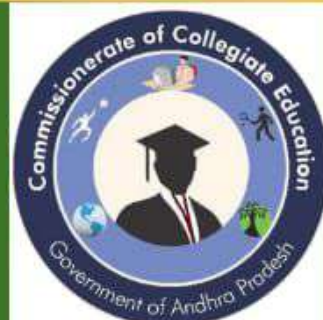


**V.V.Giri Government Degree  
Kalasala**

**Dumpagadapa, West Godavari Dist**



# CERTIFICATE COURSE

ON

Preparation Of Laboratory Reagents

And Solutions

Course duration: 10<sup>th</sup> November 2022 to 20<sup>th</sup> January 2023

*Organised by Department Of Chemistry*

**Coordinator:** Dr.A.Indira, Lecturer in Chemistry

**Convener:** Dr.K.Sujatha, Principal, V.V.Giri Govt Kalasala





# V.V.GIRI GOVT. KALASALA

DUMPAGADAPA, W.G.Dist., (via) AKIVIDU - 534 235

Accredited by NAAC @ B+

College Code : **AKNU323**



Dr. K. SUJATHA, M.Sc., Ph.D.,  
PRINCIPAL  
Cell : 9440230091

E-mail : [gdcdumpagadapa.jkc@gmail.com](mailto:gdcdumpagadapa.jkc@gmail.com)  
Website : [www.dumpagadapa.ac.in](http://www.dumpagadapa.ac.in)

## CIRCULAR

Dt: 28.10.2022

Ref: Minutes of the meeting of the IQAC point 4 held on 12.10.2022

As per the references cited above, our college IQAC resolved to approve the following certificate courses for the following Science departments given in the table below. It has approved the course syllabus, course duration from 30-40 hours to be finished within 3 month i.e (November,2022 to January,2023), Brochure to be circulated course and exam to be conducted, attendance and marks statements to be maintained and certificate of completion to be provide at the end of the course.

S.No	Name of the department	Title of the certificate course	Course code	Remaks
1.	Mathematics	Numerical ability	MAT-CC-NA	
2.	Physics	Analyzing techniques of Nonomaterials	PHY-CC-ATN	
3.	Chemistry	Preparation of Laboratory reagents and solutions	CHE-CC-PLR	
4.	Computer Sciences	Web designing	CS-CC-WD	

Copy to all the departments  
copy to file

*K. Sujatha*  
Principal  
PRINCIPAL

V.V. Giri Government Kalasala  
DUMPAGADAPA



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Website : www.dumpagadapa.ac.in

## Student enrollment list

Name of the department: **Chemistry**

Duration of the course: 40 periods

Title of the certificate course: **"Preparation of Laboratory Reagents and Solutions"**

Course code: CHE-CC-PLRS

S.no	Roll number	Name of the student	Class	Signature
1	213237101001	D.BEULAH RANJANI	II MPC	D.Beulah Rajani
2	213237101002	MD.RUKSANA TARANNUM	II MPC	MD. Ruksana
3	213237101003	M.GANESH	II MPC	M. Ganesh
4	213237101004	M.JYOTHI	II MPC	M. Jyothi
5	213237101005	M.KEERTHANA	II MPC	M. Keerthana
6	213237101006	N.BALADITYA	II MPC	N. Baladitya
7	213237101007	N.MOUNIKA	II MPC	N. Mounika
8	213237101009	S.JYOTHI	II MPC	S. Jyothi
9	213237101010	SK.HAMEED	II MPC	Not Enrolled.

A. Prudhvi

K. Sujatha  
PRINCIPAL

V.V. Giri Government Kalasala  
DUMPAGADAPA



V.V Giri Government Kalasala, Dumpagadapa

Department of Chemistry

Certificate course-2022-23

Syllabus

Course title: "Preparation of Laboratory reagents and Solutions"

Duration: 40hrs

Unit-I 10Hrs

Introduction, General instructions, Safety symbols

Unit-II 10Hrs

Preparation of common Solutions

1. Dilute Hydrochloric acid
2. Dilute Acetic acid
3. Dilute Nitric acid
4. Dilute Sulphuric acid
5. Ammonium Hydroxide Solution
6. Sodium Hydroxide Solution

Unit-III 10Hrs

Preparation of common Indicators

1. Starch
2. Methyl orange solution
3. Phenolphthalein solution
4. Eriochrome black-T reagent

Unit-IV 10Hrs

Preparation of common Reagents

1. Tollens Reagent
2. Felling's Reagent
3. Neutral  $\text{FeCl}_3$  Solution
4. 2, 4-DNP Reagent
5. Molish's Reagent
6. Schiff's Reagent

A. Pudiw.

K. Sujatha  
PRINCIPAL  
V.V. Giri Government Kalasala  
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## Exam-Absentee statement

Name of the department: **Chemistry**

Duration of the course: 40 periods

Title of the certificate course: **"Preparation of Laboratory Reagents and Solutions"**

Course code: CHE-CC-PLRS

Date of Exam: **24/01/2023**

Total Marks: 25M

S.no	Roll Number	Name of the student	Signature of the student
1	213237101001	D.BEULAH RANJANI	D. Beulah Rajani
2	213237101002	MD.RUKSANA TARANNUM	MD. Ruksana
3	213237101003	M.GANESH	M. Ganesh
4	213237101004	M.JYOTHI	M. Jyothi
5	213237101005	M.KEERTHANA	M. Keerthana
6	213237101006	N.BALADITYA	N. Baladitya
7	213237101007	N.MOUNIKA	N. Mounika
8	213237101009	S.JYOTHI	S. Jyothi
9	213237101010	Sk.HAMEED	— ABSENT —

A. Indira

K. Sujatha  
PRINCIPAL  
V.V. Giri Government Kalasala  
DUMPAGADAPA

**V.V. GIRI GOVERNMENTKALASALA, DUMPAGADAPA**

**Department of Chemistry**

**Certificate course-2021-22**

Name of the department: **Chemistry**

Duration of the course: **40 periods**

Title of the certificate course: **"Preparation of Laboratory Reagents and Solutions"**

Course code: **CHE-CC-PLRS**

Answer the following questions

1. Standard solution means -----
2. Gram equivalent weight of chlorine-----
3. Calculate the normality of NaOH solution formed by dissolving 0.2 gm NaOH to make 250 ml solution.
  
4. One Normal solution means-----
5. One molar solution means-----
6. Molecular mass of NaOH is-----
7. Starch indicator with metal solution gives -----colour.
8. Methyl orange indicator pH range is -----
9. Color of Phenolphthalein with base solution is-----
  
10. EBT means -----indicator
  
11. 0.4 gms of EBT is dissolved in dissolved 100ml of-----
  
12. Tollens reagent means-----
  
13. Fehlings solution is -----+-----+-----
  
14. Preparation of neutral  $FeCl_3$  solution-----
  
15. 2,4,DNP means-----
  
16. Molisch reagent is-----
  
17. Schiff's reagent is combination of -----
  
18. Schiff's reagent with acetaldehyde gives-----
  
19. Give terms for concentration of solutions-----
  
20. 2,4 DNP with carbonyl compound-----



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Website : www.dumpagadapa.ac.in

## Marks Statement

Name of the department: **Chemistry**

Duration of the course: **40 periods**

Title of the certificate course: **"Preparation of Laboratory Reagents and Solutions"**

Course code: **CHE-CC-PLRS**

Date of Exam: **24/01/2023**

Total Marks: **25M**

S.no	Roll Number	Name of the student	Marks	Remaks
1	213237101001	D.BEULAH RANJANI	16	
2	213237101002	MD.RUKSANA TARANNUM	20	
3	213237101003	M.GANESH	18	
4	213237101004	M.JYOTHI	18	
5	213237101005	M.KEERTHANA	19	
6	213237101006	N.BALADITYA	20	
7	213237101007	N.MOUNIKA	17	
8	213237101008	S.NANDINI	—	—
9	213237101009	SJYOTHI	20	
10	213237101010	SH.HAMEED	—	—

*A. Indira*  
Lect. in Chemistry

*K. Sujatha*  
PRINCIPAL  
V.V. Giri Government Kalasala  
DUMPAGADAPA





# V.V.GIRI.GOV'T.KALASALA



DUMPAGADAPA,(via) AKIVIDU,W.G.Dsit., - 534 235

## Certificate of Completion

This is certify that Mr / Ms. S.JYOTHI

Class 2<sup>nd</sup> BSc(MPC) Registered No 213237101009 has successfully completed a certificate Course of 40 hours on "Laboratory reagents and Solutions" conducted by the Department of **Chemistry** from **10-11-2022 to 20-01-2023.**



A. Rudiew

Corse Co-Ordinator

Crissy Anil Dni

IQAC Co-Ordinator

K. Sujatha

PRINCIPAL  
V.V. Giri Government Kalasala  
DUMPAGADAPA

Principal





# V.V.GIRI.GOV'T.KALASALA



DUMPAGADAPA,(via) AKIVIDU,W.G.Dsit., - 534 235

## Certificate of Completion

This is certify that Mr / Ms. M.KEERTHANA

Class 2<sup>nd</sup> BSc(MPC) Registered No 213237101005 has successfully completed a certificate Course of 40 hours on "Laboratory reagents and Solutions" conducted by the Department of **Chemistry** from **10-11-2022 to 20-01-2023**.

A. Rudiew

Corse Co-Ordinator

Crign Anil Dni

IQAC Co-Ordinator

K. Sujatha

PRINCIPAL  
V.V. Giri Government Kalasala  
DUMPAGADAPA

Principal





# V.V. GIRI GOVT. KALASALA



DUMPAGADAPA, (via) AKIVIDU, W.G. Dsit., - 534 235

## Certificate of Completion

This is certify that Mr / Ms. N.BALA ADITYA

Class 2<sup>nd</sup> BSc(MPC) Registered No 213237101006 has successfully completed a certificate Course of 40 hours on "Laboratory reagents and Solutions" conducted by the Department of **Chemistry** from **10-11-2022 to 20-01-2023.**

*A. Rudiew*

Corse Co-Ordinator

*Crign Anil Dni*

IQAC Co-Ordinator

*K. Sujatha*

PRINCIPAL  
V.V. Giri Government Kalasala  
DUMPAGADAPA

Principal

