

**KNM GOVERNMENT DEGREE COLLEGE,
MIRYALAGUDA, NALGONDA DIST**

(Affiliated to Mahatma Gandhi University)



DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE

ON

**“CHEMISTRY LABORATORY SAFETY RULES AND
REGULATIONS”**

ACADEMIC YEAR- 2021-22

[FROM 25-10-2021 TO 29-11-2021]

No. of Participants: 25

No. of Hours: 30

Time: 4.30 pm

**KNM GOVERNMENT DEGREE COLLEGE, MIRYALAGUDA
NALGONDA DIST**

DEPARTMENT OF CHEMISTRY

PERMISSION LETTER

Date 20-10-2021

The Principal,
KNM Government Degree College,
Miryalguda,
Nalgonda Dist.

Respected Sir,

Sub:- Department of Chemistry - Seeking Permission to start Certificate
Course in Chemistry in our college Request-Reg.

-o0o-

We the Department of Chemistry would like to start Certificate Course in Chemistry in
our college for the academic year 2021 for the betterment of B.Sc. Chemistry students.

Hence, I request you to permit me to start the Certificate Course on "**CHEMISTRY
LABORATORY SAFETY RULES AND REGULATIONS**" for the academic year
2021-22..

Thanking you sir,

Yours faithfully


In-charge
Department of Chemistry

CIRCULAR

Date: 21-10-2021

All the students are here by informed that we, the Department of Chemistry planning to Start "CERTIFICATE COURSE ON CHEMISTRY LABORATORY SAFETY RULES AND REGULATIONS" for a period of 30 hours for this Academic Year 2021-22. The classes will be conducted during Zero hours that is from 4:30 P.M to 5:30 P.M (1hour) on all working days. The Detailed scheduled will be intimated Soon. Interested candidates may enrol names in the Chemistry Department on or before.23-10-2021.



In-charge
Department of Chemistry



Principal
K.N.M. Govt. Degree College
MIRYALGUDA

I-B.Sc. (BZC & MPC)

II-B.Sc. (BZC & MPC)

III-B.Sc. (BZC & MPC)

KNM GOVERNMENT DEGREE COLLEGE, MIRYALGUDA

CERTIFICATE COURSE IN "CHEMISTRY LABORATORY
SAFETY RULES AND REGULATIONS"

ACADEMIC YEAR 2021 -20 22

DEPARTMENT OF CHEMISTRY

Sl.No.	Name of the participant	College ID	Group & Year	Student Signature
1	A. Bhavani	20044018445001	B.Sc-B.ZI-II	A. Bhavani
2	A. Saidulu	20044018445002	"	A. Saidulu
3	D. Sheavani	20044018445003	"	D. Sheavani
4	D. Banuprakesh	20044018445004	"	D. Banuprakesh
5	G. Varun Kumar	20044018445008	"	G. Varun Kumar
6	Lavudi Kalyani	20044018445010	"	L. Kalyani
7	M. Mahesh	20044018445011	"	M. Mahesh
8	M.P. Sana	20044018445014	"	M.P. Sana
9	M. Eshwar	20044018445012	"	M. Eshwar
10	R. Shirisha	20044018445017	"	R. Shirisha
11	Sk. Adil	20044018445026	"	Sk. Adil
12	P. Kamalthasan	20094018603002	BZC(CS)	P. Kamalthasan
13	Sk. Mubheena	20094018603003	"	Sk. Mubheena
14	B. Sandeep	210440184451002	BZC(CS) Year	B. Sandeep
15	B. Manicha	210440184451003	" "	B. Manicha
16	CH. ARUN	210440184451006	" "	CH. ARUN
17	G. Premkumar	210440184451007	" "	G. Premkumar
18	G. Siddhartha	210440184451008	" "	G. Siddhartha
19	H. Operana Charly	210440184451009	" "	H. Operana Charly
20	K. Swathi	210440184451012	" "	Swathi. K.
21	K. Rajesh	210440184451013	" "	K. Rajesh
22	L. Poojitha	210440184451014	" "	L. Poojitha
23	M. Krishna	210440184451015	" "	M. Krishna
24	M. Venel	210440184451016	" "	M. Venel
25	N. Shivani	210440184451017	" "	N. Shivani


Course In-Charge


Principal
K.N.M. Govt. Degree College
MIRYALGUDA.



KNM GOVERNMENT DEGREE COLLEGE, MIRYALAGUDA
NALGONDA DIST

DEPARTMENT OF CHEMISTRY

Certificate Course on
"CHEMISTRY LABORATORY SAFETY RULES AND REGULATIONS"

Curriculum of the Certificate Course:

Total Hours: 30

Unit -I

(7 Hours)

- Responsibilities of laboratory workers and supervisors
- "Safety Culture"
- Strategies of inherently safer designs
- Preventive and mitigative safeguards
- Description of the purpose and contents of safety data and hazard identification

Unit -II

(7 Hours)

- Various types of toxicological hazards and common exposure limit measures
- Various types of flammability hazards, ways in which flammability hazards are characterized, and ways in which flammability hazards are mitigated
- Define "chemical reactivity" and describe situations that could present a chemical reactivity hazard

Unit -III

(7 Hours)

- Describe laboratory equipment hazards associated with electrical devices, compressed gas cylinders, refrigerators, drying ovens, glassware, and lasers

Unit - IV

(9 Hours)

- Brief Discussions on Laboratory Safety Rules
- Describe the four steps to an industrial hygiene study
- Describe ways in which personal protective equipment protects workers from vapors, noise, and damage to the eyes, face and hands
- List and apply the eight steps needed to handle chemicals safely


In-charge


Principal
K.N.M. Govt. Degree College
MIRYALAGUDA

CERTIFICATE COURSE ON CHEMISTRY LABORATORY SAFETY RULES AND REGULATIONS

Resource Person: Dr. B. Venkateswarlu, Assistant Professor of Chemistry

Learning outcomes

After studying this course, you should be able to:

- understand the Health and Safety at Work in the chemistry laboratory.
- understand the employers', employees' and visitors' duties
- evaluate hazards and risks in order to carry out a risk assessment
- understand the requirement to report any accident or dangerous occurrence
- develop risk assessments for scientific laboratories that use chemicals.
- **Laboratory Skills and Safety** - Students will use a variety of laboratory techniques to safely conduct chemical experiments and procedures.
- Students will observe safe practices in the laboratory and will know how to respond in an emergency. Students will learn to gather hazardous materials information and will recognize and respond properly to potential hazards of handling chemicals and chemical waste.
- **Readiness for Career or Advanced Degree** - Chemistry major graduates will be prepared to pursue a career or an advanced degree in chemistry or a chemistry-related field.
- Students will work successfully both independently and as part of a team.
- To understand and present the chemical transformation and chemical process that are involved in every day chemical product especially related to community concerns regarding the impact of chemistry on our lives.
- To formulate fact-based positions on societal issues of chemistry and provide Inter disciplinary understanding to support.

CERTIFICATE COURSE IN CHEMISTRY LABORATORY SAFETY RULES AND REGULATIONS
 DEPARTMENT OF CHEMISTRY

K.N.H. GOVERNMENT DEGREE COLLEGE, MIRYALGUDA

Attendance sheet :: AY 2021 - 2022

Sl. No	Name of the participant	Date & Month																														Student Signature			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
1	A. Bhavani	1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27			A. Bhavani			
2	A. Saidulu	1	2	3	4	5	6	7	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27			A. Saidulu			
3	D. Shrivani	1	2	3	4	5	6	7	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27			D. Shrivani			
4	D. Ranu Prakash	1	2	3	4	5	6	7	8	9	10	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27			D. Ranu Prakash			
5	G. Varun Kumar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			G. Varun Kumar		
6	L. Kalyani	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			L. Kalyani	
7	M. Mahesh	1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			M. Mahesh	
8	M. Ashwar	1	2	3	4	5	6	7	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			M. Ashwar	
9	M.D. Sana	1	2	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			M.D. Sana	
10	R. Shristha	1	1	2	3	4	5	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			R. Shristha
11	R. Adil	1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			R. Adil	
12	P. Kamalhasan	1	2	3	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			P. Kamalhasan	
13	SK. Mubeena	1	1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			SK. Mubeena
14	B. Sandeep	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			B. Sandeep		
15	B. Manish	1	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			B. Manish	
16	Ch. Arun	1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			Ch. Arun	
17	P. Premkumar	1	1	2	3	4	5	6	7	8	9	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			P. Premkumar
18	G. Siddhartha	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			G. Siddhartha		
19	K. Opendra chary	1	2	3	4	5	6	7	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			K. Opendra chary	
20	K. Swathi	1	2	3	4	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			K. Swathi	
21	K. Rajesh	1	2	3	4	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			K. Rajesh
22	L. Poojitha	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			L. Poojitha		
23	M. Krishna	1	2	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			M. Krishna	
24	M. Venu	1	2	2	3	4	5	6	7	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			M. Venu
25	N. Chivani	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			N. Chivani		

BW

Principal
 K.N.H. Govt. Degree College
 Miryalguda

KNM GOVERNMENT DEGREE COLLEGE, MIRYALGUDA
NALGONDA DIST

DEPARTMENT OF CHEMISTRY

Model Student Feedback Form

**CERTIFICATE COURSE ON CHEMISTRY LABORATORY SAFETY RULES AND
REGULATIONS**

Resource Person: Dr. B. Venkateswarlu, Assistant professor of Chemistry

Sl.No	Questionnaire	Excellent	Very Good	Good	Average	Poor
1	Syllabus frame work					
2	Coverage of Syllabus					
3	Course Methods					
4	Explanation of the topics					
5	Interaction					
6	Doubts clarification					
7	Teacher presentation					
8	Interest Generation					
9	Time Management					
10	Overall opinion					

Signature of the student

KNM GOVERNMENT DEGREE COLLEGE, MIRYALGUDA
NALGONDA DIST

DEPARTMENT OF CHEMISTRY

Student Feedback analysis on

**CERTIFICATE COURSE ON CHEMISTRY LABORATORY SAFETY RULES AND
REGULATIONS**

Resource Person: Dr. B. Venkateswarlu, Assistant Professor of Chemistry

Sl.No	Questionnaire	Excellent	Very Good	Good	Average	Poor	Total
1	Syllabus frame work	20	3	2	0	0	25
2	Coverage of Syllabus	24	1	0	0	0	25
3	Course Methods	22	1	2	0	0	25
4	Explanation of the topics	23	1	1	0	0	25
5	Interaction	21	3	2	0	0	25
6	Doubts clarification	23	2	0	0	0	25
7	Teacher presentation	22	2	0	1	0	25
8	Interest Generation	20	3	1	1	0	25
9	Time Management	24	1	0	0	0	25
10	Overall opinion	23	1	1	0	0	25
Remarks of the Principal				Very Good			

B.V.

J. Ramens
Principal
K.N.M. Govt. Degree College
MIRYALGUDA

MODEL CERTIFICATES

KNM GOVERNMENT DEGREE COLLEGE MIRYALAGUDA NALGONDA DIST - TS

(Affiliated to Mahatma Gandhi University, Nalgonda)



CERTIFICATE

This is to certify that Mr/Miss: *SK. Mubeena* , II-B.Sc. (BZCA). EM Year bearing Roll. No. 20044018603003 has successfully completed the certificate course in "CHEMISTRY LABORATORY SAFETY RULES AND REGULATIONS" organized by Department of Chemistry for the Academic Year 2021-22

PNV
Coordinator

[Signature]

Principal



KNM GOVERNMENT DEGREE COLLEGE MIRYALAGUDA NALGONDA DIST - TS

(Affiliated to Mahatma Gandhi University, Nalgonda)



CERTIFICATE

This is to certify that Mr/Miss: *Md. Sana* , II-B.Sc. (BZC). EM Year bearing Roll. No. 20044018445014 has successfully completed the certificate course in "CHEMISTRY LABORATORY SAFETY RULES AND REGULATIONS" organized by Department of Chemistry for the Academic Year 2021-22

PNV
Coordinator

[Signature]

Principal



KNM GOVERNMENT DEGREE COLLEGE, MIRYALGUDA
NALGONDA DIST


DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE ON CHEMISTRY LABORATORY SAFETY AWARENESS

Certificate Course Summary

1. Name of the course : Chemistry Laboratory safety awareness
2. Name of the Course Coordinator: Dr. B. Venkateswarlu
3. Number of students participated: : 25
4. Number of students completed the course : 25
5. Number of hours taken : 30 Hours
6. Date of the course (From – To) :
7. No. of certificates issued : 25


Course Co-ordinator


Principal
K.N.M. Govt. Degree College
MIRYALGUDA