

SARDAR PATEL UNIVERSITY
Programme: MSC (Pharmaceutical Chemistry)
Semester: III
Syllabus with effect from: June 2010

Paper Code: PS03CPCH02	Total Credits: 4
Title Of Paper: Medicinal Chemistry - II	

Unit	Description in detail	Weightage (%)
	The following classes of drugs will be discussed in relation to Classification, structure, physicochemical aspects, therapeutical applications, mode of action, SAR, synthesis of few official drugs.	
1	Drugs acting of Central Nervous systems: Introduction to CNS, Functions of CNS Depressants: General and Local anaesthetics. Hypnotics and Sedatives. Anxiolytics Anti – Depressants: Tranquillizers. Anti – Convulsants. Anti – Parkinsonisms drugs. Drugs used in Alzheimer’s disease	25 %
2	Miscellaneous drugs acting on CNS: Narcotic analgesics (Opioid analgesics). CNS Stimulants (Brain Stem Stimulants). Skeletal Muscle Relaxants.	25 %
3	Chemistry of Autocoids: Eicosanoids and their synthesis inhibitors. NSAIDS, anti-inflammatory and anti-pyretics. Anti-allergic	25 %
4	Drugs acting on Autonomic nervous systems: Introduction to ANS, Functions of ANS. Parasympathomimetics and Parasympatholytics. Sympathomimetics and Sympatholytics	25 %

Basic Text & Reference Books:

- **Foye’s Principles of Medicinal Chemistry**, 5th edition, David A. Williams, Thomas L. Lemke,
- Lippincott Williams & Wilkins publisher - a Walter kluwer business, ISBN – 13: 978-81-89836-02-3
- ISBN – 10: 81-89836-02-1. ISBN: 0-7817-4211-0.
- **Wilson and Gisvold’s Textbook of Organic Medicinal and Pharmaceutical Chemistry**, 11th edition,
- John H.Block, John M. Beale, Jr., Lippincott Williams & Wilkins publisher - a Walter kluwer business, ISBN – 0-7817-3481-9
- **Principles of Medicinal Chemistry**, Volume – I & II, 15th edition, Dr. S.S.Kadam, Dr. K.R.Mahadik,
- Dr. K.G.Bothara, Nirali Prakashan, ISBN: 81-85790-04-3.
- **Medicinal and Pharmaceutical chemistry**, Harkishan Singh, V. K.Kapoor, Delhi – Vallabh Prakashan,
- ISBN – 81-85731-00-4, VSBN – 38, 2nd edition, reprint (2008).
- **Medicinal Chemistry**, Ashutoshkar(author), New age international publisher, ISBN – 81-224-1970-4.
- **Text book of Medicinal Chemistry**, S. Alagarsamy(Author), Vol – I/II, Elsevier, Rajkamal Electric Press, Kundli, Haryana, ISBN – 978 – 81- 312 – 2189 – 1.

