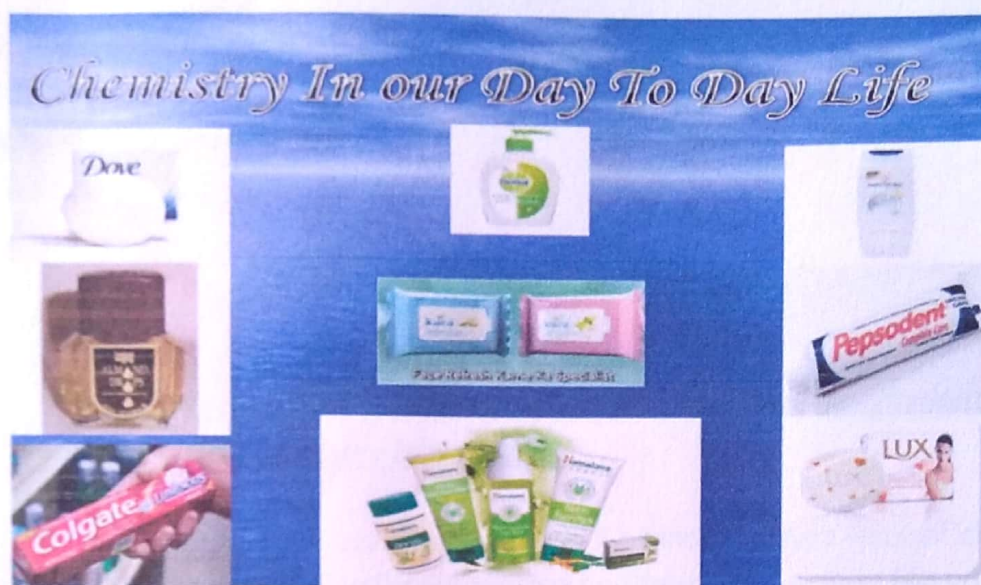


CERTIFICATE COURSE  
CHEMISTRY IN DAILY LIFE



# CHEMISTRY IN EVERYDAY LIFE



By  
Department of chemistry,  
Govtment Degree College, luxettipet.

**GOVERNMENT DEGREE COLLEGE, LUXETTIPET**

**PERMISSION LETTER**

DATE: 05-02-2020

To  
The Principal  
Government Degree college  
Luxettipet.

Respected Sir,

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

As per the subject cited above I, T.MANJULA, Asst Prof of chemistry is intended 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 06/02/2020 to 12/03/2020. Hence I kindly request you to grant me permission in this regard.

Thanking you sir

Yours Sincerely



T.Manjula

Asst Prof of Chemistry

*Permitted letter*

*7.10.1/05/2/2020*

**Principal**  
Govt. Degree College,  
Luxettipet-504 215



GOVERNMENT DEGREE COLLEGE LUXETTIPET

NOTICE

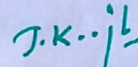
DATE: 5/02/2020

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 ~~06/02/2020 to 12/3/2020~~ in view of making the learning more Awareness in chemistry in daily life. .Hence I inform the all the students to enroll your names, and make it success.



T. MANJULA

Department of CHEMISTRY



Principal  
Principal

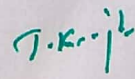
Govt. Degree College,  
Luxettipet-504 215

# **CHEMISTRY IN DAILY LIFE**

## **CERTIFICATE COURSE**

### Syllabus:

- 1) Introduction: PRELIMINARY INFORMATION  
Tooth paste, Soap, Detergent, Sanitizer, Shampoo..... Daily using items  
composition and their applications. .... 5hrs
- 2) Medicines: Paracetamol, Aspirin..... Preparations, Composition, Chemical formula,  
Applications and Side effects. .... 5hrs
- 3) Dyes: Azodye preparation, some synthetic dyes composition and uses .... 5hrs
- 4) Disinfectants : Chemical composition and applications  
N – chloro P – toluene sulfonamide , P- chloro-m- xyleneol –antiviral activity,  
microbiological activity ....5hrs
- 5) Chemical agents commonly used as Disinfectants and Antiseptics :  
Phenolics - Hexachlorophene ....5hrs
- 6) Polymers in Daily life :  
Bakelite, Polyethylene, Polyester, Nylon and Biodegradable polymers ....5hrs

  
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Luxettipet-504 215



# GOVERNMENT DEGREE COLLEGE, LUXETTIPET

## CHEMISTRY IN DAILY LIFE

### LIST OF STUDENTS ENROLLED

#### CERTIFICATE COURSE

Date: 06-02-2020

Sl no	Name of the Student	Hall ticket number	Course and year	signature
1.	A. Pravalika	439204104	MPCs-Ist	Pravalika
2.	A. Akhila	439204105	MPCs-Ist	Akhila
3.	Ch. Ravi Kumar	439204115	MPCs-Ist	Ravi Kumar
4.	D. Divya	439204116	MPCs-Ist	Divya
5.	Ch. sravan Kumar	439204113	MPCs-Ist	Sravan
6.	D. Rakesh	439204118	MPCs-Ist	Rakesh
7.	J. Bhavani	439204130	MPCs-Ist	Bhavani
8.	K. Vamshi Krishna	439204132	MPCs-Ist	Vamshi
9.	K. Gayathri	439204133	MPCs-Ist	Gayathri
10.	L. Rajendra Prasad	439204138	MPCs-Ist	Raj
11.	M. Kavitha	439204142	MPCs-Ist	Kavitha
12.	M. Ravali	439204143	MPCs-Ist	Ravali
13.	M. Arun Kumar	439204145	MPCs-Ist	Arun
14.	N. Vamshi Krishna	439204146	MPCs-Ist	Vamshi
15.	N. Venkatesh	439204148	MPCs-Ist	Venka
16.	P. Shruthi	439204150	MPCs-Ist	Shruthi
17.	P. Manasa	439204151	MPCs-Ist	P.Manasa
18.	P. sharanya	439204153	MPCs-Ist	sharanya
19.	S. Mounika	439204155	MPCs-Ist	Mounika
20.	S. Laxmi	439204157	MPCs-Ist	Laxmi

J.K.JL

**Principal**  
Govt. Degree College,  
Luxettipet-504 215



CLASS

SECTION

## విద్యార్థుల హాజరు పట్టిక

## STUDENT ATTENDANCE REGISTER

MONTH

Feb - 2020

YEAR

2020

F. No. 24014102

S.No.	Admission No.	Name of the Pupil	Father's Name	Mother's Name	Class	Register No.
1.		A. Pravalika		439204104	MPKs-T	
2.		A. Akhila		439204105	MPKs-T	
3.		Ch. Ravikumar		439204115	MPKs-T	
4.		D. Divya		439204116	MPKs-T	
5.		Ch. Shavan Kumar		439204113	MPKs-T	
6.		D. Rakesh		439204118	MPKs-T	
7.		J. Bhavani		439204130	MPKs-T	
8.		K. Vamsi Krishna		439204132	MPKs-T	
9.		K. Gayathri		439204133	MPKs-T	
10.		L. Rajendra Prasad		439204138	MPKs-T	
11.		M. Kavitha		439204142	MPKs-T	
12.		M. Ravali		439204143	MPKs-T	
13.		M. Azim Kumar		439204145	MPKs-T	
14.		N. Vamsi Krishna		439204146	MPKs-T	
15.		N. Venkatesh		439204148	MPKs-T	
16.		P. Shrutu		439204150	MPKs-T	
17.		P. Manasa		439204151	MPKs-T	
18.		P. Shashanya		439204153	MPKs-T	
19.		S. Manmika		439204155	MPKs-T	
20.		S. Laxmi		439204157	MPKs-T	

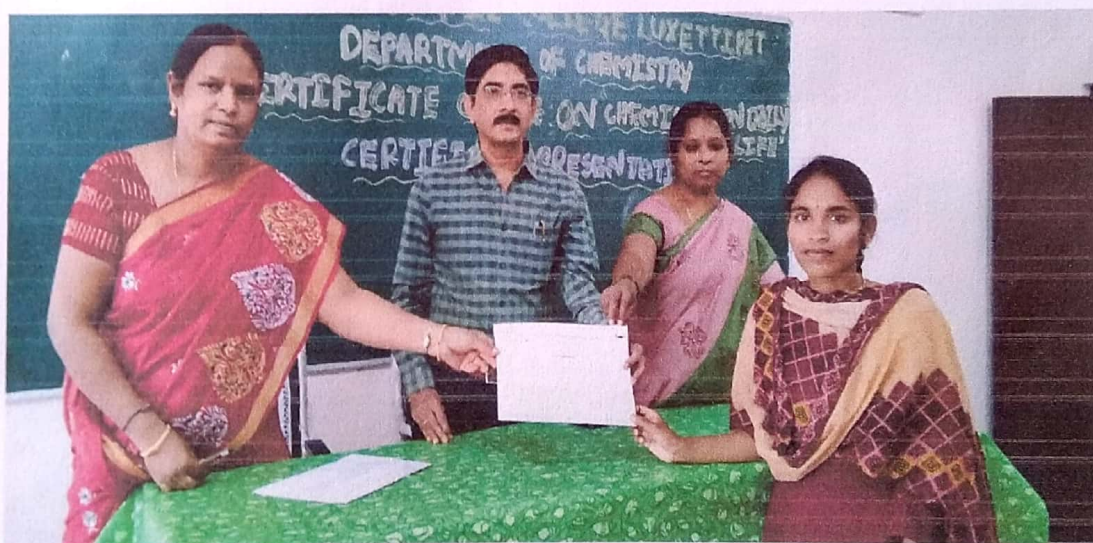
పాఠశాల పనిదినములు

Feb - 2020

March - 2020

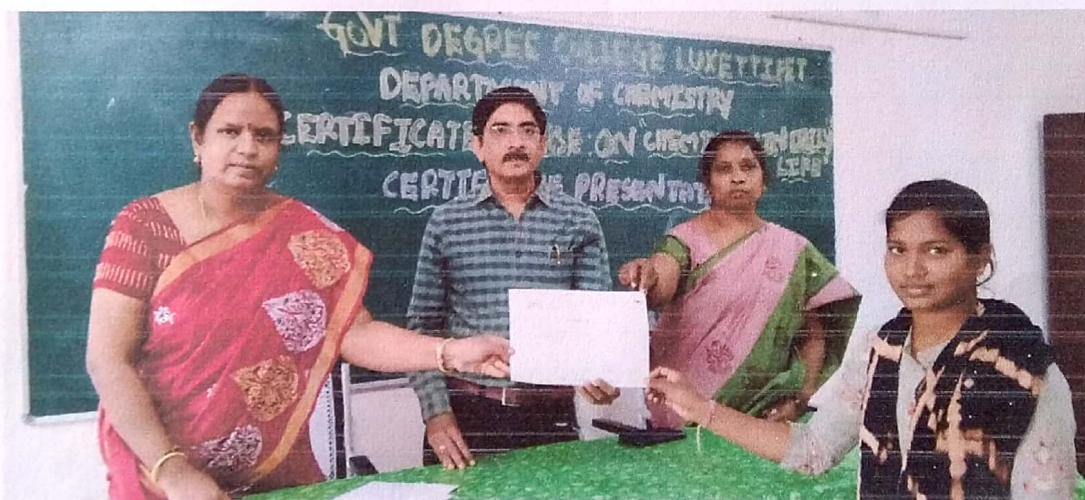
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**Principal**  
Govt. Degree College,  
Luxettipet-504 215





*N.K.jk*

**Principal**  
Govt. Degree College,  
Luxettipet-504 215



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45

GOVERNMENT DEGREE COLLEGE LUXETTIPET

EXAMINATION

CHEMISTRY IN DAILY LIFE

Ch. Shavan Kumar

439204113

Date: 11/03/2020

Max.Marks: 50

Multiple choice question 5X2=10

1. The commercial name of polyacrylonitrile is..... ( ) B  
a) Dacron  
b) Orlon (acrilan)  
c) PVC  
d) Bakelite
2. Which of the following statements is not true about low density polythene ( ) C  
a) Tough  
b) Hard  
c) Poor conductor of electricity  
d) Highly branched structure
3. Vulcanisation makes rubber..... ( ) A  
a) More elastic, more stiff  
b) Crystalline  
c) Soluble in inorganic solvent  
d) None
4. Which of the following is an anionic detergent? ( ) B  
a) Sodium stearate  
b) Sodium Lauryl Sulphate  
c) Cetyl trimethyl ammonium bromide  
d) Glyceryl oleate
5. Which of the following is a bactericidal antibiotic? ( ) A  
a) Ofloxacin  
b) Tetracycline  
c) Chloramphenicol  
d) Erthromycin



### Short answer questions

10X2=20

1. Name two types of chemical messengers? *Neurotransmitter, Hormones*
2. Name the medicine which can act as analgesic as well as antipyretic? *Paracetamol*
3. Name the constituents of Dettol? *Chloroxylenol, isopropanol*
4. Name the antibiotic used in typhoid fever? *Azithromycin*
5. Why is ethanol added to soap? *It has Antimicrobial Activity*
6. Though saccharin is 550 times sweeter than sugar, it is used as a -  
sweetening agent by diabetic patient why? *It doesn't affect Sugar Level*
7. Insulin production and its action in the human body are responsible for  
the level of diabetes. This compound belongs to which category? *Hormones*
8. What is the monomer of polythene? *ethene*
9. What is the chemical name of natural rubber? *cis - polyisoprene*
10. What is monomer of Teflon?  *$CF_2 = CF_2$*

### Long Answer Questions

4X5=20

- 1) Explain natural dyes and synthetic dyes with examples.
- 2) How can you prepare azo dye in lab?
- 3) How do you prepare simple soap? Explain.
- 4) Prepare a pure sample of Paracetamol.



1) Explain natural dyes and synthetic dyes with examples.

Ans:- \* Natural dyes are obtained from plants.

ex- Turmeric, Indigo, methyl orange.

\* Synthetic dyes are prepared artificially in laboratory.

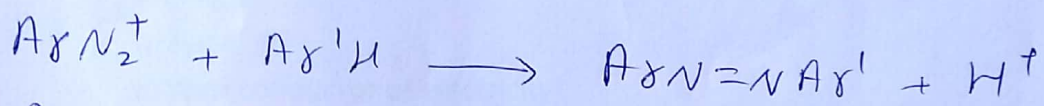
ex:- Orange ~~br~~, etc...

2) How can you prepare Azo dye in lab?

Ans:-  $\Rightarrow$  Azo dyes are prepared by Azo coupling.

$\Rightarrow$  It is an electrophilic substitution reaction

$\Rightarrow$  Aryl diazonium cation is reacted with another compound.



$\Rightarrow$  Azo dyes are also prepared by the condensation of nitro aromatic compounds with Aniline followed by reduction.

3) How do you prepare simple soap?

Ans:- \* Mix water and lye and let it set aside.

\* Boil oil more and keep it aside to let it cool.

\* Blend lye water and oil to form Soap Batter.

\* Pour the batter into moulds and keep it aside.



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Ansi

GOVERNMENT DEGREE COLLEGE LUXETTIPET

EXAMINATION

CHEMISTRY IN DAILY LIFE

K. Vamsi Krishna

HT. NO: 439204132

MPC-Ist year.

Max. Marks: 50

Date: 11-03-2020

Multiple choice question

5X2=10

1. The commercial name of polyacrylonitrile is..... **b** ( )  
a) Dacron  
b) Orlon (acrilan)  
c) PVC  
d) Bakelite
2. Which of the following statements is not true about low density polythene ( ) **c**  
a) Tough  
b) Hard  
c) Poor conductor of electricity  
d) Highly branched structure
3. Vulcanisation makes rubber..... ( ) **c**  
a) More elastic, more stiff  
b) Crystalline  
c) Soluble in inorganic solvent  
d) None
4. Which of the following is an anionic detergent? ( ) **b**  
a) Sodium stearate  
b) Sodium Lauryl Sulphate  
c) Cetyl trimethyl ammonium bromide  
d) Glyceryl oleate
5. Which of the following is a bactericidal antibiotic? ( ) **b**  
a) Ofloxacin  
b) Tetracycline  
c) Chloramphenicol  
d) Erthromycin



### Short answer questions

10X2=20

1. Name two types of chemical messengers? *Neurotransmitters, Hormones*
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4. Name the antibiotic used in typhoid fever? *?*
5. Why is ethanol added to soap? *Because ethanol has antimicrobial activity*
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8. What is the monomer of polythene? *Ethylene*
9. What is the chemical name of natural rubber? *cis-polyisoprene*
10. What is monomer of Teflon? *Tetra fluoro carbon ethene*

### Long Answer Questions

4X5=20

- 1) Explain natural dyes and synthetic dyes with examples.
- 2) How can you prepare azo dye in lab?
- 3) How do you prepare simple soap? Explain.
- 4) Prepare a pure sample of Paracetamol.



## Long Answer questions

1) Explain natural dyes and synthetic dyes with examples.

A) Natural dyes

Natural dyes are dyes or colorants derived from plants, invertebrates or minerals. The majority of natural dyes are vegetable dyes from plant sources - roots, berries, bark, leaves and wood - and other biological sources like fungi.

Examples: ① Turmeric ② Indigo ③ Hina etc...

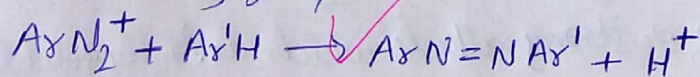
Synthetic dyes

A colorant/Synthetic dye is any substance that changes the spectral transmittance (or) reflectance of the material. These are usually prepared in the laboratory i.e. which are synthetically manufactured using synthetic chemicals that contrast the natural dyes.

Examples: ① Orange G ② Eosin Y ③ Basic fuchsin etc....

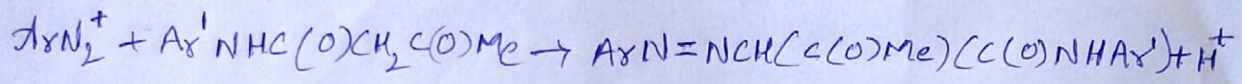
2) How can you prepare azo dye in lab?

Most of azo dyes are prepared by azo coupling, which entails an electrophilic substitution reaction of an aryl diazonium cation with another compound, the coupling partner. Classically coupling partners are other aromatic compounds with electron-donating groups.

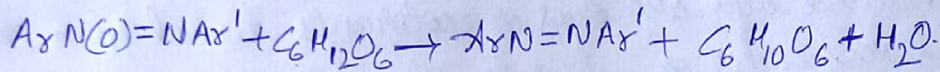
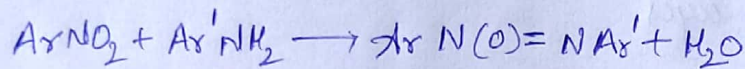


In practice, acetoacetic amide are widely used as coupling partners





Azodyes are also prepared by the condensation of nitroaromatics with anilines followed by reduction of the resulting azoxy intermediate.



For textile dyeing, a typical nitro coupling partner would be disodium 4,4'-dinitrostilbene-2,2'-disulfonate. Typical aniline partners are shown below. Since anilines are prepared from nitro compounds, some azodyes are produced by partial reduction of aromatic nitro compounds.

Many azodyes are produced by reactions from pre-existing azo compounds. Typical reactions include metal complexation and acylation.

### 3) How do you prepare Simple Soap? Explain.

Process for making a simple soap

- ⇒ Mix water and lye<sup>(saturated)</sup>, set aside to cool
- ⇒ Melt oils, set aside to cool [Melt i.e. boil more]
- ⇒ Blend lye water and oil to form a soap "batter"
- ⇒ Pour into mold and let harden for a day
- ⇒ Turn out of mold, cut into bars and let cure for 2-3 weeks

#Lye ⇒ metal hydroxide traditionally obtained by leaching wood ashes, or strong alkali which is highly soluble in water producing caustic basic solutions.






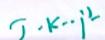
**Government Degree College, Luxettipet**  
**Dist. Mancherial**  
( Email: [gdclxpt@gmail.com](mailto:gdclxpt@gmail.com) )

Date: 12-03-2020

**Certificate**

This is to certify that ..... S. LAXMI ..... Studying  
M.P.C.S.I. Year at this college completed the certificate course on " Chemistry in Daily life " Offered by  
Department of Chemistry for the academic year 2019-20 from 6th February to 12th March with  
..... A ..... grade.

  
(T Manjula )  
COORDINATOR

  
(Dr Jai Kishan Ojha)  
**Principal**  
Government Degree College,  
Luxettipet-504 215

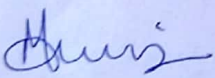


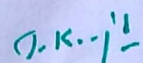
**GOVERNMENT DEGREE COLLEGE, LUXETTIPET**

**FEEDBACK REPORT**

DATE: 12/03/2020

Name of the student	S. LAXMI
Course and Academic Year	M.P. Cs. Ist Year
Name of the programme	CHEMISTRY IN DAILY LIFE
<u>Questionnaire for the programme</u>	
1. Are you satisfied by the programme?	Yes
2. What did you learn from the programme?	Applications of chemistry in real life
3. Is it useful to improve your skills?	Yes.
4. Can you apply this in generating self employment?	Yes.
5. Any suggestions by you regarding the programme?	Some more classes requires

  
PROGRAMME CO-ORDINATOR

  
PRINCIPAL  
**Principal**  
Govt. Degree College,  
Luxettipet-504 215




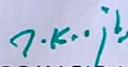
**GOVERNMENT DEGREE COLLEGE, LUXETTIPET**

**FEEDBACK REPORT**

DATE: 12.03.2020

Name of the student	P. Manasa
Course and Academic Year	M.P.Cs 1st year
Name of the programme	Chemistry in Daily life
<u>Questionnaire for the programme</u>	
1. Are you satisfied by the programme?	yes
2. What did you learn from the programme?	Applications of Chemistry
3. Is it useful to improve your skills?	yes
4. Can you apply this in generating self employment?	yes
5. Any suggestions by you regarding the programme?	-

  
PROGRAMME CO-ORDINATOR

  
PRINCIPAL

**Principal**  
Govt. Degree College,  
Luxettipet-504 215



# **CHEMISTRY IN DAILY LIFE**

## **COURSE SUMMARY**

### **COURSE GENERAL OBJECTIVE**

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 fundamentals 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 glass ware safety.
- Simple reactions and chemical composition.