

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

Paper Code: PS04CPCH02	Total Credits: 4
Title Of Paper: Medicinal Chemistry - III	

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.	25 %
1	Drugs acting of Cardiovascular system: Anti – hypertensives Anti – arrhythmic agents Anti – anginal agents Anti – hyperlipidemic agents Cardiotonics Diuretics	25 %
2	Drugs acting on Respiratory tract: Anti – asthamatic Anti – tussives Expectorants Respiratory stimulants	25 %
3	Drugs acting on Gastrointestinal Tract: Anti – emetics Anta – acids Anti – ulcerative agents Anti – diarrheals	25 %
4	Hormones: Thyroid hormone and anti – thyroid agents Insulin and Hypoglycemic agents	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.

