CHMDC 124 (T+P): Industrial Chemistry

Credit – (2T+2P), Theory Hours – 30, Practical Hours – 60

Course outcomes

At the end of the course, the student will be able to-

CO 1: know about industrial products, their preparations, manufacturing, uses and market tends

CO 2: applying the knowledge understand, analyse and solve the problem with environmental impact

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8
CO-1	3	2	1					1
CO-2	3	2	1	1	1		1	1

UNIT 1 Explosives and Pesticides [15 hors] [25 marks]

[A] Explosives: Introduction, classification, synthesis and uses of Tetryl, PETN, HMTA, RDX, Nitro glycerine

[B] Pesticides: Introduction, classification, synthesis and uses of Malathione, Parathione, Aldrin, Methoxychlor

Unit 2 Drugs and Dyes [15 hors][25 marks]

[A] Drugs: Introduction, classification, synthesis and uses of Aspirin, Paracetamol, Phenacetin, Antipyrin, Benzocaine, tolbutamine, n-hexyl resorcinol

[B] Dyes: Introduction, General classification, synthesis and uses of Malachite green, Indigo, Alizarin, Congo red, Eosin

REFERENCE BOOK

1. '**Shreve's Chemical process Industry** by George T. Austin, 2017
2. '**Organic chemistry'** by I. L. Finar, Volume 2, Pearson Education, 1996
3. '**Burger's medicinal chemistry and drug design'** (5/e) 1997, vol 1 to 5 edited by Manfred E.Woltt (John wiley and sons Mc. New york)
4. '**Medicinal chemistry'** by Ashutoshkar
5. '**Principles of medicinal chemistry'** by William A. Foye (ied), lea and febiys (Philadelphia