

**STARTED BATCH IN ADD ON COURSE-2019**  
**B.Sc.STUDENTS**



**ADD ON COURSE**  
**on**  
**Environmental chemistry**

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

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

**Hindu College, Guntur**  
**ADDON 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, eutrophication and consequences, bioamplification

## **7. Toxicology**

Toxic chemicals in the environment, biochemical 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.

# **AddOnCoursein Environmental chemistry**

**2019-2020**

Model Paper

Time:- 3 hrsMax marks:- 50

Answer any two of the following

2x10=20M

1. Write about B.O.D ?
2. Write about threshold limit value ?
- 3.write about trophosphere

Answer any 3 questions

3X10=30M

1. write about acid rains ?
- 2.discuss about photochemical smog ?
- 3.write about toxic chemicals in environment ?
4. discuss about bioamplification ?

**Hindu College, Guntur**  
**Department of Horticulture**  
**Add On course 2019- 2020**

| SNO | NAME OF THE STUDENT | Students Signature  |
|-----|---------------------|---------------------|
| 1.  | A.Navya Sri         | A.Navya Sri         |
| 2   | B.Vamsi             | B.VAMSI             |
| 3   | Ch.Nagalakshmi      | CH. NAGALAKSHMI     |
| 4   | I Ashok             | I. ASHOK            |
| 5   | K.Chuchitha         | K.Chuchitha         |
| 6   | K.Priyanka Rani     | K.Priyanka Rani     |
| 7   | K .UdayKiran        | K .UdayKiran        |
| 8   | M.Gopichhand        | M.Gopichhand        |
| 9   | M. Kiranmai         | M. Kiranmai         |
| 10  | M Madhubabu         | M. Madhubabu        |
| 11  | M. Ramya            | M. Ramya            |
| 12  | Md .Kaseef Mehatb   | Md. Kaseef Mehatb   |
| 13  | N Srisailaja        | N. Srisailaja       |
| 14  | N Navya             | N. NAVYA            |
| 15  | M .Narasimhulu Naik | M. NARASIMHULU NAIK |
| 16  | P.Bharath Kumar     | P. BHARATH KUMAR    |
| 17  | P.SaiSindhu         | P. SaiSindhu        |
| 18  | P.Bhavana           | P. Bhavana          |
| 19  | Y .Prem Kumar       | Y. Prem Kumar       |
| 20  | Sk. Hameed          | Sk. Hameed          |

# Hindu College, Guntur

## Department of Horticulture

### AddOnCourseMarksList-2019-20

| SNO | NAMEOFTHECANDIATE  | MARKSOBTAINED<br>(50M) |
|-----|--------------------|------------------------|
| 1.  | A.Navya Sri        | 40                     |
| 2   | B.Vamsi            | 45                     |
| 3   | Ch.Nagalakshmi     | 48                     |
| 4   | I Ashok            | 39                     |
| 5   | K.Chuchitha        | 44                     |
| 6   | K.Priyanka Rani    | 38                     |
| 7   | K .UdayKiran       | 36                     |
| 8   | M.Gopichhand       | 42                     |
| 9   | M. Kiranmai        | 46                     |
| 10  | M Madhubabu        | 48                     |
| 11  | M. Ramya           | 38                     |
| 12  | Md .KaseefMehatb   | 42                     |
| 13  | N Srisailaja       | 45                     |
| 14  | N Navya            | 44                     |
| 15  | M .NarasimhuluNaik | 38                     |
| 16  | P.Bharath Kumar    | 39                     |
| 17  | P.SaiSindhu        | 46                     |
| 18  | P.Bhavana          | 39                     |
| 19  | Y .Prem Kumar      | 45                     |
| 20  | Sk. Hameed         | 39                     |

HINDU COLLEGE:: GUNTUR  
SCIENCES & ALLIED COURSES  
ATTENDANCE FOR ADD ON COURSE [Environmental chemistry]  
DEPARTMENT OF HORTICULTURE

YEAR: 2019

[illegible]

# HINDU COLLEGE, GUNTUR



(Affiliated By Acharya Nagarjuna University)  
Re-accredited By NAAC as Grade A

## CERTIFICATE

This is to certify that Mr./Miss M. Kiranmai studying  
DHBZ has successfully completed certificate course on "Environmental chemistry"  
conducted by Dept. of Horticulture, Hindu College, Guntur,  
from 22/12/2019 to 31/12/2019. We wish all the best in his/her future endeavors.

  
HEAD



  
DIRECTOR  
DIRECTOR  
Sciences & Allied Courses  
Hindu College  
Amaravathi Road Campus