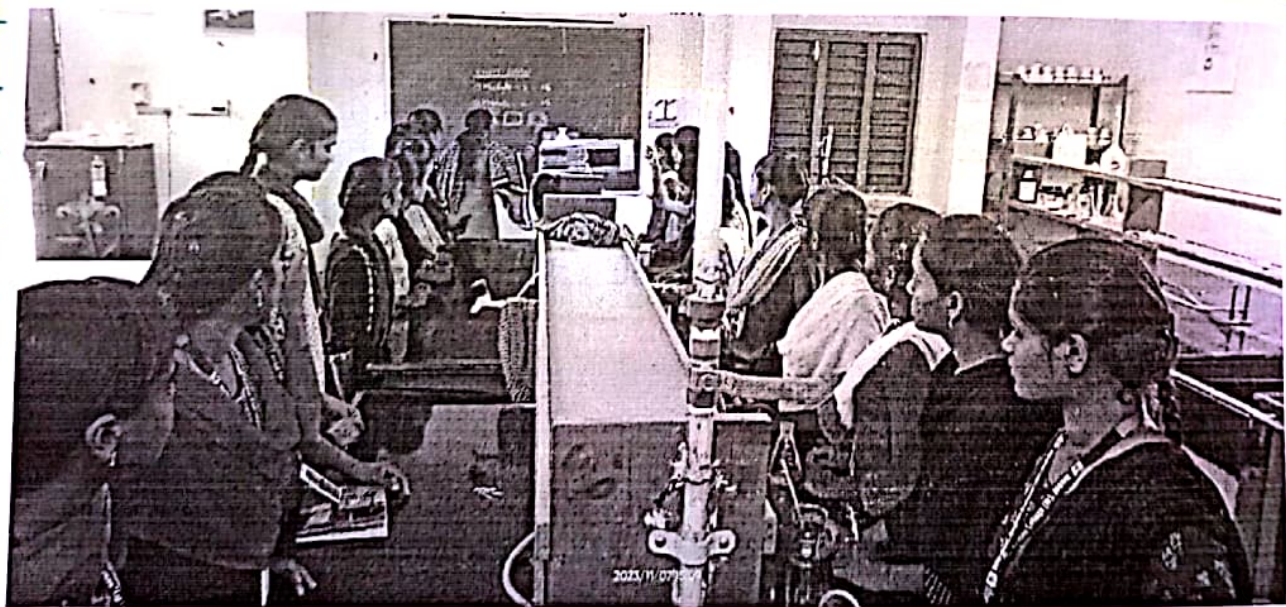
Introduction, download, and installation process. Drawing various Chemical Structures (acyclic, cyclic, polycyclic, heterocyclic) nomenclature. generation, conversion of name into molecular calculation of physical properties such as density, molecular weight, molecular formula, refractive index from structural formula,  $^1\text{H}$ ,  $^{13}\text{C}$  NMR prediction from molecular structure



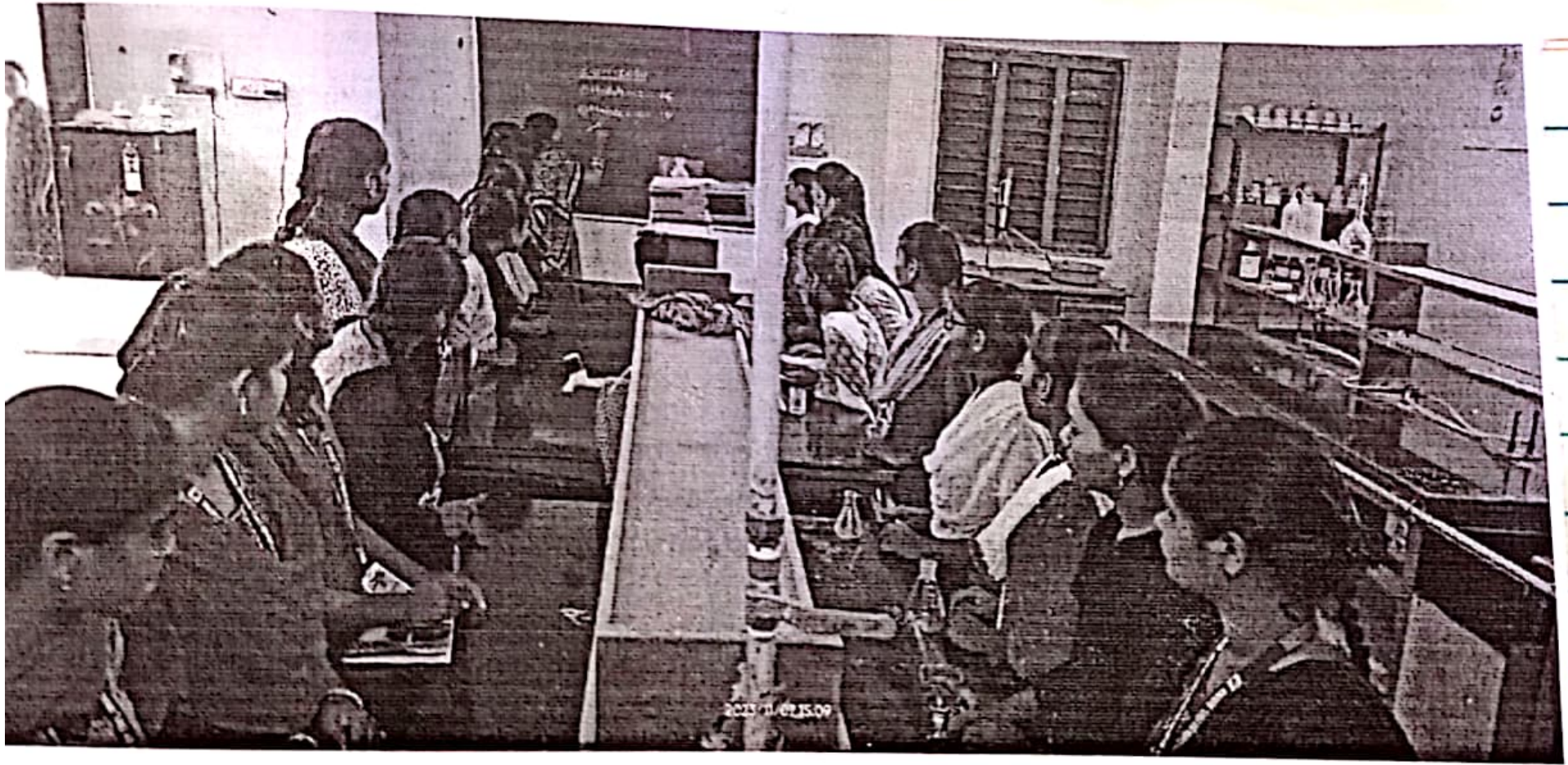
19-4-2023 — 04-05-2023

Learning out comes: — Duration = 2 1/2 hours daily

- 1) After successful completion of this module candidate will be able to use ACD/Chem Sketch for generation and processing of simple and complex chemical structures.
- 2) After successful completion of this module candidate will be able to use Cambridge Chem-Draw Ultra for generation, processing and calculation of physical/chemical properties of simple and complex molecules.







R. N. S.  
10/11/2023







GOVT. OF INDIA







DEPARTMENT OF CHEMISTRY,  
NTR GOVT DEGREE COLLEGE MAHABUBNAGR

CERTIFICATE OF APPRECIATION



THIS IS TO CERTIFY THAT \_\_\_\_\_  
OF \_\_\_\_\_ OF NTR GOVT DEGREE COLLEGE FOR  
WOMEN HAS SUCCESSFULLY COMPLETED THE CERTIFICATE COURSE ON  
"CHEMISTRY IN DAILY LIFE" CONDUCTED FROM 28.04.2023 TO 15.05.2023 ORGANIZED  
BY DEPARTMENT OF CHEMISTRY.

*R. Durga*

HOD OF CHEMISTRY

*S. Sanyal*

PRINCIPAL





NTR GOVT COLLEGE FOR WOMEN,  
MAHABUBNAGAR  
DEPARTMENT OF CHEMISTRY



**Certificate course**  
on  
**“Chemistry In Daily Life”**

**Trainer :**  
**B. RAJESHWARI**  
Lecturer In Chemistry

**28.04.2023 to 15.05.2023**  
**Duration : 2 1/2 hrs daily**  
**Registration : free**

**Organizing committee:**  
**R.Lavanya, G.Swathi,**  
**Kalamma, N.Markandeya,**  
**M.Praveen Kumar, P.Manekka**

**Chief Patron:**  
**S.Gangadhar**  
Principal, NTR GDC (W)

**NTR GOVERNMENT DEGREE COLLEGE(W)  
MAHABUBNAGAR  
DEPARTMENT OF CHEMISTRY**

**Permission letter**

To  
The principal  
NTR Government Degree college (w)  
Mahabubnagar

Date: 25.04.2023

Respected sir,

**Sub: Request for grant of permission to conduct certificate course on  
Chemistry in daily life.**

As per the subject cited above Dept. of Chemistry is planning to conduct a certificate course on chemistry in daily life which may enhance the skills in the students. Schedule for conduction of certificate course is from 28.04.2023 to 15.05.2023 . Hence, I kindly request you to grant me permission in this regard.

Thanking you Sir

*R. Jyoti*  
Yours faithfully

HEAD  
Department of Chemistry  
NTR Govt Degree College (W)  
Mahabubnagar

*S. Jay*  
PRINCIPAL  
NTRGDC (W)  
MAHABUBNAGAR




**NTR GOVERNMENT DEGREE COLLEGE(W)  
MAHABUBNAGAR  
DEPARTMENT OF CHEMISTRY**

**NOTICE**

Date: 26.04.2023

It is hereby informed to the students of I, II and III year, that a certificate course will be conducted by Department of chemistry on 28.04.2023 to 15.05.2023. In view of making the learning more awareness in chemistry in daily life. Hence, I inform the all the students to enrol your names, and make it success.

  
Department of chemistry  
HEAD  
Department of Chemistry  
NTR Govt Degree College (W)  
Mahabubnagar

  
Principal  
PRINCIPAL  
NTRGDC (W)  
MAHABUBNAGAR

# CHEMISTRY IN DAILY LIFE

30

Dt: 28.04.2023

Dt. 28.04.2023 to 15.05.2023

Duration: 2:30 hr daily.

**Objectives:** Introduce chemical concepts using everyday activities as examples to fulfil the following goals.

- \* Increase Scientific literacy in general population of students.
- \* Create an environment that illustrates the importance of chemistry by evaluating current issues associated to chemistry.
- \* Identify and describe physical phenomenon in everyday products, activities and events.
- \* Students will have a firm foundation in the fundamental and application of current chemical and scientific theories in general chemistry.
- \* Analysis of daily using compounds like toothpaste, Soap, dettol, sanitizers and their applications.
- \* Lab Safety rules, handling chemicals and glassware safety.
- \* Simple reactions and chemical composition.



## Syllabus :-

1. Introduction :- Preliminary Information  
Toothpaste, Soap, Detergent, Sanitizer, Shampoo - - - -  
Daily using items composition and their applications  
- - - 5 hrs.
2. Medicines :- Paracetamol, Aspirin - - - preparations,  
composition, chemical formula, Applications and side  
effects - - - 5 hrs
3. Dyes :- Azodye preparation, Some Synthetic dyes  
composition and uses - - - 5 hrs.
4. Disinfectants :- chemical composition and applications  
N-chloro p-toulene Sulfonamide, p-chloro-m-xyleneol-  
antiviral activity, microbiological activity  
- - - 5hrs
5. chemical agents commonly used as Disinfectants and  
Antiseptics :-  
phenolics - Hexachlorophene - - - 5 hrs.
6. polymers in Daily life :-  
Bakelite, polyethylene, polyester, Nylon and  
Biodegradable polymers  
- - - 5 hrs







1.	210330304411003	A. Ashritha	A. Ashritha
2.	210330304411002	-Akifa Khanam	Akifa
3.	210330304411021	Fathima Begum	Fathima
4.	210330304411025	J. Sandhya	SANDHYA
5.	210330304411065	Sabiha Jabbarum	Sabiha
6.	210330304411055	Mubeerja Muskan	Mubeerja
7.	210330304411053	Maliyam Nafees	Maliyam
8.	210330304411004	A. Krishnaveni	A. Krishnaveni
9.	210330304411062	P. Sri Tejaswini	P. Sri Tejaswini
10.	210330304411034	K. Jyothi	Jyothi
11.	210330304411014	B. Kavitha	Kavitha
12.	20033030441024	K. Nikhitha	K. Nikhitha
13.	210330304411015	B. Ashwini	B. Ashwini
14.	210330304411013	B. Svaranthi	B. Svaranthi
15.)	210330304411040	K. Nikhitha	K. Nikhitha
16.)	210330304411033	K. Gayathri	K. Gayathri
17.)	210330304411047	K. Vishnupriya	Vishnupriya
18.)	210330304411039	K. Swathi	swathi
19.)	210330304411011	B. Krishnaveni	B. Krishnaveni
20.)	210330304411059	P. Chandrakala	P. Chandrakala
21.)	210330304411049	M. Nandhini	M. Nandhini
22.)	210330304411005	A. Ashwini	A. Ashwini
23.)	210330304411060	P. Rohitha	Rohitha
24.)	210330304411073	T. Haritha	T. Haritha
25.)	210330304411072	T. Harini	Harini
26.)	210330304411056	M. Saritha	M. Saritha
27.)	210330304411052	M. Anusha	M. Anusha
28.	210330304411006	B. Monisha	B. Monisha
29.	210330304411024	H. Akshaya	H. Akshaya
30.	210330304411051	M. Pravalika	M. Pravalika





DEPARTMENT OF CHEMISTRY,  
NTR GOVT DEGREE COLLEGE MAHABUBNAGR



**CERTIFICATE OF APPRECIATION**

THIS IS TO CERTIFY THAT \_\_\_\_\_  
OF \_\_\_\_\_ OF NTR GOVT DEGREE COLLEGE FOR  
WOMEN HAS SUCCESSFULLY COMPLETED THE CERTIFICATE COURSE ON  
"CHEMISTRY IN DAILY LIFE" CONDUCTED FROM 28.04.2023 TO 15.05.2023 ORGANIZED  
BY DEPARTMENT OF CHEMISTRY.

*R. Durga*


HOD OF CHEMISTRY

*S. S. S.*

PRINCIPAL





 GPS Map Camera

**Mahbubnagar, Telangana, India**

Beside District Sports Stadium, PXXX+437, Shah Saheb Gutta,  
Mahbubnagar, Telangana 509001, India

Lat 16.747806°

Long 77.997683°

16/05/23 01:33 PM GMT +05:30

Google

NTR GOVERNMENT DEGREE COLLEGE(W), MAHABUBNAGAR  
DEPARTMENT OF CHEMISTRY  
PERMISSION LETTER

To  
Date:12.04.2023  
The Principal  
NTR Government Degree college (w)  
Mahabubnagar

Respected sir,

Sub: Request for grant of permission to conduct **certificate course on Home need chemicals**

As per the subject cited above ,Dept of chemistry is planning to conduct a certificate course on Home Need Chemicals, which may enhance the skills in the students. schedule for conduction of certificate course is from 19.04.2023 to 04.05.2023. Hence I kindly request you to grant me permission in this regard.

Thanking you sir

Yours Sincerely.



NOTICE

18/4/2023

All the students of B.A, B.com and B.sc of II year are here by informed that Department of chemistry is going to conduct two weeks certificate course on "Home need chemicals" from 19/4/2023 to 04/05/2023. In this regard all the interested students are instructed to register for this programme in the Department of chemistry.

R. Kuro  
HOD

S. G. S.  
PRINCIPAL  
NTRGDC (W)  
MADAPUNAGAR

S-6 (Giswati)



**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

**19.04.2023 to 04.05.2023**

**Duration : 2 1/2 hrs daily**

**Registration : free**

**Organizing committee:**

**G.Swathi, Kalamma, M.Praveen**

**Kumar,**

**N.Markandeya, B.Rajeshwari,**

**BManekka**

**CHIEF PATRON:**

**SRI SRIPADA**

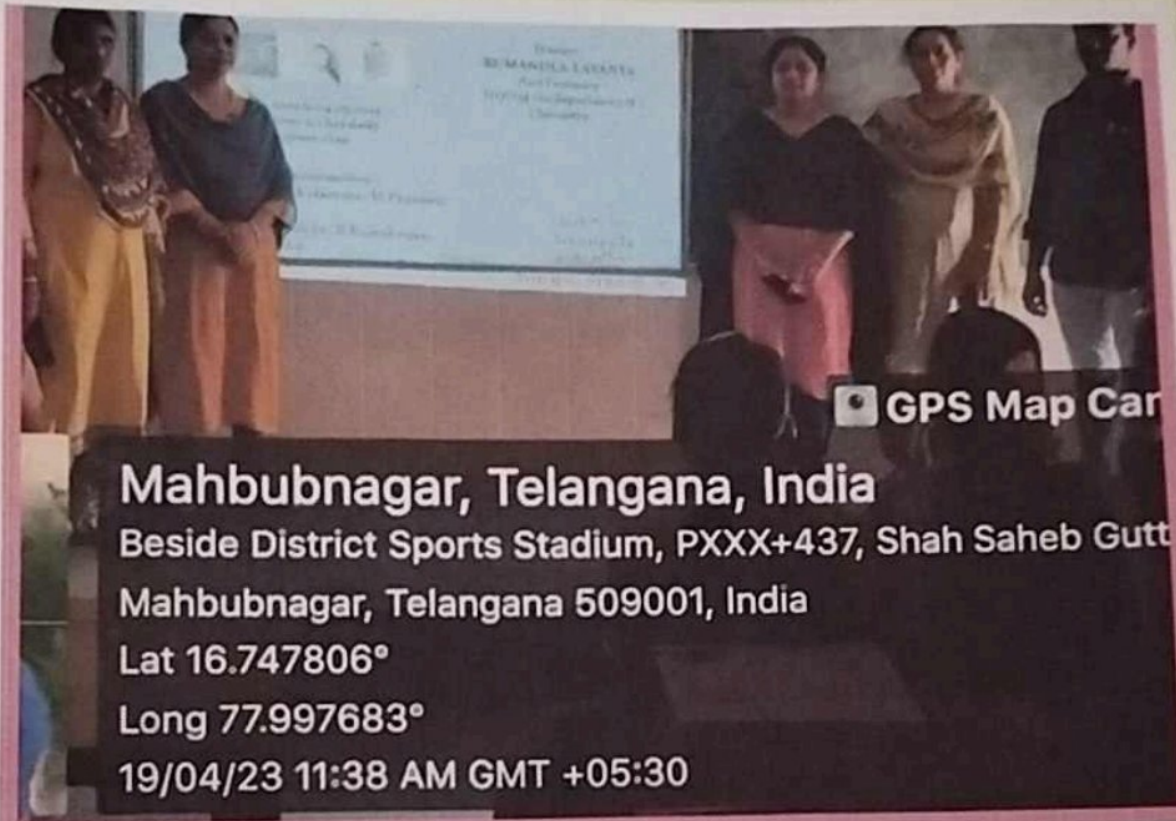
**GANGADHAR**

**PRINCIPAL, NTR GOVT COLLEGE FOR WOMEN, MAHABUBNAGAR**



Day wise course content (Daily 2 1/2 hour)

Time: 1 to 3.30





LOW-LEVEL  
HOME NEED CHEMICALS  
< CERTIFICATE COURSE >

Dt. 19.04.2023

Dt. 19.04.2023 to 04.05.2023

Duration: 2:30 hr daily.

Objectives:-

- \* The Certificate course enhances and enriches the students learning experience.
- \* This course later the academic and vocational needs of the students.
- \* The course aims to equip the students with deeper knowledge of the chemistry.
- \* Preparation of Home need chemicals provide high employability to the students with low investment.



## Preparation of Sanitizer

① Iso propyl alcohol based formulation.  
< Isopropanol >

② Final volume required : 1000ml

③ % of chemical required :

Isopropyl alcohol	- 75% (v/v)
Glycerol	- 1.45% (v/v)
H <sub>2</sub> O <sub>2</sub>	- 0.125% (v/v)

④ conc. of chemical have :

a) Iso propyl alcohol	- 99.8%
b) Glycerol	- 98%
c) H <sub>2</sub> O <sub>2</sub>	- 3%

⑤ Calculations / Formulae

Final volume req	x	% of chemical req.
-----		
conc. of chemical we have.		

⑥ For Isopropyl alcohol =  $\frac{1000 \times 75}{99.8} = 751.50 \text{ ml}$

⑦ For Glycerol =  $\frac{1000 \times 1.45}{98} \Rightarrow 14.79 \text{ ml}$

⑧ For H<sub>2</sub>O<sub>2</sub> =  $\frac{1000 \times 0.125}{3} \Rightarrow 41.66 \text{ ml}$

∴ Iso propyl alcohol 99.8% = 751.50 ml

Glycerol 98% = 14.79 ml

H<sub>2</sub>O<sub>2</sub> 3% = 41.66 ml

807.95 ml

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



## 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 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 ltr of water thoroughly for 20-30 minutes.

for colour we can food colour.





## Preparation of liquid soap.

### Ingredients :-

- 1) Acid slurry — 250ml
- 2) caustic soda — 100g
- 3) Urea — 100g
- 4) Trisodium phosphate — 50gm
- 5) Water — 5 ltr.

### Procedure :-

- ① In a clean dry bucket, take 2 liter water to this add acid slurry and mix thoroughly.
- ② In another bucket take 1 liter and dissolve caustic soda to get clear solution.
- ③ mix caustic soda solution to acid slurry solution.
- ④ Now in another bucket take 1 lit water and dissolve urea until obtain a clear solution.
- ⑤ Add this solution to above mixture.
- ⑥ Dissolve TSP in 1 lit water in another bucket and add to above mixture.
- ⑦ we can add food colour in our wish.

Liquid soap can use for multy purpose.

- 1) As Glass cleaner — 10ml of liquid soap + 90ml of colour + 25% water
- 2) Dish wash cleaner — 75% of liquid soap + lemon extract Juice
- 3) Washing clothes — 100% liquid soap + Rose asen
- 4) Floor cleaner — 20% of liquid soap + 80ml phenyl
- 5) Clean the vehicles — 50% of liquid soap + 50% H<sub>2</sub>O + colour.



① Toilet cleaner — 50% liquid soap + 50% H<sub>2</sub>O + colour.



**Mahbubnagar, Telangana, India**  
Beside District Sports Stadium, PXXX+437, Shah Saheb Gutta  
Mahbubnagar, Telangana 509001, India  
Lat 16.747806°  
Long 77.997683°  
19/04/23 11:38 AM GMT +05:30



**Mahbubnagar, Telangana, India**  
Beside District Sports Stadium, PXXX+437, Shah  
Mahbubnagar, Telangana 509001, India  
Lat 16.74781°  
Long 77.997645°  
27/04/23 02:17 PM GMT +05:30



**Mahbubnagar, Telangana, India**  
PXXX+25J, Shah Saheb Gutta, Mahbubnag  
Telangana 509001, India  
Lat 16.747448°  
Long 77.997226°  
25/04/23 02:04 PM GMT +05:30



**Mahbubnagar, Telangana, India**  
PXXX+25J, Shah Saheb Gutta, Mahbubnagar, Telangana 50  
India  
Lat 16.747542°  
Long 77.997345°  
04/05/23 01:55 PM GMT +05:30



## Preparation of Phenyl f Liquid Soap

SNO	H.TNO.	Student Name	Feedback	S
1.	210330304571001	D. Chandrika		
2.	210330304571024	P. Meenakshi		
3.	210330304571002	Adiba Farheen		
4.	210330304891004	M Radhika		
5.	210330305721005	K. Krishnaveni		
6.	210330305721007	S. Sonitha		
7.	210330304571027	V. Nagalaxmi		
8.	210330305721001	J. Anitha		
9.	210330304891002	A. Chethana		
10.	210330304891007	V. Archana		
11.	210330304891001	A. Akshaya		
12.	210330304891008	Y. Hanika		
13.	210330304451010	B. Shirisha		
14.	210330304451119	M. Shivani		
15.	210330304451050	G. Nikitha		
16.	210330304451051	Archana		
17.	210330304451056	G. Shiva Sathvi		
18.	210330304451193	V. MANASA		
19.	210330304451011	B. Srivani		
20.	210330304451020	B. Shirisha		
21.	210330304451142	P. Neelamma		
22.	210330304451016	B. Krishnaveni		
23.	210330304451094	K. Shirisha		
24.	210330304451185	T. Mousika.		
25.	210330304451190	V. Radha		
26.	210330304451112	M. Radhika		
27.	210330304451113	M. Sai Chandana		
28.	210330304451091	K. Pavanika		
29.	210330304451023	B. Swetha		
30.	210330304571008	K. Shanmukha Pritya		



## Preparation of Sanitizer.

SNo	H.T. NO	Student Name	Feedback	Sign
1	210330304452009	B. Jyothi		B. Jyothi
2	210330304452034	K. Sree Lakshmi		K. Sree Lakshmi
3	210330304452054	S. Anusha		S. Anusha
4	210330304452047	N. Arathi		N. Arathi
5	210330304452029	J. Mamatha prasanna		J. Mamatha prasanna
6	210330304452045	N. shilpa sri		N. shilpa sri
7	210330304452045	G. Anitha		G. Anitha
8	210330304452018	D. Bhagyalaxmi		D. Bhagyalaxmi
9	210330304452010	B. Lingeswari		B. Lingeswari
10	210330304452006	Bhagyalaxmi		Bhagyalaxmi
11	210330304452051	R. vijaya		R. vijaya
12	210330304452031	K. Priyanka		K. Priyanka
13	210330304452019	D. shireesha		D. shireesha
14	210330304452055	S. Haritha		S. Haritha
15	210330304452060	V. shruithi		V. shruithi
16)	210330304452021	G. Indu		G. Indu
17)	210330304451062	P. Siva Tejaswini		P. Siva Tejaswini
18)	210330304411018	C. Laxmi Narasamma		C. Laxmi Narasamma
19)	210330304411051	M. pranavika		M. pranavika
20)	210330304411050	Maiguli		Maiguli
21)	210330304411043	K. Saroja		K. Saroja
22)	210330304411028	J. Madhavi		J. Madhavi
23)	210330304411014	B. kavitha		B. kavitha
24)	210330304411069	S. Meri		S. Meri
25)	210330304411068	S. kavitha		S. kavitha
26)	210330304411074	T. Suvasha		T. Suvasha
27)	210330304411077	V. sasilatha		V. sasilatha



Time: 1 to 3.30 pm

- 1) 19.04.23 - Introduction to Home need chemicals.
- 2) 20.04.23 - Different types of chemicals used for household purpose.
- 3) 21.04.23 - How to handle the home need chemicals.
- 4) 24.04.23 - Common chemical composition used in Home need chemicals.
- 5) 25.04.23 - Importance of chemicals as Germicides.
- 6) 26.04.23 - Importance of chemicals as Insecticides.
- 7) 27.04.23 - Importance of chemicals as cleaning agents.
- 8) 28.04.23 - Different types of chemicals can be prepared at lab.
- 9) 29.04.23 - Hazardous nature of excess chemical usage.
- 10) 1/5/23 - Preparation of Sanitizer.
- 11) 2/5/23 - Preparation of Phenyl making.
- 12) 3/5/23 - Preparation of liquid Soap.
- 13) 4/5/23 - Batches wise making home need chemical for students.





 **GPS Map Camera**

**Mahbubnagar, Telangana, India**

**Beside District Sports Stadium, PXXX+437, Shah Saheb Gutta,**

**Mahbubnagar, Telangana 509001, India**

**Lat 16.747806°**

**Long 77.997683°**

**16/05/23 01:33 PM GMT +05:30**

**Google**





**DEPARTMENT OF CHEMISTRY,  
NTR GOVT DEGREE COLLEGE MAHABUBNAGR**



**CERTIFICATE OF APPRECIATION**

THIS IS TO CERTIFY THAT \_\_\_\_\_  
OF \_\_\_\_\_ OF NTR GOVT DEGREE COLLEGE FOR  
WOMEN HAS SUCCESSFULLY COMPLETED THE CERTIFICATE COURSE ON "HOME  
NEED CHEMICALS" CONDUCTED FROM 19.04.2023 TO 04.05.2023 ORGANIZED  
BY DEPARTMENT OF CHEMISTRY.

*R. Durya*

HOD OF CHEMISTRY

*S. S. S.*

PRINCIPAL

# NTR GOVERNMENT DEGREE COLLEGE FOR WOMEN

MAHABUBNAGAR

(Re – Accredited by NAAC with “B” Grade ,Affiliated to Palamuru University)

## DEPARTMENT OF CHEMISTRY

### Permission letter

To

Date : 16-04-2023

The principal

NTR Government Degree college (W )

Mahabubnagar

Respected sir,

**Sub** : Request for grant of permission to conduct **Certificate Course** on  
**Food Adulteration and Quality Management**

As per the subject cited above Dept.of Chemistry is planning to conduct a certificate course on “Food Adulteration and Quality Management” which may enhance the skills in the students. Schedule for conduction of certificate course is from 18-04-2023 to 10-05-2023.

Hence,I kindly request you to grant permission in this regard.

Thanking you sir

Yours faithfully

*Sguy*  
PRINCIPAL  
N.T.R.G.D.C.(W)  
Mahabubnagar.

*R. Lavanya*  
(R.LAVANYA)  
ASST. PROF, Dept of  
Chemistry

narzo Shot by nikki

2023/11/08 14:19



# NTR GOVERNMENT DEGREE COLLEGE FOR WOMEN

MAHABUBNAGAR

(Re – Accredited by NAAC with “B” Grade ,Affiliated to Palamuru University)

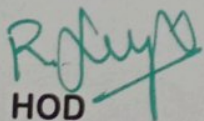
## DEPARTMENT OF CHEMISTRY

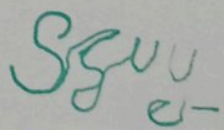
2022 -2023

### NOTICE

Date : 16-04-2023

The students of Department of Chemistry are here by informed that the Chemistry department was organize Short term Certificate Course of “**Food Adulteration and Quality Management**” for UG students, is organized from, 18-04-2023 to 10-05-2023 , for the academic year 2022 – 2023, all the interested students contact with the department of Chemistry and register your name for the certificate course its free of cost there will be no any fees.

  
HOD

  
Principal  
N.T.R.G.D.C.(W)  
Mahabubnagar





# NTR GOVERNMENT DEGREE COLLEGE FOR WOMEN MAHABUBNAGAR



(Re – Accredited by NAAC with “B” Grade ,Affiliated to Palamuru University)

Certificate Course  
On

**FOOD ADULTERATION AND QUALITY MANAGEMENT**

**Academic Year : 2022 - 2023**

**18.04 2023 to 10.05.2023**

Duration : 02 Hrs daily

Registration : Free of Cost

Trainer :

**MARKANDEYA.NAAMANI**

Lecturer in Chemistry

**Organizing Committee:**

**R.Lavanya,G.Swathi,Kalamma,**

**M.Praveen Kumar,B.Rajeswari**

**P. Manekka**

Chief Patron:

**S.Gangadhar**

**Principal,NTR GDC (W)**

**narzo**

Short by inkkt

2023/05/08 14:20



**NTR GOVERNMENT DEGREE COLLEGE FOR WOMEN**

MAHABUBNAGAR

**Certificate Course in Food Adulteration and Quality Management**

**About the Course :**

1. Name of the Certificate Course : Food Adulteration and Quality Management
2. Organizing Department : CHEMISTRY
3. Duration of Course : 30 Hours
4. Course Commencement Date : 18-04-2023
5. Course End Date : 10-05-2023

**Aim of the Course :**

The main purpose of food adulteration is to alter the quality of food products for economic advantage. Such actions usually take place by substitution with inferior quality or less valued food and increasing the weight or volume by admixture of undeclared ingredients.

**COURSE OBJECTIVES :**

1. To educate students about common food adulteration and their detection.
2. To introduce students to food safety and standardization acts.
3. To make students skilled in food adulteration testing and analytical instrumentation

**Outcomes of the Course :**

After successful completion of the course, students will be able to

1. The adulteration of common foods and their adverse impact on health.
2. Comprehend certain basic skills of detecting adulteration in common foods.
3. Extend their knowledge of detecting other kinds of adulteration.
4. Get basic knowledge on various foods and about adulteration.

*R. Siva*

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*S. Sanyal*  
**PRINCIPAL**  
**N.T.R.G.D.C.(W)**  
Mahabubnagar



# Syllabus

## Unit - I (Theory)

Time : 10 Hrs

1. Introduction : Definition, Examples and Classification of Food Adulteration
2. Reasons for Food Adulteration
3. Food Adulterations: Common Food Adulterations and Classifications.
4. Harmful Effects on Food Adulterations.
5. Food Adulterations v/s Food Additives
6. Prevention of Food Adulteration
7. Food Standards

## Unit -2 (Quality Management)

Time : 05 Hrs

### Packaging and Labeling of Foods:

Functions, Classification, materials used.

Package analysis, package designing.

## Unit - 3 (Practical's)

Time : 15 Hrs

Food Adulteration tests in Laboratory :

- i) Milk
- ii) Ghee and Butter
- iii) Sugar
- iv) Tea
- v) Coffee
- vi) Chilli powder
- vii) Turmeric Powder
- viii) Honey
- ix) Oil
- x) Jaggery
- xi) Sweets, Ice - Creams and Beverages
- xii) Salt
- xiii) Vinegar
- xiv) Asafoetida
- xv) Flour

*R. Sanyal*  
HOD of Chemistry

*Sanyal*  
PRINCIPAL  
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**NTR GOVERNMENT DEGREE COLLEGE FOR WOMEN**

MAHABUBNAGAR

Certificate Course in Food Adulteration and Quality Management

Academic Year : 2022 - 2023

Certificate Course of Food Adulteration and Quality Management

Unit No	Course Contents	No of Lectures
I	Introduction of Food Science	2
	Food adulteration	4
	Food Additives	2
	Food Prevention	2
II	<b>Packaging and Labeling of Foods</b>	
	Packaging	3
	Labeling of Foods	2
III	<b>Practical Session</b>	
	Adulteration Test - I	8
	Adulteration Test - II	7

R. Siva  
HOD, Chemistry

S. S. S. S.  
PRINCIPAL  
N.T.R.G.D.C.(W)  
Mahabubnagar



# NTR GOVERNMENT DEGREE COLLEGE FOR WOMEN

MAHABUBNAGAR

## Certificate Course in Food Adulteration and Quality Management

### List of Students Enrolled

2022 -2023

Sr.No	Name of the students	Sign
1	D.Honey Hadassah	
2	k.Maheswari	
3	M.Shivani	
4	G.Archana	
5	G.Nikitha	
6	B.Sirisha	
7	p. Narsamma	
8	B.Krishnaveni	
9	Husna Fathima	
10	K. Shirisha	
11	Vyashnavi	
12	G, Anusha	
13	K.Bhanupriya	
14	G.Sangeetha	
15	M.Sai shree	
16	T.Srilatha	
17	V.Shruthi	
18	S.Haritha	
19	G Indu	
20	Bhagyalxmi	
21	G.Chandana	
22	N.Harthi	
23	C.Priyanka	
24	B.Jyothi	
25	M.Shilpasri	

Course Trainer

HOD

PRINCIPAL  
N.T.R.G.D.C.(W)  
Mahabubnagar

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# NTR GDC (W) - Mahabubnagar

## Certificate Course

Academic Year: 2022-2023

162

167

S.NO	H.T.NO	NAME	18-04-23	19-04-23	22-04-23	25-04-23	26-04-23	27-04-23	28-04-23	01-05-23	02-05-23	03-05-23	04-05-23	05-05-23	08-05-23	09-05-23	10-05-23
01	4451034	D. Honey Madasa	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
02	4451086	K. Maheshwari	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
03	4451119	M. Shivani	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
04	4451051	G. Archana	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
05	4451050	G. Nikitha	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
06	4451010	B. Srisisha	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
07	4451142	P. Nayasamma	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
08	4451016	B. Krishnaveni	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
09	4451065	Husna Fathima	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
10	4451094	K. Shirisha	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
11	4451033	Vyashnavi	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
12	4452025	G. Anusha	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
13		K. Bhanupriya	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
14	4451045	G. Sangeetha	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
15	4451114	M. Saishree	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
16	4452057	T. SriLatha	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
17	4452060	V. Shruthi	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
18	4452055	S. Haritha	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
19	4452021	G. Indu	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
20	4452006	Bhagyalaxmi	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
21	4452023	G. Chandana	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
22	4452047	N. Harthi	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23	4452014	C. Priyanka	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
24	4452009	B. Jyothi	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
25	4452045	M. Shilpari	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

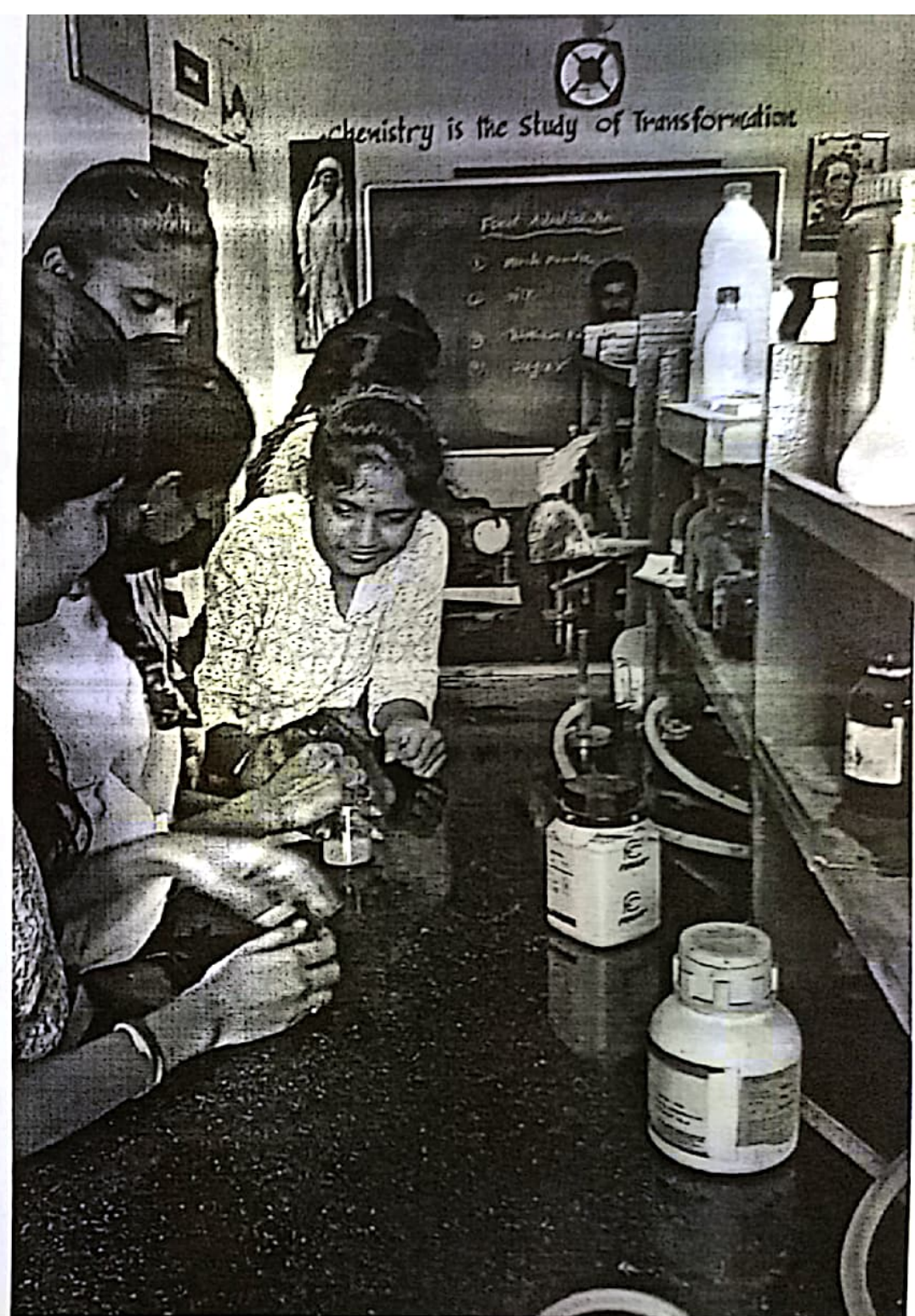
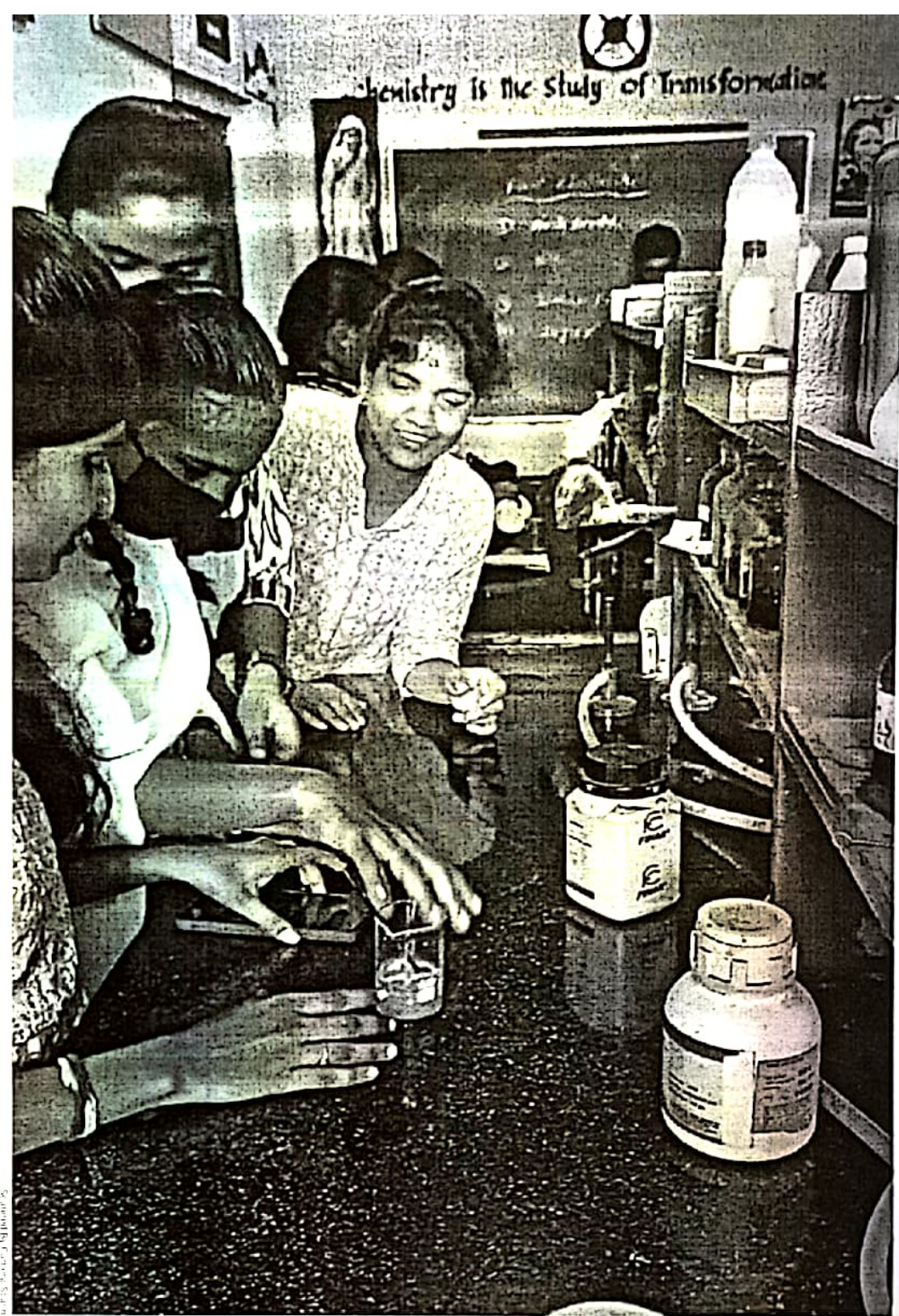
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sign of trainer

*[Signature]*  
sign of HOD

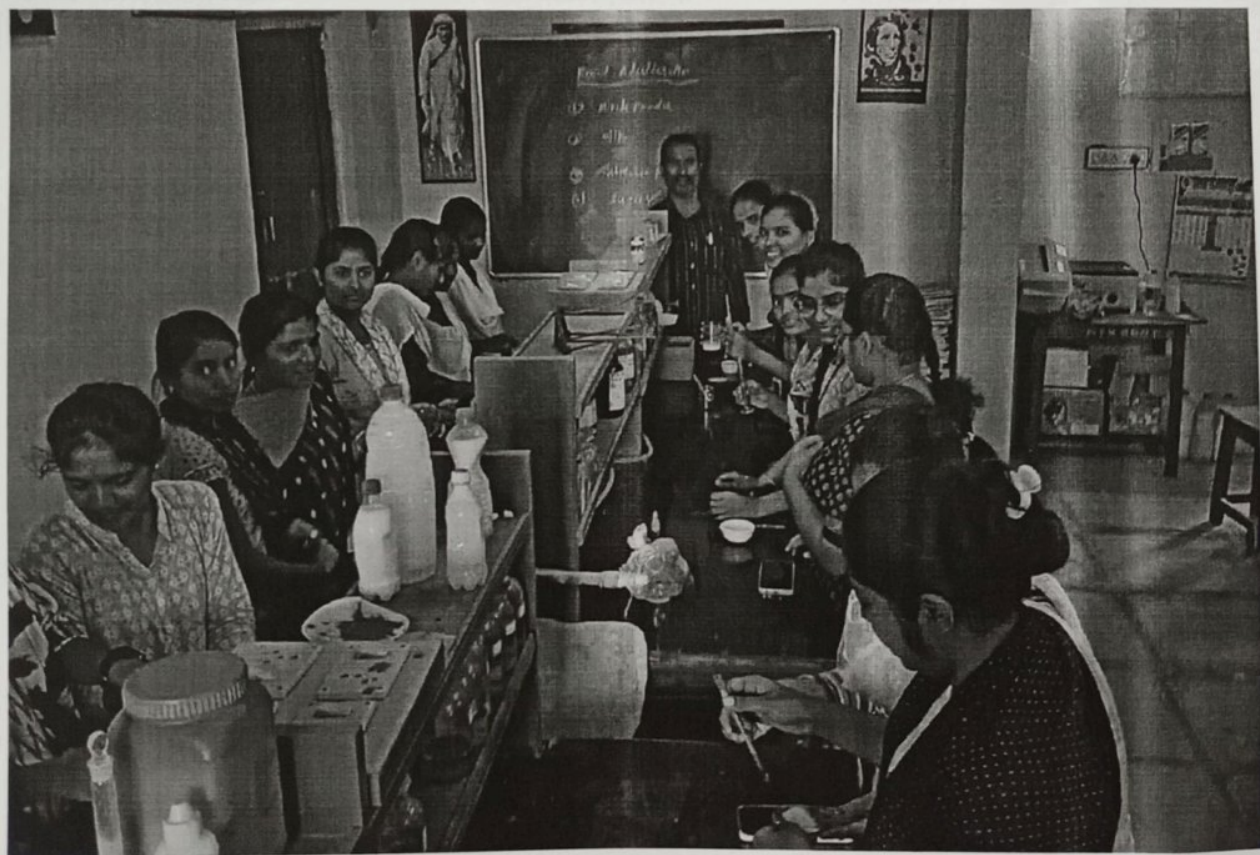
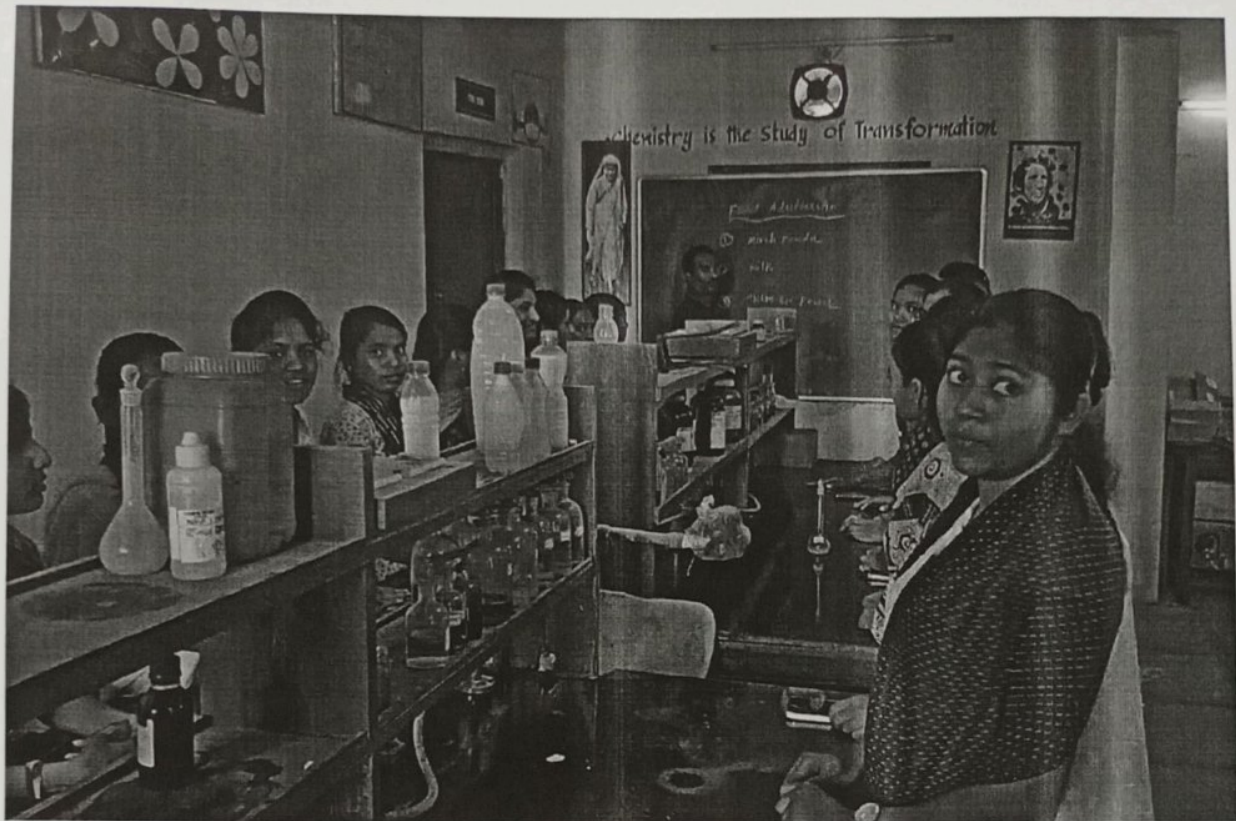
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Mahabubnagar

2022/04/26









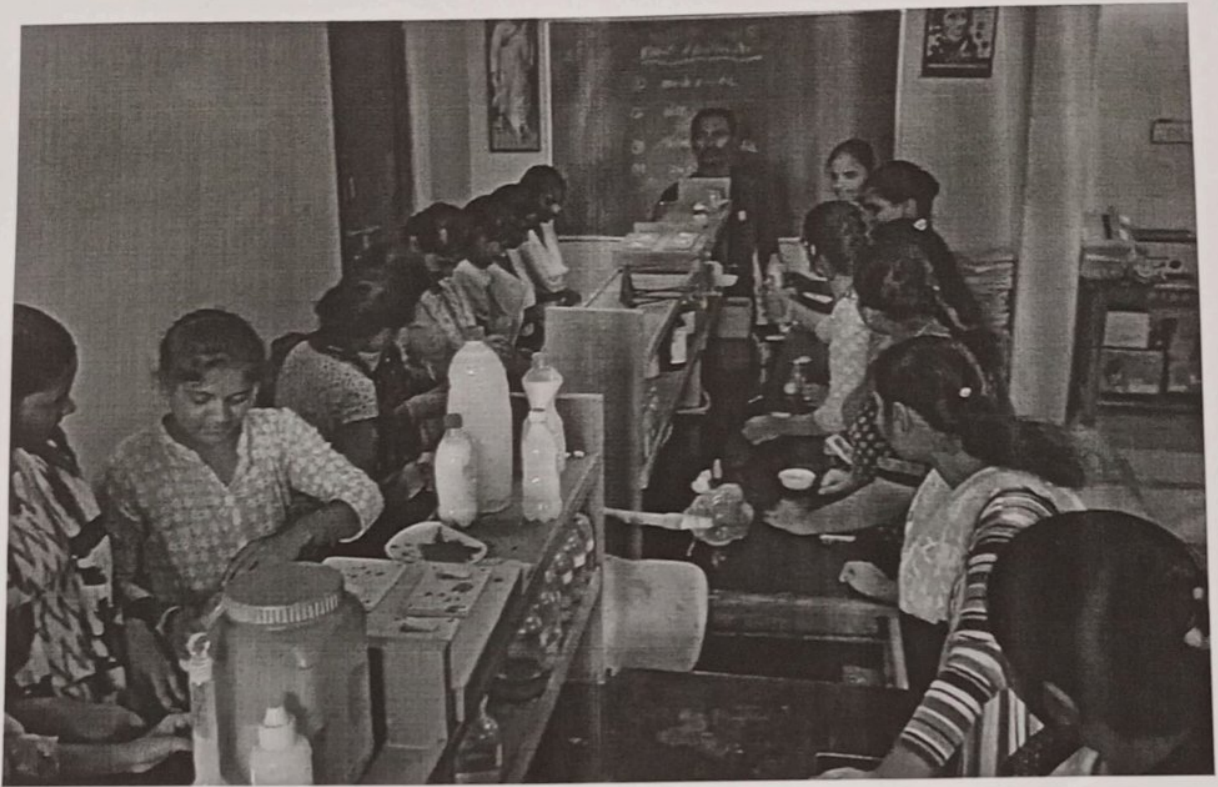
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Mahabubnagar





R. Jay

Principal  
PRINCIPAL  
N.T.R.G.D.C.(W)  
Mahabubnagar





**DEPARTMENT OF CHEMISTRY  
NTR GOVERNMENT DEGREE COLLEGE (W) ,MAHABUBNAGAR**



**CERTIFICATE OF APPRECIATION**

**THIS IS TO CERTIFY THAT -----**  
**OF ----- OF NTR GOVT DEGREE COLLEGE**  
**FOR WOMEN HAS SUCCESSFULLY COMPLETED THE CERTIFICATE COURSE ON**  
**“FOOD ADULTERATION AND QUALITY MANAGEMENT” CONDUCTED FROM**  
**18.04.2023 TO 10.05.2023 ORGANIZED BY DEPARTMENT OF CHEMISTRY.**

*R. Kuyya*  
**HOD OF CHEMISTRY**

*S. S. S.*  
**PRINCIPAL**  
**NTR.G.D.C.E.(W)**  
**Mahabubnagar**