

**Generic Elective**

**Offering Department:** Department of Chemistry

**Semester-VI**

(From AY 2016-17 onwards)

<b>16UCHGE02</b>	<b>Chemistry in Everyday Life</b>	<b>2 Hrs./Week</b>	<b>2 Credits</b>
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**Unit.1 Drugs and their Classification: (5 Hrs.)**

Introduction, classification (based on pharmacological effect, drug action, chemical structure), therapeutic action of different classes of drugs - antacids, analgesics, antimicrobials including antibiotics and antiseptics.

**Unit.2 Chemicals in our food products: (5 Hrs.)**

Definition and classification of food additives, examples of artificial sweetening agents and food preservatives.

**Unit.3 Cleansing Agents: (5 Hrs.)**

Definition and classification of cleansing agents, soaps - types, structure, incompetency of soaps with hard-water, detergents - types and structure of detergents.

**Unit.4 Colouring Agents: (4 Hrs.)**

Colouring phenomena, classification of dyes, examples and applications.

**Unit.5 Chemistry of Cosmetic Materials: (5 Hrs.)**

Introduction, formulation and role of important chemicals/components used in cream, perfumes, talcum powder, and dental products.

**Books Recommended:**

1. Chemical formulation an overview of surfactant – based preparation used in everyday life – Tony Hargreave, Royal Society of Chemistry, 2003, ISBN: 0854046356
2. Cosmetic and Toiletry Formulations - Vol. 2, Ernest W. Flick, Noyes Publication
3. Food Chemistry, H.-D. Belitz, W. Grosch, P. Schieberle, Springer-Verlag Berlin Heidelberg 2009, ISBN: 978-3-540-69933-0
4. An Introduction to Medicinal Chemistry - Graham L. Patrick, Oxford University Press
5. Color Chemistry: Syntheses, Properties, and Applications of Organic Dyes and Pigments, Heinrich Zollinger, Wiley VCH; 3rd, Revised Edition, ISBN: 3906390233.