



HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

Course Name: B. Sc. Chemistry Semester: V

PROGRAM CODE: SCIUG102
COURSE CODE: SC23SECCH506B

Type of course: Skill Enhancement course SEC

Name of course: Medicinal Chemistry (SEC-3)

Total Marks: 50

Effective from June 2025 Under NEP 2020

Total Credits:	Teaching Hours per Week: 02	Theory	External 25 Marks
02	Teaching Hours per Semester: 30		Internal 25 Marks

Course Objectives:

1. To understand the core concepts of Nomenclature of drug, classification of drug and an important terminology of Medicinal Chemistry
2. To study about the drug design, drug receptor and drug administration.

Course Outcome:

1. Students will have a firm foundation in the fundamentals and application of current Chemical and scientific theories including those in, medicinal chemistry.
2. Students will appreciate the central role of chemistry in our society and use this as a basis for ethical behavior in issues facing chemists including an understanding of safe handling of chemicals, environmental issues and key issues facing our society in energy, health and Medicine.
3. Students will be able to design and carry out scientific experiments as well as accurately record and analyse the results of such experiments.
4. Students will be skilled in problem solving approach, critical thinking and analytical Reasoning as applied to scientific problems.
5. To know about the medicinal chemistry. This is useful in CSIR NET & GSET Examination.

Unit	Topic	Credit	Hours
1	Medicinal Chemistry-1 Introduction of Medicinal Chemistry History of Medicinal Chemistry Some important terminology of Medicinal Chemistry Nomenclature of Drug Basic classification of Drug Difference between Drug and Medicine	1	15
2	Medicinal Chemistry-2 Introduction Pharmacopoeias Basic concept of Drug Design Basic concept of Drug & Receptor Interaction Rotes of Drug Administration Adverse effect of drug & minimization of adverse effect	1	15

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Reference Book:

1. Adhunik Sanshlesit Ausodho nu Rasayan by Dr. Anamik Shah
2. Sanshlesit Ausodho nu Rasayan by Dr. J. P. Trivedi & Dr. K. A. Thakar
3. Medicinal Chemistry (sixth edition) Ashutoshkar New Age international publishers
4. Medicinal Chemistry Alkagupta A pragatiprakashan
5. Organic Pharmaceutical Chemistry G R Chatwal Himalaya publication house.
6. A Text book of Medicinal chemistry V Algaswamy
7. Medicinal Chemistry Vol-1Kandareddy Girija A Pragatiprakashan

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