

S.S.G.M.College,Kopergaon

Department of Chemistry

Skill Development Course 2018-19

Safety & General Awareness in Chemical Industry

Date:15-11-2018

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 2018-19.The interested candidates should register their names To Mr.Sabale (Lab. Assistant).




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

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

2018-19

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,Kopargaon

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.





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

Safety and General awareness in Chemical Laboratory
Year 2018-19

Sr. No.	Name of students
1.	Abhale Gaurav R
2.	Abhale Pooja Sud
3.	Abhale Rohini Na
4.	Avad Yogesh Dilip
5.	Bankar Anuja Raj
6.	Barhate Aarti Sanjay
7.	Barshile Seema M
8.	Bhabare Devendra Sudharakar
9.	Bhagure Nitin S.
10.	Bhalerao Shubangi Gaj
11.	Dawange Aniket Prak
12.	Dhanwate shubhangi D
13.	Gade Shivam Ra
14.	Gadhe Pooja Vis
15.	Gaikwad Ashwini Saanto
16.	Gaikwad Bhavana Sanj
17.	Gavhane Bhakti Ramn
18.	Ghoderao Shraddha Ramesh
19.	Girme Priyanka S
20.	Girme Tejal Mahe
21.	Gorde Deepali An
22.	Hulekar Rupali S
23.	Jadhav Kalyani R.
24.	Jadhav Nilesh Raj
25.	Jadhav Sujit Balasaheb
26.	Jape Vaishanvi Deep
27.	Kadam Kamesh Sarj
28.	Kadam Omkar Kailash
29.	Kale Ajinkya Balasah
30.	Kandalkar Rakhama R
31.	Khilari Bapu Ramda



32.	Kote Snehal Vijay
33.	Kshirsagar Vaibhav B
34.	Labhade Prasad Bharat
35.	Manchare Tushar Balasaheb
36.	Mapari Sonali Nanasaheb
37.	More Pradunya Dattatray
38.	More Shrikant Ratan
39.	Nagare Krushna Ramesh
40.	Navale Adesh Rajendra
41.	Nehe Sagar EKnath
42.	Nikole Anjali Rajendra
43.	Patole Nitin Sopan
44.	Pawar Nilesh Ajaykumar
45.	Pawar Prasad Kamalkar
46.	Raktate Dipak Karbhari
47.	Sarode Chaitanya Santosh
48.	Sayyad Ajam Nijam
49.	Shejwal Yogita Valmik
50.	Shelar Sudesh Dipak
51.	Shinde Abhijit Kakasaheb
52.	Shinde Priyanka Madhukar
53.	Shinde Sumit Kakasaheb
54.	Shirsath Suvarna Ashok
55.	Shitole Abhijit Dadasaheb
56.	Surashe Revnath Raosaheb
57.	Suryawanshi Dipak Balasaheb
58.	Tupe Mayur Shivaji
59.	Ugale Ravindra Sampat
60.	Ukirde Omnath Jagnath
61.	Ushire Amol Papat
62.	Kanchan Vibhav Bhaskar
63.	Gade Rohit Arjun
64.	Gaware Gurav Arjun
65.	Hire Saurabh Arjun
66.	Jadhav Nikhil Nandkishor
67.	Nehe Sachin Dilip
68.	Pachore Vaibhav Appasaheb
69.	Pathak Nishikant Navnath
70.	Shinde Sagar Dilip
71.	Thete Arati Babasaheb
72.	Jadhav Kalyani Rajendra
73.	Lamkhade Prashant Bhimraj
74.	Bogir Shubham Vishnu



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

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

Skill Development Course 2018-19
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	VBG	VBG	SDB	SDB	SDB	VBG
9.00- 10.00 am	SDB	SDB	VBG	VBG	VBG	SDB
2-3 pm		P	P	P		

T-Theory Course-

VBG: Dr. Gade V. B.

SDB: Prof. Bhakare S. D.

P-Practical Course-

SDB/VBG



Head, D

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

Rayat Shikshan Sanstha's
S.S.G.M. College, Kopargaon.
Safety and General Awareness in Chemical Laboratory
Skill Development Course 2018-19
Attendance

Sr. No.	Name of the Student	02/01/19	03/01/19	04/01/19	07/01/19
1	Kadam Kamesh Sarjerao	P	P	Ab	P
2	Kadam Omkar Kailash	P	P	P	P
3	Kale Ajinkya Balasaheb	Ab	P	P	P
4	Kandalkar Rakhama Ranganth	P	P	P	P
5	Khilari Babu Ramdas	P	P	P	P
6	Kote Snehal Vijay	P	P	P	P
7	Kshirsagar Vaibhav Balasaheb	P	P	P	P
8	Labhade Prasad Bharat	P	P	P	P
9	Manchare Tushar Balasaheb	P	P	P	P
10	Mapari Sonali Nanasaheb	P	P	P	P
11	More Pradunya Dattatray	P	P	P	P
12	More Shrikant Ratan	P	Ab	P	P
13	Nagare krushna Ramesh	P	P	P	P
14	Navale Adesh Rajendra	P	P	P	Ab
15	Nehe Sagar Eknath	P	P	P	P
16	Nikole Anjali Rajendra	P	P	P	P
17	Patole Nitin Sopan	P	P	P	P
18	Pawar Nilesh Ajaykumar	P	P	P	P
19	Pawar Prasad Kamalkar	P	P	P	P
20	Raktate Deepak Karbhari	P	P	Ab	P
21	Sarode Chaitanya Santosh	P	P	P	P
22	Sayyad Ajam Nijam	P	P	P	P



**Rayat Shikshan Sanstha's
S.S.G.M. College, Kopergaon.
Safety and General Awareness in Chemical Laboratory
Skill Development Course 2018-19
Attendance**

Sr. No.	Name of the Student				
1	Kadam Kamesh Sarjerao	P	P	P	P
2	Kadam Omkar Kailash	P	P	P	P
3	Kale Ajinkya Balasaheb	P	P	P	P
4	Kandalkar Rakhama Ranganth	P	P	P	Ab
5	Khilari Bapu Ramdas	P	P	P	P
6	Kote Snehal Vijay	P	P	P	P
7	Kshirsagar Vaibhav Balasaheb	P	P	P	P
8	Labhade Prasad Bharat	P	P	P	P
9	Manchare Tushar Balasaheb	P	P	P	P
10	Mapari Sonali Nanasaheb	P	P	P	P
11	More Pradunya Dattatray	P	Ab	P	P
12	More Shrikant Ratan	P	P	P	P
13	Nagare krushna Ramesh	P	P	P	P
14	Navale Adesh Rajendra	Ab	P	P	P
15	Nehe Sagar Eknath	P	P	P	P
16	Nikole Anjali Rajendra	P	P	P	P
17	Patole Nitin Sopan	P	P	P	P
18	Pawar Nilesh Ajaykumar	P	P	P	P
19	Pawar Prasad Kamalkar	P	P	Ab	P
20	Raktate Deepak Karbhari	P	P	P	P
21	Sarode Chaitanya Santosh	P	P	P	P
22	Sayyad Ajam Nijam	P	P	P	P



23	Shejwal Yogita Valmik	P	P	P	P
24	Shelar Sudesh Deepak	P	P	P	Ab
25	Shinde Abhijeet Kakasaheb	P	P	P	P
26	Shinde Priyanka Madhukar	P	P	P	P
27	Shinde Sumit Kakasaheb	P	P	P	P
28	Shirsath Suvarna Ashok	P	P	Ab	P
29	Shitole Abhijit Dadasaheb	P	P	P	P
30	Surashe Revannath Raosaheb	P	P	P	P
31	Suryawanshi Deepak Balasaheb	P	P	P	P
32	Tuoe Mayur Shivaji	P	P	P	P
33	Ugale Ravindra Sampat	P	P	P	P
34	Ukirde Omnath Jagannath	P	P	P	P
35	Ushir Amol Popat	P	P	P	P
36	Bergal Limbaji Sadharam	Ab	P	P	P
37	Kanchan Vaibhav Bhaskar	P	P	P	P
38	Gade Rohit Arun	P	P	P	P
39	Gaware Gaurav Sunil	P	P	P	P
40	Hire saurabh Rajendra	P	P	P	P
41	Jadhav Nikhil Nandkishor	P	P	P	P
42	Ghule Pratiksha Dattatray	P	P	P	P
43	Gorde Dipali Anandrao	P	Ab	P	P
44	Navale Gayatri Arun	P	P	P	P
45	Sangale Nikita Punjaram	P	P	P	P
46	Sanvatsarkar Sneha kailas	P	P	P	Ab
47	Shinde Priyanka Madhukar	P	P	P	P
48	Tambe ketan	P	P	P	P



23	Shejwal Yogita Valmik	P	P	P	P
24	Shelar Sudesh Deepak	P	P	P	P
25	Shinde Abhijeet Kakasaheb	P	Ab	P	P
26	Shinde Priyanka Madhukar	P	P	P	P
27	Shinde Sumit Kakasaheb	Ab	P	P	P
28	Shirsath Suvarna Ashok	P	P	P	P
29	Shitole Abhijit Dadasaheb	P	P	P	P
30	Surashe Revannath Raosaheb	P	P	P	P
31	Suryawanshi Deepak Balasaheb	P	P	Ab	P
32	Tuoe Mayur Shivaji	P	P	P	P
33	Ugale Ravindra Sampat	P	P	P	P
34	Ukirde Omnath Jagannath	P	P	P	P
35	Ushir Amol Popat	P	Ab	P	P
36	Bergal Limbaji Sadharam	P	P	P	P
37	Kanchan Vaibhav Bhaskar	P	P	P	P
38	Gade Rohit Arun	Ab	P	P	P
39	Gaware Gaurav Sunil	P	P	P	P
40	Hire saurabh Rajendra	P	P	P	Ab
41	Jadhav Nikhil Nandkishor	P	P	P	P
42	Ghule Pratiksha Dattatray	P	Ab	P	P
43	Gorde Dipali Anandrao	P	P	P	P
44	Navale Gayatri Arun	P	P	Ab	P
45	Sangale Nikita Punjaram	Ab	P	P	Ab
46	Sanvatsarkar Sneha kailas	P	P	P	P
47	Shinde Priyanka Madhukar	P	P	P	P
48	Tambe ketan	P	P	P	P



49	Thombare Sudarshan	P	P	P	P
50	Wani Monika	P	P	P	P
51	Turkane Monika	P	Ab	P	P
52	Ghule Pratiksha Dattatray	P	P	P	P
53	Nehe Sachin Dilip	Ab	P	P	P
54	Pachore Vaibhav Appasaheb	P	P	P	Ab
55	Pathak Nishikant Navnath	P	P	P	P
56	Sanap Vivek Kishor	P	P	P	P
57	Shinde Sagar Dilip	Ab	P	P	P
58	Thete Aarti Babasaheb	P	P	P	P
59	Ugale Kunal Ramesh	P	P	P	P
60	Jadhav Kalyani Rajendra	P	Ab	P	P
61	Abhale Ajit Suryakant	P	P	P	P
62	Lamkhede Prashant Bhimraj	P	P	P	P
63	Abhale Manjushri Anil	P	P	P	Ab
64	Abhale Poonam Babasaheb	P	P	Ab	P
65	Abhang Shradha Sanjay	P	P	Ab	P
66	Bhokare Pratiksha Jalandar	P	P	P	P
67	Borase Navnath Kadu	P	P	P	P
68	Chavan Kanchan Karnasaheb	P	Ab	P	P
69	Gawali Pratiksha Balasaheb	P	P	P	P
70	Gunjal Rupali Balasaheb	P	P	P	P
71	Harkal Akash Ravindra	P	Ab	P	P
72	Jadhav Vivek Dharmaraj	P	P	P	P
73	Jagzap Shruti Vilas	P	P	P	P
74	Sonawane Rutika Bhimraj	P	P	P	P

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49	Thombare Sudarshan	P	P	P	Ab
50	Wani Monika	P	P	P	P
51	Turkane Monika	P	P	P	P
52	Ghule Pratiksha Dattatray	P	Ab	P	P
53	Nehe Sachin Dilip	P	P	P	P
54	Pachore Vaibhav Appasaheb	P	P	P	P
55	Pathak Nishikant Navnath	P	P	P	Ab
56	Sanap Vivek Kishor	P	P	P	P
57	Shinde Sagar Dilip	P	P	P	P
58	Thete Aarti Babasaheb	P	P	P	P
59	Ugale Kunal Ramesh	P	P	Ab	P
60	Jadhav Kalyani Rajendra	Ab	P	P	P
61	Abhale Ajit Suryakant	P	P	P	P
62	Lamkhede Prashant Bhimraj	P	P	P	Ab
63	Abhale Manjushri Anil	P	Ab	P	P
64	Abhale Poonam Babasaheb	P	P	P	P
65	Abhang Shradha Sanjay	P	P	P	Ab
66	Bhokare Pratiksha Jalandar	Ab	P	P	P
67	Borase Navnath Kadu	P	P	P	P
68	Chavan Kanchan Karnasaheb	P	P	Ab	P
69	Gawali Pratiksha Balasaheb	P	P	P	P
70	Gunjal Rupali Balasaheb	P	P	P	Ab
71	Harkal Akash Ravindra	P	Ab	P	P
72	Jadhav Vivek Dharmaraj	Ab	P	P	P
73	Jagzap Shruti Vilas	P	P	Ab	P
74	Sonawane Rutika Bhimraj	P	P	P	P

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Rayat Shikshan Sanstha's,
S.S.G.M. College, Kopergaon
Department of Chemistry


Skill Development Course 208-19
Safety & General Awareness in Chemical Industry

Exam Time-Table

Time	08/03/2018	09/03/2018	10/03/2018
11-2 pm	Batch-A	Batch-B	Batch-C

Batches-

- A) Roll No-8551-8666
- B) Roll No-8567-8608
- C) Roll No-8609-862
- D)


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



S.S.G.M.College,Kopergaon

Department of Chemistry

Skill Development Course-2018-19

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 |



Rayat Shikshan Sanstha's,
S.S.G.M.College,Kopargaon
Department of Chemistry

Skill Development Course-2018-19
Safety & General and Awareness in Chemical Industries

RESULT

No. of students appeared	Students passed	Student failed	% Result
74	74	Nil	100



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

Safety and General Awareness in Chemical Laboratory
Feedback Form (Year2018-19)
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:- Kadam Omkar Kailas

Class:- T.Y.B.Sc.

Signature:- Omkar



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

Safety and General Awareness in Chemical Laboratory
Feedback Form (Year2018-19)
How you like this activity ?
(Please tick (v) 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:- Pawar Nitesh Ajaykumar

Class:- T.Y.B.Sc.

Signature:- Pawar NA

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

Safety and General Awareness in Chemical Laboratory
Feedback Form (Year 2018-19)

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:- Ushir Amal Popat

Class:- P. Y. B.Sc.

Signature:- Amal



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 (2018-19)

The department of chemistry conducted a Skill Development Course entitled **Safety and General Awareness in Chemical Laboratory**. Total 74 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.