

S.S.G.M.College,Kopergaon

Department of Chemistry

Skill Development Course 2019-20

Safety & General Awareness in Chemical Industry

Date:18-11-2019

NOTICE

The students of M.SC.-II Chemistry are here by informed that department of chemistry
Is going to conduct a skill development course entitled **Safety & General Awareness in
Chemical Industry** for the year 2019-20.The interested candidates should register their names
To Mr.Sabale (Lab. Assistant).




Head,
HEAD
Deptt. Of Chemistry,
S. S. G M. College, Kopergaon.
S.S.G.M.College,Kopergaon.

Rayat Shikshan Sanstha's
Shri Sadguru Gāngageer Maharaj Science, Gautam Arts & Sanjivani Commerce
College, Kopergaon. Dist-Ahmednagar-423601.

2019-20

Syllabus Approval Letter

The IQAC committee has approved the submitted syllabus of skill development course planned to be conducted by the Department of Chemistry

Sr.No.	Name of course	Type of course
01.	Safety & General Awareness in Chemical Laboratory	Skill Development course

HOD of Chemistry Department may proceed accordingly.

IQAC Co-ordinator




Head
Department of Chemistry
S.S.G.M. College, Kopergaon

Rayat Shikshan Sanstha's,
S.S.G.M. College, Kopargaon
Department of Chemistry
Skill Development Course (Two Months)

Safety & General Awareness in Chemical Laboratory

Aims and objectives of the syllabus:

- 1) Students are expected to understand knowledge of safety precaution while working in chemical laboratory.
- 2) To develop practical skills among the students.
- 3) It is expected to inspire and boost the interest of students towards the chemical and pharmaceutical Industries.
- 4) It will enable to develop interdisciplinary approach of the subject.

Theory	44 L
1. History and Importance of Safety and Health in Laboratory	4 L
- Importance of safety and security, types of hazards and risk in chemical laboratory, Do's and Don'ts in chemical laboratory	
2. Personal Protective and Other Safety Equipments	8 L
- Foot protection, eye and face protection, personal clothing, types of fire and fire safety equipments, detectors, safety showers, eyewash units	
3. Routes of exposure for toxic chemicals	8 L
- Inhalation, contact with skin and eye, ingestion, first aid box, first aid for contact of different chemicals on skin, eyes, inhalation and ingestion, material safety data sheet (MSDS)	
4. Laboratory Emergency Response Procedure	4 L
- Handling chemical spillage, handling fire emergency, handling medical emergency	
5. Working with Chemicals	8 L
- Introduction, general procedure for working with hazardous chemicals, working with flammable chemicals, working with highly reactive or explosive chemicals	
6. Working with Laboratory Equipments	6 L
- Introduction, working with electrically powered equipments, working with high and low pressure temperature and pressures, working with compressed gases	
7. Managing Chemical Waste	6 L
- Introduction, identifying waste and its hazard, collecting and storing waste, treatment and hazard reduction, disposal of waste.	

Practicals

16 L

1. Use of personal protective equipments- Aprons, Gumboot, Gloves, Helmet, Nose mask, Safety goggles etc.
2. Types and selection of fire extinguishers in chemical laboratory.
3. Identification of chemical hazards.
4. Working with laboratory equipments and hazardous chemicals.

References:-

1. Chemical Laboratory Safety and Security, *A Guide to Prudent Chemical Management* By Lisa Moran and Tina Masciangioli.
2. Safety in Laboratory and Good Laboratory Practices By Prof. Narendra D. Phatangare and Prof. Pankaj H. Naikwadi, Shauraya Publication, Latur.



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College, Kopergaon, Dist.-Ahmednagar

Safety and General awareness in Chemical Laboratory
Skill Development Course Year 2019-20

Sr. No.	Name of students
1.	ABHALE PRATIKSHA PRAKASH
2.	ABHALE VAISHALI PRAKASH
3.	ADHAV PURVIJA SATISH
4.	AGWAN OMKAR DATTATRAY
5.	AHER ARTI RAOSAHEB
6.	AHER AYUSH WALMIK
7.	AHER NIKITA KAILAS
8.	AHER RUTUJA PRAMOD
9.	AHER SAINATH ABHIMANYU
10.	BHAKARE SAGAR RAOSAHEB
11.	BHAVSAR NIKITA UMESH
12.	BHOKARE YOGESH NARENDRA
13.	BHUJADE SWATI PRAKASH
14.	BOLIJ SHRADDHA SANJAY
15.	CHINE AISHWARYA ARUN
16.	DADIYAL SIMRANJITKAUR R.
17.	DAVANGE MANOJ DNYANESHWAR
18.	DAWARE PRAGATI DNYANESHWAR
19.	DEOKAR PRIYANKA DINKAR
20.	DEOKAR SHUBHANGI RAJENDRA
21.	DHAGE YOGESHWARI RAJENDRA
22.	DHUMAL SHIVANI ANIL
23.	DIGHE SHUBHANGI ARJUN
24.	DUSHING AARATI SUNIL
25.	GAIKWAD JAYA BABASAHEB
26.	GAIKWAD PRASAD BHAGWAN
27.	GAIKWAD VIDYA DILIP
28.	GAWALI GAURAV DATTATRAYA
29.	GAWALI HARSHAD VILAS
30.	GHUMARE NIKITA VISHNU
31.	GHUMARE NISHA ANIL
32.	GIRI RUSHIKESH VIJAY
33.	GORE DIPALI BALASHAEB
34.	HON AKSHAY MADHUKAR



35.	HON KUSHARAM GANPAT
36.	HON RAMESHWAR SATYAWAN
37.	JADHAV JAYESH BHAUSAHEB
38.	JADHAV RAHUL SANJAY
39.	JADHAV RUSHIKESH GORKSH
40.	JADHAV SHUBHANGI BHAUSAHEB
41.	JADHAV VIKAS SANJAY
42.	JAMDAR ARTI MACCHINDRA
43.	JANGAM VIJAY VILAS
44.	JEJURKAR RUSHIKESH SANJAY
45.	JONDALE GANESH NAMDEV
46.	JORE SAGAR BABASAHEB
47.	JORVEKAR PRATIKSHA SANTOSH
48.	KADAM HRUSHIKESH VIJAY
49.	KADAM SAILEE PRAKASH
50.	KADAM SHITAL VILAS
51.	KALE AKSHAY SUNIL
52.	KALE AMOL BAPU
53.	KALE SHUBHANGI SANJAY
54.	KANADE PALLAVI SURESH
55.	KASAR PRATIKSHA ANIL
56.	KHANDEKAR DIKSHA POPAT
57.	KHANDEKAR RUTUJA BHAGCHAND
58.	KOTADE TEJAL RAJESH
59.	KOTE ANKITA CHANDRAKANT
60.	KSHIRSAGAR MANSIHA RAJENDRA
61.	KSHIRSAGAR VISHAL VIJAY
62.	KURHADE VIKAS DAGADU
63.	KURHE SHITAL MANIK
64.	LAMKHADE SHUBHAM SANJAY
65.	MADHAVAI ARTEE DATTATRAY




HEAD
 Deptt. Of Chemistry
 S. S. G. M. College, Kopergaon

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Department of Chemistry

Skill Development Course 2019-20
Safety & General Awareness in Chemical Industry

W.e.f-01/1/2019

Time Table

Time	Mon	Tue	Wed	Thu	Fri	Sat
8.00-9.00 am	PDK	PDK	AMN	AMN	AMN	PDK
9.00- 10.00 am	AMN	AMN	PDK	PDK	PDK	AMN
2-3 pm		P	P	P		

T-Theory Course-

PDK: Mrs.Kashid P.D.
AMN: Mr.Narode A.M.

P-Practical Course- PDK/AMN




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Department of Chemistry

Skill Development Course 2019-20
Safety & General Awareness in Chemical Industry


Exam Time-Table

Time	08/03/2019	09/03/2019	10/03/2019
11-2 pm	Batch-A	Batch-B	Batch-C

Batches-

- A) Roll No-8851-8866
- B) Roll No-8867-8908
- C) Roll No-8909-8915
- D)




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S.S.G.M. College, Kopargaon Dist: Ahmednagar
Department of Chemistry

Skill Development Course 2019-20
Safety & General Awareness in Chemical Laboratory

Enrolled Students List

Sr.No.	Roll No.	Name of the Students	08/03	09/03	10/03
1	8851	ABHALE PRATIKSHA PRAKASH	P	P	P
2	8852	ABHALE VAISHALI PRAKASH	P	P	Ab
3	8853	ADHAV PURVIJA SATISH	P	P	P
4	8854	AGWAN OMKAR DATTATRAY	P	P	P
5	8855	AHER ARTI RAOSAHEB	P	Ab	P
6	8856	AHER AYUSH WALMIK	P	P	P
7	8857	AHER NIKITA KAILAS	P	P	P
8	8858	AHER RUTUJA PRAMOD	P	P	P
9	8859	AHER SAINATH ABHIMANYU	P	P	P
10	8860	BHAKARE SAGAR RAOSAHEB	P	P	P
11	8861	BHAVSAR NIKITA UMESH	Ab	P	Ab
12	8862	BHOKARE YOGESH NARENDRA	P	P	P
13	8863	BHUJADE SWATI PRAKASH	P	P	P
14	8864	BOLI SHRADDHA SANJAY	P	P	P
15	8865	CHINE AISHWARYA ARUN	P	P	P
16	8866	DADIYAL SIMRANJITKAUR RANJITSINGH	P	P	P
17	8867	DAVANGE MANOJ DNYANESHWAR	P	P	P
18	8868	DAWARE PRAGATI DNYANESHWAR	P	P	P
19	8869	DEOKAR PRIYANKA DINKAR	P	P	Ab
20	8870	DEOKAR SHUBHANGI RAJENDRA	P	P	P
21	8871	DHAGE YOGESHWARI RAJENDRA	P	P	P
22	8872	DHUMAL SHIVANI ANIL	P	P	P
23	8873	DIGHE SHUBHANGI ARJUN	Ab	P	P
24	8874	DUSHING AARATI SUNIL	P	Ab	P
25	8875	GAIKWAD JAYA BABASAHEB	P	P	P
26	8876	GAIKWAD PRASAD BHAGWAN	P	P	P
27	8877	GAIKWAD VIDYA DILIP	P	P	P
28	8878	GAWALI GAURAV DATTATRAYA	P	P	P



29	8879	GAWALI HARSHAD VILAS	P	P	P
30	8880	GHUMARE NIKITA VISHNU	P	P	P
31	8881	GHUMARE NISHA ANIL	P	P	P
32	8882	GIRI RUSHIKESH VIJAY	P	Ab	Ab
33	8883	GORE DIPALI BALASHAEB	P	P	P
34	8884	HON AKSHAY MADHUKAR	P	P	P
35	8885	HON KUSHARAM GANPAT	P	P	P
36	8886	HON RAMESHWAR SATYAWAN	P	P	P
37	8887	JADHAV JAYESH BHAUSAHEB	Ab	P	P
38	8888	JADHAV RAHUL SANJAY	P	P	P
39	8889	JADHAV RUSHIKESH GORKSH	P	P	P
40	8890	JADHAV SHUBHANGI BHAUSAHEB	P	P	P
41	8891	JADHAV VIKAS SANJAY	P	P	P
42	8892	JAMDAR ARTI MACCHINDRA	P	P	P
43	8893	JANGAM VIJAY VILAS	P	P	P
44	8894	JEJURKAR RUSHIKESH SANJAY	P	P	P
45	8895	JONDHALE GANESH NAMDEV	P	P	P
46	8896	JORE SAGAR BABASAHEB	P	P	P
47	8897	JORVEKAR PRATIKSHA SANTOSH	P	P	P
48	8898	KADAM HRUSHIKESH VIJAY	P	P	P
49	8899	KADAM SAILEE PRAKASH	P	P	P
50	8900	KADAM SHITAL VILAS	P	P	P
51	8901	KALE AKSHAY SUNIL	Ab	Ab	P
52	8902	KALE AMOL BAPU	P	P	P
53	8903	KALE SHUBHANGI SANJAY	P	P	Ab
54	8904	KANADE PALLAVI SURESH	P	P	P
55	8905	KASAR PRATIKSHA ANIL	P	P	P
56	8906	KHANDEKAR DIKSHA POPAT	P	P	P
57	8907	KHANDEKAR RUTUJA BHAGCHAND	P	P	P
58	8908	KOTADE TEJAL RAJESH	P	P	P
59	8909	KOTE ANKITA CHANDRAKANT	P	P	P
60	8910	KSHIRSAGAR MANSIHA RAJENDRA	P	P	P
61	8911	KSHIRSAGAR VISHAL VIJAY	P	P	P
62	8912	KURHADE VIKAS DAGADU	Ab	P	P
63	8913	KURHE SHITAL MANIK	P	P	Ab
64	8914	LAMKHADE SHUBHAM SANJAY	P	P	P
65	8915	MADHAVAI ARTEE DATTATRAY	P	P	P

66

61

59



S.S.G.M.College,Kopergaon

Department of Chemistry

Skill Development Course-2019-20

Safety & General Awareness in Chemical Industry

Question Paper

(solve any five)

- | | |
|--|-----|
| Q.1) Describe the effect of hazardous chemicals on human health. | 20M |
| Q.2) Write note on different lab.safety symbols. | 20M |
| Q.3)Enlist different section of pharmaceuticals industries. | 20M |
| Q.4) Identify and describe given fire extinguishers. | 20M |
| Q.5) Explain chemical safety in laboratory | 20M |
| Q.6)Purify the given organic compound by distillation | 20M |



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Shri Sadguru Gangageer Maharaj Science, Gautam Art's and Sanjivani Commerce College,
Kopargaon

Department of Chemistry

Safety and General Awareness in Chemical Laboratory

Question Paper

Note –Each question carry 20 marks

Q.1. Attempt any five of the following

1. Describe the effect of hazardous chemicals on human health.
2. Write note on different lab.safety symbols.
3. Enlist different section of pharmaceuticals industry.
4. Identify and describe different fire extinguisher.
5. Explain Chemical Safety in laboratory.
6. Purify the given organic compound by distillation

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2019-20

Safety & General Awareness in Chemical Laboratory

Result Analysis

No. of Students Admitted	No. of Students Appeared	No. of Students Absent	% Result
65	63	02	100 %




Head
Department of Chemistry
S. G. M. College, Kopargaon

Rayat Shikshan Sanstha's
S.S.G.M. College Kopergaon
Dist- Ahmednagar,

Safety and General Awareness in Chemical Laboratory
Feedback Form (Year 2019-20)
How you like this activity?
(Please tick (✓) on the appropriate option)

Sr.No.	Criteria's	Excellent	Very Good	Good	Average	Poor
1.	Content of curriculum	✓				
2.	Quality of lectures		✓			
3.	Quality of practicals		✓			
4.	Arrangement of tour and hands on training collaboratively organized	✓				
5.	Is the course is applicable for entrepreneurship development in your futue life ?	Y				
6.	Is the course is beneficial for students and parents as far as environment and crop production is concerned ?	Y				

Any suggestion:-

Name of the Student:- Abhale Pratiksha Prakash

Class:- T.Y.B.Sc

Signature:- Abhale



Rayat Shikshan Sanstha's
S.S.G.M. College Kopergaon
Dist- Ahmednagar,

Safety and General Awareness in Chemical Laboratory
Feedback Form (Year 2019-20)

How you like this activity ?
(Please tick (✓) on the appropriate option)

Sr.No.	Criteria's	Excellent	Very Good	Good	Average	Poor
1.	Content of curriculum		✓			
2.	Quality of lectures		✓			
3.	Quality of practicals		✓			
4.	Arrangement of tour and hands on training collaboratively organized		✓			
5.	Is the course is applicable for entrepreneurship development in your futue life ?	Y				
6.	Is the course is beneficial for students and parents as far as environment and crop production is concerned ?	Y				

Any suggestion:-

Name of the Student: Bhavsar Nikita Umesh

Class:- T.Y.B.Sc.

Signature:- Bhavsar N.U.



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S.S.G.M. College Kopargaon
Dist- Ahmednagar,

Safety and General Awareness in Chemical Laboratory
Feedback Form (Year 2019-20)
How you like this activity ?
(Please tick (✓) on the appropriate option)

Sr.No.	Criteria's	Excellent	Very Good	Good	Average	Poor
1.	Content of curriculum		✓			
2.	Quality of lectures	✓				
3.	Quality of practicals	✓				
4.	Arrangement of tour and hands on training collaboratively organized	✓				
5.	Is the course is applicable for entrepreneurship development in your futue life ?	Y				
6.	Is the course is beneficial for students and parents as far as environment and crop production is concerned ?	Y				

Any suggestion:-

Name of the Student:- DHUMAL SHIWANI ANIL

Class:- T.Y.B.Sc.

Signature:- Shiwani





Rayat Shikshan Sanstha's
**SHRI SADGURU GANGAGEER MAHARAJ SCIENCE, GAUTAM
ARTS & SANJIVANI COMMERCE COLLEGE, KOPARGAON**
DIST. AHMEDNAGAR 423 601, MAHARASHTRA, INDIA
AFFILIATED TO SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



Certificate of appreciation

This is to certify that.....of Class T.Y.B.Sc.
Chemistry has Successfully completed Skill Development Course in "Safety and
General Awareness in Chemical Laboratory" for academic year 20 -20
secured..... Grade.

Co-ordinator

Head of Department

Principal

Rayat Shikshan Sanstha's
Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani Commerce
College, Kopargaon. Dist-Ahmednagar-423601.

Report (2019-20)

The department of chemistry conducted a Skill Development Course entitled **Safety and General Awareness in Chemical Laboratory**. Total 65 students of T.Y.B.Sc. Chemistry were admitted in the course. The duration of course was three months. The course was conducted satisfactorily by the Department of chemistry.




Head,
Department of Chemistry,
S.S.G.M. College, Kopargaon.