

SEC-CHE-306



HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

Program Name : B. Sc. Chemistry

Semester : III

PROGRAM CODE : SCIUG102

COURSE CODE : SC23SECCH306

Type of course : Skill Enhancement course SEC

Name of course : Environmental Pollution

Total Mark : 50

Effective from June 2023 Under NEP 2020

Total Credits : 02	Teaching Hours per Week: 02	Theory	External 25 Marks
	Teaching hours per semester: 30		Internal 25 Marks

Course Objectives:

1. To understand importance environment and its protection
2. To have knowledge of principles of environment protection.
3. To know about types of pollutants.

Course Outcome:

1. Students will gain a comprehensive knowledge about natural and artificial pollutants.
2. To understand the importance of environment for our survival.
3. Students will learn how to reduce and stop environment pollution with help of various agencies.

Unit	Topic	Credit	Hr
1	Air Pollution And Water Pollution Introduction & Classification of pollutant What is air pollution and Types of pollution Source of air pollution and action to reduce air pollution Acid Rain, Green house effect, Emissions of major industrial air pollutant and air quality index Water pollution; Source of Water Pollution Sewage and Wastewater, Agricultural, How to prevent pollutions of Indian rivers, lakes and seas.	1	15


Principal
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	Types of water pollution- Physical & Chemicals, Biological and Physiological What is Climate Change - Impacts of global warming		
2	Soil, Noise, Thermal And Radio Pollution <i>APIK</i> Introduction of soil pollution Sources of soil pollution and action to reduce soil pollution., Effect of Modern Agro-Technology on Soil and Benefit of organic farming. What is Noise Pollution and action to reduce Noise pollution. What is Thermal Pollution What is Radio Active Pollution and How to prevent Radio Active Pollution Prevention and control of Pollution	1	15

Books Recommended:

1. Environmental chemistry by Shankar IAS Academy, 10 edition, vikas book house, Pune
2. Environment Issues In India, Mahesh Rangarajan, By Pearson Education India 2006.
3. Environmental Science 8 Th Edition By Botkin And Keller, Wiley, 2012 House, 2008.
4. Perspective in enviromental studies, Anubhav Kaushik, CP kaushik, 7th edition, New age International pvt ltd. 2021.

Further Reading:

1. Green chemistry: theory and Practice, Paul t. Anatas, John charles Warner, Oxford university Press, 1998.
2. A text book of green chemistry, sankar p dey and Nayin sepoy, Tech word, 2012.

Suggestive Digital Platforms Web Links:

1. <http://earthwatch.org/vlabs>
2. <https://www.treehugger.com>.
3. <https://www.earthday.org>.
4. <https://www.fivebooks.com>

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