

CH207 APPLIED CHEMISTRY IV

Credits: 6 (L = 4, P = 4)

(Pre-requisite: None)

Course Details:

Agrochemicals:

Insecticides, pesticides, herbicides and plant nutrients.

Drugs and drug intermediates:

Classification and manufacture.

Dyes:

Classification and manufacture. Toxicity of dyes.

Natural products:

Alkaloids, flavonoids and dextrans

Polymers:

Classification; Molecular weights - number average and weight average; methods for the determination of molecular weights. Polydispersity; glass transition temperature; solubility parameters.

Toxicity of chemical substances:

Carcinogenicity; action of toxic substances on biosystems; method of ingress; safety precautions and antidotes; material safety data sheet.

Reference Books:

Industrial Chemistry including Chemical Engineering

Goel Publishing House, Meerut

B K Sharma

A Textbook of Organic Chemistry:

S Chand and Company

B S Bahl and Arun Bahl

Organic Chemistry vols. I & II:

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