

**SARDAR PATEL UNIVERSITY**  
**Programme & Subject: B.Sc (Industrial Chemistry-Vocational)**  
**Semester: VI**  
**Syllabus with Effect from: November-2013**

<b>Paper Code: US06CICV05</b>	<b>Total Credit: 3</b>
<b>Title of Paper: Pharmaceutical-II</b>	

Unit	Description in Detail	Weightage (%)
I	Drugs, pro-drugs, biotransformation of drugs, routes of drugs administration and dosage forms, drug binding, drug toxicity, drug addiction, some important terms used in chemistry of drugs, biological and medical terms used in the study of drugs, distinctive definition. Classification of drugs, relation of chemical structure and chemical activity.	25%
II	The study of life saving drugs: Introduction, classification, properties and uses of followings. Sulfadugs, Antipyretics and analgesics, Antifungal and Antiinflammatory drugs .	25%
III	Vitamins and Hormones: Introduction, origin of vitamins, classification of vitamins and deficiency disease. Hormones- Adrenaline, Thyroid gland hormone and sex Hormone.	25%
IV	Microorganisms: Structure, classification, Growth and Usefulness. Fermentation: General principle of fermentation process and product processing. Manufacturing of Penicillin, Tetracyclins and Vit-B <sub>12</sub>	25%

**Basic Text & Reference Books:**

- Organic chemistry of Drugs synthesis, Daniel Lednice and L.A. Mitsohar, Wiley Interscience.
- An introduction to synthetic Drugs, P.P.Singh and D.W.Rangnekar, Himalaya Publication, Bombay.
- Synthetic Drugs by Gurdeep R. Chatwal (Himalaya Publishing House).
- Principles of medicinal chemistry, W.O.Foye: Lea and Febigen, Publication, Philidelphia.
- Text book of organic medicinal and pharmaceutical chemistry Milson, Gisvold, Derge, Lippinett Toppan.

