

STARTED BATCH IN CERTIFICATE COURSE – 2018
B.Sc. STUDENTS



CERTIFICATE COURSE

on

Environmental chemistry

----- Organized by -----

**Department of Horticulture,
Hindu College, Market Centre
GUNTUR – 522003**

S.No.	Name of Certificate course	Academic year	From	To
1	Environmental Chemistry	2018-2019	01.12.2018	31.12.2018

Hindu College, Guntur

ADD ON /CERTIFICATE COURSE SYLLABUS

ENVIRONMENTAL CHEMISTRY

1. Introduction

Terminology – pollution, pollutant, contaminant, receptor, sink, dissolved oxygen (DO), chemical Oxygen demand(COD), Biomedical Oxygen demand(BOD) and threshold limit value.

2. Atmosphere

Major regions- troposphere, Stratosphere, Mesosphere and Thermosphere of atmosphere with temperature profile.

3. Green House Effect

Production, main sources of green house gases, consequences and prevention of Global warming.

4. Depletion of Ozone layer

Cause, Mechanism, Consequences and prevention of depletion of Ozone layer.

5. Air pollution

Air pollutants- Acid rains, Estimation and adverse effects of acid rain, photo chemical smog.

6. Water pollution

Classification of water pollutants, organic pollutants, Inorganic pollutants, radioactive pollutants, eutrofication and consequences, bioamplification

7. Toxicology

Toxic chemicals in the environment, bio chemical effects of lead and Mercury and Arsenic. Biochemical effects of pesticides.

References:-

1. A text book of Environmental chemistry by V. Subramanyam, 2011.
2. A text book of Environmental chemistry and pollution control by SS Dhara and DD Mishra, 2004.
3. Objective environmental sciences by BB Singh.

Certificate course in Environmental chemistry

2018-2019

Model Paper

Time:- 3 hrs

Max marks:- 50

Answer any two of the following

2x10=20M

1. How is atmosphere divided? Discuss the characteristics of major regions with temperature profile.
2. Write a note on Acid rain
3. write Bio chemical effects of Lead?

Answer any 3 questions

3X10=30M

1. What is Green House effect?
2. What is Eutrofication?
3. What are the pollutants and contaminants?
4. Explain bio amplification?

Hindu College, Guntur
Department of Horticulture
Certificate Course Marks List-
2018-19

S NO	NAME OF THE CANDIATE	MARKS OBTAINED (50M)
1.	B.Gopi Naik	39
2	B. Manikanta	42
3	Ch.Mounika	45
4	E.Surendra	42
5	K. Anuradha	46
6	K .Sudarshini	40
7	K.Neelima	38
8	K. Jagadeesh	39
9	M.Pavan	41
10	P.Prasanth Kumar	45
11	P.Ashok	38
12	S.Lakshmi Srilekha	36
13	V.Shanmukha Manikanta Swami	46

HINDU COLLEGE, GUNTUR



(Affiliated By Acharya Nagarjuna University)

Re-accredited By NAAC as Grade A

CERTIFICATE

This is to certify that Mr./Miss T. Geetha Sai Supriya studying
I HBZ has successfully completed certificate course on "Environmental chemistry"
conducted by Dept. of Horticulture, Hindu College, Guntur,
from 21-12-2018 to 31-12-2018. We wish all the best in his/her future endeavors.

P. N. Deek
HEAD



T. Geetha Sai Supriya
DIRECTOR
DIRECTOR
Sciences & Allied Courses,
Hindu College
Amaravathi Road Campus