

## CHEMISTRY IN DAY TODAY LIFE

<b>Subject Code</b>	CH-OET 4.5	<b>IA Marks</b>	<b>30</b>
<b>No. of Lecture Hrs./Week</b>	04	Exam Hours	03
<b>Total No. of Lecture Hours</b>	52	Exam Marks	70

### UNIT-I:

#### **Environment:** **13Hrs**

Scope of Environmental Chemistry, Environmental pollution, Environmental segments, Vertical temperature, vertical structure of the atmosphere.

Biogeochemical cycles in the environment: Oxygen, Carbon, Nitrogen cycles.  
Biodistribution of elements.

### UNIT-II:

#### **Ozone Layer-The Earth's Protective Umbrella:** **13Hrs**

Creation of Ozone layer, mechanism of ozone formation and depletion, probing the ozone shield, ozone hole over Antarctica, Effects of ozone depletion.

**Chlorofluro Carbon:**Harmful effects of CFCs, remedial steps and control strategies.

### UNIT-III:

#### **Smog and Acid rain:** **13Hrs**

Sulphurous or London smog, Photochemical or Los Angeles smog, Mechanism of smog formation, Adverse effects of photochemical smog, Control of photochemical smog pollutants.

Introduction to Acid rain, Theories of acid rains, Adverse effects of acid rains, Control of acid rains.

### UNIT-IV:

#### **Green House effect and Global Warming:** **13Hrs**

Green house effect and Green house gases, Sources, earth's mechanism and global climate, and its causes.

Global warming and climate changes: Implications of climate change, consequences, Control measures of green house effect, El Nino and La Nina Phenomenon. Asian and Malasian brown clouds.

### BOOKS RECOMMENDED:

1. Environmental Chemistry- By, H.Kaur- Pragati Prakashan.
2. Environmental chemistry S.E.Manahan, Willard grants press London