

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

(Affiliated to Mahatma Gandhi University)



**DEPARTMENT OF CHEMISTRY**

**CERTIFICATE COURSE**

*ON*

**“LABORATORY SAFETY”**

**ACADEMIC YEAR- 2022-23**

**[FROM 01-02-2023 TO 16 - 03 -2023]**

**No. of Participants: 30**

**No. of Hours: 30**

**Time: 4.30 PM to 5.30PM**

**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.

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We the Department of Chemistry would like to start Certificate Course in Chemistry in  
our college for the academic year 2022-23 for the B.Sc. Chemistry students.

Hence, I request you to permit me to start the Certificate Course on "**LABORATORY  
SAFETY**" for the academic year 2022-23.

Thanking you sir,

Yours faithfully



In-charge  
Department of Chemistry

KNM GOVT. DEGREE COLLEGE, MIRYALGUDA  
Department of Chemistry

**Notice**

Date: 23-01-2023

All the B.Sc. Chemistry students are hereby informed that we, the Department of Chemistry planning to Start "CERTIFICATE COURSE LABORATORY SAFETY" for a period of 30 hours for this Academic Year (i.e. 2022-23). The classes will be conducted during Zero hours that is from 4.30 PM to 5.30 PM (1hour) on all working days. The Detailed scheduled will be intimated Soon. Interested candidates were instructed to enrol names in the Chemistry Department on or before.30-01-2023.



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

In-charge & Principal

**CERTIFICATE COURSE IN "LABORATORY SAFETY"**  
**Student Enrolment sheet: 2022-23**

KNM GOVERNMENT DEGREE COLLEGE, MIRYALGUDA

**Department of Chemistry**

**CERTIFICATE COURSE IN "LABORATORY SAFETY"**

Academic Year – 2022-23

Student registration sheet

Sl.No.	Name of the Participant	Group & Year	H.T. No	Signature
1	B. Manasa	BZC-1 <sup>st</sup>	220440184451002	B. Manasa
2	L. Pavan	BZC-I	220440184451007	L. Pavan
3	M. Madhu	BZC-I	220440184451008	M. Madhu
4	N. Keerthana	BZC-I	220440184451010	N. Keerthana
5	P. Ranjith Kumar	BZC-I	220440184451011	P. Ranjith Kumar
6	P. Siddhartha	BZC-I	220440184451012	P. Siddhartha
7	P. Shrawan Kumar	BZC-I	220440184451013	P. Shrawan
8	R. Shanker	BZC-I	220440184451014	R. SHANKAR
9	S.K. Akbarpasha	BZC-I	220440184451015	Akbarpasha
10	V. Ramgopal	BZC-I	220440184451016	V. Ramgopal
11	Y. Naveen	BZC-I	220440184451017	Y. Naveen
12	A. Kavya	BZC-I	220440185791001	A. Kavya
13	J. Lavanya	BZC-I	220440185791002	J. Lavanya
14	K. Kumar	BZC-I	220440185791003	K. Kumar
15	M. Poojitha	BZC-I	220440185791005	M. Poojitha
16	K. Ganesh	M.P.C-I	220440184411002	K. Ganesh
17	R. Vamshi	M.P.C-I	220440184411005	R. Vamshi
18	MD. Yasmeen	MPC-I	220440184411003	MD. Yasmin
19	K. Sriharsh	MPC-I	220440184681002	K. Sriharsh
20	P. Mounika	MPC-I	220440184681004	P. Mounika
21	G. Mohan	MCC-I	220440185781001	G. Mohan
22	P. Uday Kiran	MCC-I	220440185781004	P. Uday Kiran
23	N. Kotes	MCC-I	220440185781003	N. Kotes
24	K. Veerender	MPC-II	210440184411003	K. Veerender
25	L. Shirisha	MPC-II	210440184411005	L. Shirisha
26	P. Madhu	MPC-II	210440184411006	P. Madhu
27	R. Immaneyulu	MPC-II	210440184411007	R. Immaneyulu
28	V. Naveen	MPC-II	210440184411008	V. Naveen
29	D. Vamshi	MCC-I	210440185781001	D. Vamshi
30	K. Jeevan Kumar	MCC-I	210440185781002	K. Jeevan Kumar

*[Signature]*  
Incharge

*[Signature]*  
Principal  
K.N.M. Govt. Degree College  
MIRYALGUDA



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

**DEPARTMENT OF CHEMISTRY  
CERTIFICATE COURSE IN "LABORATORY SAFETY"**

:

**Total Hours: 30**

**COURSE CONTENT:**

**MODULE-1:**

**7 Hours**

Introduction, safety training, general lab safety, emergency management, waste management, chemical safety, biosafety, radiation safety, laser safety, compressed gas safety, fume hood safety, personal protective equipment, electrical safety, clean room safety.

**MODULE-2:**

**7 Hours**

Administrative controls, orientation and training, standard operating procedures safety signs, procedural controls, housekeeping, Do's and Don'ts in the laboratory, working alone, unattended operations, access to laboratories, laboratory design, Energy conservation in the laboratories.

**MODULE-3:**


**8 Hours**

Personal Protective equipment's: Introduction, hazard assessment, eye and face protection, head protection, hand protection, protective clothing, respiratory protection, hearing protection, foot protection.

**MODULE-4:**

**8 Hours**

Glassware, glassware inspection, safe handling and storage, working with glass wares, vacuum and pressure operations, cleaning and drying glass wares, disposal and spill cleanup. Chemical safety, chemical exposure and monitoring, chemical storage guidelines, Cryogenic safety, biological safety, biological safety levels, safety data sheets for infectious. Clean room safety, introduction to waste management, chemical waste disposal, biological waste disposal, glass disposal, emergency procedures, response to incidents and accidents

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

In-charge & Principal

## **CERTIFICATE COURSE IN “*LABORATORY SAFETY*”**

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

### **Learning outcomes**

**After completion of the course student will be able to:**

- ❖ Work safely in any laboratory/Company
- ❖ Learn to understand signages and follow all safety precautions
- ❖ Learn how to handle, store, use and dispose waste safely.
- ❖ Conduct trainings to ensure safety in laboratories

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**II Answer All the questions:**

10M

**True—False**

1. All chemicals in the lab are to be considered dangerous. ( ~~False~~ )
2. Return all unused chemicals to their original containers ( ~~True~~ )
3. Pipets are used to measure and dispense small amounts of liquids. You should draw the liquid into the pipet using your mouth ( ~~False~~ )
4. Laboratory work can be started immediately upon entering the laboratory even if the instructor is not yet present. ( ~~False~~ )
5. Never remove chemicals or other equipment from the laboratory. ( ~~True~~ )
6. All unauthorized experiments are prohibited ( ~~True~~ )
7. You are allowed to enter the chemical preparation/storage area any time you need to get an item. ( ~~False~~ )
8. Laboratory aprons should be worn during all lab activities. ( ~~True~~ )
9. It's okay to pick up broken glass with your bare hands as long as the glass is placed in the trash. ( ~~False~~ )
10. Never leave a lit burner unattended. ( ~~True~~ )

**KNM GOVERNMENT DEGREE COLLEGE, MIRYALGUDA ::NALGONDA DIST**

**DEPARTMENT OF CHEMISTRY**

**Model Student Feedback Form**

**CERTIFICATE COURSE IN "LABORATORY SAFETY"**

Resource Person: Dr. B. BIXAMAIAH, 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 IN "LABORATORY SAFETY"**

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

Sl.No	Questionnaire	Excellent	Very Good	Good	Average	Poor	Total
1	Syllabus frame work	25	3	1	1	0	30
2	Coverage of Syllabus	23	3	2	2	0	30
3	Course Methods	20	5	2	2	1	30
4	Explanation of the topics	22	4	3	0	1	30
5	Interaction	26	3	1	0	0	30
6	Doubts clarification	26	2	2	1	0	30
7	Teacher presentation	27	1	1	1	0	30
8	Interest Generation	25	3	1	1	0	30
9	Time Management	21	6	2	0	1	30
10	Overall opinion	24	3	1	2	0	30
	Remarks of the Principal	Very Good					

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

Course coordinator & Principal

## PARTIPANTS CERTIFICATES

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

**CERTIFICATE**

This is to certify that Mr/Miss **MD. yasmeeen B.Sc. (MPC)** first year bearing H.T. No. **220440184411003** has successfully completed certificate course on "**LABORATORY SAFETY**", Conducted BY **Department of Chemistry** for the Academic Year **2022-23**.

  
In-charge

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

Principal



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

**CERTIFICATE**

This is to certify that Mr/Miss **R. Shanker B.Sc. (BZC)** first year bearing H.T. No. **220440184451014** has successfully completed certificate course on "**LABORATORY SAFETY**", Conducted BY **Department of Chemistry** for the Academic Year **2022-23**.

  
In-charge

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

Principal



KNM GOVERNMENT DEGREE COLLEGE, MIRYALGUDA  
NALGONDA DIST


**DEPARTMENT OF CHEMISTRY**  
**CERTIFICATE COURSE ON CHEMISTRY LABORATORY SAFETY**

**Certificate Course Summary**

1. Name of the course : Laboratory safety
2. Name of the Course Coordinator : Dr. B. Bixamaiah
3. Number of students participated: : 30
4. Number of students completed the course : 30
5. Number of hours taken : 30 Hours
6. Date of the course ( From – To) : 02-02-2023 to 16-03-2023
7. No. of certificates issued : 30



Course Co-ordinator



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

Principal