

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

**PROPOSED SYLLABUS FOR S.Y.B.Sc. SEMESTER-IV
(EFFECTIVE FROM 2020-21)**

**INDUSTRIAL CHEMISTRY
(GENERIC ELECTIVE COURSE)**

50 MARKS [EXTERNAL]

TOTAL = 30 HRS

20 MARKS [INTERNAL]

UNIT-I

[10Hrs.]

[A] Inorganic Chemicals:

(1) Red Phosphorus (2) Sodium hexametaphosphate

(3) PCl_5 (4) Phosphoric acid

[B] Industrial Preparation and uses of:

(1) Potassium permanganate (2) Bleaching powder by Bachmann's method

UNIT-II

[10Hrs.]

[A] Fertilizers:

Definition and classification of fertilizers, Direct and indirect fertilizers, Natural and synthetic fertilizer, Symptoms of deficiency of some elements like N, K, and P.

Industrial Preparation of: Ammonium sulphate

Hazardous effect of used of fertilizers and its preventive measures, Mixed fertilizers, Complex fertilizers, Fertilizers grades, Fertilizers ratio, Fertilizers condition, Fertilizers filter.

UNIT-III

[10Hrs.]

[A] Glasses: Classification, properties and uses of glasses

[B] Non Ferrous alloys : Monel metal, Duralumin, Wood metal, Babbit metal, Phosphorus bronze, Brass, German silver

