



Rayat Shikshan Santha's  
Shri Sadguru Gangageer Maharaj Science , Gautam Arts & Sanjivani Commerce College,  
Kopargaon – 423601,  
Dist.- Ahmednagar, M. S. – India

**Internal Quality Assurance Cell  
(IQAC)**

2017-18

**Syllabus Approval Letter**

The IQAC committee has approved the submitted syllabus of short term/Certificate course planned to be conducted by the Department of Chemistry.

Sr.No.	Name of Course	Type of Course
01	Safety and general Awareness in Chemical Laboratory	Short term course/Certificate course

HOD of Chemistry Department may proceed accordingly.

Date:

Place:

  
IQAC Co-ordinator

  
**Principal**  
**S.S.G.M.C** College  
Kopargaon

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

Skill Development Course 2017-18  
Safety & General Awareness in Chemical Industry

Date: 15-11-2017

### 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 2017-18. The interested candidates should register their names to Mr. Sabale (Lab. Assistant).



A handwritten signature in blue ink, appearing to be "A. Sabale".

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



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

### Short Term Course

Department of Chemistry has decided to start short term course entitled "Safety & General Awareness in Chemical Industry". For framing the syllabus of said course, committee was constituted as follow.

- 1) Prin. Dr. K. P. Kakde (Chairman)
- 2) Dr. A. B. Nikumbh (Head and Member)
- 3) Dr. S. N. Shelke (Member)
- 4) Smt. Dr. R. K. Jadhav
- 5) Mr. Vikram Varma (Member, Enzochem Lab. [Director])

### **Aims and objectives of the syllabus:**

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



Head  
PG & Research  
Department of Chemistry  
S. S. G. M. College, Kopargaon

## Course Syllabus

Marks: 100 (T-40 & P- 60)

Total Lecture: 24

### Section: I- Theory Course

40M

1. Role of process, general precautions and importance of safety in chemical plant.
2. Personal safety and use of protective equipments.
3. Good housekeeping.
4. Fire prevention and fire protective equipments.
5. First aid kit-cause and preventions.
6. Materials safety data sheet (MSDS) - safe handling procedure of hazardous and toxic chemicals.
7. Basic of filling log sheets of workplace.
8. Pollutions-Air, Water and Noise.
9. Designing of Chemical plant- Types of pumps, valves, heat exchanger, dryers, evaporators and filtration unit etc.
10. Familiarizations with plant utilities and service lines- steam, water, vacuum, compressed air, refrigeration.
11. Quality of raw materials and products.

### Section: I- Practical Course

60M

1. Importance of protective equipments- Gumboot, Gloves, Helmet, Nose mask, Ear plugs etc.
2. Fire extinguisher.
3. Types and selection of Fire extinguisher in chemical plant.
4. Identification of Hazardous and toxic chemical.
5. Detectors- Smoke, Heat, Flame.
6. Material safety data sheet handling of various chemical.
7. Construction of chemical plant.
8. General awareness about chemical plant, reaction vessels, chemicals.



  
Head  
PG & Research  
Department of Chemistry  
S. S. G. M. College, Kopergaon

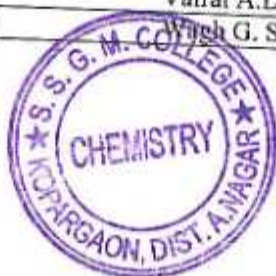


Rayat Shikshan Sanstha's,  
S.S.G.M. College, Kopargaon  
Department of Chemistry

Skill Development Course 2017-18  
Safety & General Awareness in Chemical Industry

Enrolled Students List

Sr. No.	Roll No.	Name of Students	Course Fee in Rs
1	8551	Bagul V. B.	Nil
2	8552	Banbheru H. R.	Nil
3	8553	Bojage G. A.	Nil
4	8554	Chaudhari V. S.	Nil
5	8555	Chavan A. B.	Nil
6	8556	Chavan G. B.	Nil
7	8557	Chine P. D.	Nil
8	8558	Deokar S. V.	Nil
9	8559	Jadhav P. N.	Nil
10	8560	Jadhav V. N.	Nil
11	8561	Jagzap S. V.	Nil
12	8562	Jangam H. K.	Nil
13	8563	Kotade M. V.	Nil
14	8564	Kurhade R. M.	Nil
15	8565	Mache S. B.	Nil
16	8566	Marathe M. B.	Nil
17	8567	More S. D.	Nil
18	8568	More R. U.	Nil
19	8569	More S. G.	Nil
20	8570	Pawar P. P.	Nil
21	8571	Shete R. B.	Nil
22	8572	Ugale B. M.	Nil
23	8573	Wayendeshkar N. N.	Nil
24	8574	Wagh R. B.	Nil
25	8601	Admane A. J.	Nil
26	8602	Bansode P. N.	Nil
27	8603	Bhandare R. D.	Nil
28	8604	Chinchpure A. M.	Nil
29	8605	Choudhari J. R.	Nil
30	8606	Chunale M. D.	Nil
31	8607	Deokar S. R.	Nil
32	8608	Ghodake S. D.	Nil
33	8609	Gorade S. D.	Nil
34	8610	Jamdhade V. N.	Nil
35	8611	Mishra V. D.	Nil
36	8612	More D. M.	Nil
37	8613	Naikwade S. R.	Nil
38	8614	Nikam V. U.	Nil
39	8615	Pachore P. M.	Nil
40	8616	Pawar P. P.	Nil
41	8617	Rahane R. D.	Nil
42	8618	Raut K. K.	Nil
43	8619	Sabane P. B.	Nil
44	8620	Tirse V. R.	Nil
45	8621	Vairal A.D.	Nil
46	8622	Wagh G. S.	Nil



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

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

Skill Development Course 2017-18  
Safety & General Awareness in Chemical Industry

W.e.f-01/12/2017


Time Table

Time	Mon	Tue	Wed	Thu	Fri	Sat
8.00-9.00 am	VBGe	PDK	ABN	RKJ	SNS	T
9.00-10.00 am	PDK	VBGe	RKJ	SNS	ABN	T
2-3 pm		P	P	P		

T-Theory Course-ABN/NMC/DMS/PVR

P-Practical Course-RKM/SDB/VBG



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

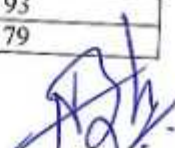
Rayat Shikshan Sanstha's,  
S.S.G.M. College, Kopargaon  
Department of Chemistry

Skill Development Course 2017-18  
Safety & General Awareness in Chemical Industry

**Attendance**

Sr. No.	Roll No.	Name of Students	Attendance %
1	8551	Bagul V. B.	76
2	8552	Banbheru H. R.	88
3	8553	Bojage G. A.	82
4	8554	Chaudhari V. S.	76
5	8555	Chavan A. B.	89
6	8556	Chavan G. B.	91
7	8557	Chine P. D.	90
8	8558	Deokar S. V.	83
9	8559	Jadhav P. N.	77
10	8560	Jadhav V. N.	92
11	8561	Jagzap S. V.	91
12	8562	Jangam H. K.	78
13	8563	Kotade M. V.	94
14	8564	Kurhade R. M.	79
15	8565	Mache S. B.	81
16	8566	Marathe M. B.	80
17	8567	More S. D.	81
18	8568	More R. U.	78
19	8569	More S. G.	77
20	8570	Pawar P. P.	86
21	8571	Shete R. B.	89
22	8572	Ugale B. M.	84
23	8573	Wayendeshkar N. N.	86
24	8574	Wagh R. B.	87
25	8601	Admane A. J.	76
26	8602	Bansode P. N.	87
27	8603	Bhandare R. D.	94
28	8604	Chinchpure A. M.	88
29	8605	Choudhari J. R.	96
30	8606	Chunale M. D.	77
31	8607	Deokar S. R.	83
32	8608	Ghodake S. D.	92
33	8609	Gorade S. D.	91
34	8610	Jamdhade V. N.	81
35	8611	Mishra V. D.	92
36	8612	More D. M.	82
37	8613	Naikwade S. R.	92
38	8614	Nikam V. U.	91
39	8615	Pachore P. M.	89
40	8616	Pawar P. P.	93
41	8617	Rahane R. D.	86
42	8618	Raut K. K.	78
43	8619	Sabane P. B.	96
44	8620	Tirse V. R.	84
45	8621	Vairal A. D.	93
46	8622	Wagh G. S.	79



  
 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 2017-18  
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-8609-8622



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




S.S.G.M. College, Kopargaon  
Department of Chemistry  
Skill Development Course 2017-18  
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 a note on different lab. safety symbols               | 20M |
| Q. 3) Enlist different section of Pharmaceutical 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 |



  
Head  
PG & Research  
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 2017-18  
Safety & General Awareness in Chemical Industry

**Result**

No. of Students Appeared	Students Passed	Students Failed	% Result
46	46	Nil	100



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

Rayat Shikshan Sanstha's  
**S.S.G.M. College Kopargaon**  
 Dist- Ahmednagar,  
 Certificate course in safety and General Awareness In chemical Laboratory  
 Feedback Form (Year 2017-18)  
 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 ?		✓			
6.	Is the course is beneficial for students and parents as far as environment and crop production is concerned ?	✓				

Any suggestion:-

Name of the Student:- Bagul V.B

Class:- 7.7. B.Sc

Signature:- Bagul

Rayat Shikshan Sanstha's  
**S.S.G.M. College Kopargaon**  
 Dist- Ahmednagar,  
 Certificate course in safety and General Awareness In chemical Laboratory  
 Feedback Form (Year 2017-18)  
 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 ?	✓				
6.	Is the course is beneficial for students and parents as far as environment and crop production is concerned ?		✓			

Any suggestion:-

Name of the Student:- More D.M.

Class:- T.X.B.S.C.

Signature:- More





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 short term course in "Safety and  
General Awareness in Chemical Laboratory" for academic year 2017-2018  
secured .....Grade.

Co-ordinator

Head of Department

Principal


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

Skill Development Course 2017-18  
Safety & General Awareness in Chemical Industry

### Report

The department of chemistry conducts a skill development course entitled **Safety & General Awareness in Chemical Industry**. Total 46 students of MSc-II Chemistry were admitted in the course. The duration of course is ~~three~~<sup>four</sup> months (1<sup>st</sup> Dec. 2017 to 31<sup>st</sup> Mar. 018). The course was conducted satisfactorily by the dept. of chemistry.



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