

**Shri Shivaji Science College, Amravati**  
**Department of Environmental Science**  
**Certificate Course in Industrial Hygiene and Safety (CCIHS) - 2021-2022**

**Date: 21<sup>st</sup> March 2022 to 08<sup>th</sup> April 2022**

**Permission Letter**

To  
Principal,  
Shri Shivaji Science College,  
Amravati.

Subject: Permission to conduct 30 Hours "Certificate Course in Industrial Hygiene and Safety (CCIHS)".

Through: IQAC.

Respected Sir,

Dept. of Environmental Science is going to conduct a "Certificate Course in Industrial Hygiene and Safety (CCIHS)". The course duration is of one month which will commence from 21<sup>st</sup> March to 08<sup>th</sup> April 2022.

This is a basic course under the subject area of industrial safety. This course knowledge will be helpful to the students in safety application and also when they will go for advance Diploma course in this subject which has huge scope in the industrial sector. Course outcome is also beneficial for the placement of our student.

Kindly grant us permission to conduct this course.

Thanking you.

*Granted Permission*  
*[Signature]*  
*15/03/2022*

Regards  
*[Signature]*  
Dr. S. R. Ingole  
Head  
Dept. of Environmental Science  
S.S.S.C., Amt.

## Notice

Greeting of the day

Dear students,

Dept. of Environmental Science, Shri Shivaji Science College, Amravati propose to start **Certificate Course in Industrial Hygiene and Safety (CCIHS)**. The course is designed for UG and PG students only for getting more knowledge and aware about Industrial Hygiene and Safety. By completion of course Students will get more opportunity to job in the industry.

Registration Fee: Free

Last Date of Registration: **19 March 2022 up to 5:00 pm**

Course Start from: **21<sup>st</sup> March 2022**

Duration: **30 Hours**

Register for course using the following link:

<https://forms.gle/7SewqtJaM9wgxVyP8>

Google Classroom link:

<https://classroom.google.com/c/NDc5MDIzMzI1NTcz?cjc=qyvuphk>

Class code: qyvuphk

For future details about course join following Telegram link:

Telegram Link: <https://t.me/+UFXko2nhsKYzZDFI>

After the successful completion of the course students will get E-Certificate.

Further Details will be provided on Telegram group only.

Department of Environmental Science

Thank You

## Student List

1	Abhay Jabde	26	Kalyani chaware
2	Abhi Raut	27	Kalyani Raut
3	Additya Pande	28	Kalyani Thakare
4	AishwaryaTayade	29	Kamaldeep Nagapure
5	Anushka Bhalchakra	30	Karan Pandhare
6	Ashish Gaddmwad	31	Komal Gosavi
7	Ashlesh Gharde	32	komal nawale
8	Bhagyashri Swarge	33	Krushna Bele
9	Bhushan Sardar	34	Krutika Gudadhe
10	Chaitanya Bhagat	35	Krutika Makade
11	Dakshata Kohale	36	Kuldip Bharde
12	Dalvi Yash	37	Manjiri Wankhade
13	Devyani Mawaskar	38	Mayuri Kasar
14	Dhanashree Wakode	39	Mr.Chandrashekhar Tarale
15	Dhanashri Sagane	40	Namisha bagde
16	Ditiksha Barekar	41	Nikita Barbude
17	Divya Wankhade	42	Nikita Jengthe
18	Divyani Mohod	43	Nikita Keche
19	Gaurav Ajmire	44	Onam Tirmare
20	Gauri Nimbhorkar	45	Papita Mohod
21	Gayatri Chopde	46	Prachi Rathod
22	Gayatri Nawale	47	Prachi Raut
23	Ishwari Bhuyar	48	Pradnya Tathod
24	Janhavi Dalvi	49	Prajakta Kale
25	Janvi Deshpande	50	Prajwal Umale

51	Pranjali Raut	77	Tanaya Thakare
52	Prathmesh Thakare	78	Tanushree Babhulkar
53	Pratiksha Deshmukh	79	Tejas Gulhane
54	Punam Dabre	80	Tejaswini Gulhane
55	Purva Umbarkar	81	Trushana Thakare
56	Radhika Pund	82	Utkarsh Pandey
57	Rani Jawanjal	83	V. Bhuyar
58	Rohit Thakare	84	Vaishnavi Bokey
59	Roshan Vaidya	85	Vaishnavi Borkar
60	Roshani Jadhao	86	Vaishnavi Dindekar
61	Rutuja Jethe	87	Vaishnavi Falke
62	Rutuja Pangarkar	88	Vaishnavi Kalamkar
63	Rutuja Tathod	89	Vaishnavi Kaundanyapure
64	Sakshi Deshmukh	90	Vaishnavi Mankar
65	Sakshi Lokhande	91	Vaishnavi Mohokar
66	Sakshi Pachghare	92	Vaishnavi Nipane
67	Sakshi Wathodkar	93	Vanshika Rathod
68	Sanskruiti Sagane	94	Vedika Jawanjal
69	Savi Thakare	95	Vedika Jawanjal
70	Shajreen Firdous	94	Vidhi Rathod
71	Shiwani Wakode	95	Vrushali Parise
72	Shrutika Deshmukh	96	Vrushali Taywade
73	Shweta Sarde	97	Yogeshwari Surve
74	Snehal Wankhade		
75	Swati Dabre		
76	Tanaya Thakare		

# Syllabus

## Certificate Course in Industrial Hygiene and Safety (CCIHS)

**Total Hours 30**

**Marks 100**

### Syllabus

**Module 1:** Introduction to Industrial Hygiene and Safety (IHS1)

- Introduction, importance of environmental safety in industry, introduction to occupational health hazards

**Module 2:** Industrial Hazard Identification and Preventive Technique (IHIPT2)

- Define hazard and hazard identification, types of industrial hazards, method of hazards identification - HAZOP technique, Hazard Prevention and Control

**Module 3:** Emergency Planning and Introduction to Chemical Safety (EPICS3)

- a) Emergency Planning – Introduction, need, key elements and concept of emergency planning
- b) Chemical Safety – Introduction and general chemical safety guidelines

**Module 4:** An understanding of the ISO 14001 (Environmental Management System) (EMS4)

- Introduction and concepts

**Module 5:** An Overview on Legal aspects in Environment, Health and safety (LAEHS5)

- Legislative measures in industrial safety: Factories Act, 1948, Workman's Compensation Act, 1943, Environmental (Prevention and control) Act 1986

**Module 6:** Project Work (PW6)

## Time Table

### Detailed time-wise Course Session Plan:

Module No. and Title/Code	Day/Date	Contents/Topic and Hours Allotted	Name of Faculty	Video/Quiz/Assignment/Feedback/Discussion Forum
1. Introduction to Industrial Hygiene and Safety (IHS1)	<b>Day 1</b> 21.03.2022	<ul style="list-style-type: none"> <li>Introduction (1 hrs)</li> </ul>	SPI	Video/ E-Content
	<b>Day 2</b> 22.03.2022	<ul style="list-style-type: none"> <li>Importance of environmental safety in industry (1 hrs)</li> </ul>	SPI	Video/ Quiz
	<b>Day 3</b> 23.03.2022	<ul style="list-style-type: none"> <li>Introduction to occupational health hazards (2 hrs)</li> </ul>	VDB	Video / Quiz / Assignment
2. Industrial Hazard Identification and Preventive Technique (IHPT2)	<b>Day 4</b> 24.03.2022	<ul style="list-style-type: none"> <li>Define hazard and hazard identification (1 hrs)</li> </ul>	VDB	Video/ E-Content
	<b>Day 5</b> 25.03.2022	<ul style="list-style-type: none"> <li>Types of industrial hazards (2 hrs)</li> </ul>	VDB	Video/ E-Content/Quiz
	<b>Day 6</b> 26.03.2022	<ul style="list-style-type: none"> <li>Method of hazards identification - HAZOP technique (2 hrs)</li> </ul>	SPI	Video/ E-Content/ Assignment

	<b>Day 7</b> 28.03.2022	<ul style="list-style-type: none"> <li>Hazard Prevention and Control (1 hrs)</li> </ul>	SPI	Video/ E-Content/ Assignment
3. Emergency Planning and Introduction to Chemical Safety (EPICS3)	<b>Day 8</b> 29.03.2022	a) Emergency Planning <ul style="list-style-type: none"> <li>Introduction (1 hrs)</li> </ul>	KJG	Video/ E-Content/ Assignment
	<b>Day 9</b> 30.03.2022	b) Chemical Safety <ul style="list-style-type: none"> <li>Introduction and general chemical safety guidelines (2 hrs)</li> </ul>	KJG	Video/ E-Content/ Assignment
	<b>Day 10</b> 31.03.2022	c) IS/UN classification of Chemicals (2 hrs)	KJG	Video/ E-Content/ Assignment
4. An understanding of the ISO 14001 (Environmental Management System) (EMS4)	<b>Day 11</b> 01.04.2022	<ul style="list-style-type: none"> <li>Introduction and concepts (1 hrs)</li> <li>EMAR and EMAS (1 hrs)</li> </ul>	SPI	Video/ E-Content/ Assignment

5. An Overview on Legal aspects in Environment, Health and safety (LAEHS5)	<b>Day 12</b> <b>04.04.2022</b>	<ul style="list-style-type: none"> <li>Legislative measures in industrial safety: Factories Act, 1948 (2 hrs)</li> </ul>	VDB	Video/ E-Content
	<b>Day 13</b> <b>05.04.2022</b>	<ul style="list-style-type: none"> <li>Workman's Compensation Act, 1943 (2 hrs)</li> </ul>	VDB	Video/ Quiz
	<b>Day 14</b> <b>06.04.2022</b>	<ul style="list-style-type: none"> <li>Environmental (Prevention and control) Act 1986 (2 hrs)</li> </ul>	VDB	Video/ Quiz
6. Project Work (Related to Course Content) (PW6)	<b>Day 15</b> <b>07.03.2022</b>	<ul style="list-style-type: none"> <li>Project Work (Related to Course Content) (6 hrs)</li> </ul>	KJG	Project Discussion, Preparation and Submission
<b>Exam</b>	<b>Day 16</b> <b>08.04.2022</b>	<ul style="list-style-type: none"> <li>Final Theory Exam (1 hrs)</li> </ul>	KJG	

## Certificate



Shri Shivaji Education Society, Amravati's

### Shri Shivaji Science College Shivaji Nagar, Nagpur Road, Amravati (MS)



NAAC Accredited by Grade "A" with CGPA of 3.13 (Third Cycle),  
UGC Awarded Status of College with Potential for Excellence (Second Phase),  
Identified by DST, Govt of India for FIST and Sant Gadge Baba Amravati University, Amravati as Lead  
College  
Affiliated to Sant Gadge Baba Amravati University, Amravati (MS) INDIA

## CERTIFICATE

This Certificate is awarded to

**Student Name**

**Position:** Student **Affiliation:** SGBAU, Amravati

For the successful completion of the Online Certificate Course on **Industrial Hygiene and Safety (CCIHS)** as prescribed and ported by the Department of Environmental Science

during 21th March - 08th April 2022.

His/Her performance was

Satisfactory(B)/ Good(B+)/ Excellent(A)/ **Outstanding(A+)**.

Course Coordinator

Date: 11/04/2022

Head of the Department

IQAC Coordinator

Principal

## **COURSE OUTCOME:**

- Value added courses are the types of courses which help a particular individual to develop their own skills in their chosen field of the study. They are mostly independent to each type of the fields.
- Learn about various global and regional environmental concerns that affect various forms of life.
- This course prepares students to meet the vast requirements of professionals having suitable qualification as well as exposure in the Certificate Course in Industrial Hygiene and Safety (CCIHS).
- Students will be trained in determining industrial hygiene and safety impacts on operations, and also in developing, executing and monitoring environmental health and safety programs.
- The programme aims to cater learners to acquire and demonstrate competency in industrial hygiene and safety, making them Knowledgeable and competent to make a Prospective career in Industry in the field of safety.

## Summary Report

The certificate course in industrial, hygiene and safety (CCIHS) was conducted in online mode from **21th March to 08<sup>th</sup> April 2022**. The duration for this certificate course was of 30 Hours. Total 97 **students** among U.G. & P.G. from the Dept. of Environment Science and other colleges were enrolled for this certificate course.

Telegram group was created for the communication among participant students. Google classroom was also created to upload the e-content related to CCIHS. Students were asked to submit project report related to industrial hygiene and questions as internal Assessment. At the end final examination was conducted. Successful candidates were given certificates.