



**DEPARTMENT OF CHEMISTRY**  
**UNIVERSITY OF LUCKNOW**  
**Four Year Undergraduate Course Structure:**  
**Subject: Chemistry Semester III NEP (Revised)**  
*For students admitted in session 2024-25 onwards*

**Semester III**

**Chemistry in Daily Life**  
**Co Curriculum (CC 2)**

**Credits 2**  
**MM 100 (75 + 25)**

**Course Outcomes**

- CO 1: Understand the role of Chemistry in household activities
- CO 2: Know about the chemistry involved in electronic, computerized gadgets and batteries
- CO 3: Understanding the importance of chemistry in food

**Unit-I**

- **Chemistry in the kitchen:**
  - Chemistry of cooking - physical and chemical changes, stability of nutrients during cooking, Microwave cooking, butter and cooking oil - saturated and unsaturated fatty acids, hydrogenation of oil.

**Unit-II**

- **Chemistry in the atmosphere:**
  - Pollution. Acid rain, Ozone layer, Global warming, Green chemistry and relevant international conventions.
- **Chemistry of Local Industries:**
  - Sugar and food industries and their implications on community, Cracking of petroleum, ethanol production,

**Unit-III**

- **Chemistry of common appliances:**
  - Printer inks, paints & Varnish and stainless steel, Corrosion and corrosion resistant materials.
- **Chemistry of Energy:**
  - Energy we use and energy we need, batteries, cells Cost of energy, Alternate energy - solar and fuel cell, Chemistry of motor vehicle, fuel additives, lubricating oils, brake fluid, accumulators.

**Unit-IV**

- **Chemistry of Thoughts:**
  - Positive and Negative thoughts (stress) chemicals and role of meditation and yoga to mitigate the stress related chemicals.
- **Ethical issues in chemical research:**
  - Chemical and nuclear weapons, Environmental issues. Integrity of scientific results, the welfare of research participants.

**Books Recommended**

1. Chemistry in Daily Life by Kripal Singh( Third Edition) ISBN-978-81-203-4b17-8
2. Chemistry in Daily Life By Trnst L. Tohn. ISBN 9781440084508.